

# **Annual Report For Fiscal Year 2004**



**Center for  
Scientific  
Review**

**February 2005**

**Prepared by:**

Office of Planning, Evaluation, and Analysis  
Center for Scientific Review  
National Institutes of Health  
Department of Health & Human Services

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## Foreword

The core mission of the Center for Scientific Review (CSR) is to identify the best science for NIH Institutes and Centers to consider for funding.

CSR's Annual Report is intended to provide a comprehensive look at the structure and organization that supports CSR's mission. Key information about the Center's science and business components including receipt and referral, review, management services, administration, planning and evaluation, and outreach for fiscal year (FY) 2004 are included.

I am pleased to present this annual report, which not only describes CSR's organization, activities, and accomplishments, but also acknowledges the thousands of scientists who contribute each year to the success of the NIH peer review system.



Brent Stanfield, Ph.D.  
Acting Director, Center for Scientific Review

February 2005

## CSR Data At A Glance, Fiscal Year 2004

### INFORMATION ON REVIEWED APPLICATIONS<sup>1</sup>

<b>Applications Reviewed in Fiscal Year 2004</b>	<b>Number</b>	
Applications Reviewed by CSR	47,000	( 69% of total reviewed by NIH)
Applications Reviewed by Other NIH Institutes and Centers	21,221	(31% of total reviewed by NIH)
Total Applications Reviewed by NIH	68,221	(100 % of total reviewed by NIH)
Applications Received by CSR and Reviewed by other DHHS Agencies	3,342	
Total DHHS Applications Received by CSR and Reviewed by CSR, NIH and DHHS	71,563	

<b>CSR and NIH Review Growth From FY 2003 to FY 2004</b>			
	<b>FY 2003</b>	<b>FY 2004</b>	<b>% Increase</b>
CSR Reviewed Applications	41,398	47,000	14%
Total NIH Reviewed Applications	58,939	68,221	16%

<b>CSR and NIH Review Growth From FY 1998 - FY 2004</b>				
<b>Fiscal Year</b>	<b>Applications Reviewed by All NIH</b>	<b>NIH % Growth Over Previous Year</b>	<b>Applications Reviewed by CSR</b>	<b>CSR % Growth Over Previous Year</b>
2004	68,221	16%	47,000	14%
2003	58,939	23%	41,398	24%
2002	48,014	12%	33,472	12%
2001	42,755	-1%	30,009	-4%
2000	43,120	2%	31,397	-1%
1999	42,383	12%	31,837	18%
1998	37,855	--	27,074	--

<sup>1</sup> Includes applications reviewed between October 1, 2003 and September 30, 2004 for the January, May and October 2004 Council rounds. Information on CSR-reviewed applications does not include applications deferred or withdrawn prior to review. Data for other NIH ICs and non-NIH agencies include all applications assigned to those DHHS components for review.

**INFORMATION ON RECEIVED APPLICATIONS<sup>2</sup>**

<b>Total Applications Received By NIH FY 2001--FY 2004</b>		
<b>Fiscal Year</b>	<b>Total</b>	<b>% Increase in 1 Year</b>
2004	68,749	9%
2003	63,152	25%
2002	50,341	16%
2001	43,554	--

<b>Total Applications Received by CSR for NIH and DHHS Agencies</b>		
<b>Fiscal Year</b>	<b>Total</b>	<b>% Increase in 1 Year</b>
2004	73,711	8%
2003	68,429	24%
2002	55,238	16%
2001	47,695	--

**REVIEW GROUP DATA****Study Sections and Integrated Review Groups (IRG)**

At the end of FY 2004, there were 21 IRGs. (This number fluctuates as CSR reorganizes. A total of 23 IRGs are planned by the end of FY 2005.)

In the last review cycle in FY 2004 (June meetings for the October 2004 Council), there were 198 standing study sections (124 chartered and 74 standing Special Emphasis Panels (SEPs), including those for small business and fellowship applications).

**Meetings**

There were 1,734 meetings held in CSR in FY 2004.  
 Standing meetings (including regularly recurring SEPs): 595  
 Non-recurring SEPs: 1,139

<sup>2</sup> Includes applications received at CSR between October 1, 2003 and September 30, 2004. Not all applications are reviewed in the fiscal year in which they are received. The numbers and growth rates of "applications reviewed" shown on page 1 differ from those of "applications received" on page 2 because the group of applications reviewed in a given fiscal year includes applications that were received late in the previous year and thus are not reviewed in it; and the group of applications reviewed in a given fiscal year similarly does not include applications received late in that fiscal year. As a result, accelerations and decelerations in grant submissions have resulted in different application counts and growth rates for applications received and applications reviewed in different years.

**Reviewers**

Over 14,000 individuals served as reviewers on CSR study sections in FY 2004

- ~2,000 Regular reviewers serving on chartered study sections
- ~ 5,000 reviewers served as temporary members on chartered study sections
- ~10,000 reviewers served on SEPs

Reviewers typically devote 20-48 hours reading their assigned applications and writing critiques before their meetings.

**Cost of Reviews**

Honoraria paid to each reviewer: \$200 a day for attending meetings  
 Average cost per one two-day study section meeting: \$32,050

**CSR OPERATING BUDGET**

**FY 2004**

\$ 56,020,000 million (IC Research Management and Support Funds)  
 \$ 29,502,859 (Scientific Review Evaluation Awards provided by the Institutes/Centers to support reviewers)

**FY 2005**

\$ 53,600,000 million (IC Research Management and Support Funds)  
 \$ 36,000,000 (Scientific Review Evaluation Awards provided by the Institutes/Centers to support reviewers - Estimate)

**EMPLOYEE DATA**

**Employees at CSR as of October 1, 2004 (FY 2005):**

<u>Organization</u>	<u>Federal</u>	<u>Contractors</u>	<u>Total</u>
Receipt and Referral	12	25	37
Health Scientist Administrators (HSAs)	231		231
Review Support	9	20	29
OD	10	1	11
DMS	24	21	45
<b>TOTAL</b>	<b>286</b>	<b>67</b>	<b>353</b>



## Introduction

The peer review system at the National Institutes of Health (NIH) is recognized as the cornerstone of the NIH extramural programs. It is the principal mechanism by which the funding Institutes and Centers (ICs) identify research that is highly worthy of support. The focal point of the NIH peer review system is the Center for Scientific Review (CSR).

CSR receives all competing applications for NIH as well as some for other components of the Department of Health and Human Services (DHHS) and assigns them to the potential funding component. NIH applications constitute about 93% of the total that CSR receives. Applications to be reviewed within CSR are further assigned to the Integrated Review Group (IRG) that will manage the review (an IRG is a cluster of scientifically related study sections). Following referral to the IRG, CSR staff performs further referral to the appropriate study section. As of September 2004 (the NIH fiscal year is October 1 to September 30), CSR had 21 IRGs, within which approximately 122 standing study sections were organized. Standing study sections are loosely defined as recurring meetings that are held each review round (three times per year) and they generally focus on investigator initiated research project mechanisms (R01, R03, R21, etc.), small business mechanisms (R41, R42, R43, R44), or fellowship mechanisms (F31, F32, F33).

In fiscal year (FY) 2004, CSR managed the initial peer review of approximately 66% of the nearly 74,000 grant applications submitted to the NIH.<sup>3</sup> The remainder were reviewed in the ICs or assigned to non-NIH agencies for review. In general, CSR reviewed most investigator-initiated applications (e.g., R01, fellowships, small business applications); while the ICs reviewed applications in response to special programmatic initiatives or utilizing mechanisms that fund research highly mission-specific for the IC (e.g., Requests For Applications, multicenter clinical trials, etc.)

In executing its mission, CSR is uniquely dependent on the scientific community that it serves. Over 14,000 external experts served on CSR's study sections in FY 2004 (see Appendix 1). Approximately 2,000 of these served as regular reviewers on chartered committees, a commitment that involves attending up to three meetings a year over four years. Over 10,000 reviewers served on SEPs, and about 5,200 served as temporary members on chartered panels<sup>4</sup>. These reviewers came from over 1,500 institutions and organizations from across the United States and the world, including academic institutions and medical schools; local, state, and Federal Government agencies and offices; private industry; small businesses; nonprofit organizations and foundations; hospitals; and research organizations. In addition to serving as peer reviewers, many scientists from the community also served on CSR committees, panels, and working groups assisting CSR in reorganizing and evaluating its review structure and practices.

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<sup>3</sup> Based on the number of applications received in FY 2004. Not all applications received in FY 2004 were reviewed within the fiscal year.

<sup>4</sup> Many CSR reviewers served in multiple capacities. For instance, regular reviewers often also served on Special Emphasis Panels or as temporary members on other study sections when their expertise was needed in those areas.

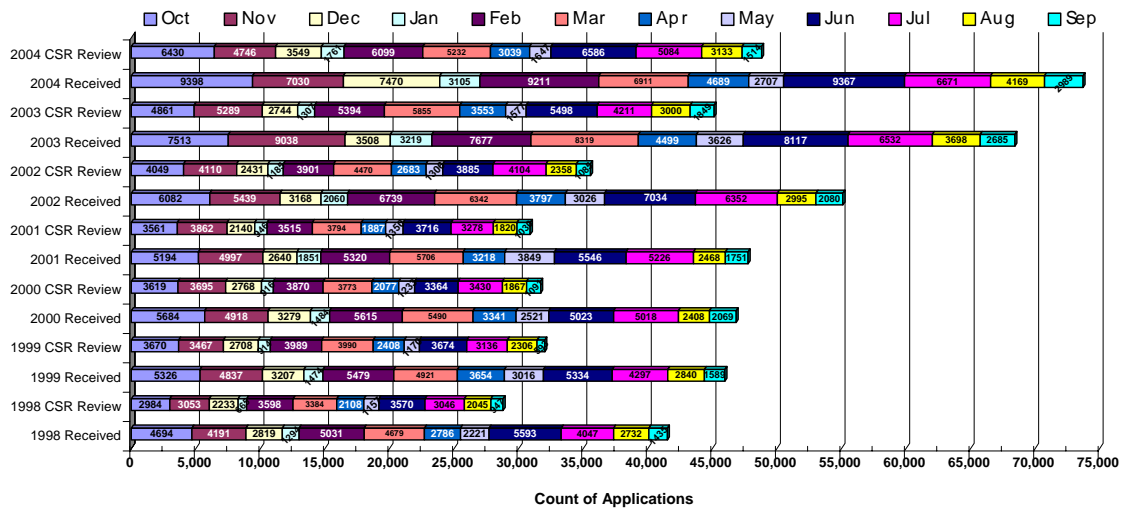
## FY 2004 Highlights and Milestones

The following includes summaries of a number of significant events and highlights in FY 2004 that had substantial impact across CSR:

**Acting Director:** In September 2003, Dr. Ellie Ehrenfeld announced that she was stepping down as CSR Director, and in October 2004, Dr. Brent Stanfield was named Acting Director of CSR by NIH Director Dr. Elias Zerhouni. Dr. Stanfield continued to service as Acting Director of the CSR throughout FY 2004.

**Applications:** Although the trajectory of increase in the number of grant applications reviewed by CSR was not as steep as in FY 2003, CSR reviewed a record number of applications in FY 2004 (See Figure 1). In FY 2004, CSR reviewed 47,000 applications, a 15% increase over fiscal year 2003. Table 1 shows the distribution of applications reviewed by CSR during 2004 by Council round and by grant mechanism. (See Appendix 2 for a detailed list of applications reviewed by CSR.)

**Figure 1. Applications Assigned to CSR for Review by Month of Receipt**



**Table 1.** Applications reviewed by CSR in FY 2004, by Council round and by mechanism<sup>5</sup>

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects:</b>					
<b>R01</b>	8,362	9,903	9,347	27,612	58.7%
<b>Small Business (R41, R42, R43, R44)</b>	2,209	2,286	2,243	6,738	14.3%
<b>R21</b>	1,630	1,958	2,233	5,821	12.4%
<b>Other Research Projects (R03, R13, R15, R24, R25, R33, R34, R37, R55)</b>	690	828	745	2,263	4.8%
<b>Fellowship Programs (F30, F31, F32, F33)</b>	890	1,373	1,189	3,452	7.3%
<b>Research Career Programs (K01, K02, K05, K08, K22, K23, K24, K25)</b>	78	92	95	265	0.6%
<b>Research Program Projects and Centers (P01, P20, P40, P41, P50)</b>	17	22	20	59	0.1%
<b>Miscellaneous Mechanisms (D43, D71, L30, S10, T15, T35, U01, U13, U19, U2R, U54)</b>	304	153	333	790	1.7%
<b>Total</b>	<b>14,180</b>	<b>16,615</b>	<b>16,205</b>	<b>47,000</b>	<b>100%</b>

**Personnel:** CSR employed 551 staff members in FY 2004: 401 were Federal employees and 155 were contractors<sup>6</sup>. CSR lost 43 Federal employees during the fiscal year, 10 of whom were professional review staff. CSR hired 55 new employees in FY 2004, 39 of whom were professional review staff. Table 2 shows the breakdown of employees by Division within CSR.

**Table 2.** CSR employees in FY 2004 by Division or Office; includes both Federal and contract staff<sup>7</sup>

<b>Division</b>	<b>Number of employees</b>
Division of Biologic Basis of Disease	122
Division of Clinical and Population-based Studies	107
Division of Molecular and Cellular Mechanisms	118
Division of Physiology and Pathology	94
Division of Receipt and Referral	59
Division of Management Services	60
Office of the Director	15

Due to the large increases in the number of applications that CSR reviews, CSR has attempted to increase the size of its professional review staff in order to keep the application workload at around 80 applications per SRA. Table 3 shows the numbers of SRAs, IRG Chiefs, re-employed annuitants and interns on board at CSR at the end of each fiscal year between 2000 and 2004.

<sup>5</sup> In this and subsequent tables, fiscal year refers to the year in which the applications were reviewed. All data were obtained from IMPACII and include only applications that were reviewed in CSR study sections. Applications that were deferred or withdrawn prior to review were not included.

<sup>6</sup> Several employees were employed both by the federal government and by a contractor during FY 2004

<sup>7</sup> Division totals do not sum to 551 because some employees moved between Divisions in FY 2004 and are counted in both places, and because there were two contract employees who could not be assigned to a Division.

**Table 3. Numbers of professional review staff on board at CSR at the end of each fiscal year, 2000-2004**

FY	SRAs	IRG Chiefs	Re-employed	
			Annuitants	Interns <sup>8</sup>
2000	114	19	2	--
2001	123	17	2	4
2002	120	19	4	5
2003	145	19	5	11
2004	180	19	4	19

**NIH Most Efficient Organization:** In September 2003, NIH won its bid to provide extramural support services through a Most Efficient Organization (MEO) staffed by NIH employees. The decision meant that the NIH would restructure its extramural support services according to the staffing model and business practices proposed for the MEO. The new organization, called the Division of Extramural Activities Support (DEAS), is a component of the NIH Office of Extramural Research (OER). DEAS has had a significant impact on CSR since there were 84 federal staff (which account for 78.5 FTEs because some of these staff were part time students) and 64 contract staff affected. One-third of CSR staff either transitioned to DEAS or were displaced. The adoption of standard operating procedures for review support also impacted several CSR business practices.

**Reorganization:** The implementation of the study sections proposed under the Panel on Scientific Boundaries for Review (PSBR) reorganization is on schedule for completion in February 2005. In January 2004, the CSR Advisory Committee endorsed the recommendations for the Biological Chemistry and Macromolecular Biophysics and Cell Biology IRGs, the final IRGs to be implemented in the PSBR reorganization. In October 2004, application referral began for the aforementioned IRGs, and their first study section meetings will be held in February and March 2005. During the first and second implementation rounds in 2003, four new IRGs were implemented: Hematology (HEME); Biology of Development and Aging (BDA); and Oncological Sciences (ONC). During the third through fifth implementation rounds in FY 2004 the first study section meetings were held within eight new and reorganized IRGs: Bioengineering Sciences and Technologies (BST); Cardiovascular Sciences (CVS); Renal and Urological Sciences (RUS); Respiratory Sciences (RES); Digestive Sciences (DIG); Endocrinology, Metabolism, Nutrition and Reproductive Sciences (EMNR); Surgical Sciences, Biomedical Imaging and Bioengineering (SBIB); and Immunology (IMM). During our fifth implementation round in October/November 2004, study section meetings were held for the new Genes, Genomes, and Genetics (GGG) IRG and for the reorganized Infectious Diseases and Microbiology (IDM) IRG. Over five previous rounds of IRG implementations, CSR held first meetings for 86 new study sections within 14 of the 16 reorganized IRGs.

<sup>8</sup> The first interns started in August 2001.

**Internet Assisted Review System:** In FY 2003, the NIH deployed the Internet Assisted Review (IAR) system, which allows reviewers to submit critiques and preliminary scores for applications and also allows reviewers and SRAs to view critiques and scores in preparation for a meeting. Use of this tool has grown rapidly, from 117 meetings in October and November 2003 to 501 meetings by March 2004. As of May 2004, over 10,000 reviewers used the system for CSR or other NIH peer review meetings. Within CSR, IAR is now available to all SRAs and study sections.

**Review Internship Program:** The program accepted a total of 13 interns in FY 2004 and a total of 16 interns had completed the program by the end of the year. The program has been highly successful. Of the 16 interns that have completed the program, 14 have remained at CSR as Scientific Review Administrators and two have accepted other positions in science administration. The next receipt date for applications is January 1, 2005 for interns beginning in July 2005.

**Communication and Outreach Activities:** CSR expanded its outreach efforts in FY 2004 to educate and inform applicants and reviewers by deploying its new exhibit booth display at four major scientific meetings and distributing copies of its *Inside the Grant Review Process* video (<http://www.csr.nih.gov/Video/Video.asp>) for new applicant training at over 130 research institutions. In addition, CSR instituted a new Reviewer Stories Web site ([http://www.csr.nih.gov/reviewer\\_stories/reviewerstories.asp](http://www.csr.nih.gov/reviewer_stories/reviewerstories.asp)) and expanded its Staff Stories Web site ([http://www.csr.nih.gov/staff\\_stories/Staffstories.asp](http://www.csr.nih.gov/staff_stories/Staffstories.asp)) to inform applicants, reviewers, and the public on the people and process of NIH peer review. CSR also published the *Peer Review Notes* newsletter (<http://www.csr.nih.gov/prnotes/prnotes.asp>) prior to each review round, posted news items on its Web site, and operated an e-mail list to send reorganization news to over 160 scientific societies.

All CSR scientists are encouraged to attend at least two professional meetings in their respective fields to further communications with the scientific community. CSR scientists provided presentations on peer review, conducted mock study sections, or participated in panel discussions on grantsmanship at over 110 professional meetings in FY 2004.

**CSR Advisory Committee and the Peer Review Advisory Committee:** The CSR Advisory Committee, which provided technical and scientific advice to the Director of the NIH and the Director of CSR on matters relating broadly to review procedures and policies, held its final meeting in September 2004. The Peer Review Advisory Committee (PRAC) will hold its first meeting in January 2005. PRAC will be charged with advising the NIH Director, the Deputy Director for Extramural Research, and the CSR Director on matters relating to procedures and policies for the evaluation of scientific and technical merit of applications for grants and awards. This committee will also provide advice on IC and CSR operations. The CSR Director and another IC leader will co-chair the committee, and committee members will include experts such as physicians, basic and clinical investigators, and educators as well as high-level NIH leadership, including some members from the NIH Extramural Activities Working Group (EAWG).

**NIH Director's Pioneer Award Program:** CSR played a critical role in providing administrative, logistic, and customer support in the course of the inaugural year of the NIH Director's Pioneer Award (NDPA) Program. The NDPA is an NIH Roadmap initiative established to identify and fund investigators of exceptionally creative abilities and diligence, allowing them to develop and test far-ranging ideas. NDPA awardees receive \$500,000 per year for five years. During the Program's first year, the scientific community enthusiastically responded to the initiative and submitted over 1,300 nominations and 240 applications. The NDPA Program does not function in the same manner as traditional NIH programs and its implementation posed many challenges. CSR staff members, Dr. David Armstrong and Ms. Terra Vinson, respectively served as the Lead Scientific Project Officer and Program Analyst for the Program, while maintaining their CSR positions. The first nine NIH Director's Pioneer Awards were made in September 2004.

## Office of the Director

### Highlights in Fiscal Year 2004

As mentioned above, Dr. Ellie Ehrenfeld stepped down as CSR’s Director in September 2003 and Dr. Brent Stanfield was named Acting Director. Dr. Stanfield continued serving as CSR’s Acting Director throughout FY 2004.

In FY 2003, Dr. Theodore Kotchen, CSR Special Advisor on Clinical Research, with support from the Office of Planning, Evaluation and Analysis (OPEA), completed an extensive study of the outcomes of review for clinical research applications submitted to the NIH for the May 2002 and October 2002 Council rounds. An article entitled “NIH Peer Review of Grant Applications for Clinical Research” summarized this study and was published in the February 18, 2004 issue of the *Journal of the American Medical Association* (<http://jama.ama-assn.org/cgi/reprint/291/7/836.pdf>). The paper was authored by Dr. Kotchen, Teresa Lindquist, Dr. Karl Malik, and Dr. Ellie Ehrenfeld. In FY 2004, Dr. Kotchen and OPEA with the assistance of Dr. Anita Sostek completed a study of the effect of reviewers’ clinical research experience in scoring clinical and nonclinical applications. This study is now in draft manuscript form.

Ethics issues were brought to the forefront at NIH this past year with a series of newspaper articles concerning apparent conflicts of interest. As a result Anne Stroh, the CSR Ethics Coordinator, has responded to numerous urgent requests which have been generated from investigations of ethics issues by the Congress, the DHHS Inspector General, the Government Accountability Office, and the NIH Office of Management Assessment. Ms. Stroh met with all prospective SRAs in order to discuss any potential conflicts of interest. In addition, she ensured that all CSR employees received in-person ethics training this year.

As part of CSR’s outreach and education efforts, Don Lockett, CSR’s Communications Director, had over 70 interactions with reporters in FY 2004, coordinating the dissemination of CSR news and information. In addition, he coordinated the publication of 30 articles in the *NIH Record* to announce important personnel changes in the Center.

### CSR Office of the Director Staff:

#### Dr. Brent Stanfield

Michelle Arku  
 Margarite Curtis-Farrell  
 Chuck Dumais  
 Dr. Theodore Kotchen  
 Teresa Lindquist  
 Donald Lockett  
 Dr. Karl Malik  
 Mary Elizabeth Mason  
 Nicholas Moriarty\*  
 Tam Ngo

#### Acting Director

Secretary  
 Equal Employment Manager  
 Program Analyst  
 Special Advisor on Clinical Research  
 Program Analyst  
 Communications Director  
 Director, OPEA  
 Secretary  
 Program Analyst  
 Program Assistant

Anne Stroh  
Pamela Sullivan  
Terra Vinson  
David Whitmer

Ethics Coordinator  
Office Manager  
PSBR Project Coordinator  
Executive Officer

*\* left CSR in fiscal year 2004*



## Division of Receipt and Referral

The Division of Receipt and Referral (DRR) is the central receipt point for all new, revised, competing continuation, and supplemental applications submitted to the NIH and to some other components of DHHS. DRR referral officers assign each application to a review panel with the expertise to evaluate the scientific and technical merit of the application and to one or more institutes/centers for funding consideration. DRR performs a variety of other functions, including establishing receipt dates for RFAs, checking applications for compliance with grant application policies, working with investigators to address problems with grant submissions, and making multiple decisions for each application. DRR also serves as an editor in the development of the referral guidelines for the review and institute/center assignments, and serves as an information source about grant application submission policies and procedures for both applicants and NIH extramural staff. DRR received 73,711 applications in FY 2004, an all time high for the Division and the sixth consecutive year of increase in the number of applications received. The increase from 2003 was 7.6 %, considerably less than the over 20% rise in the previous two years.

Essentially all of the applications in FY 2004 were received in traditional paper format; less than 50 were received and processed as full electronic submissions. Participation in the pilot electronic submissions, critiquing the current system, and planning for the continued development of the electronic Competitive Grant Application Process (eCGAP) continue to require considerable effort by DRR staff. Further effort is expended for the ongoing monitoring of problems and enhancements for the IMPAC II system.

DRR conducts two continuing training activities. Receipt and Referral 101 is a one day class for Health Scientist Administrators (HSAs) that provides an overview of the functions of DRR and hands-on experience working with a Referral Officer. This is given at least six times each year and in FY 2004 more than 125 people participated in these sessions. The Extended Training experience is open to HSAs in all ICs and provides in-depth experience over an entire receipt cycle, including responsibility for assignments and problem solving. In addition, DRR staff frequently give talks on the receipt and referral process to a variety of groups, including the NIH extramural community and investigators and institutional staff. We also are called upon to meet with foreign visitors to the NIH and in FY 2004 met with individuals from Switzerland, South Africa, Israel, Japan, and other countries.

### Changes Expected in the Division in FY 2005

The NIH budget forecast indicates that paylines for most ICs will be less favorable than in recent years, and this may lead to an increase in revised applications. Investigators may also feel pressure to submit multiple applications to try to increase their chance for success. Many Roadmap initiatives will be continuing and new efforts launched. The ICs have already scheduled a large number of RFA receipts for the first half of the year. It seems reasonable to estimate that close to 80,000 applications will be received in FY 2005.

NIH expects to greatly expand the number of electronic submissions in 2005 through increasing the types of applications eligible and the number of each type. This will require continued technical development and an intensive public relations campaign to encourage investigators and institutions to participate. An incentive of a later submission date for electronic applications may be used to encourage investigators to submit electronic applications. Operating in a mixed mode of paper and electronic submissions will pose many challenges for DRR. Pending sufficient funds, it is hoped that there will be development and pilot testing of electronic systems for two other referral functions – Awaiting Receipt of Application (ARA) notices and Changes in Assignment Data (901s). This would provide many advantages for the 24 funding Institutes and Centers as well as CSR.

**Changes in Receipt and Referral Personnel In FY 2004**

The staff in Application Receipt and Project Control typically show a fair amount of turnover, and 2004 was no exception. Many of these individuals are students or are just starting out in the workforce. The majority of staff in Application Receipt and Project Control work under a contract, which will be competed in 2005. DRR was not included in the process that led to the establishment of the Division of Extramural Activities Support (DEAS). There was some turnover in the Referral Officer group due to retirement and appointment to new positions. Two referral officers were selected as Assistant IRG Chiefs and one as the head of the review office in another agency. There was also considerable turnover in the full-time professional staff in the Division. A new position was instituted: Associate Director/Research Integrity Officer. A retirement, promotion to Deputy Director, and a transfer to an Institute led to the recruitment of three new Assistant Directors. The Associate Director and two of the new Assistant Directors have considerable extramural experience and thus were able to quickly become productive members of the Division. In FY 2005, DRR expects to have a total of seven full-time professional staff and 15 Referral Officers.

**Division Staff:**

<b>Dr. Suzanne Fisher</b>	<b>Director</b>
<b>Dr. Janet Newburgh</b> *	<b>Associate Director/Research Integrity Officer</b>
<b>Dr. Kalman Salata</b>	<b>Deputy Director</b>
<b>Dr. Anne Clark</b> #	<b>Associate Director/Research Integrity Officer</b>

Ms. Florence Pedersen #	Assistant Director
Dr. Andre Premen #	Assistant Director
Dr. Narayani Ramakrishnan *	Assistant Director
Dr. Ronald Suddendorf	Assistant Director
Carol Campbell *	Referral Health Scientist Administrator

**Referral Officers:**

Dr. Sally Amero  
 Dr. John Bishop  
 Dr. Bill Bunnag  
 Dr. Cathleen Cooper  
 Dr. Dharam Dhindsa  
 Dr. Joanne Fujii

Dr. Patricia Greenwel  
 Dr. Daniel Kenshalo  
 Dr. Michael Knecht  
 Dr. Ramesh Nayak  
 Dr. Janet Nelson  
 Dr. Angela Ng  
 Dr. Martin Padarathsingh  
 Dr. Dana Plude  
 Dr. Gopa Rakhit  
 Dr. Arnold Revzin  
 Dr. Paul Strudler \*  
 Dr. Denise Wiesch

**Other DRR Staff:**

Alice Adams *	Mail Clerk, Data Entry
Olajumoke Akindolie # *	Student, Data Entry
Onica Andrews	Mail Clerk, Data Entry
Oluwatoyin Atala *	Mail Clerk, Data Entry
Abigail Bacchus #	Application Receipt and Project Control
Martin Bibum *	Mail Clerk, Data Entry
Jennifer Blair #	Application Receipt and Project Control
Karen Booker	Mail Clerk, Data Entry
Vilanique Charles	Deputy Chief, Application Receipt and Project Control
Trinette Curtis	Mail Clerk, Data Entry
Antoinette D'Amato # *	Referral Administrative Assistant
Carlotta Daniels	Mail Clerk, Data Entry
Yitateku Dejene	Mail Clerk, Data Entry
Pollenetta Douglas	Mail Clerk, Data Entry
Kimberly Farrall *	Grant Applications Assistant
Tion Gibson #	Application Receipt and Project Control
Alberta Hawkins	Mail Clerk, Data Entry
Karen Jobe	Mail Clerk, Data Entry
Tamara Johnson	Student, Mail Clerk
Jeannette Klein	Mail Clerk
Gineaa Lindo *	Mail Clerk, Data Entry
Luis Melgar	Mail Clerk, Data Entry
Marie Michel	Mail Clerk, Data Entry
Sylvia Nwosu #	
William Phelps *	Student, Mail Clerk
Leah Roberts	Chief, Application Receipt and Project Control
Renay Staton	Mail Clerk, Data Entry
Sheena Thomas	Grants Technical Assistant
Monica Todd	Mail Clerk, Data Entry
Lee Ann Torrington	Mail Clerk, Data Entry
Jose Trejo	Mail Clerk, Data Entry
Asad Ullah *	Mail Clerk, Data Entry
Ruth Walton	Supervisor, Application Receipt
Blair Williams	Mail Clerk, Data Entry
Robert Wilson	Mail Clerk

\* left CSR in fiscal year 2004  
 # joined CSR in fiscal year 2004

## **Division of Biologic Basis of Disease**

The Division of Biologic Basis of Disease (DBBD) is responsible for scientific merit reviews of grant applications submitted to the NIH on the etiology, mechanism of action, and treatment of a variety of diseases that can compromise the health of the population. The subject matter being studied ranges from single molecules to groups of people; hence, the scientific protocols encompass the full range of biological, biomedical, and behavioral research from studies of molecular structure through physiological studies, translational studies, clinical protocols to, in the case of AIDS, studies of behavioral approaches to prevention and treatment. At the end of FY 2004, DBBD consisted of five IRGs: 1) AIDS and AIDS-Related Diseases (AARR); 2) Endocrinology, Metabolism, Nutrition and Reproductive Sciences (EMNR); 3) Infectious Diseases and Microbiology (IDM); 4) Immunology (IMM); and 5) Oncological Sciences (ONC). In FY 2004, DBBD study sections held a total of 494 meetings and reviewed 13,802 grant applications.

### **Changes in the Division During FY 2004**

The reorganization of review responsibilities recommended by PSBR was completed in DBBD during FY 2004. ONC completed the reorganization and its 13 new study sections held their first meetings in October 2003. The first meetings of the new EMNR study sections and the new IMM study sections were held during June 2004. Slates for study sections in these IRGs are currently in development. Provisional slates were posted for the new IDM study sections, which will hold their first meetings in October 2004. With creation of the Vaccines against Microbial Diseases (VMD) study section in IMM, most vaccine-related applications previously reviewed in AARR have moved to IMM; only those which are AIDS-related remain in AARR. During FY 2004, CSR centralized responsibility for the review of applications assigned to the Fogarty International Center (FIC), and the ICP-3 study section was moved from AARR to BDA. At the close of 2004 the responsibility of providing support functions for review moved from CSR to the Office of Extramural Research, resulting in the movement of 39 Grants Technical Assistants from DBBD. In order to deal with this transition, five IRG administrative assistants were provided to the IRGs via a contract.

### **Changes in the Division Anticipated for FY 2005**

Slates will be developed for the new study sections in IMM and EMNR, and the first meetings of the new IDM study sections will take place. Increasing workloads in the ONC IRG will require the creation of at least two additional study sections. Planning will begin for the evaluation of IRGs and their constituent study sections; these evaluations will be done every five years.

### **IRG Chief and Review Staff Personnel Changes in FY 2004**

There were no changes in IRG Chiefs in DBBD during FY 2004. The following DBBD SRAs retired during the fiscal year: Drs. Harold Brodie, Catherine Wingate, Neal West, Paul Strudler, and Philip Perkins. DBBD recruited 13 new SRAs during the fiscal year, including Drs. Bo Hong, John Pugh, Jose Guerrier, Patrick Lai, Ray Bramhall, Reed Graves, Sally Mulhern, Nancy Emenaker, Rossana Berti, Soheyla Saadi, Martina Schmidt,

and Suzanne Forry-Schaudies. Dr. Paek-Gyu Lee transferred from the Division of Physiology and Pathology to DBBD during FY 2004.

**Division Staff:**

**Dr. Elliot Postow**

**Director**

Kathy Dinterman  
Sandra Buchanan

Review Technology Assistant  
Administrative Review Assistant

**AIDS And Related Research Integrated Review Group**

The AIDS and AIDS-Related Research (AARR) IRG reviews all basic, translational, clinical, and behavioral aspects of HIV/AIDS research. This includes studies of the molecular and cell biology, immunology, pathogenesis, and epidemiology of HIV and related viruses, as well as AIDS-associated opportunistic infections; the development of drugs, vaccines, and other therapies; complications of therapy, as well as behavioral and social science approaches to preventing and evaluating the consequences of HIV/AIDS. In FY 2004 AARR reviewed 2,011 applications. It held 103 meetings over the course of the fiscal year, and 698 reviewers served on its review panels.

**IRG Staff:**

**Dr. Ranga V. Srinivas**

**Chief**

Mark Baron  
Dr. Abraham Bautista  
Rebecca Feuerherd  
Dr. Jose Guerrier #  
Dr. Bruce Maurer  
Dr. Eduardo Montalvo  
Dr. Theresa Montini \*  
Jennifer Peddicord \*  
Iris Perry  
Franklin Porter \*  
Dr. Kenneth Roebuck  
Dr. Mark Rupert  
Adebusola Shomoye \*  
Dr. Hilary Sigmon  
Marva St. Hill  
Lee Ann Torrington  
Dr. Mary Clare Walker

Grants Technical Assistant  
Scientific Review Administrator  
Grants Technical Assistant  
Scientific Review Administrator  
Scientific Review Administrator  
Scientific Review Administrator  
Scientific Review Administrator  
Grants Technical Assistant  
Lead Grants Technical Assistant  
Grants Technical Assistant  
Scientific Review Administrator  
Scientific Review Administrator  
Grants Technical Assistant  
Scientific Review Administrator  
Grants Technical Assistant  
Grants Technical Assistant  
Scientific Review Administrator

\* left CSR in fiscal year 2004  
# Joined CSR in fiscal year 2004

**Table 4.** Applications reviewed by AARR by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	377	373	336	1,086	54.0%
<b>Small Business</b>	107	52	60	219	10.9%
<b>R21</b>	179	165	145	489	24.3%
<b>Other Research Projects (R03, R15, R34, R37)</b>	54	44	29	127	6.3%
<b>Fellowship Program (F31, F32)</b>	13	13	22	48	2.4%
<b>Research Career Programs (K01, K02, K08, K23, K24)</b>	11	11	6	28	1.4%
<b>Research Program Projects and Centers (P01)</b>	1	0	1	2	0.1%
<b>Miscellaneous Mechanisms (U01, U09)</b>	7	5	0	12	0.6%
<b>Total</b>	<b>749</b>	<b>663</b>	<b>599</b>	<b>2,011</b>	<b>100%</b>

The AIDS and Related Research IRG includes the following study sections:

AIDS Molecular and Cellular Biology (AMCB)

Scientific Review Administrator: Dr. Kenneth Roebuck

AMCB (formerly AARR-1) reviews applications focused on the molecular, structural, and cellular biology of HIV and related lentiviruses and retroviruses. These areas of research encompass studies of the biochemistry and genetics of HIV and viral infection, replication, and regulation. This study section also reviews applications related to viral aspects of pathogenesis, non-immune host responses and factors, and identification of viral/host targets for gene-based and other therapeutics and diagnostics.

In FY 2004, AMCB primarily reviewed applications for NIAID (81.3%) and NIGMS (5.9%), and small numbers of applications for NIAAA, NCI, NIDCR, NEI, NICHD, NHBLI, NIMH, NINDS, and FIC.

AIDS Immunology and Pathogenesis (AIP)

Scientific Review Administrator: Dr. Abraham Bautista

AIP (formerly AARR-2) reviews applications related to the immunology and pathogenesis of HIV and related lentiviruses/retroviruses. Research includes cellular and humoral responses to HIV and mechanisms of transmission, initiation, and establishment of HIV infection at a cellular and tissue level, including animal models. This study section also reviews studies of immune mechanisms of host resistance, mechanisms of vaccine-induced immunity, and the effect of various infectious and other co-factors on pathogenesis, immune responses, and disease progression.

In FY 2004, AIP primarily reviewed applications for NIAID (84.5%) and NIDCR (5.9%) and reviewed small numbers of applications for NIAAA, NCI, NIDA, NIDDK, NICHD, NHBLI, NINDS, and NCRR.

AIDS Discovery and Development of Therapeutics (ADDT)

Scientific Review Administrator: Dr. Eduardo Montalvo

ADDT (formerly AARR-3) reviews applications concerned with the design, discovery, and development of therapeutics for HIV/AIDS. The science encompassed includes preclinical development of gene-based therapeutics and diagnostics, traditional drugs, targeted drug design and modeling based on structure, pharmacology, toxicology, drug delivery, and assays to measure drug and/or therapeutic levels. This study section also reviews applications related to the development of vector and cellular aspects and/or components of gene-based and immune reconstitution therapies for HIV/AIDS, viral resistance, and interactions of drugs and/or therapeutics used to treat and/or prevent HIV infection and associated complications, as well as other used or abused agents.

In FY 2004, ADDT primarily reviewed applications for NIAID (76.2%) and NIGMS (8.7%), and reviewed small numbers of applications for NCI, NIDA, NIDCR, NIDDK, NIBIB, NICHD, NHBLI, NIMH, NINDS and FIC.

AIDS-associated Opportunistic Infections and Cancer (AOIC)

Scientific Review Administrators: Dr. Eduardo Montalvo

AOIC (formerly AARR-4) reviews applications on opportunistic infections and cancers associated with HIV and AIDS. The science encompasses pathogenesis, immune responses, animal models, and molecular epidemiology and molecular characterization of AIDS-associated opportunistic infections and cancers. This study section also reviews applications that focus on the interactions of opportunistic infections and cancers with HIV infection, and those focused on the identification and development of targets for therapy and prophylaxis for opportunistic infections.

In FY 2004, AOIC primarily reviewed applications for NIAID (52.7%), NCI (31.7%), and NHLBI (6.6%) and reviewed small numbers of applications for NIDA, NIDCR, NIDDK, NEI, NIMH, NINDS, NCRR and FIC.

NeuroAIDS and Other End-organ Diseases (NAED)

Scientific Review Administrator: Dr. Abraham Bautista

NAED (formerly AARR-5) reviews applications on the effects of HIV infection and of AIDS on the nervous system and other organs and systems, and the actions of abused substances, their cognate ligands, and hormones on cellular immune processes. This includes neural-chemokine, neural-cytokine, neuroendocrine, and neuroimmune relationships and similar interactions in other organ systems. The pertinent areas of research also include modulation of the HIV, retroviral, and related diseases by drugs and other co-factors.

In FY 2004, NAED reviewed applications primarily for NIDA (14.5%), NIMH (44.8%), and NINDS (26.9%) and also reviewed small numbers of applications for NIAAA, NIA, NIAID, NCI, NIDDK, NEI, NHLBI, NCRR, and FIC.

#### AIDS Clinical Studies and Epidemiology (ACE)

Scientific Review Administrators: Dr. Ranga V. Srinivas, Dr. Hilary Sigmon

ACE (formerly AARR-6) reviews studies of epidemiology, natural history, in vivo pathogenesis, and transmission of HIV infection in defined cohorts, and clinical studies/trials related to HIV/AIDS and associated opportunistic infections and cancers. This study section also reviews research related to nutrition and wasting, complementary and alternative medicine approaches, and clinical development of therapeutics, prophylactic agents, and biomedical interventions to treat or prevent HIV/AIDS and associated opportunistic infections and cancers. In addition, it addresses the development of diagnostics, clinical assays, and mathematical models.

In FY 2004, ACE primarily reviewed applications for NIAID (47.5%), NCI (5.7%), NIDA (8.9%), NIDDK (12.7%), and NICHD (15.8%), and reviewed a small number of applications for NIAAA, NCCAM, NHLBI, NIMH, and FIC.

#### Behavioral and Social Science Approaches to Preventing HIV/AIDS (BSPH)

Scientific Review Administrators: Dr. Theresa Montini, Dr. Jose Guerrier

BSPH (formerly AARR-7) reviews studies of behavioral and social science aspects of HIV transmission and infection in the individual, group, and community. Specifically, it reviews studies of risk factors, antecedents, and correlates of HIV infection, as well as basic behavioral, epidemiologic, and social science studies of mechanisms and factors at the individual and community levels. In addition, it reviews research on the development and testing of the efficacy of psychosocial interventions to prevent HIV infection in at-risk populations.

In FY 2004, BSPH primarily reviewed applications for NIAAA (5.7%), NIDA (24.1%), NICHD (27.8%), and NIHM (36.7%), and also reviewed a small number of applications for NIAID, NINR and FIC.

#### Behavioral and Social Consequences of HIV/AIDS (BSCH)

Scientific Review Administrator: Dr. Mark Rubert

BSCH (formerly AARR-8) reviews studies of behavioral and psychosocial aspects of HIV infection, disease progression, and sequelae in the individual, group, and community. In addition, it reviews epidemiological, survey, health services, and other social science research of psychosocial factors of HIV disease. These outcome studies include the effectiveness of interventions, the consequences of



infection, and the effects of HIV infection and AIDS on the individual, family, and community.

In FY 2004, BSCH primarily reviewed applications for NIAAA (8.9%), NIDA (22.2%), NICHD (10.1%), NIMH (44.3%), and NINR (6.3%), and also reviewed a small number of applications for NIA, NIAID, NCCAM, NIDCR, and NCRR.

### HIV/AIDS Vaccines (VACC)

Scientific Review Administrator: Dr. Mary Clare Walker

VACC is focused on the review of development activities for vaccines against HIV and AIDS-associated opportunistic infections. This area of "vaccinology research" is both broad and application-oriented as it relates to crosscutting issues encountered in the refinement and development of vaccines. These areas include the construction, modification, and improvement of vaccines and vaccine delivery approaches; development of techniques and approaches to assess immune responses to a vaccine; and the assessment of safety, reactogenicity, toxicity, and immunogenicity in animal and human models as well as efficacy in animal models.

In FY 2004, VACC primarily reviewed applications for NIAID (98.0%); it also reviewed a small number of applications for NIA and FIC.

### Small Business Activities

Small business applications dealing with vaccines or AIDS-related research are reviewed by Special Emphasis Panels within the AARR IRG. Two panels generally are convened each round, one to review grants on biological sciences and the other to review grants on social/behavioral sciences.

## **Endocrinology, Metabolism, Nutrition, and Reproductive Sciences Integrated Review Group**

The Endocrinology, Metabolism, Nutrition and Reproductive Sciences (EMNR) IRG reviews applications addressing molecular, cellular, and higher order hormone-regulated processes in physiology and pathophysiology. Study sections in EMNR evaluate applications on basic and clinical aspects of hypothalamic, pituitary, gonadal, thyroid, and adrenal physiology and pathophysiology, diabetes mellitus (including its pathogenesis, complications and treatment), the biology of the pancreatic islet (beta cell), adipocyte biology, obesity (including its causes and treatment), and other metabolic disorders including inborn errors of metabolism and nutrient transport disorders. Also reviewed in this IRG are applications addressing the biology of reproduction and the pathobiology of its disorders (including the causes and treatments of infertility); male and female reproductive aging and menopause; obstetrical disorders of implantation, gestation, embryogenesis, and parturition; disorders of fetal and neonatal life; and gynecologic conditions. Studies of the role of nutrition under normal and pathological conditions are also reviewed in this IRG. EMNR also reviews applications involving integrative physiology and pathophysiology such as neuroendocrinology; humoral actions on the gut,

lung and heart; cancers of the endocrine glands; as well as studies related to the effects and mechanisms of action of drugs, biopharmaceuticals, alcohol and toxicants, xenobiotics and endobiotics on reproduction or on endocrine glands. Study sections in this IRG met for the first time in June 2004. In FY 2004, EMNR reviewed 719 applications and held 13 meetings. A total of 476 reviewers served on these panels.

**IRG Staff:**

**Dr. Sooja Kim**

**Chief**

Temitayo Aladejana <sup>#*</sup>	Grants Technical Assistant
Dr. Syed Amir	Scientific Review Administrator
Sharon Argyle	Grants Technical Assistant
Nancy Barden	Lead Grants Technical Assistant
Dr. Ray Bramhall <sup>#</sup>	Scientific Review Administrator
Clarice Cannings <sup>#*</sup>	Grants Technical Assistant
Dennis Downer	Grants Technical Assistant
Dr. Nancy Ememaker <sup>#</sup>	CSR Review Internship Program
Dr. Reed Graves <sup>#</sup>	Scientific Review Administrator
Cecelia Griffin <sup>*</sup>	Grants Technical Assistant
Dr. Ann Jerkins	Scientific Review Administrator
Dr. Michael Knecht	Scientific Review Administrator
Dr. N. Krish Krishnan	Scientific Review Administrator
Dr. Dennis Leszczynski	Scientific Review Administrator
Berthony Petit-Homme <sup>#*</sup>	Grants Technical Assistant
Dr. Abubakar Shaikh	Scientific Review Administrator
Kimberly Wesley <sup>*</sup>	Grants Technical Assistant
Donnice Wynn Coleman <sup>*</sup>	Grants Technical Assistant

*\* left CSR in fiscal year 2004*

*# Joined CSR in fiscal year 2004*

**Table 5.** Applications reviewed by EMNR by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	--	--	451	451	62.7%
<b>Small Business</b>	--	--	57	57	7.9%
<b>R21</b>	--	--	131	131	18.2%
<b>Other Research Projects (R03, R15, R24, R33)</b>	--	--	41	41	5.7%
<b>Fellowship Programs (F31, F32)</b>	--	--	38	38	5.3%
<b>Miscellaneous Mechanisms (S10)</b>	--	--	1	1	0.1%
<b>Total</b>	--	--	<b>719</b>	<b>719</b>	<b>100%</b>

The Endocrinology, Metabolism, Nutrition, and Reproductive Sciences IRG included the following study sections:

Molecular and Cellular Endocrinology (MCE)

Scientific Review Administrator: Dr. Syed Amir

MCE reviews applications that address the molecular and cell biology of endocrine organs and their products, both hormones and growth factors. This includes the synthesis and secretion of local and circulating hormones and growth factors (including, but not limited to, polypeptides and lipid-based ligands) and their mechanisms of action as they interact with cell-surface and nuclear receptors to influence cell structure, function, and the regulation of gene expression in both normal and pathologic states.

In FY 2004, MCE primarily reviewed applications for NCI (23.8%), NIDDK (50.8%), NICHD (11.1%) and NHLBI (6.3%). It also reviewed a small number of applications for NIAID, NIEHS, and NIGMS.

### Integrative and Clinical Endocrinology and Reproduction (ICER)

Scientific Review Administrator: Dr. Abubakar Shaikh

ICER reviews applications that focus on the physiology and pathophysiology of endocrine systems, and clinical endocrine and reproductive science investigations. Areas of interest also include adaptation and response to environmental stress and homeostatic challenge; genetics and genomics; growth, development, and aging; neuroendocrinology, including neuroendocrine control of reproductive processes; cancer; interactions with the cardiovascular, gastrointestinal and immune systems; endocrine disruptors and xenobiotics; pharmacology; novel hormone-based therapies; and comparative endocrinology.

In FY 2004, ICER reviewed applications primarily for NCI (10.1%), NIDDK (15.9%), NICHD (52.2%), and NINDS (5.8%). It also reviewed applications for NIA, NIAID, NIAMS, NCCAM, NIEHS, and NIMH.

### Cellular, Molecular and Integrative Reproduction (CMIR)

Scientific Review Administrator: Dr. Dennis Leszczynski

CMIR reviews applications concerned with molecular, cellular, systems, and integrative aspects of reproductive biology. This encompasses the biology of germ cells and gametes, early events in conception (including research relevant to assisted reproductive technologies), and embryo development (including embryonic stem cells until the stage of implantation). Also included are reproductive toxicology; gonadal function; puberty; male and female reproductive aging; the male and female reproductive tracts and their disorders; and research on infertility, contraception, gynecology, and andrology.

In FY 2004, CMIR reviewed applications primarily for NIEHS (9.1%), NIGMS (5.7%) and NICHD (78.4%), but also reviewed smaller numbers of applications for NIA and NCRR.

### Pregnancy and Neonatology (PN)

Scientific Review Administrator: Dr. Michael Knecht

PN covers all aspects of intrauterine mammalian development from implantation through pregnancy, parturition and the neonatal period. Areas include the normal physiology of pregnancy, parturition and the postpartum period as well as clinical obstetrics, disorders of pregnancy, neonatal development and diseases of the newborn. In addition, research related to the immunology of pregnancy; maternal nutrition; the effects of pharmaceuticals, xenobiotic agents, and environmental toxicants on pregnancy; and placental endocrinology and function can be reviewed in PN. Techniques and research models utilized may include clinical and basic genetics, molecular biology, cellular and organ physiology, and integrative biology.

In FY 2004, PN primarily reviewed applications for NICHD (73.9%) and NHLBI (15.9%), and also reviewed small numbers of applications for NIDDK, NIBIB, and NIEHS.

#### Cellular Aspects of Diabetes and Obesity (CADO)

Scientific Review Administrator: Dr. Ann Jerkins

CADO includes all aspects of metabolic regulation related to type 1 and type 2 diabetes, including islet biology; insulin secretion and action; signal transduction pathways and their regulation; obesity and adipocyte biology (including cellular metabolism and energy balance); and regulation of nutrient flux and metabolism in muscle, adipose tissue, liver, and islets.

In FY 2004, CADO reviewed applications primarily for NIDDK (90.7%) and also reviewed applications for NIA, NIBIB, NIGMS, NICHD, and NHLBI

#### Integrated Physiology of Diabetes and Obesity (IPOD)

Scientific Review Administrator: Dr. Reed Graves

IPOD reviews applications related to all aspects of fuel (energy) regulation and the maintenance of homeostasis, including: communication between cells and tissues, the regulation of fuel (energy) flux between and storage in tissues and organs, and macronutrients related to energy metabolism and diabetes. Complications of these processes and their influence on disease are also addressed. Patient-oriented research and the use of animal models to explore hypotheses derived from human studies are included within the purview of this study section.

In FY 2004, IPOD reviewed applications primarily for NIA (6.8%), NIDDK (76.1%), and NHLBI (6.8%). It also reviewed small numbers of applications for NIAAA, NIAMS, NCCAM, NIBIB, NIGMS, NICHD, and NINDS.

#### Integrative Nutrition and Metabolic Processes (INMP)

Scientific Review Administrator: Dr. Sooja Kim

INMP reviews applications dealing with the integration of molecular events, gene responses, metabolic processes, and physiological functions that pertain to macronutrients (carbohydrate, fat, and protein), micronutrients (vitamins and minerals), and other food components. Complications of these processes and their influence on disease are also addressed here. Approaches span basic to patient-oriented research using cell culture systems, genetically manipulated animals, and human studies.

In FY 2004, INMP primarily reviewed applications for NIDDK (41.5%), NIGMS (5.7%), NICHD (15.1%), and NHLBI (20.8%). It also reviewed applications for NIA, NIAID, NCCAM, NCI, NIEHS, and NINDS.

#### Small Business Activities (EMNR 10)

Scientific Review Administrator: Dr. Krish Krishnan

EMNR (10) (formerly SSS-T) considers small business applications involved in areas of endocrinology, metabolism, nutrition, and reproductive sciences. These include applications of emerging technologies and methodologies for a broad spectrum of research related to all aspects of general endocrinology, pregnancy, reproductive physiology, nutrient metabolism and processes in normal states as well as diabetes, obesity and related diseases. This study section formerly met as part of the Nutritional and Metabolic Sciences (NMS) IRG.

#### Fellowships (F06)

Scientific Review Administrator: Dr. Krish Krishnan

F06 reviews fellowship applications involved in areas of endocrinology, metabolism, nutrition, and reproductive sciences. Included are applications for a broad spectrum of research related to all aspects of general endocrinology, gametogenesis and reproductive physiology, pregnancy and lactation, and nutrient metabolism. This study section formerly met as part of the Nutritional and Metabolic Sciences (NMS) IRG.

### **Endocrinology and Reproductive Sciences Integrated Review Group**

The Endocrinology and Reproductive Sciences (ENR) IRG reviewed basic and clinical applications on endocrinology and reproductive biology, including developmental animal and human endocrinology, general clinical endocrinology, biochemical and molecular endocrinology, reproductive medicine, and fetal-maternal relationships. In FY 2004, ENR reviewed 727 applications and held 20 study section meetings. A total of 248 reviewers served on these panels. Study sections in this IRG held their last meetings in February 2004.

**IRG Staff:**

**Dr. Sooja Kim**

**Chief**

Dr. Syed Amir	Scientific Review Administrator
Sharon Argyle	Grants Technical Assistant
Dr. Harold Brodie *	Scientific Review Administrator
Dennis Downer	Grants Technical Assistant
Cecelia Griffin *	Grants Technical Assistant
Dr. Michael Knecht	Scientific Review Administrator
Dr. Dennis Leszczynski	Scientific Review Administrator
Dr. Abubakar Shaikh	Scientific Review Administrator
Huong Tran	Office Automation Clerk
Wendy Washington	Grants Technical Assistant
Kimberly Wesley *	Grants Technical Assistant
Donnice Wynn Coleman *	Grants Technical Assistant

\* Left CSR in fiscal year 2004

**Table 6.** Applications reviewed by ENR by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	258	332	--	590	81.2%
<b>Small Business</b>	0	0	--	0	0
<b>R21</b>	71	43	--	114	15.7%
<b>Other Research Projects (R03, R15, R37, R55)</b>	13	8	--	21	2.9%
<b>Research Career Programs (K24)</b>	1	0	--	1	0.1%
<b>Miscellaneous Mechanisms (U01)</b>	0	1	--	1	0.1%
<b>Total</b>	<b>343</b>	<b>384</b>	<b>--</b>	<b>727</b>	<b>100%</b>

The Endocrinology and Reproductive Sciences IRG included the following study sections:

Biochemical Endocrinology (BCE)

Scientific Review Administrator: Dr. Michael Knecht

BCE reviewed applications concerned with the chemical, biochemical, and molecular aspects of endocrinology, with a primary emphasis on hormones and endocrine glands associated with reproductive processes. This study section held its final meeting in February 2004.

In FY 2004, BCE primarily reviewed applications for NCI (25.5%), NIDDK (37.3%), and NICHD (29.4%). It also reviewed a small number of applications for NIA and NIAMS.

Endocrinology (END)

Scientific Review Administrator: Dr. Syed Amir

END reviewed applications in general endocrinology, including molecular mechanism of hormone action, growth factors and cytokines. The studies range from aspects of developmental endocrinology to general clinical endocrinology. This study section held its final meeting in February 2004.

In FY 2004, END primarily reviewed applications for NIDDK (82.3%) and NCI (5.7%), and also reviewed a small number of applications for NIA, NIAID, NIAMS, NIDA, NIGMS, NICHD, NHLBI, and NINDS.

#### Human Embryology & Development 1 (HED-1)

Scientific Review Administrator: Dr. Michael Knecht

HED-1 reviewed applications dealing with mammalian embryology and development, and fetal-maternal relationships. Of special interest were research projects that study mechanisms associated with normal and abnormal development that will lead to a better understanding of embryology, pregnancy, parturition, and the prevention of infant morbidity and mortality. This study section held its final meeting in February 2004.

In FY 2004, HED-1 primarily reviewed applications for NICHD (64.8%), and NHLBI (26.6%) It also reviewed a small number of applications for NIAMS, NIDDK, NIBIB, NIEHS, and NINDS.

#### Reproductive Biology (REB)

Scientific Review Administrator: Dr. Dennis Leszczynski

REB reviewed applications in the general area of sexual reproduction, including human, other vertebrate, and invertebrate model systems, but with less emphasis on endocrinology. This study section held its final meeting in February 2004.

In FY 2004, REB primarily reviewed applications for NICHD (90.3%), but also reviewed a small number of applications for NCI, NIDDK, NIEHS, NIGMS, and NCRR.

#### Reproductive Endocrinology (REN)

Scientific Review Administrator: Dr. Abubakar Shaikh

REN reviewed applications in the general areas of basic and clinical reproductive endocrinology and neuroendocrinology including normal and aberrant reproductive processes in humans and in laboratory animal models. Most of the patient-oriented research is reviewed in REN. This study section held its final meeting in February 2004.

In FY 2004, REN primarily reviewed applications for NIA (5.6%), NCI (22.5%), NIDDK (11.3%), and NICHD (47.2%). It also reviewed a small number of applications for NIAID, NIAMS, NCCAM, NIDA, NIEHS, NIGMS, NHLBI, NIMH, NINDS, and NCRR.

Small Business Activities

Small business applications reviewed by ENR covered a broad spectrum of research related to all aspects of general endocrinology, human embryology, reproductive physiology, and related diseases.

**Infectious Diseases and Microbiology Integrated Review Group**

The Infectious Diseases and Microbiology (IDM) IRG considers applications involving the basic biology of microbes (excluding HIV), multicellular parasites and their vectors, and the infections and diseases caused by these agents. Specifically, IDM reviews applications concerning virology and viral pathogenesis, bacteriology and bacterial pathogenesis, fungal pathogenesis, parasitology and parasitic diseases, the innate and adaptive host responses to these microbes and viruses, and the development of anti-infective agents to treat and prevent infectious disease. If the focus of a grant application is a pathogen or a pathogenic mechanism, assignment for review could be to an IDM study section. In FY 2004, IDM reviewed 2,890 applications in 109 study section meetings. During this period, 1,016 reviewers served on these panels.

**IRG Staff:**

**Dr. Alexander D. Politis**

**Chief**

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Dr. Fouad El-Zaatari	Scientific Review Administrator
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Dr. Robert Freund	Scientific Review Administrator
Dr. Tim Henry	Scientific Review Administrator
Dr. Jean Hickman	Scientific Review Administrator
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Dr. Richard Kostriken	Scientific Review Administrator
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Dr. Rolf Menzel	Scientific Review Administrator
Dr. Melody Mills	Scientific Review Administrator
Dr. Joseph Mosca	Scientific Review Administrator
Dr. John Pugh #	Scientific Review Administrator
Dr. Joanna Pyper	Scientific Review Administrator
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Marion Ellen Stover \*  
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\* Left CSR in fiscal year 2004  
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**Table 7.** Applications reviewed by IDM by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	477	504	507	1,488	51.5%
<b>Small Business</b>	190	158	184	532	18.4%
<b>R21</b>	170	196	183	549	19.0%
<b>Other Research Projects (R03, R13, R15, R24, R37)</b>	79	106	82	267	9.2%
<b>Fellowship Programs (F31)</b>	0	0	54	54	1.9%
<b>Total</b>	<b>916</b>	<b>964</b>	<b>1,010</b>	<b>2,890</b>	<b>100%</b>

The Infectious Diseases and Microbiology IRG has the following study sections:

Bacteriology and Mycology 1 (BM-1)

Scientific Review Administrator: Dr. Timothy Henry

BM-1 reviewed applications in the broad area of bacterial disease, including the basic biology of bacterial disease agents, etiology, molecular mechanisms of pathogenesis, taxonomy, virulence factors, phagocytosis, host-parasite relationships, antibiotic usage, and general immune phenomena.

In FY 2004, BM-1 primarily reviewed applications for NIAID (87.3%). It also reviewed a small number of applications for NIAMS, NCI, NIDCR, NIDDK, NIGMS, NICHD, NHLBI, NINDS, and FIC.

Bacteriology and Mycology 2 (BM-2)

Scientific Review Administrator: Dr. Melody Mills

BM-2 reviewed applications in the broad area of bacterial and fungal disease, including etiology, pathogenesis, host-parasite relations, taxonomy, virulence, phagocytosis, antibiotic usage, and general immune phenomena. It included basic biology of bacterial and fungal disease agents; host-parasite relationships; pathogenesis; etiology; diagnostic procedures and basic research leading to vaccines. Diseases, infections, and conditions caused by the following are reviewed in BM-2: all fungal agents, mycoplasmas, Legionella, Neisseria, Pseudomonas, Streptococcus, and Staphylococcus. Applications reviewed by BM-2 frequently involved identification of virulence factors, isolation and cloning of the virulence factors, study of the control of the expression of the virulence factors, physiological

interaction of the virulence factor with the host, and perhaps structure/function descriptions of the factor.

In FY 2004, BM-2 primarily reviewed applications for NIAID (88.1%), but also reviewed a small number of applications for NIAMS, NIDCD, NIDCR, NIDDK, NIEHS, NIGMS, NICHD, NHLBI, NINDS and NCRR.

### Experimental Virology (EVR)

Scientific Review Administrator: Dr. Robert Freund

EVR addressed virtually all areas of virology. This includes basic molecular virology; viral biochemistry and biophysics; genetics; etiology, immunology and serology, pathogenesis, and cytopathology of viruses; tumor viruses; chemo- and immunotherapy; viral structure and morphology, including electron microscopy; host-virus interactions; laboratory and clinical diagnosis; viral immunity; pre-vaccine studies; and antivirals.

In FY 2004, EVR primarily reviewed applications for NIAID (65.4%) and NCI (24.4%). It also reviewed a small number of applications for NIDCR, NIDDK, NIGMS, NHLBI, NINDS, and NCRR.

### Microbial Physiology and Genetics 1 (MBC-1)

Scientific Review Administrator: Dr. Diane Stassi

MBC-1 reviewed applications dealing with the metabolism, structure, and morphogenesis of microorganisms except protozoa.

In FY 2004, MBC-1 primarily reviewed applications for NIAID (32.0%) and NIGMS (63.0%). It also reviewed a small number of applications for NCI, NIDCR, NIDDK, and NIEHS.

### Microbial Physiology and Genetics 2 (MBC-2)

Scientific Review Administrator: Dr. Alexander Politis

MBC-2 reviewed applications concerned with the genetics and molecular biology of bacteria, cyanobacteria, archae, and, some areas of research in yeasts. Also included are the genetics of viruses that infect these organisms. MBC-2's interest was on the enzymes and processes of replication, transfer, and expression of the microbial genome as well as mutation, recombination, repair, and functional genomics.

In FY 2004, MBC-2 reviewed applications primarily for NIAID (27.9%) and NIGMS (68.6%), and also reviewed a small number of applications for NCI, NIDCR, and NIEHS.

Tropical Medicine and Parasitology (TMP)

Scientific Review Administrator: Dr. Jean Hickman

TMP was primarily interested in experimental, survey, and clinical projects designed to study and control the myriad of parasites, pests, and vectors that carry or cause disease in humans and other animals. Also of interest in relation to these agents were epidemiological factors involved in the spread and control of disease.

In FY 2004, TMP primarily reviewed applications for NIAID (95.0%), but also reviewed a small number of applications for NCI, NEI, NIGMS, NICHD and NHLBI.

Virology (VR)

Scientific Review Administrator: Dr. Joanna Pyper

VR reviewed virtually all facets, basic and applied, of virology. Thus, the range of interest and competence is broad, including biophysics and genetics, etiology, immunology and serology, pathogenesis and cytopathology, tumor-viruses, immunotherapy, ultrastructure (electron microscopy), epizootiology, pre-vaccine studies and laboratory and clinical diagnosis.

In FY 2004, VR primarily reviewed applications for NIAID (63.7%), NCI (21.6%), and NIGMS (6.9%). It also reviewed a small number of applications for NIDDK, NEI, NHLBI, and NINDS.

Small Business Activities

The IDM IRG reviews small business applications that focus on the development and biological or clinical testing of therapeutic agents that target microbial, fungal, parasitic, viral, or biofilm-related diseases.

**Immunology Integrated Review Group**

The Immunology (IMM) IRG reviews applications that seek an understanding of the immune system's role in hosts' interactions with infectious agents, tumor cells, transplanted cells, self components, the conceptus/fetus, allergens, and environmental exposures; mechanisms, prevention, and treatment of diseases when the immune system has a major role; the evolution, comparative biology, development, structure, aging, and malfunction of the immune system; the molecular, cell, organ, and organismal biology of the immune system; the biophysical and structural analysis of antigens and immune system products and components; the interactions of the immune system with other organs, such as the nervous and endocrine systems; and the participation in immunity by non-lymphohematopoietic tissues and cells, such as epithelia. IMM was reorganized in FY 2004 and its new study sections held their first meetings in June 2004. In FY 2004, IMM reviewed 2,149 applications in 98 study section meetings. During this period, 777 reviewers served on IMM review panels.

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**Chief**

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Dr. Samuel Edwards	Scientific Review Administrator
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Dr. Bahiru Gametchu	Scientific Review Administrator
Dr. Betty Hayden	Scientific Review Administrator
Dr. Patrick Lai #	Scientific Review Administrator
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Dr. Jiang Wang	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 8.** Applications reviewed by IMM by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	343	449	479	1,271	59.1%
<b>Small Business</b>	77	108	105	290	13.5%
<b>R21</b>	64	95	146	305	14.2%
<b>Other Research Projects (R03, R15, R24, R25, R37)</b>	29	66	53	148	6.9%
<b>Fellowship Program (F31, F32)</b>	25	57	43	125	5.8%
<b>Miscellaneous Mechanisms (S10)</b>	0	0	10	10	0.5%
<b>Total</b>	<b>538</b>	<b>775</b>	<b>836</b>	<b>2,149</b>	<b>100%</b>

The Immunology IRG has the following study sections:

Allergy and Immunology (ALY)

Scientific Review Administrator: Dr. Samuel Edwards

ALY reviewed applications on molecular and biochemical approaches to understanding the structure and function of the components of the immune system, their regulation and interrelationships; structural and biophysical approaches to understanding the function of immune cells; immune cell activation and cell-cell communication via signal transduction; studies of complement and the innate immune system; molecular aspects of immediate type hypersensitivity; molecular approaches to immunogenetics and immunodeficiency. ALY held its last meeting in February 2004.

In FY 2004, ALY primarily reviewed applications for NIAID (67.9%), NCI (6.9%), and NIGMS (17.0%); it also reviewed a small number of applications for NIAMS, NIDCR, NIDDK, NICHD, and NHLBI.

### Experimental Immunology (EI)

Scientific Review Administrator: Dr. Cathleen Cooper

EI reviewed applications on the cellular and molecular aspects of the immune system function, particularly relating to immunity against cancer. EI was concerned with the more basic aspects of the topics covered but also considered clinical aspects of immunology where there is a link between both stages. Emphasis was on the immunobiology and immunochemistry of humoral and cellular immune reactions in animals and humans to partially or completely defined antigens, immunotherapy of tumors, gene therapy of tumors, cytokine (and other mediators) therapy of tumors, phagocytosis and antigen processing, the characterization of mediators and antigens involved in tumor experimental immunotherapy and immunodiagnosis of tumors and immunopathology of tumors where there is a link between these topics and immune reactivity against the tumor. EI held its last meeting in February 2004.

In FY 2004, EI primarily reviewed applications for NIAID (39.1%) and NCI (56.4%). It also reviewed a small number of applications for NIA, NCCAM, NIDCR, NIGMS, and NCRR.

### Immunobiology (IMB)

Scientific Review Administrator: Dr. Betty Hayden

IMB reviewed applications on the functional and mechanistic aspects of basic immunology; cellular and molecular immunology; immunogenetics; immunoregulation; development of T and B cells; T and B cell activation and differentiation; T-B cell interaction, basic tissue (bone marrow) and organ transplantation; tolerance, apoptosis, immunology of aging. IMB held its last meeting in February 2004.

In FY 2004, IMB reviewed applications primarily for NIAID (75.8%), and NCI (6.6%). It also reviewed a small number of applications for NIA, NIDDK, NIEHS, NEI, NIGMS, NICHD, NHLBI, NINDS, and NCRR.

### Immunological Sciences (IMS)

Scientific Review Administrator: Dr. Bahiru Gametchu

IMS reviewed applications that focused on cellular, biochemical, and molecular aspects of the immune system in the context of immunological diseases including clinical hypersensitivity, autoimmune diseases, and immunodeficiency but excluding transplantation and tumor biology. The focus of IMS included

applications that utilize animal models and/or human clinical investigations to advance the understanding of or treatment options against immunologically-based disease. Review of applications concerning infectious agents was limited to early stage vaccine development and applications that focus on the immune responses against viruses. IMS held its last meeting in February 2004.

In FY 2004, IMS primarily reviewed applications for NIAID (51.1%), NIAMS (11.1%), NIDDK (12.8%), NHLBI (5.6%) and NINDS (14.4%). It also reviewed a small number of applications for NCCAM, NIDA, NIDCR, NIEHS, NEI, NICHD, and NCRR.

### Innate Immunity and Inflammation (III)

Scientific Review Administrator: Dr. Tina McIntyre

III reviews applications involving basic aspects of innate immunity and inflammation, including studies of soluble and cellular mediators of these processes. III held its first meeting in June 2004.

In FY 2004, III reviewed applications primarily for NIAID (75.0%), NIGMS (5.0%), and NHLBI (11.7%), and also reviewed a small number of applications for NIA, NIAMS, NIDDK, NICHD, and NINDS.

### Immunity and Host Defense (IHD)

Scientific Review Administrator: Dr. Patrick Lai

IHD reviews applications involving host defense, systemic and mucosal immunity. IHD held its first meeting in June 2004

In FY 2004, IHD reviewed applications primarily for NIAID (85.7%) and NIDDK (7.1%), but also reviewed a small number of applications for NCI, NIDCR, and NICHD.

### Cellular and Molecular Immunology A & B (CMI A, CMI B)

Scientific Review Administrator: Dr. Samuel Edwards, Dr. Betty Hayden

The two Cellular and Molecular Immunology study sections review applications that investigate the biochemical, cell biological and genetic processes that regulate the development, survival, death, activation and function of lymphocytes and other cells of the adaptive immune system. The two study sections are interchangeable, with a few areas of specialization in each. CMI A and CMI B held their first meetings in June 2004.

In FY 2004, CMI A reviewed applications primarily for NIAID (70.2%), NCI (9.5%), and NIGMS (10.7%). It also reviewed applications for NIA, NIAMS, NIDCR, NIDDK, NIBIB, and NHLBI.

In FY 2004, CMI B primarily reviewed applications for NIAID (78.2%) and NCI (10.3%), and also reviewed applications for NIAAA, NIA, NIDDK, NIGMS, and NICHD.

#### Hypersensitivity, Autoimmune, and Immune-mediated Diseases (HAI)

Scientific Review Administrator: Dr. Bahiru Gametchu

HAI reviews applications from basic, pre-clinical, and clinical investigators that involve the etiology, initiation, immuno-pathophysiology, prevention and treatment of diseases in which the immune system (innate and adaptive) is the major contributor. This includes autoimmune diseases, hypersensitivity and allergic diseases, asthma, primary and secondary states of non-AIDS immunodeficiency, and inflammatory diseases. HAI held its first meeting in June 2004.

In FY 2004, HAI reviewed applications primarily for NIAID (48.4%), NIAMS (15.8%), NIDDK (20.0%), and NINDS (9.5%). It also reviewed smaller numbers of applications for NIEHS and NHLBI.

#### Transplantation, Tolerance, and Tumor Immunology (TTT)

Scientific Review Administrator: Dr. Cathleen Cooper

TTT reviews grant applications that are from basic, pre-clinical, and clinical investigators and involve transplantation, tumor immunology, and cellular and molecular mechanisms of immunoregulation as they impact transplantation, self-tolerance, or effective tumor immunity. The study section balances the biological and clinical perspectives in the study of transplantation. TTT held its first meeting in June, 2004.

In FY 2004, TTT primarily reviewed applications for NIAID (20.0%) and NCI (75.6%), and also reviewed applications for NIA and NHLBI.

#### Vaccines Against Microbial Diseases (VMD)

Scientific Review Administrator: Dr. Jian Wang

VMD reviews applications on immune responses to pathogens and the development of safe and effective vaccines against pathogens other than HIV. The study section reviews basic and applied applications relating to the refinement and development of vaccines. Areas of interest include construction and improvement of vaccines and their delivery; development of methods to assess immune responses to vaccines; and assessment of immunogenicity, efficacy and safety in animal models and humans. The applications reviewed by this study section are distinguished from basic immunology- and pathogenesis-oriented applications designed to increase understanding of immune responses or pathogens as a necessary process that precedes vaccine development. The study section balances the perspectives of those who are experts in the basic immune system (innate and

adaptive) and of those who are experts in the complex biology of pathogens and their interactions with hosts. VMD held its first meeting in June 2004

In FY 2004, VMD reviewed applications primarily for NIAID (94.7%), but also reviewed small numbers of applications for NCCAM, NCI, NIBIB and NICHD.

Small Business Activities (IMM 10)

Scientific Review Administrator: Dr. Stephen Nigida

IMM (10) reviews small business grant applications in the areas of basic and applied immunology, immunologic therapies, and diseases of immunologic origin. IMM (10) also reviews applications dealing with development of computer models of the immune system or of immunologic reactions.

Fellowships (F07)

Scientific Review Administrator: Dr. Calbert Laing

F07 reviews fellowship applications where the focus is an understanding of the role of the immune system in the host interaction with infectious agents, tumor cells, transplanted cells, self-components, the conceptus/fetus, allergens, and with substances encountered through environmental exposure.

**Nutritional and Metabolic Sciences Integrated Review Group**

The Nutritional and Metabolic Sciences (NMS) IRG reviewed basic and clinical applications on: the metabolic and nutritional processes across the lifespan in normal and disease states at the organism, tissue, or cellular level; requirements of living organisms for nutrients, vitamins and trace elements; and nutritional practices in all clinical sciences. In FY 2004, NMS reviewed 570 applications and held 9 study section meetings. A total of 172 reviewers served on these panels. Study sections in this IRG held their last meetings in February 2004.

**IRG Staff:**

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**Chief**

Sharon Argyle  
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 Grants Technical Assistant



\* Left CSR in fiscal year 2004

**Table 9.** Applications reviewed by NMS by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	143	144	--	287	50.4%
<b>Small Business</b>	64	51	--	115	20.2%
<b>R21</b>	31	25	--	56	9.8%
<b>Other Research Projects (R03, R15, R37)</b>	5	6	--	11	1.9%
<b>Fellowship Program (F31, F32, F33)</b>	43	58	--	101	17.7%
<b>Total</b>	<b>286</b>	<b>284</b>	<b>--</b>	<b>570</b>	<b>100%</b>

The Nutritional and Metabolic Sciences IRG had the following study sections:

#### Metabolism (MET)

Scientific Review Administrator: Dr. Ann Jerkins

MET embraced physicochemical processes of anabolism and catabolism that occur within living organisms. Metabolic processes in normal and disease states, in experimental animals or human subjects, as well as in whole organs (isolated or in situ) or tissues including cell culture are pertinent. MET held its last meeting in February 2004.

In FY 2004, MET reviewed applications primarily for NIDDK (75.7%) and NHLBI (18.6%), but also reviewed a small number of applications for NIA, NIAMS, NCCAM, NCI, NIEHS, NEI, NIGMS, NINR and NINDS.

#### Nutrition (NTN)

Scientific Review Administrator: Dr. Sooja Kim

NTN reviewed applications on the basic, experimental, and clinical nutrition of humans and animals in vivo and in vitro. Of special interest were research projects that were designed to assess the consequences of food and/or nutrient intake and utilization in the intact organism, including humans, as well as the metabolic and behavioral mechanisms. These studies encompass investigations of nutrient variables at the cellular or subcellular level.

In FY 2004, NTN reviewed applications primarily for NIA (5.9%), NIDDK (61.0%), NICHD (9.6%) and NHLBI (5.9%). It also reviewed a smaller number of applications for NIAAA, NIAID, NIAMS, NCCAM, NCI, NIEHS, NIGMS, NIMH, NINR, and NINDS.

#### Small Business Activities (SSS-T)

Small business applications reviewed by the NMS IRG cover a broad spectrum of research related to all aspects of metabolic and nutritional processes in normal and disease states. After February 2004, this study section met as part of the new EMNR IRG.

Fellowships (F06)

Scientific Review Administrator: Dr. Krish Krishnan

F06 reviews fellowship applications involved in areas of endocrinology, metabolism, nutrition, and reproductive sciences. Included are applications for a broad spectrum of research related to all aspects of general endocrinology, gametogenesis and reproductive physiology, pregnancy and lactation, and nutrient metabolism. After February 2004, this study section met as part of the new EMNR IRG.

**Oncological Sciences Integrated Review Group**

The Oncological Sciences (ONC) IRG considers applications involving basic, translational, and clinical investigations that encompass cancer prevention, initiation, promotion, progression, diagnosis and treatment. Specifically, the ONC IRG reviews research grant applications related to chemical carcinogenesis, cancer genetics, nutritional carcinogenesis, radiation effects, and tumor biology; mechanism of action of cancer therapeutic agents in both in vitro and in vivo model systems; development and evaluation of experimental therapies of neoplastic diseases, translation of basic research to clinical practice; development or optimization of treatment modalities; chemoprevention; and development of biomarkers/signatures for tumor detection and diagnosis. The ONC IRG was reorganized in the latter part of FY 2003, and the first meetings of the study sections shown below were held in October and November 2003. In FY 2004, ONC study sections reviewed 4,016 applications and held 140 meetings. A total of 1,047 reviewers served on these panels.

**IRG Staff:**

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**Chief**

- Dr. Manzoor Zarger
- Kathy Augustin
- Dr. Mary Bell
- David Bogley
- Najum-ul Saher Chaudhry
- Dr. Eun Ah Cho
- LaMonte Creavalle #\*
- Howard England
- Oluyemisi Faderin #\*
- Dr. Suzanne Forry-Schaudies #
- Dr. Victor Fung
- Dr. Sharon Gubanich
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Dr. Paul Strudler *	Scientific Review Administrator
Kathleen Tegeler # *	Grants Technical Assistant
Brooke Walker #	Grants Technical Assistant
Dr. Neal West *	Scientific Review Administrator
Dr. Zhiqiang Zou	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 10. Applications reviewed by ONC by activity code and Council round**

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	765	915	881	2,561	63.8%
<b>Small Business</b>	147	154	164	465	11.6%
<b>R21</b>	205	251	264	720	17.9%
<b>Other Research Projects (R03, R15, R24, R37)</b>	12	17	12	41	1.0%
<b>Fellowship Program (F30, F31, F32, F33)</b>	35	125	65	225	5.6%
<b>Research Career Programs (K24)</b>	0	0	1	1	0.0%
<b>Research Program Projects and Centers (P41)</b>	0	1	0	1	0.0%
<b>Miscellaneous Mechanisms (U01, S10)</b>	1	1	0	2	0.0%
<b>Total</b>	<b>1,165</b>	<b>1,464</b>	<b>1,387</b>	<b>4,016</b>	<b>100%</b>

The Oncological Sciences IRG has the following study sections:

Cancer Etiology (CE)

Scientific Review Administrator: Dr. Victor Fung

CE reviews grant applications related to the causal agents, processes, and cells involved in tumor pathogenesis. The areas included within CE involve the conversion of normal cells to cancer cells, including neoplastic lesions and events leading to the tumor becoming invasive. Organ-specific oncogenesis is included in

this study section. Tools utilized in these studies include animal models (e.g., knockouts and transgenics), in vitro models (e.g., cell lines and explant cultures), functional imaging (e.g., Fluorescence Resonance Energy Transfer- FRET), and structural biology.

In FY 2004, CE reviewed applications primarily for NCI (77.8%) and NIEHS (14.5%). It also reviewed smaller numbers of applications for NIA, NIAID, NCCAM, NIDCR, NIDDK, NIGMS, and NINDS.

### Cancer Genetics (CG)

Scientific Review Administrators: Dr. Elaine Sierra-Rivera, Dr. Zhiqiang Zou

CG reviews grant applications related to the causal agents and target genes involved in tumor pathogenesis. Organ-specific carcinogenesis is included in this study section. Studies using both mammalian and non-mammalian models are included.

In FY 2004, CG primarily reviewed applications for NCI (87.4%), but also reviewed applications for NIA, NIAMS, NIDCR, NIDDK, NIEHS, and NIGMS.

### Tumor Cell Biology (TCB)

Scientific Review Administrator: Dr. Angela Ng

TCB reviews applications focusing on signal transduction and growth factor regulation of neoplastic transformation and progression.

In FY 2004, TCB primarily reviewed applications for NCI (90.2%) and NIDDK (5.3%). It also reviewed a small number of applications for NIAMS, NIDCR, NIEHS, NIGMS, and NINDS.

### Tumor Microenvironment (TME)

Scientific Review Administrator: Dr. Eun Ah Cho

TME reviews grant applications that deal with basic mechanisms of cancer cell interactions with host systems including: immune, inflammatory, stromal, vascular, and extracellular matrix. Emphasis is on evaluation of the tumor as an organ-like structure with complex, dynamic cross-talk. Included are studies of cell adhesion molecules, cell-cell interactions and alterations of extracellular matrix. Studies of tumor angiogenesis, involvement of tumor lymphatic components, and organ-specific metastasis are assigned to this study section.

In FY 2004, TME primarily reviewed applications for NCI (92.8%), and also reviewed a small number of applications for NIA, NIAID, NIAMS, NIDCR, NIDDK, NIEHS, and NIGMS.

Tumor Progression and Metastasis (TPM)

Scientific Review Administrator: Dr. Martin Padarathsingh

TPM reviews grant applications that deal with basic mechanisms of cancer progression and metastasis. Special emphasis is placed on angiogenesis, hypoxia, invasion, migration/motility and tumor cell extravasation, intravasation, survival, adhesion and growth. Studies focusing on proteases, wound healing and extracellular matrix remodeling, cell adhesion molecules/integrins will also be assigned to this study section. These include in vitro and animal studies of malignancies.

In FY 2004, TPM reviewed applications primarily for NCI (93.3%). It also reviewed a small number of applications for NIAMS, NIDCR, NIDDK, NIEHS, NIGMS, NHLBI, and NINDS.

Cancer Molecular Pathobiology (CAMP)

Scientific Review Administrator: Dr. Elaine Sierra-Rivera

CAMP reviews applications involving the biology of the malignant cell, as it relates to early (initiating) events in transformation. Emphasis is on control of cell growth and death, and the molecular events in gene regulation and protein modification and turnover that underlie this control.

In FY 2004, CAMP primarily reviewed applications for NCI (92.5%), and also reviewed smaller numbers of applications for NIA, NIAID, NIDCR, NIDDK, NIEHS, NIGMS, NHBLI and NINDS.

Chemo/Dietary Prevention (CDP)

Scientific Review Administrators: Dr. Victor Fung, Dr. Neal West

CDP reviews grant applications that address nutrition, dietary and chemopreventive factors and their use in intervention for modulation of cancer risk, and inhibition of cancer progression. This study section reviews grant applications dealing with basic mechanistic studies, preclinical and clinical (phase-1 and phase-2) studies as well as discovery, evaluation, and validation of biomarkers.

In FY 2004, CDP primarily reviewed applications for NCI (86.0%) and NIEHS (5.2%). It also reviewed a small number of applications for NIAAA, NIA, NIAMS, NCCAM, NIDCR, NIDDK, and NHLBI.

Clinical Oncology (CONC)

Scientific Review Administrator: Dr. John Meyer

CONC reviews applications in the areas of clinical patient-oriented research and clinical therapeutic trials. This includes clinical trials with therapeutic intent using drugs, radiation, surgery, and/or biological agents.

In FY 2004, CONC primarily reviewed applications for NCI (98.6%), but also reviewed a small number of applications for NCCAM, NIDDK, NINDS, and NCRR.

#### Cancer Biomarkers (CBSS)

Scientific Review Administrator: Dr. Mary Bell

CBSS reviews applications addressing the discovery, validation and development of biomarkers for risk, early detection, diagnosis, prognosis, and progression of cancer. Research on markers related to predicting treatment response, studies measuring minimal residual disease and monitoring therapeutic efficacy are also considered. The development of bioassays for the discovery and testing of cancer markers may be assigned to CBSS.

In FY 2004, CBSS reviewed applications primarily for NCI (92.6%), but also reviewed small numbers of applications for NIDCR, NIDDK, NIEHS, NEI, NIGMS, NHBLI, and NINDS.

#### Radiation Therapeutics and Biology (RTB)

Scientific Review Administrators: Dr. Bo Hong, Dr. Paul Strudler

RTB reviews applications dealing with therapeutic interactions of ionizing radiation, radionuclides, electromagnetic radiation, and heat at the molecular, cellular, organ, and patient levels. This includes applications in which dose, dose rate, type of radiation, and quality of radiation are variables.

In FY 2004, RTP primarily reviewed applications for NCI (86.4%) and also reviewed small numbers of applications for NIA, NIDCR, NIDDK, NIBIB, NIEHS, NIGMS, NHLBI, NINDS and NCRR.

#### Cancer Immunopathology and Immunotherapy (CII)

Scientific Review Administrator: Dr. Marcia Litwack

CII reviews applications addressing immunologic therapies of cancer and modulation of the innate and adaptive immune responses to cancer cells. This includes *in vitro* studies, the evaluation of immunotherapeutic strategies in preclinical models, and translational studies leading to pilot and/or phase-1 clinical trials.

In FY 2004, CII primarily reviewed applications for NCI (91.0%) and also reviewed applications for NIA, NIAID, NCCAM, NIDCR, NIDDK, NHLBI, and NINDS.

### Drug Discovery and Molecular Pharmacology (DMP)

Scientific Review Administrator: Dr. Morris Kelsey

DMP encompasses (1) the design, synthesis, isolation, and evaluation of novel agents that are potentially useful in cancer therapy, (2) molecular target identification and validation, (3) design, development, and validation of new preclinical models, and (4) studies of the mechanism of action of new and existing agents.

In FY 2004, DMP reviewed applications primarily for NCI (95.0%), and also reviewed small numbers of applications for NCCAM, NIDCR, NIDDK, NIBIB, NIEHS, NIGMS, NHLBI, and NINDS.

### Developmental Therapeutics (DT)

Scientific Review Administrator: Dr. Sharon Gubanich

DT reviews applications addressing the experimental therapy of neoplastic diseases in *in vitro* systems and *in vivo* model systems, as well as studies using human tissue, including some early-stage, pilot clinical trials. The major emphasis of this study section is on the rational development of novel therapeutic strategies that have a significant potential for early translation to the clinic.

In FY 2004, DT primarily reviewed applications for NCI (92.2%), and also reviewed applications for NIDCR, NIDDK, NIBIB, NIGMS, NHLBI, and NINDS.

### Small Business Activities (ONC 10, ONC 11, ONC 12)

Scientific Review Administrators: Dr. Bo Hong, Dr. Zhiqiang Zou, Dr. Hungyi Shau

The Oncological Sciences Small Business Activities Special Emphasis Panels review small business grant applications concerned with basic, preclinical, and clinical studies in the oncological sciences.

Cancer Drug Development and Therapeutics (ONC 10) reviews applications addressing the experimental therapy of neoplastic diseases *in vitro* systems and *in vivo* model systems, including some early-stage, pilot clinical trials. The major emphasis is on the rational development of novel therapeutic strategies that have a significant potential for translation to the clinic.

Radiation Biology and Therapeutics (ONC 11) reviews applications dealing with therapeutic interactions of ionizing radiation, radionuclides, electromagnetic radiation, and heat at the molecular, cellular, organ and patient levels. This includes applications in which dose, dose rate, type of radiation, and quality of radiation are variables.

Cancer Diagnostics and Treatment (ONC 12) reviews grant applications related to diagnosis and treatment of cancer. This includes biomarkers as prognosticators of cancer, bioimmunotherapies of cancer, and novel approaches to treating cancer.

Fellowships (F09)

Scientific Review Administrator: Dr. Syed M. Quadri

F09 reviews fellowship applications in basic, translational, and clinical areas of cancer initiation, promotion, progression, diagnosis, treatment and prevention. Specifically, applications reviewed include chemical carcinogenesis, cancer genetics, nutritional carcinogenesis, radiation biology, tumor immunology, cancer therapeutic agents/treatment modalities, cancer biomarkers/signatures, chemoprevention, and translational research from bench to bedside.



## **Division of Clinical and Population-based Studies**

The Division of Clinical and Population-based Studies (DCPS) is responsible for the merit review of a wide range of science that focuses on clinical approaches and population studies. This includes behavioral and social sciences; brain disorders; and surgery, radiology and bioengineering. The conditions that are examined are generally disordered, but the normative underpinnings of clinical disorders are also studied. Although the majority of the research involves humans, animal models are examined as well. Biotechnology and neuroimaging are frequently employed in the research, and they may also be the primary focus of the studies proposed. The technology-oriented study sections are designed to feed into the more clinical study sections as the research evolves. At the close of 2004, DCPS consisted of five IRGs: 1) Biobehavioral and Behavioral Processes (BBBP); 2) Brain Disorders and Clinical Neuroscience (BDCN); 3) Health of the Population (HOP); 4) Risk, Prevention and Health Behavior (RPHB); and 5) Surgical Sciences, Biomedical Imaging and Bioengineering Sciences (SBIB). In FY 2004, DCPS study sections held a total of 450 meetings and reviewed 12,462 applications.

### **Changes in the Division During FY 2004**

In FY 2004, DCPS experienced a 15% increase in the number of applications reviewed, with a tendency for the applications to be increasingly multidisciplinary and complex, particularly in clinical areas of research. As part of the CSR-wide reorganization based on the Panel on Scientific Boundaries for Review, the Surgery, Radiology and Bioengineering (SRB) IRG was reorganized into SBIB. The first applications to be assigned to the new study sections arrived in February 2004.

### **Changes in the Division Anticipated for FY 2005**

In 2005, new study sections will be designed and initiated in two rapidly growing areas of science. The HOP IRG will increase the number of epidemiology study sections from three to five, and the BDCN IRG will create an additional study section to cover the large number of submissions in the area of neurodegeneration.

### **Review Staff Personnel Changes in FY 2004**

DCPS lost one SRA, Mary Sue Krause, to retirement during the year and one, Mary Custer, transferred to another Division within CSR. The following SRAs joined the Division staff: Drs. Pushpa Tandon, Roberto Matus, Jerome Wujek, Christine Livingston, William Elwood, Guo Feng Xu, Xiang-Ning Li, Hector Lopez, Chris Sempos, Karen Lechter, Lynn Nielsen-Bohlman, Gayle Boyd, Kathy Salaita, Seetha Bhagavan (intern) and Weihua Luo (intern). In addition, Dr. Anna Riley converted from a Review Intern to an SRA.

**Division Staff:**

**Dr. Anita Miller Sostek**

Ruthann McAndrew  
Kristeena Sigler

**Director**

Administrative Review Assistant  
Review Technology Assistant

**Biobehavioral and Behavioral Processes Integrated Review Group**

The Biobehavioral and Behavioral Processes (BBBP) IRG considers applications on biobehavioral and behavioral processes across the lifespan. Research on non-human animals as well as humans is included, and both normal and disordered processes are addressed. While the focus is on behavior, studies may also consider related central, autonomic, neuroendocrine, immune, neural, hormonal, motor, and genetic issues. Neuroimaging and molecular and/or behavioral genetic approaches may be employed. In FY 2004, BBBP study sections held 92 meetings and reviewed 2,017 applications. A total of 916 reviewers served on BBBP's review panels.

**IRG Staff:**

**Dr. Karen Sirocco**

**Chief**

Sherrell Bailey # \*  
Charlet Grant  
Dr. Mary Sue Krause \*  
Jasprit Matta \*  
Ruthann McAndrew  
Dr. Weijia Ni  
Dr. Lynn Nielsen Bohlman #  
Shannon Oden  
Dr. Dana Plude  
Dr. Luci Roberts  
Nadeem Shaikh \*  
Dr. Mariela Shirley  
Dr. Thomas Tatham  
Emily Tran \*  
Andrea Wachtel \*  
Dr. Cheri Wiggs

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Grants Technical Assistant  
Scientific Review Administrator

\* Left CSR in fiscal year 2004  
# Joined CSR in fiscal year 2004

**Table 11.** Applications reviewed by BBBP by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	376	347	305	1,028	51.0%
<b>Small Business</b>	115	114	127	356	17.6%
<b>R21</b>	34	28	66	128	6.3%
<b>Other Research Projects (R03, R13, R15)</b>	51	41	40	132	6.5%
<b>Fellowship Program (F30, F31, F32)</b>	103	139	81	323	16.0%
<b>Research Career Programs (K01, K02, K08, K23, K24)</b>	10	19	18	47	2.3%
<b>Miscellaneous Mechanisms (S10)</b>	0	0	3	3	0.1%
<b>Total</b>	<b>689</b>	<b>688</b>	<b>640</b>	<b>2,017</b>	<b>100%</b>

The Biobehavioral and Behavioral Processes IRG has the following study sections:

Biobehavioral Regulation, Learning and Ethology (BRLE)

Scientific Review Administrator: Dr. Luci Roberts

BRLE (formerly BBBP-1) reviews applications investigating basic biobehavioral processes and adaptation across the lifespan (infancy through old age). The study section primarily considers research with non-human animals (vertebrates and invertebrates), but relevant work with humans is also included. Normal and disordered processes are both addressed. Although the focus is on behavior, studies may also consider related neural, hormonal, and genetic factors. Methods include (but are not limited to) behavioral experiments, naturalistic observation, pharmacologic interventions, and computational modeling.

In FY 2004, BRLE primarily reviewed applications for NIDA (41.8%), NICHD (9.6%) and NIMH (39.8%). It also reviewed small numbers of applications for NIAAA, NIA, NCCAM, NCI, NIDCD, NIDDK, NIEHS, NIGMS, and NINDS.

Biobehavioral Mechanisms of Emotion, Stress and Health (MESH)

Scientific Review Administrator: Dr. Thomas Tatham, Dr. Maribeth Champoux

MESH (formerly BBBP-2) reviews applications focused on basic biobehavioral, psychological, social and cultural processes governing affect (emotion, mood) and stress in animals and humans. These studies may include application of basic research, theories and techniques to the study of physical and mental disease processes. Studies also focus on central, autonomic, neuroendocrine, immune, genetic, experiential and lifespan developmental processes, and appraisal and coping processes, as well as studies of attachment, well-being, hedonic processes, resilience and behavioral expression. Studies of stress include both laboratory-induced and naturally occurring stressors.

In FY 2004, MESH primarily reviewed applications for NIA (7.3%), NCI (6.4%), NICHD (7.3%), NIMH (52.3%), and NHLBI (11.0%). It also reviewed

applications for NIAID, NCCAM, NIDA, NIDDK, NIEHS, NEI, NINR, and NINDS.

#### Language and Communication (LCOM)

Scientific Review Administrator: Dr. Weijia Ni

LCOM (formerly BBBP-3) reviews applications investigating language and other types of communication and their development across the lifespan (infancy through old age), primarily in humans. All forms of language and communication, both normal and disordered, are considered, as is research concerned with the development and evaluation of preventive and therapeutic interventions for language and communication disorders. Studies of non-human animals may be included when these are directly relevant to understanding human language and communication. Methods include (but are not limited to) psychological experiments, naturalistic observation, linguistic and logical analyses, computational modeling, neuroimaging, and psychophysiological measurement.

In FY 2004, LCOM reviewed applications primarily for NIDCD (42.6%), NICHD (41.1%), NIMH (7.9%) and NIA (5.3%), and also reviewed a small number of applications for NEI and NINDS.

#### Cognition and Perception (CP)

Scientific Review Administrator: Dr. Cheri Wiggs

CP (formerly BBBP-4) reviews applications investigating cognition and perception and their development across the entire lifespan (infancy through old age), primarily in humans. Normal and disordered forms of cognition and perception are considered. Studies of non-human animals are appropriate when these are directly relevant to understanding processes in humans. Also included are the influences of affect, stress, and substance use and of physical, social and cultural contexts, provided that the emphasis is on the nature of cognitive and perceptual processes. Methods include (but are not limited to) psychological experiments, naturalistic observation, mathematical and computational modeling, neuroimaging, neuropsychology, and psychophysiological measurement.

In FY 2004, CP reviewed applications primarily for NIMH (42.7%), NIA (17.5%), NICHD (19.4%), NEI (8.1%), and NINDS (5.2%). It also reviewed small number of applications for NIAAA, NIDA, and NIDCD.

#### Adult Psychopathology and Disorders of Aging (APDA)

Scientific Review Administrator: Dr. Mariela Shirley

APDA (formerly BBBP-5) reviews applications concerned with emotional, behavioral, and cognitive disorders in adults. Emphasis is on clinical aspects of disorders including: schizophrenia, mood disorders, suicide, anxiety and traumatic

stress disorders, eating disorders, substance use disorders, personality disorders; Alzheimer's disease, traumatic brain injury, and sleep disorders. Samples may include clinic, community diagnosed, symptomatic and high-risk groups. Relevant research includes investigations of psychological and biological vulnerability factors, processes and markers; and studies of etiology, diagnosis, course, treatment, functional outcome and comorbidity with other physical conditions and disorders. Environmental, social and cultural factors may also be studied as they relate to individual differences in psychological and biological dysfunction.

In FY 2004, APDA primarily reviewed applications for NIMH (75.9%), NIA (11.2%), and NIDA (7.1%). It also reviewed small numbers of applications for NIAAA, NCCAM, NIDDK, NICHD, and NINDS.

### Child Psychopathology and Developmental Disabilities Study Section (CPDD)

Scientific Review Administrator: Dr. Karen Sirocco

CPDD (formerly BBBP-6) reviews applications on developmental, psychopathological, and substance use disorders in infants, children, adolescents, and adults with disorders originating in early development. Emphasis is placed on cognitive, behavioral, social, family, and neurobiological aspects of a) developmental disabilities such as autism and mental retardation; brain injury and communication and learning disabilities; b) disorders of behavioral and/or emotional regulation such as attention deficit hyperactivity disorder, Pediatric Autoimmune Neuropsychiatric Disorders Associated with Streptococcal Infections (PANDAS), mood disorders, suicide, anxiety and traumatic stress disorders, conduct disorder, eating disorders, personality disorders, and psychoses; c) substance use disorders; and d) the relationship among these disorders over time.

In FY 2004, CPDD primarily reviewed applications for NIDA (7.7%), NICHD (34.7%), NINDS (6.1%), and NIMH (42.3%). It also reviewed applications for NIAAA, NIA, NCCAM, NIDCD, NIEHS, and NHLBI.

### Motor Function, Speech, and Rehabilitation (MFSR)

Scientific Review Administrator: Dr. Weijia Ni

MFSR (formerly BBBP-7) reviews applications on normal and disordered motor function, including speech and voice production. Function across the lifespan (infancy through old age), in humans and other animals, is addressed. Also included are the development and evaluation of preventive and therapeutic interventions for movement, speech, voice, and related disorders. Although the focus is on behavior, studies may also consider associated anatomical, physiological, neural, hormonal, and genetic factors. Methods include (but are not limited to) behavioral experiments, physiological measurement, acoustic analysis, structural and functional imaging, and computational modeling.

In FY 2004, MFSR primarily reviewed applications for NIA (9.2%), NIDCD (43.7%), NICHD (14.9%), and NINDS (17.2%). It also reviewed a small number of applications for NIAMS, NCCAM, NIDCR, NIBIB, NEI, and NIMH.

#### Small Business Activities (BBBP 10, BBBP 11)

Scientific Review Administrators: Dr. Thomas Tatham, Dr. Dana Plude

Developmental Disabilities, Communication and Science Education (BBBP 10) reviews applications on developmental disabilities (mental retardation, autism, learning disabilities, ADHD); child and adolescent development; parenting; speech, deafness, language and reading; and science education for the non-professional; substance use if related to science education or developmental disabilities; and behavior analysis.

Psychopathology and Adult Disorders (BBBP 11) reviews applications on psychopathology; adult disorders; sleep; adult neuropsychology; cognitive aging and memory; driving simulation; substance abuse; management of emotion in adults (e.g., anger and stress); and automated analyses of animal behavior.

#### **Brain Disorders and Clinical Neuroscience Integrated Review Group**

The Brain Disorders and Clinical Neuroscience (BDCN) IRG reviews grant applications that have neural disorders and/or injury of the nervous system as their main focus. Investigations appropriate for review in BDCN may include those using animal models of neural injury or disease, investigations based on the study of specific patient populations, or investigations focused on the development of rehabilitative and therapeutic strategies. Specific areas of interest include the investigation of traumatic brain or spinal cord injury, the consequences of episodes of ischemia or hypoxia, the study of mental disorders, neurodegenerative diseases, and other neuropathies. These specific areas of interest may be studied from the perspective of neuroanatomical or neurophysiological alterations, changes in neurotransmitter or neurotrophin function or metabolism, the genetic, cellular, or molecular basis of alterations induced by disease or injury, the influence or involvement of the immune or vascular systems in a neural disease process or response, and the neurological basis of addictive, cognitive, behavioral, and emotional disorders. In FY 2004, BDCN study sections held 83 meetings and reviewed 2,723 applications. A total of 824 reviewers served on BDCN review panels.

#### **IRG Staff:**

##### **Dr. David Armstrong**

##### **Chief**

Dr. William Benzing  
 Dr. Seetha Bhagavan #  
 Esther Birbalsingh #\*  
 Jenny Bogley \*  
 Joseph Chacon  
 Dr. Vinod Charles #  
 Dr. Jay Cinque

Scientific Review Administrator  
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Dr. Mary Custer	Scientific Review Administrator
Dominic DaCosta	Grants Technical Assistant
Dr. Rene Etcheberrigaray	Scientific Review Administrator
Margot Faxton	Grants Technical Assistant
K. Michael Jordan	Grants Technical Assistant
Dr. Jay Joshi	Scientific Review Administrator
Bella Kazantseva	Grants Technical Assistant
Dr. Christine Livingston #	Scientific Review Administrator
Dr. David Simpson	Scientific Review Administrator
Dr. Sherry Stuesse	Scientific Review Administrator
Lynne Williams	Grants Technical Assistant
Dr. Jerome Wujek #	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 12.** Applications reviewed by BDCN by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	491	587	526	1,604	58.9%
<b>Small Business</b>	149	148	142	439	16.1%
<b>R21</b>	79	88	121	288	10.6%
<b>Other Research Projects (R03, R13, R15, R37)</b>	21	24	47	92	3.4%
<b>Fellowship Program (F30, F31, F32, F33)</b>	52	72	111	235	8.6%
<b>Research Career Programs (K01, K02, K05, K08, K23, K24)</b>	23	20	22	65	2.4%
<b>Total</b>	<b>815</b>	<b>939</b>	<b>969</b>	<b>2,723</b>	<b>100%</b>

The Brain Disorders and Clinical Neurosciences IRG has the following study sections:

Clinical Neuroscience and Disease (CND)

Scientific Review Administrator: Dr. David Armstrong

CND (formerly BDCN-1) addresses the anatomical and functional basis of neural disease and injury across the life span. Emphasis is on the neural substrate, functional consequences (cognitive, sensory/motor, behavioral, pathophysiological), rehabilitation, and the development of therapeutic strategies. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. This study section considers relevant animal models and patient-oriented research.

In FY 2004, CND reviewed applications primarily for NINDS (77.42%), NIA (10.2%), and NICHD (6.0%). It also reviewed small numbers of applications for NIAMS, NCCAM, NCI, NIDDK, NIBIB, NIEHS, NIGMS, NHLBI, NIMH, and NINR.

Clinical Neuroplasticity and Neurotransmitters (CNNT)

Scientific Review Administrator: Dr. William Benzing

CNNT (formerly BDCN-2) addresses the area of neural disease and injury across the life span that focuses on neurotransmitter or neurotrophic function. This includes studies of plasticity, regeneration, and therapeutic strategies. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. Studies may involve animal models and patient-oriented research.

In FY 2004, CNNT primarily reviewed applications for NINDS (76.9%) and NIA (8.4%). A small number of applications was also reviewed for NCCAM, NIDA, NIDCD, NIDDK, NIEHS, NEI, NIGMS, NICHD, NHLBI, and NIMH.

#### Cell Death and Injury in Neurodegeneration (CDIN)

Scientific Review Administrator: Dr. David Simpson

CDIN (formerly BDCN-3) addresses the genetic, molecular, and cellular basis of neural disorders and injury across the life span. This includes studies of neuronal cell death and protein and macromolecular function in neurodegenerative disease. Relevant disorders include stroke/ischemia, neurodegenerative diseases, epilepsy, spinal cord injury, traumatic brain injury, dystonia/ataxia, and neuropathies. This study section can review studies of *in vitro* systems, animal models, and patient-oriented research.

In FY 2004, CDIN reviewed applications primarily for NINDS (62.1%) and NIA (29.1%). It also reviewed small numbers of applications for NCCAM, NCI, NIDA, NIDDK, NIEHS, NEI, NICHD, NHLBI, and NIMH.

#### Clinical Neuroimmunology and Brain Tumors (CNBT)

Scientific Review Administrator: Dr. Jay Joshi

CNBT (formerly BDCN-4) addresses central and peripheral nervous system disorders, including neuromuscular disorders, and injury across the life span where the focus is on infections, immune, inflammatory or vascular mechanisms. The scope of investigations ranges from *in vitro* and animal models to human studies and patient-oriented research. Examples of relevant disorders include multiple sclerosis, myasthenia gravis, infectious diseases of the nervous system, spinal cord and brain injury, inflammatory neuropathies and myopathies, stroke, multi-infarct dementia, subarachnoid hemorrhage, and nervous system tumors.

In FY 2004, CNBT primarily reviewed applications for NINDS (70.0%), NIA (12.7%), NIAID (5.2%), and NCI (8.0%). It also reviewed a small number of applications for NIAMS, NCCAM, NIDA, NIBIB, NIEHS, NEI, and NHLBI.

#### Developmental Brain Disorders (DBD)

Scientific Review Administrator: Dr. Sherry Stuesse



DBD (formerly BDCN-5) addresses disorders that impact specifically the developing brain and spinal cord. This includes genetic, metabolic, infectious, environmental, and behavioral influences on the fetal, neonatal or pediatric brain that lead to abnormal brain development and function. The study section has clinical and basic expertise in the vulnerability and plasticity of the developing brain, and can review patient-oriented research in children and relevant animal models.

In FY 2004, DBD reviewed applications primarily for NIDA (5.8%), NINDS (39.9%), NICHD (23.1%), and NIMH (27.4%), and also reviewed smaller numbers of applications for NIAAA, NIDCD, NIBIB, NIEHS, NEI, and NHLBI.

#### Neural Basis of Psychopathology, Addictions, and Sleep Disorders (NPAS)

Scientific Review Administrator: Dr. Julius Cinque

NPAS (formerly BDCN-6) addresses the neurobiological basis of addictive, behavioral, cognitive and emotional disorders across the life span. It covers a very broad range of topics including structural, functional, electrophysiological, biochemical, pharmacological, neuroanatomical, neuroendocrine, neurotoxicological, physiological, genetic, and neuropsychological aspects of these disorders.

In FY 2004, NPAS reviewed applications primarily for NIMH (70.1%) and NIDA (16.4%). It also reviewed smaller numbers of applications for NIAAA, NIA, NCCAM, NCI, NIBIB, NICHD, NHBLI, NINDS and NCRR.

#### Anterior Eye Disease (AED)

Scientific Review Administrators: Dr. Mary Custer, Dr. Christine Livingston

AED (formerly VISA) reviews basic, applied, and clinical research on the anterior portion of the eye (cornea, lens, ciliary body, and lachrymal gland) and its disorders. It is concerned with studies of the structure and function of ocular tissues, both in normal and pathological states.

In FY 2004, AED primarily reviewed applications for NEI (98.4%), but also reviewed a small number of applications for NIA, NCCAM, NCI, and NIEHS.

#### Small Business Activities (BDCN 10, BDCN 11, BDCN 12)

Scientific Review Administrators: Dr. Rene Etcheberrigaray, Dr. Vinod Charles, Dr. Jerry Wujek

The Clinical Neurophysiology, Devices and Neuroprosthesis small business SEP (BDCN 10) reviews applications on developing new monitoring devices (amplifiers, electrodes) and analyses tools for EEG and related signals (ERPs) for applications in the fields of epilepsy, sleep disorders, neurological critical care, and

some other miscellaneous applications such as cognitive alterations. New applications of imaging methodologies and ancillary tools for diagnostics and research applications are also reviewed in this study section. Implantable electrodes and various aspects of neuroprosthetics devices (new arrays, telemetry, external power, etc.) and their clinical and research applications are also covered. The study section also reviews applications related to monitoring and interventional tools for the neurovascular defects (such as aneurysms), stroke, and ICP monitoring.

The Pharmacology and Diagnostics for Neuropsychiatric Disorders small business SEP (BDCN 11) reviews applications on basic and clinical aspects of nervous systems disorders, with emphasis on applied research oriented towards developing treatments, diagnostic methods, and models of disease for testing of new treatments. Among the specific topics covered are psychiatric and neurological conditions, including neurodegeneration (e.g., Alzheimer's, Parkinson's, Multiple Sclerosis), stroke, depression, and schizophrenia. The specific types of project include medicinal chemistry and pre-clinical development, assay development, diagnostic methods, development of cellular and animal models, and some clinical studies to establish proof-of-principle for new or new uses of existing drugs.

The Visual Systems small business SEP (BDCN 12) reviews applications on novel medical devices, monitoring systems and adaptation/improvement of existing technologies for normal and pathologic states of the eye. Also included is the development of devices to aid the blind and visually impaired.

### Fellowships (F01)

Scientific Review Administrator: Dr. Sherry Steusse

The F01 fellowship Special Emphasis Panel reviews fellowship applications in the areas covered by the BDCN IRG. The emphasis is on clinical disorders of the human brain and related mammalian models of disease. Areas reviewed include: clinical neurosciences and disease, neuroplasticity and neurotransmitters, cell death and injury as it applies to neurodegeneration, clinical neuroimmunology and brain tumors, developmental brain disorders, the neural bases of psychopathology and addiction, sleep disorders, genetic basis of central nervous system disorders, and eye disease. F01 reviews studies of *in vitro* systems, animal models, and patient-oriented research.

### **Health of the Population Integrated Review Group**

The Health of the Population (HOP) IRG (formerly Social Sciences, Nursing, Epidemiology, and Methods) reviews applications for research on the broader socioenvironmental contexts in which health and health-related behavior are embedded and in which the interaction of these socioenvironmental factors with the health and health-related behavior of individuals and populations is examined. Factors studied may include social class, socioeconomic conditions, cultural factors and processes, institutions, social organization, social networks, neighborhood and regional characteristics, media, policies,

social and family group membership, and racial and ethnic identity. Specific areas of interest reviewed within HOP include studies of socioenvironmental influences on health, behavior, and development; community and organizational interventions for the prevention and modification of risk behaviors; multi-level, multi-contextual studies, behavioral genetics and heritability studies; and population processes, composition, and distribution, their antecedents and consequences, and their inter-relationships with social, cultural, economic, behavioral, developmental and biomedical factors and processes; health services research on the antecedents and consequences of health services utilization, including multidisciplinary investigations of factors affecting access, organization, costs, quality, and the financing of health services; methodological issues, various statistical techniques, and modeling of phenomena relevant to behavioral and social science research; description, detection, etiology, prevention, treatment, and control of chronic and communicable diseases in the community; basic and applied research of responses to actual or potential health problems, especially symptom management in acute or chronic illness, approaches to promoting health and preventing disease, and interventions influencing patient health outcomes and reducing costs, nursing systems, and ethics; and occupational or work environments and their relationship to health and well-being of the workers. In FY 2004, HOP study sections held 99 meetings and reviewed 3,191 applications. A total of 972 reviewers served on HOP review panels.

**IRG Staff:**

**Dr. Robert Weller**

**Chief**

- Dedra Austin-Miller \*
- Dr. Yvette Davis
- Dr. Laurie Donze
- Dr. Valerie Durrant
- Dr. William Elwood #
- Dr. Mary Ann Guadagno
- Dr. Ann Hardy
- Marsha Hawkins # \*
- Dr. Karin Helmers
- Asad Isfahani \*
- Jennifer Love
- Dr. Gertrude McFarland
- Maron Moss # \*
- Brad Natale # \*
- Jejelola Oresanya \*
- Dr. Scott Osborne
- Dr. Charles Rafferty
- Lynda Robinson
- Dr. Kathy Salaita #
- Dr. Ellen Schwartz
- Dr. Christopher Sempos #
- Danny Ta
- Doris Trejo
- Joy Van Cooten \*
- Dr. Denise Wiesch
- June Williams \*

- Grants Technical Assistant
- Scientific Review Administrator
- CSR Review Internship Program
- Scientific Review Administrator
- Scientific Review Administrator
- Scientific Review Administrator
- Scientific Review Administrator
- Grants Technical Assistant
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- Scientific Review Administrator
- Scientific Review Administrator
- Lead Grants Technical Assistant
- Scientific Review Administrator
- Scientific Review Administrator
- Scientific Review Administrator
- Grants Technical Assistant
- Grants Technical Assistant
- Grants Technical Assistant
- Scientific Review Administrator
- Grants Technical Assistant

\* Left CSR in fiscal year 2004  
 # Joined CSR in fiscal year 2004

**Table 13.** Applications reviewed by HOP by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	636	752	798	2,186	68.5%
<b>Small Business</b>	51	101	89	241	7.6%
<b>R21</b>	98	119	167	384	12.0%
<b>Other Research Projects (R03, R15)</b>	78	92	114	284	8.9%
<b>Fellowship Program (F30, F31, F32, F33)</b>	6	23	10	39	1.2%
<b>Research Career Programs (K01, K02, K08, K23, K25)</b>	5	4	12	21	0.7%
<b>Research Program Projects and Centers (P01)</b>	0	0	2	2	0.1%
<b>Miscellaneous Mechanisms (T15, U01)</b>	3	10	21	34	1.1%
<b>Total</b>	<b>877</b>	<b>1,101</b>	<b>1,213</b>	<b>3,191</b>	<b>100%</b>

The Health of the Population IRG has the following study sections:

Community-Level Health Promotion (CLHP)

Scientific Review Administrators: Dr. Ellen Schwartz, Dr. William Elwood

CLHP (formerly SNEM-1) reviews applications that test the efficacy of interventions concerned with the prevention of a broad range of health risk behaviors across the life span. Basic studies may investigate social, cultural, and other socioenvironmental factors and processes and their inter-relationships with a broad range of outcomes, including mental and physical health, illness and disorder, risk and protective behaviors and behavior change, health beliefs and attitudes, and normal development and functioning across the lifespan. Intervention research may focus on the modification of health risk behaviors and health-related decision making through environmental change and/or the use of social, organizational, political and legal systems to reduce and prevent risk behaviors within the general or select populations. It includes community-based interventions, studies to develop and test theories or methods, and dissemination studies. Research approaches may include ethnographic and other qualitative methods; quantitative and mixed-method studies; cross-sectional, longitudinal, or cohort comparison designs; experimental and quasi-experimental designs; studies that focus on more than one period or transition of the life course; and international studies.

In FY 2004, CLHP reviewed applications primarily for NIAAA (12.9%), NCI (36.7%), NIDA (14.8%), NICHD (12.1%) and NHLBI (6.6%). It also reviewed a small number of applications for NIA, NIDCR, NIDDK, NIEHS, NIMH, NINR, and NINDS.

Behavioral Genetics and Epidemiology (BGES)

Scientific Review Administrator: Dr. Yvette Davis

BGES (formerly SNEM-2) reviews applications for multi-level, multi-contextual studies, behavioral genetics and heritability studies, and behavioral epidemiologic studies which seek an understanding of the origins, multiple etiologies, natural histories, and consequences of a wide range of behaviors, disorders, diseases, normal functioning, and public health concerns. Applications may include qualitative and quantitative methods and may integrate multiple factors and multiple levels of analysis from the biological to social and cultural levels. Studies may use multidisciplinary perspectives and focus on interactions among individual, family, group, and community factors in either the general population or defined subpopulations with special needs such as the very young, the elderly, minority groups, and those at risk for drug and alcohol abuse and transmission of HIV, TB, HBV, and HCV. Studies may include factors which influence temporal trends, such as economic conditions and beliefs of historic cohorts, and may address the etiologies and consequences of behaviors, physical, mental, and substance abuse problems and the aging process as they vary across individuals, families, generation, age, sex, and populations with different predisposing or protective factors and co-morbid conditions.

In FY 2004, BGES reviewed applications primarily for NIMH (46.2%), NIAAA (14.6%), and NIDA (25.9%), and also reviewed applications for NIA, NCI, NIDCD, NIDDK, NIEHS, NICHD, NHLBI, and NINDS.

### Social Sciences and Population Studies (SSPS)

Scientific Review Administrator: Dr. Robert Weller

SSPS (formerly SNEM-3) reviews applications related to population processes, composition and distribution, their antecedents and consequences, and their inter-relationships with social, cultural, economic, behavioral, developmental and biomedical factors and processes. This includes studies of migration, mortality and health, residential distribution, reproduction, sexual health, population aging, labor force and retirement, household and family structure, intergenerational relations, and biodemography in the United States and other countries. It also includes the development and validation of methodologies for population research, including estimation and projection, formal and mathematical demography, modeling and simulation, qualitative and ethnographic methods, and measurement, design, and statistical analysis. Studies of gender, race, and ethnicity as they relate to population processes are included.

In FY 2004, SSPS primarily reviewed applications for NIA (29.0%) and NICHD (67.2%). It also reviewed smaller numbers of applications for NIAAA, NIAID, NCI, NIEHS, and NIMH.

Health Services Organization and Delivery (HSOD)

Scientific Review Administrator: Dr. Charles Rafferty

HSOD (formerly SNEM-4) reviews health services research studies that include multidisciplinary investigations of the predictors, processes and outcomes of health services, including availability, access and acceptability; organization; decision-making; delivery, utilization and quality of care; and costs, cost-effectiveness and financing of health care. Health services include inpatient, ambulatory, sub-acute, acute, community-based, rehabilitative and long-term care.

In FY 2004, HSOD reviewed applications primarily for NIA (27.4%), NCI (32.0%), NIDDK (6.9%), NICHD (8.9%), and NHLBI (7.7%). It also reviewed a small number of applications for NIAAA, NIAID, NIAMS, NCCAM, NIDA, NIDCD, NIDCR, NIEHS, NHGRI, NINR, NINDS, NLM, and the Agency for Healthcare Research and Quality (AHRQ).

Biostatistical Methods and Research Design (BMRD)

Scientific Review Administrator: Dr. Ann Hardy

BMRD (formerly SNEM-5) reviews applications that focus primarily upon advancing techniques and technologies that address important statistical and mathematical problems, research design and methodological issues, and the modeling of phenomena relevant to biomedical, behavioral and scientific research. BMRD reviews generic methodological research that can improve the validity, reliability, or precision of measures; the development of statistical theory and mathematical models to analyze data, clinical trial intervention studies, and non-behavioral basic science; statistical research targeted at data structures developed in clinical trials; advanced ways of using computers and/or new testing technology, or computational modeling techniques with existing data sets; or applying techniques from other disciplines (e.g., genetics, neurology, computer science) to behavioral and social science topics, as well as other biomedical areas of research. The emphasis and main focus of applications should be upon the methods, statistics, or modeling techniques.

In FY 2004, BMRD primarily reviewed applications for NIA (6.7%), NCI (34.6%), NIDA (5.8%), NIGMS (8.7%), NICHD (7.7%), NHLBI (7.7%), and NIMH (10.6%). It also reviewed a small number of applications for NIAAA, NIAID, NIDCR, NIDDK, NIEHS, NHGRI, NINDS, and the Centers for Disease Control and Prevention (CDC).

Epidemiology of Chronic Diseases (ECD)

Scientific Review Administrator: Dr. Scott Osborne

ECD (formerly EDC-1) reviews applications for descriptive and analytic epidemiologic research in cardiovascular disease, reproductive or perinatal diseases

or conditions (including birth weight, child growth, and menopause), musculoskeletal diseases or conditions (except among the elderly) arthritis, lupus and rheumatoid diseases (except among the elderly) diabetes, digestive disease and kidney disease, and obesity, physical activity and nutritional behavior and conditions.

In FY 2004, ECD primarily reviewed applications for NIDDK (26.4%), NIEHS (8.4%), NICHD (19.0%), and NHLBI (32.8%). It also reviewed applications for NIAAA, NIA, NIAID, NIAMS, NCCAM, NCI, NIDA, NIDCR, NIGMS, NHGRI, NIMH, NINR, and NINDS.

#### Epidemiology of Cancer (EPIC)

Scientific Review Administrator: Dr. Denise Wiesch

EPIC (formerly EDC-2) reviews applications for descriptive and analytic epidemiologic studies in the areas of cancer and environmental risk factors.

In FY 2004, EPIC primarily reviewed applications for NCI (89.7%.) However, it also reviewed small numbers of applications for NIAAA, NIA, NIAID, NIDCR, NIDDK, NIEHS, NHLBI, and CDC.

#### Epidemiology of Clinical Disorders and Aging (ECDA)

Scientific Review Administrator: Dr. Mary Ann Guadagno

ECDA (formerly EDC-3) reviews applications for descriptive and analytic epidemiologic studies in specific disease areas that include infectious diseases, pulmonary diseases, sleep disorders, neurologic disorders (including the epidemiology of Alzheimer's Disease, dementias, stroke, Parkinson's Disease, and epilepsy), and epidemiology of disorders of aging (including musculoskeletal disorders such as osteoarthritis, osteoporosis, falls and fractures, functional status, frailty, quality of life, health care use, and other areas as they relate to populations of older persons).

In FY 2004, ECDA reviewed applications primarily for NIA (31.3%), NIAID (14.4%), NIAMS (6.8%), NIEHS (12.2%), NHLBI (12.9%), and NINDS (11.9%). It also reviewed a small number of applications for NIAAA, NCCAM, NIDCD, NIDCR, NIDDK, NIGMS, NICHD, and NIMH.

#### Nursing Science: Adults and Older Adults (NSAA)

Scientific Review Administrators: Dr. Gertrude McFarland

NSAA (formerly NURS) reviews applications that address clinical nursing practice related to the care of young, middle-aged, and older adults. This study section also reviews applications related to caregiving and illness in adults and older adults as well as health promotion and disease prevention in older adults. Nursing research

in these segments of the population includes both scientific inquiry into nursing science, as well as basic biological and behavioral processes relevant to nursing care and research relating to nursing interventions in patient care. Biological, psychological, social and cultural perspectives are frequently employed in the design and conduct of nursing research, as are multidisciplinary perspectives. The interventions are designed to enhance disease prevention, promote recovery, and/or maintain health. Research addressing cost issues or systems issues should focus on the cost of nursing care or the environment in which nursing care is delivered and be related to patient outcomes.

In FY 2004, NSAA primarily reviewed applications for NCI (7.3%) and NINR (88.1%). It also reviewed a small number of applications for NIA, NIDA, NIDDK, NICHD, and NINDS.

### Nursing Science: Children and Families (NSCF)

Scientific Review Administrator: Dr. Karin Helmers

NSCF reviews applications that address clinical nursing practice from preconception through adolescence, women's health, and health disparities. In addition, this study section reviews applications related to health promotion across the life span (except for older adults), nursing diagnosis and treatment of human responses to actual or potential health problems, and patient outcomes responsive to nursing interventions in these populations. Nursing research in these segments of the population includes both scientific inquiry in nursing science as well as basic biological and behavioral processes relevant to nursing care and research relating to nursing interventions in patient care. Biological, psychological, social, and cultural perspectives are frequently employed in the design and conduct of nursing research, as are multidisciplinary perspectives. The outcomes are for either short or long term improvements in patient outcomes. Nursing interventions are designed to enhance disease prevention, promote recovery, and/or maintain health. Research addressing cost issues or system issues should focus on the cost of nursing care or the environment in which nursing care is delivered and be related to patient outcomes.

In FY 2004, NSCF primarily reviewed applications for NINR (91.7%), but also reviewed a small number of applications for NCI, NIBIB, and NICHD.

### Small Business Activities (HOP 10, HOP 11)

Scientific Review Administrators: Dr. Valerie Durant, Dr. Charles Rafferty

The HOP Small Business SEPs review applications seeking to understand and elaborate the broader socioenvironmental contexts in which health and health-related behavior are embedded and to examine the interaction of these socioenvironmental factors with the health and health-related behavior of individuals and populations. The socioenvironmental factors studied may include social class, socioeconomic conditions, cultural factors and processes, institutions, social organization, social networks, neighborhood and regional characteristics,



media, policies, social and family group membership, and racial and ethnic identity. The following Special Emphasis Panels are included in HOP Small Business Activities: Health of the Population SBIR/STTR Special Emphasis Panel (HOP 10) and Small Business Occupational Health (HOP 11).

### **Risk Prevention and Health Behavior Integrated Review Group**

The Risk, Prevention and Health Behavior (RPHB) IRG considers applications covering a wide range of biological, psychological, cultural and social conditions and traits that affect the manifestation, prevention, treatment or management of physical and mental diseases and disorders. Emphasis may be placed on individual behavior, interpersonal relations, or group contexts. Populations studied may include clinic, community-diagnosed, symptomatic and high-risk groups, and research may be concentrated on specific age groups or address questions of change or transition across the life course. Interventions may be purely behavioral, or may involve non-behavioral elements such as pharmacological treatments and devices. Specific areas of interest include cognitive and affective processes and markers of disease and illness, genetics and other biobehavioral factors, behavioral and pharmacologic interventions; risk and protective processes and models, intra- and inter-personal interventions, social development and interpersonal processes, aggressive behavior and violence, and prevention and intervention methodology; intervention and risk factor modification studies, interactions between psychological processes and disease management, psychological and biobehavioral responses to disease screening and management, rehabilitation of conditions associated with psychological, physical, communicative, and social disability; and social, cognitive, and affective conditions and processes that influence disease and disorder across the lifespan. In FY 2004, RPHB study sections held 79 meetings and reviewed 1,674 applications. A total of 648 reviewers served on RPHB review panels.

#### **IRG Staff:**

#### **Dr. Michael Micklin**

#### **Chief**

Dr. Gayle Boyd #	Scientific Review Administrator
Kristy Bugbee	Lead Grants Technical Assistant
Dr. Maribeth Champoux	Scientific Review Administrator
Dr. Claire Gutkin	Scientific Review Administrator
Michelle Isahak *	Grants Technical Assistant
Denise Lebby	Grants Technical Assistant
Dr. Karen Lechter #	Scientific Review Administrator
Dr. Victoria Levin	Scientific Review Administrator
Annessa Loutan #	Grants Technical Assistant
Dr. Lee Mann	Scientific Review Administrator
Puja Matta #*	Grants Clerk
Dr. Anna Riley	Scientific Review Administrator
Lee Rotter	Grants Technical Assistant
Dr. Mariela Shirley	Scientific Review Administrator
Denise Spencer	Grants Technical Assistant
Dr. Deborah Young-Hyman	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 14.** Applications reviewed by RPHB by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	226	231	352	809	48.3%
<b>Small Business</b>	106	123	129	358	21.4%
<b>R21</b>	37	70	61	168	10.0%
<b>Other Research Projects (R03, R13, R15, R24)</b>	30	54	45	129	7.7%
<b>Fellowship Program (F31, F32)</b>	39	64	40	143	8.5%
<b>Research Career Programs (K01, K02, K05, K08, K23, K24)</b>	8	14	11	33	2.0%
<b>Research Program Projects and Centers (P01)</b>	0	0	1	1	0.1%
<b>Miscellaneous Mechanisms (U01)</b>	0	1	32	33	2.0%
<b>Total</b>	<b>446</b>	<b>557</b>	<b>671</b>	<b>1,674</b>	<b>100%</b>

The Risk, Prevention and Health Behavior IRG has the following study sections:

Psychosocial Development, Risk and Prevention (PDRP)

Scientific Review Administrator: Dr. Victoria Levin

PDRP (formerly RPHB-1) reviews applications that focus on the identification of risk and protective factors, processes and models and design and testing of intra- and inter-personal preventive interventions related to social development across the life span. Social contexts of interest include family relationships, intimate partner and marital relationships, social networks, peer groups, schools, and workplace settings. Research designs and methods may use quantitative or qualitative approaches. Research on risk and protective factors and preventive interventions may be focused on alcohol, tobacco, and drug abuse; violence, abuse and anti-social behavior; unintended injury; psychopathology; high-risk sexual behavior; unintended pregnancy; academic underachievement; and other negative outcomes and co-morbid conditions.

In FY 2004, PDRP primarily reviewed applications for NIDA (17.5%), NICHD (39.0%), and NIMH (38.2%), but also reviewed a small number of applications for NIAAA, NIA, and NCI.

Psychosocial Risk and Disease Prevention (PRDP)

Scientific Review Administrator: Dr. Deborah Young-Hyman

PRDP (formerly RPHB-2) reviews research applications for development and testing of behavioral and biobehavioral interventions to prevent or reduce risk factors for physical conditions, diseases and disorders. Biobehavioral aspects of affect, stress, symptom perception, social support, individual differences, and other psychosocial traits or states related to pathology of somatic organs or systems are included, as well as applications studying interactions between behavioral, social, psychological, and physiological factors and conditions for which individuals

receive health care. Research may involve use of animal models of specific disorders. Behavioral intervention and risk factor reduction studies may involve components consisting of pharmacological treatments or interventions using devices. Clinical studies may be designed specifically to investigate the relationships between basic psychosocial or biobehavioral variables and biological bases of disease.

In FY 2004, PRDP reviewed applications primarily for NIA (6.0%), NCI (33.5%), NIDDK (16.7%), NICHD (16.3%), NHLBI (11.2%) and NIMH (6.0%). It also reviewed smaller numbers of applications for NIAAA, NIAID, NIAMS, NCCAM, NIDA, NIEHS, NINR and NINDS.

### Behavioral Medicine Intervention and Outcomes (BMIO)

Scientific Review Administrator: Dr. Lee Mann

BMIO (formerly RPHB-3) reviews behavioral and biobehavioral approaches to treatment, management and rehabilitation related to physical or cognitive impairment; study of sequelae of diseases or disorders; and biobehavioral aspects of affect, stress, pain, symptom perception, social support, individual differences, and other psychosocial traits or states associated with or generated as a response to pathology. Included are applications focused on interactions between experiential, behavioral, social, psychological, and physiological factors and conditions for cognitive and neurological impairments as well as studies examining disability due to cognitive or physical impairments and effects on daily living and social support. Rehabilitation research includes studies of conditions associated with disability, including diseases, disorders or injuries that are associated with potentially chronic impairments (excluding time-limited reversible conditions). Behavioral, pharmacological and device intervention studies are included if they are designed specifically to investigate relationships between basic psychosocial or biobehavioral variables and biological bases of disease. Research applications may involve use of animal models of specific disorders.

In FY 2004, BMIO reviewed applications primarily for NIA (12.1%), NCI (34.1%), NIDDK (12.1%), NICHD (8.6%), NHLBI (10.8%) and NINDS (5.6%). It also reviewed applications for NIAAA, NIAID, NIAMS, NCCAM, NIDA, NIDCR, NEI, NIMH, and NINR.

### Social Psychology, Personality, and Interpersonal Processes (SPIP)

Scientific Review Administrator: Dr. Michael Micklin

SPIP (formerly RPHB-4) reviews applications for research on fundamental psychological and social conditions and processes, including personality, emotions, motivation, social identities, social roles, social cognition, attitudes and attitude change, individual differences, and small group dynamics and their relation to mental and physical health and substance use/abuse. Social, cultural, situational and experiential effects and interactions are included. Basic studies may include

normative or risk processes relevant to health outcomes across the life course (from infancy to old age).

In FY 2004, SPIP reviewed applications primarily for NIA (24.7%), NICHD (12.1%), and NIMH (51.1%). It reviewed smaller numbers of applications for NIAAA, NCCAM, NCI, NIDA, NIDCR, NIDDK, NIEHS, NHLBI, NINR and CDC.

### Small Business Activities (RPHB 10, RPHB 11, RPHB 12)

Scientific Review Administrator: Dr. Claire Gutkin

Small business applications reviewed by RPHB cover a wide range of social, behavioral, and technological interventions designed to reduce the risk of illness and disease, improve their treatment and management, and mitigate harmful consequences of illness/disease symptoms and treatments. The RPHB Small Business SEPs are comprised of the following panels: RPHB (10) Disease, Health Related Behavior and Education; RPHB (11) Addiction Related Prevention and Education; and RPHB (12) Metabolic, Childhood Behavior and Education.

### **Surgical Sciences, Biomedical Imaging, and Bioengineering Integrated Review Group**

The Surgical Sciences, Biomedical Imaging, and Bioengineering (SBIB) IRG reviews applications for research grants that address topics in a variety of areas at the interface between physical science or engineering and biomedical or clinical research. Major areas include the following: (1) Development of molecular probes and contrast agents; development of molecular imaging techniques; and basic, applied, and pre-clinical aspects of the design and development of medical imaging systems (including hardware, software and mathematical methods of image analysis) for studying organs or whole animals (including humans). (2) Application of computational sciences to knowledge and information in bio and clinical medicine, healthcare and their integration. (3) Development of: biomedical sensing and measurement instrumentation; diagnostic instrumentation creating knowledge to enhance organ system function and recovery; innovative biologics, materials, processes, implants, devices; and informatics approaches to prevent, diagnose, and treat disease. (4) Surgery and anesthesiology; host response to sepsis and injury; surgical and microsurgical therapies; surgical critical care and emergency medicine; treatment of trauma; multi-organ responses to surgery. Study sections in this IRG held their first meetings in June and July of 2004. In FY 2004, study sections in SBIB held 39 meetings and reviewed 909 applications. A total of 508 reviewers served on SBIB review panels.

#### **IRG Staff:**

**Dr. Eileen Bradley**

Dr. Gerald Becker  
Dr. Bill Bunnag  
Brenda Derflinger

**Chief**

Scientific Review Administrator  
Scientific Review Administrator  
Grants Review Assistant

Dr. Dharam Dhindsa	Scientific Review Administrator
Bonnie Ellis *	Supervisory Grants Review Assistant
Dr. Keyvan Farahani ⊥	Scientific Review Administrator
Shirley Gray	Grants Technical Assistant
Dr. Xiang Ning Li #	Scientific Review Administrator
Dr. Hector Lopez #	Scientific Review Administrator
Dr. Weihua Luo #	CSR Review Internship Program
Dianne Massay	Grants Technical Assistant
Dr. Roberto Matus #	Scientific Review Administrator
Dr. Robert Nordstrom	Scientific Review Administrator
Olamide Ogunyankin # *	Grants Technical Assistant
Mital Pancholi *	Grants Technical Assistant
Dr. Paul Parakkal	Scientific Review Administrator
Dr. Arthur Petrosian	Scientific Review Administrator
Dr. Lee Rosen	Scientific Review Administrator
Dr. Behrouz Shabestari	Scientific Review Administrator
Dr. Pushpa Tandon #	Scientific Review Administrator
Shannon Thornton	Office Automation Clerk
Dr. Guo Xu #	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

+ On detail to NCI

**Table 15.** Applications reviewed by SBIB by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	--	--	352	352	38.7%
<b>Small Business</b>	--	--	338	338	37.2%
<b>R21</b>	--	--	151	151	16.6%
<b>Other Research Projects (R03, R15)</b>	--	--	11	11	1.2%
<b>Fellowship Program (F31)</b>	--	--	1	1	0.1%
<b>Research Career Programs (K08)</b>	--	--	3	3	0.3%
<b>Research Program Projects and Centers (P01, P41)</b>	--	--	3	3	0.3%
<b>Miscellaneous Mechanisms (S10)</b>	--	--	50	50	5.5%
<b>Total</b>	--	--	<b>909</b>	<b>909</b>	<b>100%</b>

The Surgical Sciences, Biomedical Imaging and Bioengineering IRG has the following study sections:

Biomedical Imaging Technology (BMIT)

Scientific Review Administrator: Dr. Lee Rosen

BMIT reviews grant applications involving basic, applied, and pre-clinical aspects of the design and development of medical imaging systems, their components, software, and mathematical methods; as well as related technologies, for studies at the organ, small or large animal, and human scale.

In FY 2004, BMIT reviewed applications primarily for NCI (23.3%), NIBIB (45.9%), NHLBI (9.0%), and NINDS (9.8%). A smaller number of applications

were reviewed for NIA, NIAMS, NIDA, NIDCD, NIDCR, NICHD, NIMH, and NCRR.

### Medical Imaging (MEDI)

Scientific Review Administrator: Dr. Eileen Bradley

MEDI reviews proposals involving the application and validation of *in vivo* imaging of humans and animals, including early phase clinical studies of medical imaging systems, molecular probes and contrast agents, software, molecular imaging techniques, and related technologies. The underlying technologies may be refined and optimized during testing in response to research questions or clinical needs.

In FY 2004, MEDI primarily reviewed applications for NCI (38.3%), NIDDK (6.1%), NIBIB (23.5%), and NHLBI (22.6%). It also reviewed applications for NIA, NIDA, NIDCD, NIGMS, NICHD, NIMH, and NINDS.

### Bioengineering, Technology, and Surgical Sciences (BTSS)

Scientific Review Administrator: Dr. Dharam Dhindsa

Applications reviewed by BTSS integrate physical, chemical, or mathematical sciences and engineering principles to study physiology, medicine, behavior, or health. These applications exhibit a systematic, quantitative, and integrative way of thinking about and approaching the solution of problems important to physiology and clinical medicine. They advance fundamental and applied concepts, creating knowledge for enhancing the function and recovery of organ systems; or they develop innovative medical instruments, materials, processes, implants, devices, and informatics approaches for the prevention, diagnosis, or treatment of disease. Surgical science applies biomedical devices and instruments to the diagnosis, and treatment of disease and injury. Pre-clinical studies involving the application of devices and instrumentation are also included.

In FY 2004, BTSS reviewed applications mainly for NIBIB (29.5%), NIGMS (5.1%), and NHLBI (52.6%). It also reviewed small numbers of applications for NIA, NIAID, NCI, NIDDK, NINDS, and NCRR.

### Surgery, Anesthesiology, and Trauma (SAT)

Scientific Review Administrator: Dr. Gerald Becker

SAT reviews grant applications in the complementary disciplines of surgery and anesthesiology, as well as in surgical critical care. Sepsis studies that are reviewed by SAT are in general limited to multi-organ or systemic host injury responses to complex insults such as trauma, disseminated infection, or surgical stress; many such responses occur as postoperative complications. Anesthesiology and surgical critical care are more comprehensively reviewed. Prior to June 2004, SAT met as part of the SRB IRG.

In FY 2004, SAT primarily reviewed applications for NIDDK (8.8%), NIGMS (51.3%), and NHLBI (18.8%), but also reviewed applications for NIAAA, NIAID, NIAMS, NIDA, NIDCD, NIBIB, NICHD, NINR, and NINDS.

#### Small Business Biomedical Imaging (SBMI)

Scientific Review Administrator: Dr. Robert Nordstrom

SBMI reviews small business grant applications involving basic, applied and pre-clinical aspects of the design and development of medical imaging systems, their components, software and mathematical methods, and related technologies. Also reviewed are proposals involving the application and validation of *in vivo* human and animal imaging, including early phase clinical aspects of medical imaging systems, agents, software and mathematical methods, or related technologies. During testing, the underlying technologies may be refined or optimized in response to research questions and clinical needs.

#### Small Business Bioengineering, Surgical Sciences, and Technology (SBTS)

Scientific Review Administrator: Dr. Roberto Matus

SBTS reviews small business grant applications involved in innovative research and technology development of biomedical devices and systems for treating human diseases. They involve integration of biomedical devices into living systems; or propose systematic, quantitative, and integrative approaches to thinking about and addressing problems important to physiology or clinical medicine. These bioengineering and surgical science projects integrate physical, chemical, or mathematical sciences and engineering principles into the study of biology, medicine, behavior, and health. They develop innovative biologics, materials, processes, implants, and devices, for the prevention, diagnosis, or treatment of disease. Surgical sciences integrate the device and instrumentation applications into living systems. Studies involving minimally invasive surgery, microsurgery, computer-assisted surgery, and robotics are reviewed in this scientific review group. Pre-clinical studies and studies focused on applications of device/instrumentation are included.

#### Small Business Biomedical Sensing, Measurement and Instrumentation (SSMI)

Scientific Review Administrator: Dr. Pushpa Tandon

SSMI reviews small business grant involving biomedical sensing, measurement, and the development of diagnostic and therapeutic instrumentation. Research that focuses on the development of innovative sensors may range from fundamental physical, mechanical or chemical transduction through basic measurement principles to the design of novel instruments for clinical use.

Small Business Bioelectromagnetics (SBIB 10)

Scientific Review Administrator: Dr. Lee Rosen

The Small Business Bioelectromagnetics Special Emphasis Panel reviews applications on the development of instrumentation to use electromagnetic technology for imaging and therapeutic uses.

**Surgery, Radiology and Bioengineering Integrated Review Group**

The Surgery, Radiology, and Bioengineering (SRB) IRG is composed of four chartered study sections and five special study sections, which function on the underlying principles of overlapping orbits of SRA and reviewer expertise. This results in great flexibility to respond to multidisciplinary science, hypothesis and non-hypothesis driven science, and new initiatives. The technology-oriented study sections are designed to feed into the more clinical study sections as the research evolves. The special study sections are very flexible, responsive to all mechanisms, and often the site for the review of emerging areas of research. In FY 2004, SRB study sections held 58 meetings and reviewed 1,948 applications. A total of 644 reviewers served on SRB review panels. SRB study sections held their final meetings in February 2004.

**IRG Staff:****Dr. Eileen Bradley****Chief**

Dr. Gerald Becker	Scientific Review Administrator
Dr. Bill Bunnag	Scientific Review Administrator
Brenda Derflinger	Grants Review Assistant
Dr. Dharam Dhindsa	Scientific Review Administrator
Bonnie Ellis*	Supervisory Grants Review Assistant
Shirley Gray	Grants Technical Assistant
Dianne Massay	Grants Technical Assistant
Dr. Roberto Matus <sup>#</sup>	Scientific Review Administrator
Dr. Robert Nordstrom	Scientific Review Administrator
Mital Pancholi*	Grants Technical Assistant
Dr. Paul Parakkal	Scientific Review Administrator
Dr. Arthur Petrosian	Scientific Review Administrator
Dr. Lee Rosen	Scientific Review Administrator
Dr. Behrouz Shabestari	Scientific Review Administrator
Dr. Pushpa Tandon <sup>#</sup>	Scientific Review Administrator

\* Left CSR in fiscal year 2004

<sup>#</sup> Joined CSR in fiscal year 2004



**Table 16.** Applications reviewed by SRB by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	328	434	--	762	39.1%
<b>Small Business</b>	382	373	--	755	38.8%
<b>R21</b>	141	128	--	269	13.8%
<b>Other Research Projects (R03, R13, R15, R33, R37)</b>	19	18	--	37	1.9%
<b>Fellowship Program (F32)</b>	1	1	--	2	0.1%
<b>Research Career Programs (K08, K23)</b>	3	7	--	10	0.5%
<b>Research Program Projects and Centers (P01, P41)</b>	3	3	--	6	0.3%
<b>Miscellaneous Mechanisms (S10)</b>	69	38	--	107	5.5%
<b>Total</b>	<b>946</b>	<b>1,002</b>	<b>--</b>	<b>1,948</b>	<b>100%</b>

The Surgery, Radiology and Bioengineering IRG has the following study sections:

#### Diagnostic Imaging (DMG)

Scientific Review Administrator: Dr. Lee Rosen

DMG reviews applications dealing with the development and evaluation of new technology for imaging, including instrumentation and software for producing, evaluating, storing, and transmitting images for anatomical, physiological, metabolic, diagnostic, and therapeutic information. This study section held its final meeting in February 2004.

In FY 2004, DMG primarily reviewed applications for NCI (27.2%), NIBIB (42.3%), NHLBI (10.0%), and NINDS (5.9%). It also reviewed smaller numbers of applications for NIA, NIAID, NIAMS, NIDA, NIDCD, NIDDK, NEI, NIGMS, NIMH, NCRR, and NLM.

#### Diagnostic Radiology (RNM)

Scientific Review Administrator: Dr. Eileen Bradley

RNM deals with basic and clinical studies of all diagnostic imaging modalities for anatomical, physiologic, metabolic and diagnostic information. Additionally, imaging of disease progression and therapy are reviewed here. This study section held its final meeting in February 2004.

In FY 2004, RNM reviewed applications primarily for NCI (42.6%), NIBIB (19.6%), NHLBI (16.3%), and NINDS (8.6%). It reviewed a small number of applications for NIA, NIAID, NIAMS, NIDA, NIDCD, NIDDK, NIGMS, NIMH, and NCRR.

### Surgery, Anesthesiology and Trauma (SAT)

Scientific Review Administrator: Dr. Gerald Becker

SAT deals with basic and clinical research in anesthesiology and surgery including but not limited to transplantation, trauma, shock, sepsis, burns, and ischemia. As of June 2004, SAT meets as part of the SBIB IRG.

In FY 2004, SAT primarily reviewed applications for NIAID (12.3%), NIDDK (13.3%), NIGMS (50.7%), and NHLBI (13.7%). It also reviewed a small number of applications for NIAAA, NIA, NIAMS, NCCAM, NCI, NIDA, NIBIB, NICHD, NINR and NINDS.

### Surgery and Bioengineering (SB)

Scientific Review Administrator: Dr. Dharam Dhindsa

SB deals with basic and clinical investigation of surgical research primarily related to cardiac, vascular, pulmonary, and gastrointestinal systems: bioengineering, biomaterials, mechanical devices, and drug delivery. This study section held its final meeting in February 2004.

In FY 2004, SB reviewed applications primarily for NCI (7.0%), NIDDK (5.4%), NIBIB (20.5%), and NHLBI (58.9%). It also reviewed smaller numbers of applications for NIA, NIAID, NIDCD, and NIGMS.

### Medical Imaging Technologies (SSS-7)

Scientific Review Administrator: Dr. Robert Nordstrom

SSS-7 reviews all modalities of medical imaging, including gamma ray, MRI, functional MRI, PET, SPECT, X-ray, CT; visible, IR, and UV photons; and optical, photo-acoustic, microwave acoustic, and exotic imaging methods.

### Bioengineering and Physiology (SSS-8)

Scientific Review Administrator: Dr. Paul Parakkal

SSS-8 reviews applications in the general area of bioengineering and physiology with special focus on medical devices. The applications on clinical research deal with all organs of the body, except the heart and blood conduit systems.

### Medical Computer Science (SSS-9)

Scientific Review Administrator: Dr. Bill Bunnag

SSS-9 reviews research related to various aspects of computer bioengineering and application of computer technology in biomedical research.

Cardiovascular Devices (SSS-W)

Scientific Review Administrators: Dr. Behrouz Shabestari, Dr. Roberto Matus

SSS-W reviews applications that primarily deal with heart and vascular devices. Many are used for monitoring physiological parameters such as ECG, blood pressure, and blood oxygen saturation. The devices are designed for adults, children, babies, and fetuses.

## **Division of Molecular and Cellular Mechanisms**

The Division of Molecular and Cellular Mechanisms (DMCM) is responsible for the merit review of a wide range of science, particularly basic science, but including clinical science in certain areas, e.g., biology of aging. In addition, the Division promotes review of technology development even in the absence of a hypothesis driven setting. At the close of FY 2004, DMCM consisted of seven IRGs: 1) Biochemical Sciences (BCS); 2) Biology of Development and Aging (BDA); 3) Biophysical and Chemical Sciences (BPC); 4) Bioengineering Sciences and Technologies (BST); 5) Cell Development and Function (CDF); 6) Genes, Genomes, and Genetics (GGG); and 7) Molecular, Cellular and Developmental Neuroscience (MDCN). In FY 2004, DMCM study sections held a total of 392 meetings and reviewed 12,089 applications, which represent more than 20% growth in a single year.

### **Changes in the Division in FY 2004**

In FY 2004, DMCM launched the completely new BST IRG with Dr. Sally Amero as IRG Chief. Provisional rosters were posted late summer of 2003, and the first study section meetings were held in March of 2004. BST represents a new approach to review of technology applications at NIH as for the first time basic bioengineering is being reviewed in that context. Simultaneous with start up, the IRG was assigned the review of the first two Roadmap Initiatives: “National Centers for Biomedical Computing” and “National Technology Centers for Networks and Pathways.” Despite being an immense undertaking that should have involved twice as many staff members, this was done successfully and won BST the CSR Director’s Floating Cup Award for outstanding service.

FY 2004 also saw significant growth in BPC, CDF, and MDCN, and DMCM began steps to create the GGG IRG by appointing Dr. Richard Panniers as IRG Chief and by moving Dr. Richard Currie from CDF and Dr. Michael Sveda from BCS to GGG. Also during FY 2004, CSR consolidated all three of the International Cooperative Projects (ICP) study sections into BDA. In addition, our understanding with FIC was redefined, and we are committed to separating their social and behavioral applications from the others and handling them in ICP-3. Also in FY 2004, DMCM study sections reviewed several other trans-NIH initiatives including those in nanotechnology and the human brain project.

### **Changes in the Division Anticipated in 2005**

As FY 2005 begins, the Genetics Sciences IRG is undergoing reorganization and becoming the Genes, Genomes, and Genetics (GGG) IRG. The number of regular study sections is increasing from four to seven. The greatest growth is in molecular genetics where we will have three mirror image study sections. This means that CSR will cluster for the first time molecular biology applications that had been reviewed in various IRGs. Another new area is genetic variation and evolution that is anticipated to meet a growing demand for quantitative genetics. The genetics community seems supportive of this study section.

In 2005, DMCM will close the BCS, BPC, and CDF IRGs and will implement the Biological Chemistry and Macromolecular Biophysics (BCMB) and the Cell Biology (CB)

IRGs. This will mean a decrease from seven to six IRGs in the division. The first meetings of the new BCMB and CB study sections in February 2005 will mark the end of the PSBR implementation process that began in January 2000. Both IRGs represent efforts to broaden the scope of science reviewed by any one study section as BCMB has two mirror image study sections in synthesis and three in macromolecular structure-function and CB has five overlapping study sections in cell biology. Furthermore, each IRG includes a new study section focused on biological membranes. In addition, the BCMB IRG has a technology oriented study section that focuses on enabling technologies. DMCM will also continue to be involved in trans-NIH activities including reannouncements of Roadmap Initiatives.

Perhaps the change with most impact in 2005 is the centralization of our support staff. In recent years, CSR calculated support staff needs for Federal plus contract Grant Technical Assistants on the basis of each person handling 120 applications a round. Under the new centralized Division of Extramural Activities Support, with a 25% increase in efficiency, we might have expected 107 Extramural Support Assistants. The fact that we may only have 76 is problematic.

### **IRG Chief and Review Staff Personnel Changes in Fiscal Year 2004**

Dr. Camilla Day stepped down as Chief of the GNS IRG and Dr. Richard Panniers was appointed as her replacement. Other changes included the appointments of Dr. Noni Byrnes as CSR Review Internship Coordinator and Dr. George Chacko as CSR Information Technology Training Coordinator. In addition, for large IRGs, CSR implemented the position of Deputy Chief, and Dr. Janet Nelson assumed the Deputy position in BPC. The following SRAs left DMCM In FY 2004: Drs. Prabhakara Atreya and Sandy Warren. DMCM recruited 10 SRAs during fiscal year 2004, including Drs. Toby Behar, Robert Elliott, Dan Gerendasy, Malgorzata Klosek, Kathryn Koeller, Neelakanta Ravindranath, Marc Rigas, Sandy Warren, and Steve Zullo. With the hiring of Dr. Alexander (Sasha) Gubin, an intern, altogether this represents a net gain of nine SRAs.

#### **Division Staff:**

#### **Dr. Donald Schneider**

Pamela Bobbit  
Barbara David

#### **Director**

Division Administrative Assistant  
Review Technology Assistant

### **Biochemical Sciences Integrated Review Group**

The Biochemical Sciences (BCS) IRG reviews basic and clinically oriented biochemistry, including mechanistic enzymology in biosynthesis, transport, assimilation, regulation and degradation of proteins, carbohydrates and lipids in *in vivo* and *in vitro* systems; signal transduction; structure-function relationships of proteins and components of extracellular matrix and associated biological phenomenon; role of the extracellular matrix in normal biological and disease processes; molecular basis of metabolic diseases including inborn errors of metabolism; and applications of drugs, enzymes, and gene therapies in the treatment of disease states associated with inborn errors of metabolism. In FY 2004, BCS

study sections held 26 meetings and reviewed 690 applications. A total of 278 reviewers served on BCS review panels.

**IRG Staff:**

**Dr. Zakir Bengali**

**Chief**

Phoebe Allison *	Lead Grants Technical Assistant
Dr. Prabhakara Atreya *	Scientific Review Administrator
Paul Brohawn *	Grants Technical Assistant
Margot Cox	Grants Technical Assistant
Dr. Alexander Liacouras	Scientific Review Administrator
Mark Lyght #	Grants Technical Assistant
Dr. Richard Panniers	Scientific Review Administrator
Dr. Michael Sveda	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 17.** Applications reviewed by BCS by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	165	175	156	496	71.9%
<b>Small Business</b>	83	25	24	132	19.1%
<b>R21</b>	11	10	14	35	5.1%
<b>Other Research Projects (R03, R15, R24, R37)</b>	1	12	1	14	2.0%
<b>Research Career Programs (K01)</b>	0	1	0	1	0.1%
<b>Research Program Projects and Centers (P01, P41)</b>	1	2	0	3	0.4%
<b>Miscellaneous Mechanisms (S10)</b>	9	0	0	9	1.3%
<b>Total</b>	<b>270</b>	<b>225</b>	<b>195</b>	<b>690</b>	<b>100%</b>

The BCS IRG has the following study sections:

Biochemistry (BIO)

Scientific Review Administrator: Dr. Michael Sveda

BIO reviews applications on mechanistic enzymology, as well as biochemical and molecular biological approaches to determine protein folding, structure-function relationships.

In FY 2004, BIO reviewed applications primarily for NIGMS (70.1%), NIAID (8.2%), NCI (11.9%), and NIDDK (5.7%). It also reviewed a small number of applications for NHLBI and NINDS.

Pathobiochemistry (PBC)

Scientific Review Administrator: Dr. Zakir Bengali

PBC reviews applications in the following areas: 1) biochemical structure, synthesis, breakdown, interactions and functional analysis of extracellular matrix components (such as collagens, laminins, fibronectin, thrombospondins, fibrillins, elastin, proteoglycans); 2) structure and expression of cell adhesion molecules (such as integrins, syndecans and cadherins) and their cell:cell and cell:matrix interactions (including matrix ligands, growth factors, cytoskeleton, signaling assemblies) and associated cellular phenomena such as signal transduction, cell motility, phenotypic expression, apoptosis, etc.; 3) mechanism of action of extracellular proteases involved in matrix modeling, remodeling, and degradation; 4) role of the extracellular matrix in normal biological processes (such as development), as well as in disease and injury (for example, wound healing/repair, tumor invasion/metastasis, angiogenesis, vascular diseases, degenerative diseases such as arthritis, etc.); 5) biochemical structure and biosynthesis of glycosyltransferases and sugar nucleotide transporters; 6) metabolism of glycosidases; 7) intracellular trafficking of lipid and protein-linked carbohydrates; and 8) functions of carbohydrates in, for example, mediating cell adhesion, promoting metastasis and ligand binding.

In FY 2004, PBC primarily reviewed applications for NIAID (6.0%), NIAMS (8.3%), NCI (32.1%), NIGMS (32.1%), NHLBI (9.5%), and NINDS (6.0%). It also reviewed a small number of applications for NIA, NIDDK, NEI, and NICHD.

Physiological Chemistry (PC)

Scientific Review Administrator: Dr. Richard Panniers

PC reviews applications focused on the structure, physiological function, and enzymology of the following systems: 1) cell membrane and regulatory lipids, including glycolipids (e.g., assembly and structure of membrane lipid complexes, lipid trafficking); 2) membrane biochemistry, including assembly and microdomains/rafts; 3) glycoproteins, including their characterization, synthesis and processing; 4) membrane Transporters (e.g., Na, K, Ca, Fe); 5) cholesterol, fatty acids, lipoproteins and their receptors; 6) signaling, polypeptide receptors, docking proteins, G proteins (small and heterotrimeric), serine and tyrosine protein kinases and phosphatases, calcium, nitric oxide, lipid modification, and novel signaling agents; 7) cell cycle, DNA replication, repair and recombination; 8) ribosomes/tRNA/Translation; 9) regulation of gene expression (including hormonal and environmental regulation) through modulation of transcription, RNA processing, and translation; 10) protein processing and trafficking; and 11) mitochondrial biogenesis.

In FY 2004, PC reviewed applications primarily for NIGMS (59.2%), NCI (9.2%), NIDDK (12.6%), and NHLBI (10.1%). However, it also reviewed a small number

of applications for NIA, NIAID, NIAMS, NIDCD, NIEHS, NICHD, NIMH and NINDS.

### Small Business Activities (SSS-2)

Scientific Review Administrators: Dr. Prabhakara Atreya, Dr. Zakir Bengali, Dr. Alexander Liacouras

SSS-2 reviews small business applications in the areas of: 1) purification and biochemical analysis of proteins, including glycoproteins, proteoglycans, enzymes, receptors, signaling proteins, and nucleic acid binding proteins; 2) protein engineering and heterologous protein expression methods including transgenic plant expression systems; 3) large-scale production of proteins, fermentors, bioreactors and biosensors; 4) methodologies to develop, and use of protein microarrays (or protein chips); 5) development of non-immunochemical assays and high throughput screening of proteins; 6) proteomics (development of methodologies, information generation for, and utilization of protein databases); 7) gene-based therapeutics, the development of viral and non-viral vectors and electroporation-mediated techniques for gene delivery; and 8) enzyme replacement therapies.

### **Biology of Development and Aging Integrated Review Group**

The Biology of Development and Aging (BDA) IRG considers research applications that are focused on development and/or aging and that employ approaches at a variety of levels from molecules to whole organisms. Development and aging are inherently integrative research areas focusing on biological changes over time and proposals in this IRG will frequently transcend the boundaries of single organs or systems. BDA held its first meetings in October 2003. In FY 2004, BDA reviewed 1,103 applications in 50 meetings. A total of 432 reviewers served on BDA's review panels.

#### **IRG Staff:**

#### **Dr. Sherry Dupere**

#### **Chief**

Mark Baron

Grants Technical Assistant

Dr. Ping Fan

Scientific Review Administrator

Dr. Dan Gerendasy #

Scientific Review Administrator

Carla Giddings \*

Grants Technical Assistant

Dimple Giri \*

Grants Technical Assistant

Dr. James Harwood

Scientific Review Administrator

Dr. Charles Hollingsworth

Scientific Review Administrator

Sheila Jones \*

Lead Grants Technical Assistant

Alexander Liacouras

Scientific Review Administrator

Dr. Yi Hsin Liu #

CSR Review Internship Program

Jennifer Peddicord \*

Grants Technical Assistant

Franklin Porter \*

Grants Technical Assistant

Dr. Neelakanta Ravindranath #

Scientific Review Administrator

Adebusola Shomoye \*

Grants Technical Assistant

Tekora Singleton #\*

Grants Technical Assistant



Marva St. Hill  
 Dr. Sandy Warren #

Grants Technical Assistant  
 Scientific Review Administrator

\* Left CSR in fiscal year 2004  
 # Joined CSR in fiscal year 2004

**Table 18.** Applications reviewed by BDA by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	183	178	212	573	51.9%
<b>Small Business</b>	4	10	12	26	2.4%
<b>R21</b>	23	53	47	123	11.2%
<b>Other Research Projects (R03, R15, R24, R25, R37)</b>	80	114	83	277	25.1%
<b>Research Career Programs (K01)</b>	0	0	10	10	0.9%
<b>Research Program Projects and Centers (P01, P40, P50)</b>	0	0	3	3	0.3%
<b>Miscellaneous Mechanisms (D43, D71, L30, T35, U01, U2R)</b>	30	56	5	91	8.3%
<b>Total</b>	<b>320</b>	<b>411</b>	<b>372</b>	<b>1,103</b>	<b>100%</b>

The Biology of Development and Aging IRG has the following study sections:

Development 1 (DEV-1)

Scientific Review Administrator: Dr. Sherry Dupere

This study section reviews applications covering a wide range of topics in developmental biology using diverse animal and plant models. Cellular, biochemical, genetic, and molecular approaches to developmental problems at the level of cells, tissues, organs, and the whole organism are appropriate. Emphasis is on the development of the gametes and on organogenesis.

In FY 2004, DEV-1 primarily reviewed applications for NCI (8.8%), NIDCR (5.1%), NIDDK (8.1%), NIGMS (30.9%), NICHD (27.2%), and NHLBI (8.1%). It also reviewed a small number of applications for NIAAA, NIAMS, NIEHS, NINDS, and NCRR.

Development 2 (DEV-2)

Scientific Review Administrators: Dr. Sherry Dupere, Dr. Neelakanta Ravindranath

This study section reviews applications covering a wide range of topics in developmental biology using diverse animal and plant models. Cellular, biochemical, genetic, and molecular approaches to developmental problems at the level of cells, tissues, organs, and the whole organism are appropriate. Emphasis is on pattern formation, stem cells, evolution, primordial birth defects, and early embryonic development.

In FY 2004, DEV-2 reviewed applications primarily for NCI (8.6%), NIDCR (5.4%), NIGMS (36.2%), and NICHD (29.0%). It also reviewed small numbers of applications for NIA, NIAID, NIAMS, NIDCD, NIDDK, NIBIB, NIEHS, NHLBI, NINDS, and NCRR.

#### Cellular Mechanisms in Aging and Development (CMAD)

Scientific Review Administrator: Dr. James Harwood

CMAD reviews applications involving molecular and cell biological mechanisms of development and aging, encompassing studies ranging from single cells to whole organisms. The focus is on temporal aspects of chromosome dynamics, cell death, cell-cycle control, cellular responses to stress, cellular communication, stem cells, physiologic regulation, and determinants of longevity and other age-related functional changes.

In FY 2004, CMAD reviewed applications primarily for NIA (89.9%), but also reviewed applications for NCI, NIDDK, NIGMS, NHLBI, and NINDS.

#### Aging Systems and Geriatrics (ASG)

Scientific Review Administrator: Dr. Charles Hollingsworth

ASG reviews applications involving aging humans or animals, in particular studies of postmaturational changes, which transcend single organ systems or disciplines, and which may require integrated experimental, genetic, or observational approaches.

In FY 2004, ASG primarily reviewed applications for NIA (92.1%), and reviewed small numbers of applications for NIAAA, NIAID, NCCAM, NEI, NHLBI, NIMH, and NINDS.

#### International and Cooperative Projects (ICP-1, ICP-2, ICP-3)

Scientific Review Administrators: Dr. Dan Gerendasy, Dr. Ping Fan, Dr. Sandy Warren

The ICP study sections address international collaborative research applications processed and supported by FIC and other special programs supported by the various institutes. The applications are broad and involve the biomedical, biochemical, neurological, physiological, clinical, and public health sciences. Members of the study sections therefore constitute broadly multidisciplinary review groups. ICP-1, ICP-2, and ICP-3 held their first meetings as part of the BDA IRG in October 2003.

In FY 2004, all applications reviewed by ICP-1, ICP-2, and ICP-3 were assigned to FIC for funding.

## Biophysical and Chemical Sciences Integrated Review Group

The Biophysical and Chemical Sciences (BPC) IRG reviews applications on the chemistry and biophysical behavior of biologically and medically important molecules. This includes their isolation, structural determination, identification of biomolecular functional relationships, and the chemistry of drug discovery and biological processes, as well as bioengineering and the development of biophysical and analytical instrumentation. The range of science is often multidisciplinary and includes techniques such as x-ray crystallography, electron microscopy, electron paramagnetic resonance (EPR) and nuclear magnetic resonance (NMR) spectroscopies and related bioimaging techniques, mass spectrometry, optical spectroscopies, and related biophysical techniques. In FY 2004, BPC study sections held 77 meetings and reviewed 2,971 applications. A total of 949 reviewers served on BPC review panels.

### IRG Staff:

**Dr. John Bowers**  
**Dr. Janet Nelson**

**Chief**  
**Deputy Chief**

Dr. Nuria Assa-Munt #	Scientific Review Administrator
Pamela Bobbit	Administrative Review Assistant
Fettina Bryant *	Grants Technical Assistant
Dr. Noni Byrnes	Scientific Review Administrator
Dr. George Chacko	Scientific Review Administrator
Sherry Ernde	Lead Grants Technical Assistant
Krishna Jain	Grants Technical Assistant
Dr. David Jollie	Scientific Review Administrator
Dr. Kathryn Koeller #	Scientific Review Administrator
Dr. Nancy Lamontagne	Scientific Review Administrator
Dr. Robert Lees	Scientific Review Administrator
Geraldine McCray	Grants Technical Assistant
Olamida Oloko *	Grants Technical Assistant
Eric Phillips	Grants Technical Assistant
Dr. Harold (Mike) Radtke	Scientific Review Administrator
Dr. Gopa Rakhit	Scientific Review Administrator
Dr. Arnold Revzin	Scientific Review Administrator
Dr. Marc Rigas #	Scientific Review Administrator
Dr. Sergei Ruvinov	Scientific Review Administrator
Dr. Krystyna Rys-Sikora #	CSR Review Internship Program
Beverly Schettig *	Grants Technical Assistant
Dr. Donald Schneider	Scientific Review Administrator
Virginia Shifflett *	Grants Technical Assistant
Dr. Vonda Smith	Scientific Review Administrator
Melissa Tobe	Grants Technical Assistant
Sherry Ugochukwu	Grants Technical Assistant
Wendy Washington *	Grants Technical Assistant

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 19.** Applications reviewed by BPC by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	486	523	544	1,553	52.3%
<b>Small Business</b>	177	168	161	506	17.0%
<b>R21</b>	54	88	98	240	8.1%
<b>Other Research Projects (R03, R13, R15, R25, R37)</b>	39	32	34	105	3.5%
<b>Fellowship Program (F30, F31, F32, F33)</b>	128	154	130	412	13.9%
<b>Research Career Programs (K25)</b>	1	0	0	1	0.0%
<b>Research Program Projects and Centers (P01, P41)</b>	6	9	4	19	0.6%
<b>Miscellaneous Mechanisms (S10, U13)</b>	69	23	43	135	4.5%
<b>Total</b>	<b>960</b>	<b>997</b>	<b>1,014</b>	<b>2,971</b>	<b>100%</b>

The Biophysical and Chemical Sciences IRG has the following study sections:

#### Molecular and Cellular Biophysics (BBCA)

Scientific Review Administrator: Dr. Nancy Lamontange

BBCA covers biophysical and physical chemical research on biological macromolecules and some aspects of the physical chemistry of biologically important small molecules. The research utilizes methodologies such as NMR, X-ray crystallography, spectroscopy, modeling, and computational/thermodynamic/kinetic analysis

In FY 2004, BBCA reviewed applications primarily for NIGMS (74.3%), NIAID (7.6%), and NCI (6.9%). It also reviewed applications for NIAAA, NIA, NIDDK, NIBIB, NIEHS, NEI, NICHD, NHLBI, and NINDS.

#### Biophysical Chemistry (BBCB)

Scientific Review Administrator: Dr. Arnold Revzin

BBCB reviews applications in which the major emphasis is on the physical chemistry and structure of proteins, lipids, and other biopolymers, and includes X-ray crystallography, NMR, EPR, and spectroscopy. BBCB also reviews proposals for the development of biophysical instrumentation. A particular forte of BBCB is the area of macromolecular assemblies, including model membranes and muscle.

In FY 2004, BBCB primarily reviewed applications for NIGMS (58.7%), NIAID (7.0%), NCI (5.2%), NIDDK (5.2%), NIBIB (6.3%), and NHLBI (9.2%). It reviewed smaller numbers of applications for NIA, NIAMS, NIDCD, NIDCR, NIEHS, NEI, NICHD, and NINDS.

### Bioanalytical Engineering and Chemistry (BECM)

Scientific Review Administrator: Dr. Noni Byrnes

BECM primarily reviews applications in the following areas: analytical chemistry, clinical chemistry, micro and nanofabrication, biophysical and analytical technology, methods and instrument and device development for detection, identification and quantification of compounds of biomedical interest. These include mass spectrometry, proteomics, chromatography, capillary electrophoresis, microfluidics, lab-on-a-chip, microfabricated devices, optical spectroscopy, electrochemical methods, sensor development (optical, electrochemical, biosensor, immunosensor), surface modification, protein microarrays, and single cell analyses.

In FY 2004, BECM primarily reviewed applications for NIAID (7.1%), NCI (9.1%), NIBIB (26.8%), NIGMS (32.8%), and NCRR (7.1%). It reviewed smaller numbers of applications for NIA, NIDA, NIDDK, NIEHS, NHGRI, NHLBI, and NINDS.

### Metallobiochemistry (BMT)

Scientific Review Administrator: Dr. Janet Nelson

BMT reviews applications in bioinorganic and metallobiochemistry, including the following: metalloproteins, metalloenzymes, synthetic inorganic, and coordination chemistry; maintenance of metal ion homeostasis including receptor proteins involved in metal transport, trafficking and regulation; mechanistic, thermodynamic, and genetic characterization of metallobiopolymer structure and function; fundamental studies of the mechanisms of electron transfer; and multidisciplinary research involving mutagenesis, EPR, NMR, XAFS, and crystallography.

In FY 2004, BMT reviewed applications primarily for NIGMS (67.8%), NIAID (9.4%), NCI (5.4%), and NIDDK (7.4%). It also reviewed a small number of applications for NIA, NIBIB, NIEHS, NICHD, NHLBI, and NINDS.

### Bio-organic and Natural Products Chemistry (BNP)

Scientific Review Administrator: Dr. Mike Radtke

BNP reviews applications in the areas of bio-organic chemistry and natural products chemistry. The primary emphasis of the latter is on isolation and structure determination of natural products that are of medicinal importance. Synthetic and modeling studies are covered when they are part of the scope, as well as routine biochemical, biological, pharmacological, or chemotherapeutic evaluations. The focus is on understanding the chemistry of drug discovery and biological processes. BNP reviews peptide chemistry, enzyme mechanism and inhibitor studies, synthesis of nucleotides and nucleosides, carbohydrate chemistry, molecular

recognition experiments, medicinal chemistry, and the isolation and biosynthesis of natural products.

In FY 2004, BNP reviewed applications primarily for NIAID (17.6%), NCI (24.1%), and NIGMS (44.1%). However, it also reviewed small numbers of applications for NIA, NIAMS, NCCAM, NIDA, NIDDK, NIBIB, NICHD, NHLBI, NIMH, and NINDS.

### Medicinal Chemistry (MCHA)

Scientific Review Administrator: Dr. Robert Lees

MCHA reviews applications primarily concerned with the synthesis, reactions, and biochemical, biological, pharmacological or chemotherapeutic activity of low molecular weight compounds of natural or synthetic origin. These include drugs, hormones, vitamins, carbohydrates, fats, steroids, alkaloids, and terpenes.

In FY 2004, MCHA primarily reviewed applications for NIAID (5.7%), NIGMS (69.6%) and NCI (14.8%), and also reviewed small numbers of applications for NIDA, NIDCD, NIDDK, NIBIB, NIEHS, NICHD, NHLBI, and NINDS.

### Physical Biochemistry (PB)

Scientific Review Administrator: Dr. Gopa Rakhit

PB reviews applications relating to research in biochemistry with an orientation towards physical biochemistry. This includes chemical reactions in biological systems, including biochemical energetics, enzymology, and the structure-function relationships of biomolecules.

In FY 2004, PB reviewed applications primarily for NIGMS (70.4%), NIAID (9.1%), and NCI (7.1%). It also reviewed applications for NIAAA, NIA, NIAMS, NIDA, NIDDK, NIBIB, NIEHS, NEI, NICHD, NHGRI, NHLBI, and NINDS.

### Small Business Activities (SSS-L, SSS-6)

Scientific Review Administrators: Dr. Vonda Smith, Dr. Sergei Ruvinov

BPC reviews small business applications within the areas covered by its chartered study sections, including the following: analytical biochemistry; inorganic chemistry; biochemistry; theoretical, combinatorial, and computational chemistry; metallobiochemistry; biophysics; clinical assays (except immunoassays); analytical and clinical colorimetry, spectrophotometry and bioimaging, (except MRI), mass spectrometry, and chromatography (gas, liquid, HPLC, and thin layer); chemical sensors; clinical chemistry; *in vitro* and *in vivo* reagents. It also covers medicinal chemistry--synthetic, combinatorial, and natural product chemistry; pharmaceutical chemistry--prodrugs, diagnostics, formulations, controlled release, polymers, microcapsules, liposomes, and transdermals; pharmacology and toxicology as

applied to drug discovery; agents for bioremediation; and drug manufacturing and delivery equipment. Finally, small business proposals on molecular and structural biology, protein and nucleic acid structures and interactions are reviewed within the BPC IRG.

### Fellowships (F04A, F04B)

Scientific Review Administrators: Dr. David Jollie, Dr. Nuria Assa-Munt, Dr. Janet Nelson

F04A reviews fellowship applications covering the chemistry of biologically and medicinally important molecules. This includes the synthesis, isolation and structural determination of small molecules as well as the chemistry of drug discovery and biological processes; structure-function relationships of enzymes and metalloproteins by kinetic and substrate analog studies; characterization of the chemistry of biologically relevant macromolecules including biopolymers and biomaterials; and development of analytical instrumentation and biosensors.

F04B reviews fellowship applications covering structure and biophysical behavior and dynamics of biological macromolecules. This includes applications concerned with the structure-function relationships of proteins, nucleic acids, glycoproteins, lipid bilayers and membrane proteins; X-ray crystallography, multi-dimensional NMR, electron microscopy, circular dichroism, fluorescence, and computational methods; single molecule dynamics and interactions by fluorescence and microscopic techniques; and molecular interactions for defining and maintaining cellular shape and function.

### **Bioengineering Sciences and Technologies Integrated Review Group**

The Bioengineering Sciences and Technologies (BST) IRG reviews grant applications that focus on fundamental aspects of bioengineering and technology development in the following areas: gene and drug delivery systems, imaging principles for molecules and cells, modeling of biological systems, bioinformatics and computer science, statistics and data management, instrumentation, chips and microarrays, biosensors, and biomaterials. While biological context is important in bioengineering, a central premise in organizing this IRG is the need for effective review of bioengineering and technology development in early stages before specific practical uses are proven. Both research project and small business grant applications are reviewed in the BST study section. Study sections in this IRG held their first meetings in October and November 2003. In FY 2004, BST study sections reviewed 1,274 applications in 41 meetings. A total of 612 reviewers served on BST's review panels.

#### **IRG Staff:**

**Dr. Sally Amero**

**Chief**

Eulis Barclay  
David Benn<sup>#</sup>

Lead Grants Technical Assistant  
Grants Technical Assistant

Olsen Best #*	Grants Technical Assistant
Dr. Ping Fan	Scientific Review Administrator
Dr. Alexander Gubin	Scientific Review Administrator
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Dr. Malgorzata Klosek #	Scientific Review Administrator
Dr. Raj Krishnaraju #	CSR Review Internship Program
Dr. Alexander Liacouras	Scientific Review Administrator
Ronelle Lucas #*	Grants Technical Assistant
Olamide Oloko *	Grants Technical Assistant
Dr. Marc Rigas #	Scientific Review Administrator
Dr. Steven Zullo	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 20.** Applications reviewed by BST by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	58	239	248	545	42.8%
<b>Small business</b>	28	174	196	398	31.2%
<b>R21</b>	17	110	102	229	18.0%
<b>Other Research Projects (R03, R15, R33)</b>	4	7	12	23	1.8%
<b>Research Career Programs (K25)</b>	1	2	1	4	0.3%
<b>Research Program Projects and Centers (P41)</b>	0	1	0	1	0.1%
<b>Miscellaneous Mechanisms (S10, U54)</b>	0	15	59	74	5.8%
<b>Total</b>	<b>108</b>	<b>548</b>	<b>618</b>	<b>1,274</b>	<b>100%</b>

The Bioengineering Sciences and Technologies IRG has the following study sections:

Gene and Drug Delivery Systems (GDD)

Scientific Review Administrator: Dr. Steven Zullo

GDD reviews grant applications focused on the development and delivery of drugs, genes, and gene products that alter gene function or expression in the living organism. Research grant applications driven by bioengineering principle, design, or validation, but not necessarily driven by hypothesis, are expected. Areas include the use of new strategies and tools to alter gene function or expression.

In FY 2004, GDD reviewed applications primarily for NIAID (6.7%), NCI (17.7%), NIDDK (14.6%), NIBIB (26.2%), NIGMS (17.7%), and NHLBI (11.0%). It also reviewed small numbers of applications for NIAMS, NIDA, NEI, and NIMH.

Microscopic Imaging (MI)

Scientific Review Administrator: Dr. Sally Amero

MI reviews applications that aim to develop, improve and implement quantitative techniques for the static and dynamic visualization of molecules, macromolecular



machines and complexes, organelles, cells, and model systems in physiologically active states. Large animal and human studies are be considered in MI. Examples of methodologies relevant to MI include crystallography, transmission electron microscopy (TEM), electron cryomicroscopy, scanning electron microscopy (SEM), environmental scanning electron microscopy (ESEM), atomic force microscopy (AFM), scanning force microscopy (SFM), fluorescence microscopy and laser spectroscopy including microarray/chip analysis, confocal and scanning light microscopy, vibrational spectroscopic microscopy, multi-photon microscopy, x-ray microscopy, acoustic microscopy, nuclear magnetic resonance (NMR) and microscopic applications of magnetic resonance imaging (MRI). Imaging principles or instruments may be developed, and proposals need not be hypothesis-driven.

In FY 2004, MI reviewed applications for NCI (13.7%), NIBIB (44.2%), NIGMS (18.9%), and NCRR (8.4%). It also reviewed applications for NIAID, NCCAM, NIDCR, NIDDK, NEI, NHGRI, NHLBI, and NINDS.

### Modeling and Analysis of Biological Systems (MABS)

Scientific Review Administrator: Dr. Malgorzata Klosek

MABS reviews applications that develop modeling and/or enabling technologies for understanding the complexity of biological systems. Research grant applications driven by bioengineering principle, design, or validation, but not necessarily driven by hypothesis, are expected. The scope of interactions reviewed here ranges from molecular to supramolecular and cellular in prokaryotic and eukaryotic cells, and to organelle and to tissue in eukaryotic systems. For these applications, the integration of interactions through levels and scales and the emergence of patterns that help to explain system behavior are the ultimate goals for applying these tools.

In FY 2004, MABS primarily reviewed applications for NIAID (9.2%), NCI (6.7%), NIBIB (13.4%), and NIGMS (48.7%). It also reviewed smaller numbers of applications for NIAMS, NIDA, NIDDK, NIEHS, NHGRI, NHLBI, NIHM, NINDS, and NCRR.

### Biodata Management and Analysis (BDMA)

Scientific Review Administrator: Dr. Mark Rigas

BDMA reviews grant applications that aim to develop technologies for the management and analysis of basic biological data, i.e., bioinformatics, computational biology, and computer science. This includes the review of data management technology in support of large-scale data collection and integration efforts. Research grant applications driven by bioengineering principle, design, or validation, but not necessarily driven by hypothesis, are expected.

In FY 2004, BDMA reviewed applications primarily for NIAID (6.3%), NCI (7.3%), NIGMS (50.0%), NHGRI (10.9%), NCRR (6.3%) and NLM (7.8%). It

reviewed small numbers of applications for NIA, NIDA, NIDDK, NIBIB, NHLBI, NIMH and NINDS.

### Instrumentation and Systems Development (ISD)

Scientific Review Administrator: Dr. Ping Fan

ISD considers research applications seeking to design and develop novel instrumentation and systems for biological research. Although a test biological problem may be used to provide context, grant applications referred to this study section need not necessarily be hypothesis driven.

In FY 2004, ISD reviewed applications primarily for NIAID (7.5%), NCI (11.2%), NIBIB (32.1%), NIGMS (15.0%), NHGRI (11.8%), NHLBI (5.9%), and NCRR (7.5%). Also reviewed were small numbers of applications for NIDA, NIDCR, NIDDK, NIEHS, NEI, NICHD, NINDS, and the Food and Drug Administration (FDA).

### Biomaterials and Biointerfaces (BMBI)

Scientific Review Administrator: Dr. Alexander Gubin

BMBI reviews grant applications in materials science and the closely allied field of materials surfaces and their interactions with basic biological systems. The material aspects of biomaterials and surface science concern the design principles and theory and the synthesis, characterization, and optimization of new or existing materials including polymers, composites, metals, ceramics, nanomaterials, hybrid systems of natural and synthetic polymers, and biomimetics. The biological aspects of biomaterials science concern interactions of materials with proteins, membranes, cells, and tissues including studies related to scaffolds for tissue repair/tissue engineering, materials for bioreactors, biocompatibility issues, and microcirculation around implanted biomaterials. Grant applications concerned with biomaterials, biointerfaces, and biofunctional design need not be hypothesis driven, but may use known fundamental principles or theory to discover new basic approaches useful for understanding biological phenomena.

In FY 2004, BMBI reviewed applications primarily for NCI (7.6%), NIBIB (55.5%), NIGMS (16.0%), and NHLBI (5.0%). It also reviewed a small number of applications for NIAID, NIAMS, NIDA, NIDCR, NIDDK, NIEHS, NEI, NICHD, and NCRR.

### **Cell Development and Function Integrated Review Group**

The Cell Development and Function (CDF) IRG is mainly focused on fundamental aspects of cellular function in eukaryotic cells and tissues. These include the genesis, structure, and function of cells and organelles; cell compartmentalization and vesicular transport; cell motility; chromatin structure and function; transcription, DNA replication; RNA processing and stability; translational control; regulation of the cell cycle; cell death; cell-

cell and cell-substrate interactions; intracellular and intercellular signal transduction; growth factors; oncogene and tumor suppressor function in mitogenesis and transformation; membrane transport processes; some aspects of developmental biology; and differentiation of cells and tissues. In FY 2004, CDF study sections held 58 meetings and reviewed 2,020 applications. A total of 646 reviewers served on CDF review panels.

**IRG Staff:**

**Dr. Marcia Steinberg**

**Chief**

Dr. Alexandra Ainsztein	Scientific Review Administrator
Dr. Michael Chaitin	Scientific Review Administrator
Dr. Richard Currie	Scientific Review Administrator
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Dr. Richard Rodewald	Scientific Review Administrator
Wykena Waiters	Grants Technical Assistant
Dr. Sandy Warren *	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 21.** Applications reviewed by CDF by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	351	498	387	1,236	61.2%
<b>Small Business</b>	47	24	30	101	5.0%
<b>R21</b>	36	46	23	105	5.2%
<b>Other Research Projects (R03, R13, R15, R24, R37)</b>	21	17	24	62	3.1%
<b>Fellowship Program (F31, F32, F33)</b>	81	180	150	411	20.3%
<b>Research Program Projects and Centers (P01, P41)</b>	3	1	2	6	0.3%
<b>Miscellaneous Mechanisms (S10, U01)</b>	80	0	19	99	4.9%
<b>Total</b>	<b>619</b>	<b>766</b>	<b>635</b>	<b>2,020</b>	<b>100%</b>

The Cell Development and Function IRG has the following study sections:

Cell Development and Function 1 (CDF-1)

Scientific Review Administrator: Dr. Richard Currie

CDF-1 addresses molecular mechanisms of eukaryotic gene regulation and related cellular functions.

In FY 2004, CDF-1 primarily reviewed applications for NIGMS (78.1%) and NCI (8.5%). It also reviewed a small number of applications for NIA, NIAID, NIDDK, NIBIB, NIEHS, NICHD, NHLBI, NINDS, and NCRR.

Cell Development and Function 2 (CDF-2)

Scientific Review Administrator: Dr. Ramesh Nayak

CDF-2 addresses mechanistic and structural aspects of membrane biology, cell motility, cell division, molecular mechanisms of eukaryotic gene regulation, and basic cellular and molecular aspects of cell senescence.

In FY 2004, CDF-2 primarily reviewed applications for NIGMS (73.6%) and NCI (14.1%). It reviewed smaller numbers of applications for NIA, NIAID, NIDDK, NIBIB, NIEHS, NEI, NICHD, NHGRI, NHLBI, and NINDS.

Cell Development and Function 3 (CDF-3)

Scientific Review Administrator: Dr. Gerhard Ehrenspeck

CDF-3 addresses growth and phenotypic expression of cells *in vitro*, regulation of the cell cycle, and structure and function of the plasma membrane.

In FY 2004, CDF-3 reviewed applications primarily for NCI (40.3%), NIGMS (45.4%) and NIAID (5.6%), but also reviewed small numbers of applications for NIAMS, NIDCD, NIDCR, NIDDK, NIEHS, NHLBI, NIMH, and NINDS.

Cell Development and Function 4 (CDF-4)

Scientific Review Administrator: Dr. Alexandra Ainsztein

CDF-4 addresses cell motility; cell compartmentalization and vesicular transport mechanisms; cell-cell and cell-substrate interactions, signaling, and developmental biology.

In FY 2004, CDF-4 primarily reviewed applications for NIGMS (74.8%) and NCI (8.7%), and also reviewed smaller numbers of applications for NIAAA, NIAID, NIAMS, NIDDK, NIBIB, NEI, NICHD, NHLBI, and NINDS.

Biology and Diseases of the Posterior Eye (BDPE)

Scientific Review Administrator: Dr. Michael Chaitin

BDPE (formerly VISCS) reviews applications for basic, applied, and clinical research on the posterior portion of the eye, i.e., those that are focused on the structure, function, and disorders of the retina, retinal pigmented epithelium, choroid, and retinal vasculature. It also addresses related disorders such as degenerative and vascular diseases and the retinal involvement in diabetes.

In FY 2004, BDPE primarily reviewed applications for NEI (97.2%), but also reviewed a small number of applications for NIDCD, NIDDK, NIGMS, NHLBI, and NINDS.

#### Small Business Activities (SSS-U)

Scientific Review Administrator: Dr. Marcia Steinberg

SSS-U reviews proposals from the small business community that involve use or development of instrumentation for light, electron, and confocal microscopy, flow cytometry, high throughput screening and image analysis using specific natural or synthetic contrast agents. Often applications will contain complementary innovative technology or software development for analysis of cellular processes or three-dimensional images. New products or processes are the anticipated outcomes of these proposals. In addition, applications are accepted from the small business community in the full range of research areas in cell biology reviewed in other CDF study sections.

#### Fellowships (F05)

Scientific Review Administrator: Dr. Richard Rodewald

F05 focuses on molecular, cellular, and developmental biology of cells and tissues. This includes most aspects of the genesis, structure, and function of the following: cells and cell organelles; cell compartmentalization and vesicular transport; cell motility; gene expression, including structure and function of chromatin, transcription, RNA processing and stability, and translation; regulation of the cell cycle, cell death, and cell senescence; cell-cell and cell-substrate interactions; intracellular and intercellular signal transduction; the structure and function of membrane transport processes; and cellular and developmental biology, including molecular/cellular embryogenesis, induction, pattern formation, and differentiation of cells and tissues. F05 also reviews fellowships in the area of posterior eye cell biology.

#### **Genetic Sciences Integrated Review Group**

The Genetic Sciences (GNS) IRG reviews grant applications in all areas of genetic and genomic analysis. This includes basic studies in model systems, as well as studies in humans directly related to genetic diseases and other inherited traits. In addition to proposals involving laboratory-based techniques, those focusing on areas such as

quantitative, evolutionary, and statistical genetics are reviewed here. Technology development in areas related to genomics and genetics, including bioinformatics, is also covered in this IRG. Finally, applications addressing the ethical, legal, and social implications of human genetic studies are reviewed within the GNS IRG. In FY 2004, GNS study sections held 55 meetings and reviewed 1,603 applications. A total of 500 reviewers served on GNS review panels. Study sections in this IRG held their final meetings in June 2004.

**IRG Staff:**

**Dr. Camilla Day** **Chief**  
**Dr. Richard Panniers** **Chief**

Dr. Sally Amero	Scientific Review Administrator
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Dr. Cheryl Corsaro	Scientific Review Administrator
Dr. Richard Currie	Scientific Review Administrator
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Dr. Mary McCormick	Scientific Review Administrator
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Dr. Ken Nakamura	Scientific Review Administrator
Taiwo Oladapo *	Grants Technical Assistant
Dr. Rudy Pozzatti	Scientific Review Administrator
Dr. David Remondini	Scientific Review Administrator
Diana Robinson	Grants Technical Assistant
Pamela Selllman	Grants Technical Assistant
Daniel Smith *	Grants Technical Assistant
Dr. Michael Sveda	Scientific Review Administrator
Dr. Barbara Whitmarsh	Scientific Review Administrator

\* Left CSR in fiscal year 2004

**Table 22.** Applications reviewed by GNS by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	280	298	256	834	52.0%
<b>Small Business</b>	95	87	57	239	14.9%
<b>R21</b>	34	26	30	90	5.6%
<b>Other Research Projects (R03, R13, R15, R24, R25, R33, R37)</b>	29	27	11	67	4.2%
<b>Fellowship Programs (F30, F31, F32)</b>	78	101	111	290	18.1%
<b>Research Career Programs (K01, K08, K22, K23, K25)</b>	3	3	1	7	0.4%
<b>Research Program Projects and Centers (P01, P40)</b>	2	0	2	4	0.2%
<b>Miscellaneous Mechanisms (S10, U01)</b>	35	0	37	72	4.5%
<b>Total</b>	<b>556</b>	<b>542</b>	<b>505</b>	<b>1,603</b>	<b>100%</b>

The Genetic Sciences IRG has the following study sections:

Ethical, Legal and Social Issues of Human Genetics (ELSI-1)

Scientific Review Administrators: Dr. Cheryl Corsaro, Dr. Rudy Pozzatti

The ELSI-1 Special Emphasis Panel reviews ethical, legal, and social implications of human genetics, including the following: 1) psychosocial, ethical, and legal issues for both consumers and professionals in testing for genetic diseases including cancer; 2) sociological/anthropological studies related to human genetics; 3) philosophical studies; and 4) genetic policy studies; and history of science studies. ELSI-1 held its last meeting as part of the GNS IRG in June 2004.

In FY 2004, ELSI-1 reviewed applications primarily for NCI (6.3%) and NHGRI (92.1%), but also reviewed applications for NINR.

Genetics (GEN)

Scientific Review Administrator: Dr. David Remondini

GEN reviews applications dealing with hereditary aspects of all biological systems that could be useful in elucidating basic or fundamental principles applicable to biomedical science. The commonly used organisms include but are not limited to the following: Drosophila and other insects; yeast and other fungi; nematodes; Arabidopsis, maize, Chlamydomonas, and other plants; Zebra fish; amphibians; and birds. GEN held its last meeting in June 2004.

In FY 2004, GEN primarily reviewed applications for NIGMS (78.4%), and NIAID (7.8%), but also reviewed a small number of applications for NIAAA, NIAMS, NCI, NIDA, NIDCR, NIDDK, NIEHS, NEI, NICHD, NHGRI, and NINDS.

Genome (GNM)

Scientific Review Administrators: Dr. Sally Amero, Dr. Camilla Day

GNM reviews applications focused on genomics, genetics, technology development, and informatics. These studies can focus on the human and/or model organisms. GNM held its last meeting in June 2004.

In FY 2004, GNM primarily reviewed applications for NCI (6.6%), NIGMS (26.2%), NHGRI (25.8%), and NIMH (10.7%). It also reviewed a small number of applications for NIAAA, NIA, NIAID, NIAMS, NIDCD, NIDCR, NIDDK, NIBIB, NIEHS, NEI, NICHD, NHLBI, NINDS, NCRR, and NLM.

Gene Therapy Inborn Errors (GTIE)

Scientific Review Administrators: Dr. Camilla Day, Dr. Barbara Whitmarsh

The GTIE Special Emphasis Panel reviews applications focused on the molecular genetic basis of metabolic diseases, including inborn errors of metabolism and associated enzymology. GTIE held its last meeting as part of the GNS IRG in June 2004.

### Mammalian Genetics (MGN)

Scientific Review Administrator: Dr. Cheryl Corsaro

MGN reviews both medical and basic studies of humans and other mammals where the major emphasis is on genetic approaches. MGN held its last meetings in June 2004.

In FY 2004, MGN primarily reviewed applications for NCI (6.8%), NIDDK (7.2%), NIGMS (12.3%), NICHD (13.6%), NHLBI (10.2%), NIMH (12.3%) and NINDS (11.9%). It also reviewed a small number of applications for NIAAA, NIA, NIAID, NIAMS, NIDA, NIDCD, NIDCR, NEI, NHGRI, and NCRR.

### Fellowships (F08)

Scientific Review Administrator: Dr. Mary McCormick

F08 reviews fellowship applications in prokaryotic and eukaryotic genetics and molecular biology. This involves several overlapping scientific disciplines employing a large variety of prokaryotic and eukaryotic biological systems (e.g., animals, bacteria, fungi, parasites, plants, viruses, etc), particularly at the molecular level.

## **Molecular, Cellular and Developmental Neuroscience Integrated Review Group**

The Molecular, Cellular, and Developmental Neuroscience (MDCN) IRG reviews applications on the structure and function of neuronal, glial, and other excitable cells, as well as the development of both the central and the peripheral nervous systems, inclusive of the visual system and other excitable cells. Excitable cells, in addition to neural cells, include endocrine and neuroendocrine cells, pancreatic beta-cells, chromaffin cells, muscle cells, neuromuscular junctions, etc. Areas of interest include the functional characteristics of ion channels, the mechanisms by which extra- and intracellular signals are transduced and the functional characteristics of the transducers themselves, general mechanisms underlying the process of cell death, analyses of neural cell lineage, factors that specify or influence neuronal migration pathways or axonal pathfinding, processes that involve the maturation of neurons and glia, the formation of patterns and boundaries that lead to the development of adult brain regions and nuclei, and other aspects of the basic cellular and molecular physiology of neurons and glia. Projects reviewed in MDCN may be relevant to disorders or injuries, but their emphasis lies less in gaining an understanding of the disorder or its manifestations than on revealing the basic biological processes that underlie or may be altered in disorder. In FY 2004, MDCN study sections held 85 meetings and reviewed 2,428 applications. A total of 861 reviewers served on MDCN review panels.



**IRG Staff:**

**Dr. Carole Jelsema**

**Chief**

Dr. Lawrence Baizer	Scientific Review Administrator
Dr. Carl Banner	Scientific Review Administrator
Dr. Toby Behar #	Scientific Review Administrator
Dr. Mary Custer	Scientific Review Administrator
Manuel Dunbar	Grants Technical Assistant
Dr. Robert Elliott #	Scientific Review Administrator
Ramona Erazo *	Grants Technical Assistant
Dr. Joanne Fujii	Scientific Review Administrator
Dr. Peter Guthrie	Scientific Review Administrator
Dr. Syed Husain	Scientific Review Administrator
Yvonne Kubi *	Grants Technical Assistant
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Tyrone Smith	Grants Technical Assistant
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Deborah Welty	Lead Grants Technical Assistant
Donnell Wilson # *	Grants Technical Assistant

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 23.** Applications reviewed by MDCN by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	435	535	495	1,465	60.3%
<b>Small Business</b>	43	44	34	121	5.0%
<b>R21</b>	95	105	118	318	13.1%
<b>Other Research Projects (R03, R13, R15, R37)</b>	35	39	33	107	4.4%
<b>Fellowship Program (F30, F31, F32, F33)</b>	121	142	131	394	16.2%
<b>Research Career Programs (K01, K02, K08)</b>	5	5	6	16	0.7%
<b>Research Program Projects and Centers (P01, P20, P41)</b>	1	4	2	7	0.3%
<b>Total</b>	<b>735</b>	<b>874</b>	<b>819</b>	<b>2,428</b>	<b>100%</b>

The Molecular, Cellular and Developmental Neuroscience IRG has the following study sections:

Synapses, Cytoskeleton, and Trafficking (SYN)

Scientific Review Administrator: Dr. Carl Banner

SYN (formerly MDCN-1) reviews applications on the basic cell biology of nerve, muscle and other excitable cells, including synaptic plasticity, protein and organelle trafficking, cell surface, and extracellular matrix molecules in cell recognition and

function; and cytoskeletal functions across the life span. Emphasis is on fundamental mechanisms of excitable cell function, including those relevant to disease processes.

In FY 2004, SYN primarily reviewed applications for NIA (10.2%), NICHD (5.3%), NIMH (22.0%), and NINDS (49.8%). It also reviewed a small number of applications for NIAID, NCI, NIDA, NIDCD, NIDDK, NIEHS, NEI, NIGMS, and NHLBI.

#### Neurodegeneration and the Biology of Glia (NDBG)

Scientific Review Administrators: Dr. Carole Jelsema, Dr. Toby Behar

NDBG (formerly MDCN-2) reviews applications on neurodegeneration and programmed cell death; mapping novel transcripts and functional analysis of cloned gene products involved in cell survival or death; aspects of oxidative metabolism; glial-neuronal interactions (Schwann cells, oligodendrocytes, astrocytes, microglia); mechanisms of glial differentiation, metabolism, and myelination; neuroimmune function across the life span. The roles of genetic factors, trophic molecules and extrinsic influences (including toxins, hormones, and addictive substances) in these processes, and aspects of disease, injury, repair and interventional strategies are considered.

In FY 2004, NDBG reviewed applications primarily for NIA (21.8%) and NINDS (69.6%), but also reviewed applications for NCCAM, NCI, NIDA, NIDDK, NIEHS, NIGMS, NICHD, NHLBI, NIMH, and NINR.

#### Biophysics of Synapses, Channels and Transporters (BSCT)

Scientific Review Administrator: Dr. Michael Lang

BSCT (formerly MDCN-3) reviews applications on signal transduction in nerve, muscle, and other excitable cells, with the primary focus on the structure and function of the transducers themselves. This includes basic studies of subunit structure, molecular dynamics, gating and selectivity, and second-messenger cascades. General approaches may include molecular and structural biology, pharmacology, biophysics, electrophysiology, and protein chemistry, imaging and labeling techniques. Emphasis is on fundamental molecular mechanisms, including those relevant to disease processes.

In FY 2004, BSCT reviewed applications primarily for NIDA (5.1%), NIGMS (25.0%), NHLBI (5.1%), NIMH (11.8%), and NINDS (46.3%). It also reviewed a small number of applications for NIA, NIAID, NIDCD, NIDDK, and NICHD.

#### Neurotransmitters, Receptors, and Calcium Signaling (NTRC)

Scientific Review Administrator: Dr. Peter Guthrie

NTRC (formerly MDCN-4) reviews studies on signal transduction pathways in neurons, muscles, and other excitable cells with particular emphasis on cellular regulation and physiology. This includes studies on calcium physiology, regulation of ionic gradients, ion pumps and molecular transporters, ion channels, and synthesis and regulation of transduction molecules. Studies may integrate molecular, cellular, electrophysiological, and imaging approaches to examine molecular regulation, transduction, biochemical changes, cellular physiology, and functional consequences. Emphasis is on fundamental cellular mechanisms, including those relevant to disease processes.

In FY 2004, NTRC reviewed applications primarily for NIDA (5.1%), NIGMS (5.1%), NIMH (21.7%), and NINDS (56.6%). It also reviewed a smaller number of applications for NIA, NIAMS, NCI, NIDCD, NIDDK, NEI, NICHD, NHLBI and NCRR.

### Molecular Neuropharmacology and Signaling (MNPS)

Scientific Review Administrator: Dr. Syed Husain

MNPS (formerly MDCN-5) reviews projects on neuronal and muscle signal transduction and neurotransmitters with a particular focus on neurochemical and pharmacological mechanisms. This includes studies of ligand interactions, neuromodulator interactions, neurotransmitter metabolism, and the development of therapeutic compounds. Emphasis is on fundamental cellular mechanisms, including those relevant to disease processes.

In FY 2004, MNPS primarily reviewed applications for NIDA (40.4%), NIMH (25.8%), and NINDS (21.0%), but also reviewed a small number of applications for NIAAA, NIA, NCCAM, NCI, NIDCR, NIDDK, NIEHS, NIGMS, NICHD, and NHLBI.

### Neurogenesis and Cell Fate (NCF)

Scientific Review Administrator: Dr. Lawrence Baizer

NCF (formerly MDCN-6) reviews applications concerned with the initial formation of cells, as well as cell specification, determination, and differentiation in the developing nervous system. Areas to be included are as follows: regulation of the cell cycle; induction of neural tissue; brain region specification and patterning; stem cell and progenitor cell proliferation, migration, and phenotypic determination; development and regulation of circadian rhythms and oscillatory processes; and neuronal and glial differentiation. There is emphasis on fundamental mechanisms underlying these processes in normal development, and in responses to disease, injury, and extrinsic factors, including circadian events and prenatal exposure to drugs.

In FY 2004, NCR primarily reviewed applications for NICHD (11.1%), NIMH (12.3%), and NINDS (60.1%). It also reviewed applications for NIA, NIAID, NCI, NIDA, NIDCD, NIDCR, NIDDK, NIEHS, NEI, NIGMS, and NHLBI.

#### Neurodifferentiation, Plasticity, and Regeneration (NDPR)

Scientific Review Administrator: Dr. Joanne Fujii

NDPR (formerly MDCN-7) reviews applications focused on differentiation, plasticity, aging and regeneration of neuronal connectivity. This area includes process outgrowth, axon guidance, selection of synaptic targets, dendrite differentiation, establishment of neural maps, and formation and elimination of synaptic connections. Emphasis is on fundamental mechanisms underlying these processes in normal development and aging, and in response to disease, injury, and extrinsic factors, including prenatal exposure to drugs. The study section also reviews studies of the reestablishment of connectivity in aging, disease, and following injury, but with a focus on the analysis of cellular and molecular mechanisms that stimulate, inhibit, or otherwise perturb process growth and synapse formation.

In FY 2004, NDPR primarily reviewed applications for NEI (10.3%), NICHD (8.5%), NIMH (12.1%), and NINDS (59.4%). It also reviewed smaller numbers of applications for NIA, NIAMS, NCCAM, NIDA, NIDCD, NIBIB, NIGMS, and NHLBI.

#### Neuroinformatics/Neuroengineering (MDCN-C, MDCN-G)

Scientific Review Administrators: Dr. Mary Custer, Dr. Peter Guthrie

The MDCN-C and MDCN-G (formerly SSS-E) Special Emphasis Panels review neurotechnology, neuroinformatics and bioengineering applications within the areas covered by MDCN's chartered study sections.

#### Small Business Activities (MDCN 10)

MDCN (10) reviews small business applications within the areas covered by the MDCN IRG. The main focus is on the molecular and cellular level. In general, the projects involve development of devices, reagents, and software to probe channels, signal transduction, and the transducers themselves. Studies may involve basic biological processes that underlie or may be altered by disease processes. Examples of devices might include development of imaging and recording techniques; analytical and system controlling software; monitoring and assay platforms; neuroprosthetic devices; biosensors; and stem cells and cell culture systems. Projects might also focus on drug discovery and development; molecular manipulation and engineering; development of specific research reagents and assays; therapeutics; and proteins that interact with and modulate receptors, transporters and transducers.

Fellowships (F03A, F03B)

Scientific Review Administrators: Dr. Carole Jelsema, Dr. Mary Custer

The F03A study section reviews fellowship applications on the basic cellular and molecular biology of neuronal, glial, retinal and other excitable cells (including chromaffin cells, neuroendocrine cells and muscle cells); the fundamental mechanisms of neuronal cell function, including those relevant to disease processes; the general mechanisms underlying cell death; the mechanisms underlying the initial formation of, as well as cell specialization and differentiation in the developing nervous system; the mechanisms underlying oscillatory events; and the mechanisms that specify or influence migratory events and the development, aging, and regeneration of neuronal connectivity.

F03B's areas of interest include the basic cellular and molecular physiology of neurons, glial, retinal, and other excitable cells (including chromaffin cells, neuroendocrine cells and muscle cells); the structural and functional characteristics of ion channels and transporters; the mechanisms by which extra- and intracellular signals are transduced; the structure and function of the transducers themselves; cellular regulation/physiology; neurochemical and pharmacological mechanisms; and the development of therapeutic compounds.

## **Division of Physiology and Pathology**

The Division of Physiology and Pathology (DPP) is responsible for the merit review of a wide range of science. A hallmark of the Division is the focus on the integrative biology of organs and tissues, including normal growth, development, structure, and function as well as translational and clinical studies of disease states and their treatment. Investigators may employ a broad range of basic and clinical research methods including pharmacologic, chemical and biochemical approaches, genetics, genomics and proteomics, molecular and cell biology techniques, and animal models.

At the close of fiscal year 2004 DPP consisted of seven IRGs: 1) Cardiovascular Sciences (CVS); 2) Digestive Sciences (DIG); 3) Hematology (HEME); 4) Integrative, Functional, and Cognitive Neuroscience (IFCN); 5) Musculoskeletal Oral and Skin Sciences (MOSS); 5) Renal and Urological Sciences (RUS); Respiratory Sciences (RES). In FY 2004, DPP study sections held a total of 411 meetings and reviewed 9,367 applications.

### **Changes in the Division in FY 2004**

At the beginning of FY 2004, DPP consisted of six IRGs, including the Pathophysiological Sciences (PPS) IRG. As part of the reorganization of study sections, the science within the PPS IRG was distributed to two new IRGs: Digestive Sciences (DIG) and Respiratory Sciences (RES). Implementation of the study sections within these two new IRGs brought to a close the reorganization of the Division as defined by the Panel on Scientific Boundaries of Review. In addition, after community consultation, a Special Emphasis Panel on Clinical Hematology was created in the HEME IRG to address a gap in IRG boundaries.

### **Anticipated Changes in FY 2005**

Early in FY 2005 a new study section within the MOSS IRG called Musculoskeletal Tissue Engineering (MTE) will begin operation. This study section was created in response to the growing workload in this new area and involved extensive community outreach in its formation.

### **Review Staff Personnel Changes in FY 2004**

The following SRA left DPP in fiscal year 2004: Dr. Jeff DeClue (MOSS IRG). DPP recruited eight new SRAs in FY 2004: Drs. Larry Boerboom (CVS), Michael Selmanoff (IFCN), Joe Rudolph (IFCN), Richard Bartlett (MOSS), Aftab Ansari (MOSS), Mehrdad Tondravi (MOSS), M. Chris Langub (RUS), and Ghenima Dirami (RES).

**Division Staff:**

**Dr. Michael Martin**

**Director**

Janet Bens \*  
 Karen Bowers  
 Lisa Klingensmith  
 Holley Sullivan<sup>#\*</sup>  
 Linda Thee

Office Automation Clerk  
 Technical Writer and Editor  
 Administrative Review Assistant  
 Grants Clerk  
 Review Technology Assistant

<sup>#</sup> *Joined CSR in fiscal year 2004*

<sup>\*</sup> *Left CSR in fiscal year 2004*

**Cardiovascular Sciences Integrated Review Group (prior to February 2004)**

Prior to FY 2004, the Cardiovascular Sciences (CVS) IRG included both cardiovascular and hematology study sections. Early in 2003, the new HEME IRG formed, pulling the hematology applications from the original CVS IRG, but leaving the cardiovascular study sections unchanged. This latter group of study sections held their final meetings in the fall of 2003 and then reformed themselves into a new set of study sections in February 2004 (see below). In FY 2004, the original CVS IRG reviewed 539 applications in 21 meetings, and 264 reviewers served on its review panels.

**IRG Staff:**

**Dr. Joy Gibson**

**Chief**

Patricia Barbee  
 Dr. Anshumali Chaudhari  
 Luis Cordeiro  
 Barbara Dickson-Carter  
 Dr. Russell Dowell  
 James Ferguson  
 Keith Hampden <sup>#</sup>  
 Chadrick Kelly  
 James Kim <sup>#\*</sup>  
 Julie Nguyen <sup>\*</sup>  
 Stacy Noble  
 Iris Perry  
 Dr. Larry Pinkus  
 Franklin Porter <sup>\*</sup>

Grants Review Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Grants Technical Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant  
 Grants Technical Assistant  
 Grants Technical Assistant  
 Grants Technical Assistant  
 Grants Technical Assistant  
 Lead Grants Technical Assistant  
 Grants Technical Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant

<sup>\*</sup> *Left CSR in fiscal year 2004*

<sup>#</sup> *Joined CSR in fiscal year 2004*

**Table 24.** Applications reviewed by the original CVS by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	448	--	--	448	83.1%
<b>Small Business</b>	36	--	--	36	6.7%
<b>R21</b>	35	--	--	35	6.5%
<b>Other Research Projects (R03, R13, R15, R24, R37)</b>	19	--	--	19	3.5%
<b>Research Career Programs (K24)</b>	1	--	--	1	0.2%
<b>Total</b>	<b>539</b>	<b>--</b>	<b>--</b>	<b>539</b>	<b>100%</b>

The original Cardiovascular Sciences IRG has the following study sections:

#### Cardiovascular (CVA)

Scientific Review Administrator: Dr. Anshumali Chaudhari

CVA reviews applications on the basic and clinical aspects of heart function (mechanical and electrical) in normal and disease states. This includes the genetic basis of cardiac disease, gene therapy, changes in function associated with maturation and aging, and excitation-contraction coupling in skeletal and cardiac muscle. The research may involve experimental animals, human subjects, isolated hearts (*in situ* and *in vitro*), isolated tissue, cell culture and/or myofilaments. Functional assessment may be via physiological, biophysical, biochemical, bioengineering, modeling, histological, pathological, radiological, magnetic resonance, and/or ultrasound techniques. This study section held its last meeting in October 2003.

In FY 2004, CVA primarily reviewed applications for NHLBI (93.5%), but also reviewed a small number of applications for NIA, NIAMS, and NIEHS.

#### Cardiovascular and Renal (CVB)

Scientific Review Administrator: Dr. Russell Dowell

CVB reviews applications that deal with basic and clinical aspects of cardiovascular function in normal and potentially pathogenic processes including hypertension, diabetes, and aging. It includes studies that pertain to renal hemodynamics and function as related to hypertension, including signaling processes, endogenous vasoactive substances, and their mechanism of action. This study section held its last meeting in October 2003.

In FY 2004, CVB reviewed applications for NHLBI (78.9%), NIDDK (8.9%), and NIA (5.6%). It also reviewed applications for NIAAA, NIAMS, NCCAM, NIDA, NIBIB, and NIGMS.

#### Experimental Cardiovascular Sciences (ECS)



Scientific Review Administrator: Dr. Anshumali Chaudhari

ECS reviews applications focused on the basic and clinical aspects of the circulation and blood vessels in normal and diseased states, as well as the neural control of blood vessel and heart function. Also reviewed by ECS are applications aimed toward understanding 1) the molecular mechanisms underlying the vascular smooth muscle and endothelial cell function; 2) some aspects of pathophysiology of hypertension and of atherosclerosis; and 3) basic molecular mechanisms underlying normal angiogenesis and vasculogenesis. This study section held its last meeting in October 2003.

In FY 2004, ECS reviewed applications primarily for NHLBI (82.4%) and NIDDK (7.1%) and also reviewed small numbers of applications for NIA, NIAMS, NCI, and NINDS.

#### Pathology A (PTHA)

Scientific Review Administrator: Dr. Larry Pinkus

PTHA reviews applications in: the cell biology, development, and pathology of the non-pulmonary vasculature; nephrogenesis; and renal immunopathology and renal failure. This study section held its last meeting in October 2003.

In FY 2004, PTHA reviewed applications primarily for NIDDK (34.0%) and NHLBI (56.0%). It reviewed smaller numbers of applications for NIA, NIAID, NIAMS, NCI, NIGMS, and NINDS.

#### Pharmacology (PHRA)

Scientific Review Administrator: Dr. Joyce Gibson

PHRA reviews applications in the area of cardiovascular pharmacology, drug metabolism, and drug delivery. This study section held its last meeting in October 2003.

In FY 2004, PHRA primarily reviewed applications for NIGMS (38.1%), NHLBI (25.4%), NCI (7.9%), NIDDK (9.5%), and NIBIB (6.3%). It also reviewed applications for NIAID, NCCAM, NIDA, NIEHS, NICHD, and NCRR.

#### Clinical Cardiovascular Sciences (CCVS)

Scientific Review Administrator: Dr. Russell Dowell

The CCVS Special Emphasis Panel covers patient-oriented research in all of the scientific fields covered by the CVS IRG. Patient-oriented research is defined as research conducted with human subjects (or on material of human origin such as tissues, specimens and cognitive phenomena) involving direct interactions with human subjects. This study section held its last meeting in October 2003.

In FY 2004, C CVS reviewed applications primarily for NHLBI (75.6%) and NIDDK (12.2%), and also reviewed a small number of applications for NIA, NIAMS, NCCAM, and NICHD.

### **Cardiovascular Sciences Integrated Review Group (after February 2004)**

The reorganized Cardiovascular Sciences (CVS) IRG considers research applications that employ basic investigations, translational approaches, and patient-oriented studies to focus on the development, physiology, and pathophysiology of the heart and circulatory systems. Study sections are organized around themes of development, muscle contraction including cardiac hypertrophy and failure, cardiovascular electrophysiology and arrhythmias, myocardial ischemia and infarction, vascular hemodynamics and hypertension, neural and integrative systems physiology, inflammation and atherosclerosis, and vascular cell and molecular biology. Investigators may employ a range of approaches that include genetics, genomics and proteomics, molecular, cell, and computational biology, biochemistry, biophysics and bioengineering, imaging, analyses of model organisms, and human studies. The reorganized study sections in CVS held their first meetings in February 2004, and reviewed 1,804 applications in 55 meetings. A total of 513 reviewers served on these panels.

#### **IRG Staff:**

##### **Dr. Joy Gibson**

##### **Chief**

Patricia Barbee	Grants Review Assistant
Dr. Lawrence Boerboom #	Scientific Review Administrator
Dr. Anshumali Chaudhari	Scientific Review Administrator
Luis Cordeiro	Grants Technical Assistant
Barbara Dickson-Carter	Grants Technical Assistant
Dr. Russell Dowell	Scientific Review Administrator
James Ferguson	Grants Technical Assistant
Keith Hampden #	Grants Technical Assistant
Chadrick Kelly	Grants Technical Assistant
James Kim #*	Grants Technical Assistant
Dr. Rajiv Kumar	Scientific Review Administrator
Julie Nguyen *	Grants Technical Assistant
Stacy Noble	Lead Grants Technical Assistant
Iris Perry	Grants Technical Assistant
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Franklin Porter *	Grants Technical Assistant
Dr. Olga Tjurmina #	CSR Review Internship Program
Dr. Ai-Ping Zou	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 25.** Applications reviewed by the reorganized CVS by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	--	529	465	994	78.6%
<b>Small Business</b>	--	49	54	103	8.1%
<b>R21</b>	--	38	52	90	7.1%
<b>Other Research Projects (R03, R15, R24, R37)</b>	--	11	14	25	2.0%
<b>Miscellaneous Mechanisms (S10, U01)</b>	--	2	51	53	4.2%
<b>Total</b>	--	<b>629</b>	<b>636</b>	<b>1,265</b>	<b>100%</b>

The reorganized Cardiovascular Sciences IRG has the following study sections:

#### Cardiovascular Differentiation and Development (CDD)

Scientific Review Administrator: Dr. Larry Pinkus

CDD reviews applications concerning normal and abnormal development and differentiation of the heart, vascular and lymphatic systems. This focus includes stem and progenitor cells, tissue interactions, morphogenetic processes, and regulation of differentiation in humans and model organisms. This study section held its first meeting in February 2004.

In FY 2004, CDD primarily reviewed applications for NHLBI (87.8%), but also reviewed a small number of applications for NIAAA, NCI, NIDDK, NIBIB, NIEHS, and NIGMS.

#### Cardiac Contractility, Hypertrophy, and Function (CCHF)

Scientific Review Administrator: Dr. Russell Dowell

CCHF reviews applications involving both basic and applied aspects of the heart that focus on contractile function and dysfunction, including studies of hereditary and acquired cardiac hypertrophy and failure, at levels ranging from molecular assemblies to the intact organ. This study section held its first meeting in February 2004.

In FY 2004, CCHF mainly reviewed applications for NHLBI (88.5%) and NIA (5.1%). It also reviewed applications for NIAAA, NIAMS, NCI, NIDA, NIBIB, NIEHS, and NIGMS.

#### Electrical Signaling, Ion Transport, and Arrhythmias (ESTA)

Scientific Review Administrator: Dr. Rajiv Kumar

ESTA reviews both basic and clinical applications related to cardiac and vascular electrical activity, excitation-contraction coupling, and related signaling. This study section reviews applications that address the occurrence, cause, and treatment of cardiac and vascular electrical and electromechanical dysfunction, arrhythmias,

and sudden death. Studies may involve animals and humans, *in vitro* and *in vivo* systems, and computational approaches. Where appropriate, studies will be considered that examine the effects of aging on arrhythmias, calcium homeostasis, and excitability. This study section held its first meeting in February 2004.

In FY 2004, ESTA reviewed applications primarily for NHLBI (91.2%), but also reviewed small numbers of applications for NIAAA, NIA, NIAMS, NIDA, NIBIB, NIGMS, and NCRR.

### Vascular Cell and Molecular Biology (VCMB)

Scientific Review Administrator: Dr. Anshumali Chaudhari

VCMB reviews applications involving the cell and molecular biology of blood vessels ranging from major arteries to the microcirculation. Studies using cellular, biochemical, biophysical, immunological, genetic, pharmacological, and molecular biological approaches to define vascular homeostasis and dysfunction are reviewed. A principal focus is on the biology of the endothelium, vascular smooth muscle cell, and adventitial cells and pericytes. This study section held its first meeting in February 2004.

In FY 2004, VCMB reviewed applications primarily for NIDDK (5.3%), and NHLBI (82.5%). It also reviewed applications for NIAAA, NIA, NIAID, NIAMS, NCI, NIBIB, NIEHS, NEI, NIGMS, and NINDS.

### Myocardial Ischemia and Metabolism (MIM)

Scientific Review Administrator: Dr. Joyce Gibson

MIM reviews applications involving basic and applied aspects of myocardial ischemia/reperfusion (regional or global), coronary circulation, and myocardial metabolism. It includes the review of studies using molecular, genetic, cellular, biochemical, pharmacological, genomic, proteomic, and physiological approaches to define normal and pathological processes and to develop therapeutic strategies. MIM examines investigations at all levels of organization, ranging from *in vitro* models of simulated ischemia in isolated cells to whole animal models. This study section held its first meeting in February 2004.

In FY 2004, MIM reviewed applications primarily for NHLBI (86.7%), and reviewed smaller numbers of applications for NIAAA, NIA, NIDDK, NIBIB, NIGMS, and NINDS.

### Hypertension and Microcirculation (HM)

Scientific Review Administrator: Dr. Ai-Ping Zou

HM reviews applications involving basic and applied aspects of blood pressure regulation with focus on the physiology of blood pressure regulation and

pathogenesis of hypertension as well as blood pressure elevation with aging. It includes studies on cell surface receptors and signaling processes, endogenous vasoactive substances, including the renin-angiotensin system, reactive oxygen species, and their mechanisms of action as related to hypertension, regional hemodynamics, lymphatic circulation, and microcirculation. This study section held its first meeting in February 2004.

In FY 2004, HM reviewed applications primarily for NIDDK (11.8%), NIGMS (6.7%) and NHLBI (71.4%) It also reviewed applications for NIAAA, NIA, NIAID, NIBIB, and NINDS.

### Atherosclerosis and Inflammation of the Cardiovascular System (AICS)

Scientific Review Administrator: Dr. Larry Pinkus

AICS reviews applications involving both basic and applied science related to aspects of inflammation of the vascular system with a focus on atherosclerosis, diabetes, transplantation, aging, autoimmunity and infection. This study section will review applications on the pathobiology of the blood vessels leading to atherogenesis, its reversal and prevention. A major contributor to atherogenesis is hyperlipidemia, involving lipids, lipoproteins, and their oxidation derivatives. Atherosclerosis is a chronic inflammatory disease. Thus studies involving inflammatory mediators, cytokines, chemokines, cell signaling, cell migration, and reactive oxygen and nitrogen species and their impact on the cardiovascular system are appropriate. Major risk factors such as diabetes will be emphasized at two levels, the generation of hyperlipidemia and the responses of the vessel wall. This study section held its first meeting in February 2004.

In FY 2004, AICS primarily reviewed applications for NIDDK (6.0%) and NHLBI (81.3%), and also reviewed small numbers of applications for NIA, NIAID, NIEHS, NIGMS, and NCRR.

### Clinical and Integrative Cardiovascular Sciences (CICS)

Scientific Review Administrator: Dr. Russell Dowell

CICS considers research applications concerned with basic and clinically oriented research, including multiple organ systems ranging from the cell to whole animal/human research involving cardiovascular regulation. Specific areas of interest in this context include exercise, neural control, patient oriented studies, including surgery and pediatrics, and prevention. Patient oriented research is defined as studies involving investigation of the cardiovascular system of humans, including autonomic physiology and exercise cardiovascular studies. Large clinical trials that focus on outcomes may be assigned to CICS. Applications involving randomized multi-center clinical trials are not appropriate for this study section. This study section held its first meeting in February 2004.

In FY 2004, CICS reviewed applications primarily for NHLBI (81.8%). It also reviewed a small number of applications for NIA, NIAID, NIAMS, NCCAM, NIDA, NIDCR, NIDDK, NIBIB, NIGMS, NICHD, and NINDS.

Small Business Activities (CVS 10)

CVS (10) will consider small business research applications that focus primarily on heart and circulatory system diagnostics, devices, and therapies. Investigators may employ a range of approaches that include genetics, genomics and proteomics, molecular, cell, and computational biology, biochemistry, biophysics and bioengineering, imaging, analyses of model organisms, and human studies.

**Digestive Sciences Integrated Review Group**

The Digestive Sciences (DIG) IRG reviews applications on basic and clinical aspects of gastrointestinal, hepatobiliary and pancreatic physiology and pathobiology, and on the disposition and action of nutrients and xenobiotics. Specific areas include mucosal immunity and immune-mediated disorders, microbial pathogenesis, inflammation, and molecular and cell biology of pre-cancer, differentiation, growth and development. Applications involving integrative physiology including brain-gut interactions, hormones, secretion and absorption, motility, and genetic determinants of GI diseases are reviewed here, as well as studies related to the disposition of nutrients, drugs, biopharmaceutical agents, alcohol and other toxicants, and their mechanisms of action. Investigators may employ a broad range of basic and clinical research methods including pharmacologic, chemical and biochemical approaches, genetics, genomics and proteomics, molecular and cell biology techniques and animal models. Patient-oriented studies including pediatric gastroenterology are included in this IRG, but large population studies and randomized clinical trials involving digestive disorders will be reviewed elsewhere. DIG study sections held their first meetings in February 2004 and reviewed 862 applications in 28 meetings. A total of 264 reviewers served on study sections within the DIG IRG.

**IRG Staff:**

**Dr. Mushtaq Khan**

**Chief**

Maria Ayap *	Grants Technical Assistant
Dr. Najma Begum	Scientific Review Administrator
Latricia Dickson-Scott	Lead Grants Technical Assistant
Mary Dinh # *	Grants Technical Assistant
Muhammad Faridi #	Grants Technical Assistant
Jean Fugate *	Grants Technical Assistant
Dr. Patricia Greenwel	Scientific Review Administrator
Mary Leon Kalra	Grants Technical Assistant
Dr. Peter Perrin	Scientific Review Administrator
Hassan Rana	Grants Technical Assistant
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Dr. Rass Shayiq	Scientific Review Administrator
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Liyuwork Woldeamlak # *	Grants Technical Assistant

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 26.** Applications reviewed by DIG by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	--	241	184	425	49.3%
<b>Small Business</b>	--	30	30	60	7.0%
<b>R21</b>	--	42	54	96	11.1%
<b>Other Research Projects (R03, R15, R37)</b>	--	15	4	19	2.2%
<b>Fellowship Programs (F30, F31, F32, F33)</b>	--	141	120	261	30.3%
<b>Research Career Programs (K24)</b>	--	1	0	1	0.1%
<b>Total</b>	--	<b>470</b>	<b>392</b>	<b>862</b>	<b>100%</b>

The Digestive Sciences IRG has the following study sections:

#### Xenobiotic and Nutrient Disposition and Action (XNDA)

Scientific Review Administrator: Dr. Rass Shayiq

XNDA reviews applications related to the disposition (absorption, metabolism, distribution, and excretion) of supraphysiologic levels of nutrients and non-nutrient chemicals, including xenobiotics such as pro-drugs and drugs, biopharmaceutical agents, alcohol, phytochemicals/ botanicals, and other non-drug chemicals, and the study of their mechanisms of action (both pharmacological and toxicological) in normal and pathological conditions of the digestive system. Studies that address the effects of digestive system-generated metabolites of xenobiotics on organ systems other than the digestive system may be considered. XNDA may also lend its expertise to the review of applications that address the metabolism and disposition of xenobiotics in other organs (e.g., lung, immune system, reproductive system, kidney).

In FY 2004, XNDA primarily reviewed applications for NIAAA (13.3%), NIDDK (15.9%), NIEHS (31.0%) and NIGMS (22.1%). It reviewed smaller numbers of applications for NIA, NIAID, NCCAM, NCI, NIDA, NICHD, and NHLBI.

#### Gastrointestinal Cell and Molecular Biology (GCMB)

Scientific Review Administrator: Dr. Najma Begum

GCMB reviews applications concerning cell and molecular biology of gastrointestinal and liver function. Studies using cellular, molecular, genetic, structural, biochemical, electrophysiological and pharmacological approaches to define mechanisms and pathways of GI and liver growth, differentiation, development, physiology and pathophysiology in humans or model organisms generally at the level of the gene, protein or cell are considered.

In FY 2004, GCMB reviewed applications primarily for NCI (18.3%) and NIDDK (66.2%), and reviewed smaller numbers of applications for NIAAA, NIA, NIAID, NIEHS, NIGMS, NHLBI, and NCRR.

#### Gastrointestinal Mucosal Pathobiology (GMPB)

Scientific Review Administrator: Dr. Peter Perrin

GMPB reviews applications involving gastrointestinal immunology, host-microbial interactions, intestinal infections and inflammation including chronic inflammatory bowel disease. The intestinal epithelium is the interface between the intestinal immune system and the microbiota; thus epithelial cell biology as it relates to mucosal defense or repair is also included.

In FY 2004, GMPB primarily reviewed applications for NIAID (16.4%), NCI (6.0%), and NIDDK (73.1%). It also reviewed applications for NIGMS, NICHD, and NHLBI.

#### Hepatobiliary Pathophysiology (HBPP)

Scientific Review Administrator: Dr. Patricia Greenwel

HBPP reviews applications involving alcohol metabolism and disease; cholesterol and bile salt metabolism; fibrosis and cirrhosis; liver immunology and inflammation; hepatobiliary transporters and ion channels; mechanisms of cell death and inflammation; cell biology of liver cells; mechanisms of repair and regeneration; pathophysiology and treatment of inherited and acquired hepatobiliary diseases; and viral hepatitis and liver transplantation.

In FY 2004, HBPP primarily reviewed applications for NIAAA (8.8%) and NIDDK (75.2%), but also reviewed small numbers of applications for NIA, NIAID, NCCAM, NCI, NIEHS, NIGMS, NHLBI, and NCRR.

#### Clinical and Integrative Gastrointestinal Pathobiology (CIGP)

Scientific Review Administrator: Dr. Mushtaq Khan

CIGP considers research applications concerned with basic and clinically oriented research related to GI motility, brain-gut interactions, the enteric nervous system, motor disorders, acid secretion and acid related disease, GI hormones, pancreatic function and dysfunction, digestive system nutrient absorption and disposition, digestive system malabsorption/malnutrition, nutritional support, integrative GI physiology, genetic determinants of digestive diseases, and digestive system patient-oriented research related to the GI system, pancreas and liver. Clinical research involving interventional and diagnostic endoscopy and surgery are also included here.



In FY 2004, CIGP reviewed applications primarily for NCI (8.7%) and NIDDK (75.7%). It also reviewed applications for NIAAA, NIDA, NICHD, NHLBI, NINDS, and NCRR.

Small Business Activities (DIG 10)

DIG (10) considers small business research applications that focus primarily on digestive system diagnostics, devices and therapies, and on the disposition and action of nutrients and xenobiotics. Investigators may employ a range of approaches that include genetics, genomics and proteomics; molecular, cell, and computational biology; biochemistry, biophysics and bioengineering; imaging; analyses of model organisms; and human studies.

Fellowships (F10)

Scientific Review Administrator: Dr. Peter Perrin

F10 reviews fellowship applications for basic and clinical aspects of respiratory, digestive, renal, and cardiovascular systems (including hematology); musculoskeletal, oral, and skin sciences; and surgery, radiobiology and bioengineering. Approaches include clinical studies, animal models of disease, and in vitro studies of the physiology of these organ systems and of their function in health or disease. F10 held its first meeting as part of DIG in February 2004.

**Hematology Integrated Review Group**

The Hematology (HEME) IRG considers research applications ranging from basic research through clinical studies focused on hematopoiesis, blood cells and their diseases and studies of normal and pathologic hemostasis and thrombosis. Specific areas include hemoglobinopathies, thalassemias, iron and heme metabolism, red cell and granulocyte/monocyte/leukocyte biology, transfusion medicine, disorders and parasite infections that involve blood elements, basic and applied aspects of normal and abnormal hematopoiesis, leukemias and leukomogenesis, hematopoietic stem cell transplantation, hematopoietic cell gene therapy, mechanisms of hemostasis and thrombosis, megakaryocytopoiesis involving platelet production, and gene therapy of disease involving blood coagulation factors (hemophilia). Evaluation of single site clinical studies of hematologic disorders will be considered in a separate special emphasis panel as needed. In FY 2004, HEME study sections held 33 meetings and reviewed 600 applications. A total of 263 reviewers served on HEME review panels.

**IRG Staff:**

**Dr. Joy Gibson**

**Chief**

Patricia Barbee  
 Dr. Lawrence Boerboom #  
 Luis Cordeiro  
 Barbara Dickson-Carter  
 Dr. Chhanda Ganguly  
 Keith Hampden #

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Chadrick Kelly  
 James Kim #\*  
 Dr. Robert Su  
 Dr. Delia Tang

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\* Left CSR in fiscal year 2004  
 # Joined CSR in fiscal year 2004

**Table 27.** Applications reviewed by HEME by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	120	175	130	425	70.8%
<b>Small Business</b>	39	28	32	99	16.5%
<b>R21</b>	18	18	28	64	10.7%
<b>Other Research Projects (R03, R13, R15, R37)</b>	4	3	4	11	1.8%
<b>Research Program Projects and Centers (P01)</b>	0	1	0	1	0.2%
<b>Total</b>	<b>181</b>	<b>225</b>	<b>194</b>	<b>600</b>	<b>100%</b>

The Hematology IRG contains the following study sections:

Erythrocyte and Leukocyte Biology (ELB)

Scientific Review Administrator: Dr. Delia Tang

ELB reviews applications involving both basic and applied aspects of the blood system, with a focus on hemoglobinopathies, thalassemias; iron and heme metabolism; erythrocyte and granulocyte/monocyte biology, transfusion medicine, and disorders and parasitic infections that involve the formed blood elements.

In FY 2004, ELB primarily reviewed applications for NHLBI (49.6%), NIAID (7.4%), and NIDDK (33.9%). It also reviewed a small number of applications for NIAMS, NCI, NIBIB, NIGMS, and NICHD.

Hematopoiesis (HP)

Scientific Review Administrator: Dr. Robert Su

HP reviews applications involving both basic and applied aspects of normal and abnormal hematopoiesis, including stem cell biology, hematopoietic growth factors and their receptors, leukemias and leukemogenesis, bone marrow failure syndromes, myeloproliferative syndromes, stem cell transplantation, and hematopoietic cell gene therapy.

In FY 2004, HP reviewed applications primarily for NCI (21.0%), NIDDK (29.6%), and NHLBI (43.0%). It reviewed smaller numbers of applications for NIAID, NIBIB, NIGMS, NICHD, NINDS, and NCRR.

## Hemostasis and Thrombosis (HT)

Scientific Review Administrator: Dr. Chhanda Ganguly

HT reviews applications involving basic and applied aspects of the blood and vascular elements associated with hemostasis, thrombosis, and interactions with vasculature. Studies using cellular, biochemical, biophysical, immunological, genetic, pharmacological and molecular biological approaches to define normal and pathological processes are reviewed.

In FY 2004, HT reviewed applications primarily for NHLBI (91.4%), but it also reviewed a small number of applications for NIAID, NCCAM, NIDDK, NIBIB, NIGMS, NINDS, and NCRR.

## Small Business Activities

The HEME Small Business Special Emphasis Panel reviews small business applications ranging from basic research through clinical studies focused on red blood cells and their diseases including sickle cell anemia, storage of whole blood and its components, transfusion medicine, development of blood substitutes, stem cell culture, and stem cell therapy, hematopoiesis, studies of normal and pathologic hemostasis and thrombosis including hemophilia and gene therapy, anticoagulant therapy and development of hematological diagnostic devices and assays.

## **Integrative, Functional and Cognitive Neuroscience Integrated Review Group**

The Integrative, Functional, and Cognitive Neuroscience (IFCN) IRG reviews applications within a very wide range of neuroscience research aimed at furthering our understanding of how the nervous system is organized and functions at an integrative, systems level. Specific areas reviewed by IFCN include the following: studies of the neural basis of emotional and motivational behavior; regulation of function, at the systems level, by neuroendocrine and neuroimmune influences; the analysis of system function under varying behavioral states, such as sleep and hibernation; the basis of biological rhythms; the maintenance of homeostasis; chemosensation, hearing, balance, touch, somatosensation, and visual perception; motor systems and sensorimotor integration; the integration of multisensory information; the development and alteration of memory and other cognitive processes that accompany aging; computational and theoretical models of cognitive processes; mechanisms underlying neural coding of complex stimuli (e.g., pattern recognition, spatial transformations, speech perception); and attention and its effects on information processing in the nervous system. In FY 2004, IFCN study sections held 129 meetings, reviewed 2,280 applications, and 917 reviewers served on its review panels.

**IRG Staff:**

**Dr. Christine Melchior**

**Chief**

Terence Bibbs  
 Dr. John Bishop  
 Sandra Booth \*  
 Dr. Maribeth Champoux  
 Dr. Edwin Clayton #  
 Dr. Gamil Debbas  
 Dr. Bernard Driscoll  
 Yvette Jones  
 Sanita Kacker \*  
 Dr. Daniel Kenshalo  
 Dr. Joseph Kimm  
 Joel Kirkpatrick  
 Dr. Paek-Gyu Lee  
 Dr. Richard Marcus  
 Denise McGarrell  
 Janet Mfon \*  
 Vivian Nauser  
 Dr. Joseph Rudolph #  
 Dr. Michael Selmanoff #  
 Dr. Michael Steinmetz  
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 Scientific Review Administrator  
 Scientific Review Administrator  
 Scientific Review Administrator  
 CSR Review Internship Program

\* Left CSR in fiscal year 2004  
 # Joined CSR in fiscal year 2004

**Table 28.** Applications reviewed by IFCN by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	524	580	526	1,630	71.5%
<b>Small Business</b>	20	27	25	72	3.2%
<b>R21</b>	48	56	65	169	7.4%
<b>Other Research Projects (R03, R13, R15, R37, R55)</b>	36	46	29	111	4.9%
<b>Fellowship Program (F30, F31, F32, F33)</b>	95	103	82	280	12.3%
<b>Research Career Programs (K01, K02, K08, K25)</b>	6	5	4	15	0.7%
<b>Miscellaneous Programs (S10)</b>	1	0	2	3	0.1%
<b>Total</b>	730	817	733	2,280	100%

The Integrative, Functional and Cognitive Neuroscience IRG has the following study sections:

Neurotoxicology and Alcohol (NAL)

Scientific Review Administrators: Dr. Christine Melchior, Dr. Joseph Rudolph

NAL (formerly ALTX-3) addresses the effects of toxicants and alcohol on the central nervous system. Parameters that may be studied include behavior,

behavioral genetics, neuropathology, neurophysiology, neuropharmacology, neuroendocrinology, neuroimmunology, neuromuscular toxicology, and neuroteratology.

In FY 2004, NAL primarily reviewed applications for NIAAA (70.9%) and NIEHS (27.1%), but also reviewed small numbers of applications for NIA, NIAID, NIMH, and NINDS.

#### Neurobiology of Motivated Behavior (NMB)

Scientific Review Administrator: Dr. Gamil Debbas

NMB (formerly IFCN-1) reviews applications on the neural basis of behavior, such as motivation and emotion. Studies include the molecular, cellular, anatomical, genetic and neurobehavioral bases of motivated and emotional behavior. Emphasis is on the neurobiologic processes (genetic, molecular, developmental, maturation and aging) underlying neuronal circuits critical to the mediation of positively and negatively motivated behavior.

In FY 2004, NMB reviewed applications primarily for NIDA (65.5%) and NIMH (24.7%). It also reviewed smaller numbers of applications for NIA, NIDCD, NIDDK, NIEHS, NIGMS, NICHD, and NINDS.

#### Neuroendocrinology, Neuroimmunology, and Behavior (NNB)

Scientific Review Administrator: Dr. Richard Marcus

NNB (formerly IFCN-2) is concerned with the neurobiological basis of behavior across the life span, with a focus on neuroendocrine, neuropeptide, and neuroimmune systems. NNB primarily considers research with non-human animals (vertebrates and invertebrates), but relevant work with humans is also included. Both normal and disordered processes are addressed. Major areas of interest include sexual behavior, including courtship, pair bonding, and parental behavior; ingestive behaviors; drugs of abuse; stress; and interactions of the brain with immune systems. Studies typically use behavioral, physiological, pharmacological, anatomical, and developmental approaches, but may also include molecular, cellular, or genetic approaches.

In FY 2004, NNB reviewed applications primarily for NIDA (7.4%), NIDDK (13.5%), NICHD (8.8%), NIMH (43.2%), and NINDS (18.9%). It reviewed smaller numbers of applications for NIA, NIAID, NIAMS, NIDCD, and NCRR.

#### Biological Rhythms and Sleep (BRS)

Scientific Review Administrator: Dr. Richard Marcus

BRS (formerly IFCN-3) reviews applications in a number of areas of integrative, regulatory and behavioral neuroscience across the life span relating primarily to

sleep, biological rhythms, and certain homeostatic processes. BRS primarily considers research with non-human animals (vertebrates and invertebrates), but relevant work with humans is also included. Areas of interest include behavioral states, such as wakefulness, sleep, hibernation and variations in arousal level; biological rhythms, including temporal cycles such as ultradian, circadian, infradian and circannual rhythms; and regulatory mechanisms underlying homeostasis, including thermoregulation and other functions of the autonomic nervous system. Applications on the relationship of drug administration, use, and withdrawal on homeostasis are reviewed here. Levels of analysis include genetic/molecular studies, cellular and circuit studies, neurobehavioral and neuropharmacological investigations, and behavioral studies of the whole organism. Emphasis is on integrative studies of mechanisms, functions, or neurobehavioral manifestations in whole organisms, but may include studies of other preparations (slices, explants, cell cultures, single cells, etc.).

In FY 2004, BRS primarily reviewed applications for NHLBI (10.1%), NIMH (46.8%), and NINDS (35.4%). It also reviewed applications for NIA, NCCAM, NIDA, and NIDDK.

#### Somatosensory and Chemosensory Systems (SCS)

Scientific Review Administrator: Dr. Daniel Kenshalo

SCS (formerly IFCN-4) reviews research on the anatomy, physiology and psychophysics of chemosensory, pain, analgesia and somatosensory systems. In addition, drug mechanisms and effects are reviewed as they pertain to pain and analgesia. The emphasis is on integrative systems approaches to understanding normal sensory function; dysfunction; development, maturation and aging; recovery from injury; and perceptual and sensory perturbations.

In FY 2004, SCS reviewed applications primarily for NIDA (16.0%), NIDCD (30.0%), and NINDS (42.2%). It also reviewed a smaller number of applications for NIA, NIAMS, NCCAM, NCI, NIDCR, NIDDK, NEI, NIMH, and NINR.

#### Sensorimotor Integration (SMI)

Scientific Review Administrator: Dr. John Bishop

SMI (formerly IFCN-5) reviews applications concerned with the structure and function of motor, sensorimotor and vestibular systems. Emphasis is on integrative systems approaches to understanding neural substrates of sensorimotor integration, motor function and balance, as well as the effects of pathophysiological insults on the operation of these systems and recovery from such insults.

In FY 2004, SMI reviewed applications primarily for NIDCD (16.9%), NEI (6.3%), NIMH (10.6%), and NINDS (60.0%). It also reviewed a small number of applications for NIA, NIDA, NICHD, and NHLBI.

Auditory System (AUD)

Scientific Review Administrator: Dr. Joseph Kimm

AUD (formerly IFCN-6) reviews applications on the structure and function of the auditory and vestibular systems. Emphasis is on integrative systems approaches to understanding hearing, vestibular end organ physiology, and developmental and maturational aspects of these two systems. Issues of aging, dysfunction and recovery from injury also are addressed.

In FY 2004, AUD primarily reviewed applications for NIDCD (94.0%), but it also reviewed a small number of applications for NIA, NCI, NIBIB, NICHD, NINDS, and NCRR.

Neurobiology of Learning and Memory (LAM)

Scientific Review Administrator: Dr. Bernard Driscoll

LAM (formerly IFCN-7) reviews applications on the neurobiological structures, mechanisms, and principles underlying specific aspects of learning, memory, and associated neural plasticity. The scope of this committee is broad, including studies of the molecular and cellular changes, functional circuitry, and neural coding and integration that underlie learning and memory processes, as well as their disorders. Particular emphasis is placed on studies that directly relate behavioral/cognitive processes to their neural substrates.

In FY 2004, LAM reviewed applications primarily for NIA (14.6%), NIMH (55.6%), and NINDS (19.9%). It reviewed smaller numbers of applications for NCCAM, NIDA, NIDCD, NIDDK, NICHD, NHLBI, and NCRR.

Cognitive Neuroscience (COG)

Scientific Review Administrator: Dr. Michael Steinmetz

COG (formerly IFCN-8) reviews a broad range of applications on the neurobiological mechanisms and principles underlying cognitive functions other than learning and memory. The scope of the committee is broad, including molecular and cellular mechanisms, functional circuitry, and neural coding and integration that underlie behavioral/cognitive processes as well as their disorders. Particular emphasis is placed on studies that directly relate behavioral/cognitive processes to their neural substrates.

In FY 2004, COG primarily reviewed applications for NIA (5.5%), NIDCD (8.2%), NEI (12.7%), NIMH (42.7%), and NINDS (22.7%). It also reviewed applications for NIDA, NIDDK, NIBIB, NICHD, and NCRR.

Central Visual Processing (CVP)

Scientific Review Administrator: Dr. Michael Steinmetz

CVP (formerly VISB) reviews basic, applied, and clinical research on the development, aging, structure, function, and disorders of those portions of the brain, eye, and extraocular muscle system that serve visual sensation of brightness, color, space/form, motion, depth, as well as accommodation, pupil contraction, and eye movements.

In FY 2004, CVP reviewed applications primarily for NEI (94.0%), but also reviewed a small number of applications for NIA, NIDA, NIMH, NINDS, and NCRR.

Small Business Activities (IFCN 10, IFCN 11)

Scientific Review Administrators: Dr. Joseph Kimm, Dr. Bernard Driscoll

Small business applications dealing with sensory processes other than vision on the level of basic neuroscience are reviewed in one of two special emphasis panels within the IFCN IRG. Ear (IFCN 10), reviews applications dealing with the auditory system and hearing. Specific areas covered include enhancing the hearing of hearing impaired individuals, diagnostic audiometry, and devices or processes related to the neurobiology of the auditory system. Neural Systems (IFCN 11), reviews applications reflective of sensory processes (other than hearing and vision) as well as those dealing with basic neuroscience research on an integrative rather than molecular or clinical level. Specific areas covered include the development of medications for pain, devices or processes related to sensory systems other than vision and audition, and tools for use in basic neuroscience research.

Fellowships (F02A, F02B)

Scientific Review Administrators: Dr. John Bishop, Dr. Maribeth Champoux

The F02A study section reviews fellowship applications generally concerned with functions of the limbic system and aimed at furthering our understanding of how the nervous system is organized and functions at an integrative, systems level. Areas reviewed include: studies of the neural basis of emotional and motivational behavior; learning and memory; regulation of neural function at the systems level by neuroendocrine and neuroimmune influences; the analysis of system function under varying behavioral states, such as sleep and hibernation; the basis of biological rhythms; the maintenance of homeostasis; and neurotoxicology.

The F02B study section reviews fellowship applications in sensory, motor, and cognitive neuroscience research aimed at furthering our understanding of how the nervous system is organized and functions at an integrative, systems level. The



emphasis is on understanding normal sensory, motor or sensorimotor function, dysfunction, development, maturation and aging, recovery from injury, and perceptual and sensory perturbations. This study section also reviews fellowship applications on the integration of multisensory information, mechanisms underlying neural coding of complex stimuli and attention and effects on information processing in the nervous system.

**Musculoskeletal and Dental Sciences Integrated Review Group**

Most of the study sections in the Musculoskeletal & Dental Sciences (MSD) IRG ended in the summer of 2003 with the formation of the new MOSS IRG. The only study sections remaining in the IRG as of October 2003 were GMB and UROL. These study sections were assigned the review of applications in the areas of water and electrolyte balance; mineral metabolism; renal, urinary and urogenital tract physiology and function; and nephrology and urology in normal and disease states. These two study sections also ended after their final meetings in November 2003. The applications reviewed by them primarily migrated to the RUS IRG in February 2004. In FY 2004, UROL and GMB held 4 meetings and reviewed 117 applications. A total of 59 reviewers served on MSD review panels.

**IRG Staff:**

**Dr. Daniel McDonald**

**Chief**

Jelani Evering \*  
 Dr. Shirley Hilden  
 Kristeena Sigler

Grants Technical Assistant  
 Scientific Review Administrator  
 Grants Technical Assistant

\* Left CSR in fiscal year 2004

**Table 29.** Applications reviewed by MSD by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	87	--	--	87	74.4%
<b>Small Business</b>	11	-	-	11	9.4%
<b>R21</b>	18	--	--	18	15.4%
<b>Other Research Projects (R37)</b>	1	--	--	1	0.9%
<b>Total</b>	117	--	--	117	100%

The Musculoskeletal and Dental Sciences IRG included the following study sections in FY 2004:

General Medicine B (GMB)

Scientific Review Administrator: Dr. Shirley Hilden

GMB evaluates applications pertaining to water and electrolyte balance, mineral metabolism and endocrinology (pertaining to the kidney and bone) and kidney function, including proposals with an emphasis on causative mechanisms and therapy of renal disease, exclusive of cardiovascular involvement. This study section held its final meeting in October 2003.

In FY 2004, GMB primarily reviewed applications for NIDDK (93.8%), but also reviewed small numbers of applications for NIA and NHLBI.

Urology (UROL)

Scientific Review Administrator: Dr. Shirley Hilden

UROL evaluates basic and clinical studies of the urinary and urogenital tracts, including aspects of genetics, embryology, development, function, and pathophysiology of the ureter, bladder (including smooth muscle function), prostate, urethra, penis, vas deferens, epididymis, and testis. This study section held its final meeting in October 2003.

In FY 2004, UROL reviewed applications primarily for NIDDK (78.0%), NCI (7.3%), and NIA (7.3%), but also reviewed small numbers of applications for NIAID and NIBIB.

**Musculoskeletal, Oral and Skin Sciences Integrated Review Group**

The Musculoskeletal, Oral and Skin Sciences (MOSS) IRG considers research applications that address structural systems that are prerequisite for physical form, mechanical function, movement, and integrity of the body. These structural systems and their components are the basis for the organization of the study sections of this IRG and are described according to the following topical areas: skeleton, spine, bone, connective tissue, extracellular matrix, and their related diseases and disorders; dental/oral and craniofacial and their related diseases and disorders; skeletal muscle, limb, and their related diseases and disorders; joints and their related diseases and disorders, including rheumatic diseases; skin and its related diseases and disorders. Autoimmune diseases are specifically included. The studies considered range from molecular genetics and stem cell research to animal models and clinical trials. Research applications may include studies of basic biology, including growth, development, maturation, and aging; biomaterials for prostheses/orthotics and implants; pathogenesis and therapeutics; physical rehabilitation; exercise; mechanobiology and biomechanics; injury and repair, including adaptation, plasticity, degeneration, and regeneration; diagnostic markers and biomarkers; cell and gene-based therapies; and

clinical outcomes and trials. In FY 2004, study section in MOSS held 85 meetings and reviewed 2,084 applications. A total of 806 reviewers served on MOSS review panels.

**IRG Staff:**

**Dr. Daniel McDonald**

**Chief**

Dr. Aftab Ansari #	Scientific Review Administrator
Dr. Richard Bartlett #	Scientific Review Administrator
Dr. Priscilla Chen	Scientific Review Administrator
Dr. Harold Davidson	Scientific Review Administrator
Dr. Jeffrey DeClue *	Scientific Review Administrator
Mecene Desormice # *	Grants Technical Assistant
Suzette Epps	Lead Grants Technical Assistant
Crystal Graham	Grants Technical Assistant
Dr. J. Terrell Hoffeld	Scientific Review Administrator
Steve Lerman *	Grants Technical Assistant
Ronald Livingston	Grants Technical Assistant
Jo Pelham	Scientific Review Administrator
Kieu Pham	Grants Technical Assistant
William Reeves	Grants Technical Assistant
Dr. M. James Scherbenske *	Scientific Review Administrator
Dr. Jean D. Sipe	Scientific Review Administrator
Dr. Tamazchelvi Thyagarajan #	CSR Review Internship Program
Dr. Mehrdad Tondravi #	Scientific Review Administrator
Ann Turpin *	Grants Technical Assistant

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 30.** Applications reviewed by MOSS by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	404	449	434	1,287	61.8%
<b>Small Business</b>	147	188	152	487	23.4%
<b>R21</b>	86	88	85	259	12.4%
<b>Other Research Projects (R03, R13, R15, R37, R55)</b>	15	19	16	50	2.4%
<b>Miscellaneous Projects (U01)</b>	0	1	0	1	0.0%
<b>Total</b>	<b>652</b>	<b>745</b>	<b>687</b>	<b>2,084</b>	<b>100%</b>

The Musculoskeletal, Oral and Skin Sciences IRG has the following study sections:

Oral, Dental and Craniofacial Sciences (ODCS)

Scientific Review Administrator: Dr. J. Terrell Hoffeld

ODCS reviews applications involving basic, applied and clinical aspects of the development, biology, pathology and repair of oral, dental and craniofacial tissues.

In FY 2004, ODCS reviewed applications primarily for NIDCR (93.7%) but also reviewed small numbers of applications for NIAID, NIAMS, NIGMS, and NHLBI.

#### Skeletal Biology Development and Disease (SBDD)

Scientific Review Administrator: Dr. Priscilla Chen

SBDD reviews grant applications that deal with the basic and translational aspects of the cells and matrix and their organization in skeletal tissues, including bone, cartilage, and other connective tissues, with a focus on cellular and molecular biology, biochemistry, physiology, development, biomineralization, aging, heritable and metabolic bone diseases, pathogenesis, and hormonal and paracrine functions.

In FY 2004, SBDD primarily reviewed applications for NIA (6.4%), NIAMS (44.0%), NIDCR (26.3%), and NIDDK (16.5%). It reviewed smaller numbers of applications for NIAAA, NCCAM, NCI, NIBIB, NIEHS, NIGMS, NICHD, NHLBI, and NINDS.

#### Skeletal Biology Structure and Regeneration (SBSR)

Scientific Review Administrators: Dr. Daniel McDonald, Dr. Mehrdad Tondravi

SBSR reviews applications involving both basic and applied aspects of the musculoskeletal system, with a focus on bone, cartilage, ligament, and tendon at the tissue and organ level; their interaction in joints, including those in the spine; their development; their response to normal loading, injury, aging, and disease and disorders; as well as their regeneration and repair, all using cell, tissue, and animal models and human subjects.

In FY 2004, SBSR reviewed applications primarily for NIA (5.0%), NIAMS (77.9%), NIDCR (5.0%), and NIDDK (7.3%). It also reviewed applications for NIAAA, NCI, NIBIB, and NICHD.

#### Skeletal Muscle Biology and Exercise Physiology (SMEP)

Scientific Review Administrator: Dr. Richard Bartlett

SMEP considers molecular, cellular, physiological, and integrative studies of normal and altered skeletal muscle function and processes that range from molecular genetics, to structure-function relationships, to integrative and functional

studies on human mobility and exercise, and health. Integrative studies include development and aging, as well as gender and ethnicity differences in muscle function. Therapeutic and preventive interventions as they relate to skeletal muscle function are included. Studies of the biochemistry and molecular biology of skeletal muscle and injuries, and diseases of muscle will be included for review in this study section. The goal is to provide a comprehensive review of skeletal muscle biology and muscle diseases, plasticity in adult skeletal muscle and aging, repair and exercise.

In FY 2004, SMEP primarily reviewed applications for NIA (13.7%), NIAMS (58.9%), NIDDK (10.3%), and NHLBI (6.3%). It also reviewed a small number of applications for NCCAM, NCI, NIDCR, NIGMS, NICHD, and NINDS.

### Musculoskeletal Rehabilitation Sciences (MRS)

Scientific Review Administrator: Jo Pelham

MRS evaluates applications pertaining to the biological mechanisms and therapeutics of impaired physical functioning, as well as exercise and physical manipulation, as rehabilitation strategies as they relate to the musculoskeletal system. The study section reviews both regular research applications as well as small business applications relevant to the topics covered.

In FY 2004, MRS reviewed applications primarily for NIA (11.1%), NIAMS (11.4%), NICHD (55.0%) and NINDS (7.4%), and also reviewed small numbers of applications for NCCAM, NIDA, NIDCD, NIDDK, NIBIB, NEI, NIMH, NINR, NCRR, and CDC.

### Arthritis, Connective Tissue and Skin Sciences (ACTS)

Scientific Review Administrator: Dr. Harold Davidson

ACTS reviews basic and clinical research applications dealing with the biology and diseases of joints, connective tissue, and skin.

In FY 2004, ACTS reviewed applications primarily for NIAID (12.1%) and NIAMS (73.0%), but also reviewed applications for NIA, NCCAM, NCI, NIDCR, NIDDK, NIEHS, NIGMS, NINR, and NCRR.

### Chronic Fatigue Syndrome/Fibromyalgia Syndrome Special Emphasis Panel (CFS)

Scientific Review Administrator: J. Terrell Hoffeld

CFS reviews applications in the multiple disciplines applied to studies of the causes, manifestations and treatments of the Chronic Fatigue Syndrome, the Fibromyalgia Syndrome, and other chronic polysystemic morbidity syndromes.

In FY 2004, CFS reviewed applications primarily for NIAID (28.6%), NIAMS (42.9%), NCCAM (5.7%), NIDCR (11.4%), and NINDS (5.7%). It also reviewed small numbers of applications for NIA and NIDA.

Small Business Activities (MOSS 10, MOSS 11, MOSS 12, MOSS 13, MOSS 14)

The MOSS IRG evaluates small business grant applications for areas of science noted above. There are five regularly occurring panels, one each for the fields of orthopedics and skeletal biology (MOSS 10); oral, dental and craniofacial sciences (MOSS 11); therapeutic developments for dermatological diseases (MOSS 12); biology of rheumatoid diseases and novel therapeutic developments (MOSS 13); and skeletal muscle and exercise physiology (MOSS 14). Small business activities in rehabilitation medicine are covered in MRS as described above.

**Pathophysiology Sciences Integrated Review Group**

The Pathophysiological Sciences (PPS) IRG reviewed grant applications for research on the effects of toxicants and alcohol (toxicology), gastrointestinal biology (basic and clinical) including clinical gastroenterology, hepatology, exocrine pancreatic physiology, lung biology (clinical and basic studies), and respiratory and applied physiology. Technology development-related applications in areas related to toxicology, gastroenterology, lung mechanics, respiration, etc. are also reviewed in this IRG. PPS held its final meetings in October 2003. In FY 2004, PPS study sections held 16 meetings and reviewed 623 applications. A total of 257 reviewers served on PPS review panels.

**IRG Staff:**

**Dr. Mushtaq Khan**

**Chief**

Maria Ayap *	Grants Technical Assistant
Dr. George Barnas	Scientific Review Administrator
Dr. Najma Begum	Scientific Review Administrator
Latricia Dickson-Scott	Lead Grants Technical Assistant
Mary Dinh *	Office Automation Clerk
Jean Fugate *	Grants Technical Assistant
Dr. Patricia Greenwel	Scientific Review Administrator
Raven Jaeger *	Grants Technical Assistant
Sanita Kacker *	Grants Technical Assistant
Mary Leon Kalra	Grants Technical Assistant
Dr. Peter Perrin	Scientific Review Administrator
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Dr. Gopal Sharma	Scientific Review Administrator
Dr. Rass Shayiq	Scientific Review Administrator
Dr. Everett Sinnett	Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 31.** Applications reviewed by PPS by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	401	--	--	401	64.4%
<b>R21</b>	46	--	--	46	7.4%
<b>Other Research Projects (R03, R13, R15, R37)</b>	15	--	--	15	2.4%
<b>Small Business</b>	91	--	--	91	14.6%
<b>Fellowship Programs (F30, F31, F32)</b>	70	--	--	70	11.2%
<b>Total</b>	<b>623</b>	<b>--</b>	<b>--</b>	<b>623</b>	<b>100%</b>

The Pathophysiology Sciences IRG had the following study sections:

#### Alcohol and Toxicology 1 (ALTX-1)

Scientific Review Administrator: Dr. Patricia Greenwel

ALTX-1 addresses the effects of toxicants and alcohol at the cellular and subcellular levels in a non-tissue/organ specific manner. Parameters that may be studied include DNA/chromosomal damage and its repair, epigenetic effects on the control of gene expression, enzymology, metabolism, pharmacokinetics and chemistry, derangement of membrane/receptor and signaling function, transport processes, and cellular proliferation (including carcinogenesis) and/or differentiation. This study section held its final meeting in October 2003.

In FY 2004, ALTX-1 primarily reviewed applications for NIAAA (8.3%), NCI (5.6%), NIDDK (6.9%), NIEHS (58.3%), and NHLBI (5.6%). It reviewed smaller numbers of applications for NIAID, NIAMS, NCCAM, NIDA, NIGMS, and NICHD.

#### Alcohol and Toxicology 4 (ALTX-4)

Scientific Review Administrator: Dr. Rass Shayiq

ALTX-4 addresses the effects of toxicants and alcohol on distinct organ systems (other than the central and peripheral nervous system) including the bone, cardiac, cardiovascular, endocrine/exocrine, gastrointestinal, hepatic, immune, renal, reproductive, pulmonary, and skeletal muscle systems. This study section held its final meeting in October 2003.

In FY 2004, ALTX-4 reviewed applications primarily for NIAAA (26.2%), NIDDK (9.8%), NIEHS (42.6%), and NHLBI (11.5%). It also reviewed a small number of applications for NIAID, NCI, NIDA, NIGMS, and NICHD.

General Medicine A 2 (GMA-2)

Scientific Review Administrator: Dr. Mushtaq Khan

GMA-2 reviews applications related to cell and molecular biology and physiology of the gastrointestinal (GI) tract including GI transport, immunology, microbiology and inflammation. This study section held its final meeting in October 2003.

In FY 2004, GMA-2 reviewed applications primarily for NIAID (5.1%), NCI (16.9%), and NIDDK (69.5%). It reviewed smaller numbers of applications for NCCAM, NICHD, NHBLI, NINDS, and NCRR.

General Medicine 3 (GMA-3)

Scientific Review Administrator: Dr. Najma Begum

GMA-3 reviews clinically-oriented and basic research related to gastrointestinal (GI) motility, hepatobiliary and pancreatic physiology and pathobiology. This study section held its final meeting in October 2003.

In FY 2004, GMA-3 primarily reviewed applications for NIDDK (73.1%) and NCI (10.4%), but also reviewed a small number of applications for NIAAA, NIAID, NIGMS, NICHD, and NINDS.

Lung Biology and Pathology (LBPA)

Scientific Review Administrator: Dr. George Barnas

LBPA reviews applications on the physiology, pathology, and immunology of the pulmonary system, with a focus on the airways, interstitium, immune system, and lung fluids, using cellular, biochemical, molecular biological, and immunological approaches to normal and pathological processes. This study section held its final meeting in October 2003.

In FY 2004, LBPA reviewed applications primarily for NIAID (17.7%) and NHLBI (74.2%). It also reviewed applications for NCCAM, NIDDK, and NIBIB.

Respiratory Physiology (RESP)

Scientific Review Administrator: Dr. Everett Sinnett

RESP reviews basic and clinical research related to certain aspects of the respiratory system with a focus on control of breathing, gas exchange, respiratory system mechanics, sleep physiology as it relates to control of breathing and upper airway physiology, and the pulmonary vascular system. This study section held its final meeting in October 2003.

In FY 2004, RESP primarily reviewed applications for NHLBI (90.0%) and NINDS (8.3%), but also reviewed small numbers of applications for NIMH.



Fellowships (F10)

Scientific Review Administrator: Dr. Peter Perrin

F10 reviews fellowship applications for basic and clinical aspects of respiratory, digestive, renal and cardiovascular systems (including hematology); musculoskeletal, oral, and skin sciences; and surgery, radiobiology and bioengineering. Approaches include clinical studies, animal models of disease, and in vitro studies of the physiology of these organ systems and of their function in health or disease. F10 held its last meeting as part of the PPS IRG in October 2003.

**Respiratory Sciences Integrated Review Group**

The Respiratory Sciences (RES) IRG considers research applications ranging from basic sciences through clinical studies that are focused on the entire pulmonary system and related organs and processes. Topics include research related to normal lung biology, including the processes of development and aging, alterations in processes that can result in inflammation, immune dysfunctions, and altered physiology of the lung. This includes studies on the chest wall, upper and lower airways, parenchyma, pleural surfaces, and cells affected by and operative in these processes, including neural and endocrine control processes. Applications that study lung injury, repair, and remodeling as may occur from genetic, environmental, developmental and toxic causes, are also considered. Applications range from the molecular level to organ to human investigations and include study of the interactions between mediators, cells, tissues, and the regulation of these processes such as signal transduction. Applications may also focus on the integrative biology of the lung and its related organs and tissues, including biophysics, biomechanics, and gas exchange, and the various control processes. In addition, RES considers translational and clinical investigations as they relate to the broad areas of biological sciences of the respiratory system, e.g., including genetics, genetic susceptibility, populations, development, therapeutic interventions and sleep. The RES IRG held its first meetings in February 2004 and RES study sections held 18 meetings and reviewed 563 applications. A total of 198 reviewers served on RES review panels.

**IRG Staff:****Dr. Mushtaq Khan**

Dr. George Barnas  
Sandra Booth \*  
Latricia Dickson-Scott  
Mary Dinh # \*  
Dr. Ghenima Dirami  
Mary Leon Kalra  
Dr. Gopal Sharma  
Dr. Everett Sinnett  
Liyuwork Woldemlak # \*

\* *Left CSR in fiscal year 2004*

# *Joined CSR in fiscal year 2004*

**Chief**

Scientific Review Administrator  
Grants Technical Assistant  
Lead Grants Technical Assistant  
Office Automation Clerk  
Scientific Review Administrator  
Grants Technical Assistant  
Scientific Review Administrator  
Scientific Review Administrator  
Grants Technical Assistant

**Table 32.** Applications reviewed by RES by activity code and Council round

<b>Mechanism</b>	<b>January 2004</b>	<b>May 2004</b>	<b>October 2004</b>	<b>Total</b>	<b>Percent</b>
<b>Research Projects</b>					
<b>R01</b>	--	253	178	431	76.6%
<b>Small Business</b>	--	30	29	59	10.5%
<b>R21</b>	--	27	38	65	11.5%
<b>Other Research Projects (R03, R15)</b>	--	6	2	8	1.4%
<b>Total</b>	--	<b>316</b>	<b>247</b>	<b>563</b>	<b>100%</b>

The Respiratory Sciences IRG has the following study sections:

Lung Cellular, Molecular, and Immunobiology (LCMI)

Scientific Review Administrator: Dr. George M. Barnas

LCMI reviews grant applications designed to study the genetic, molecular, and cellular basis of normal respiratory biology, and development, and the alterations in these processes in inflammatory and immune lung disorders. The study section considers applications using molecules, cells, tissues, organs, animal models, and/or human investigations that address the identity, function, and products of the cells that populate the upper and lower airways and alveolar regions, the regulation and dysregulation of innate host defense mechanisms and the adaptive immune system in health and disease as they relate to the respiratory system. Topics may include the inflammatory and immune mechanisms that contribute to the pathogenesis of a variety of airway and alveolar diseases of the lung, including, but not limited to, asthma, Chronic Obstructive Pulmonary Disease, and cystic fibrosis.

In FY 2004, LCMI primarily reviewed applications for NIAID (17.8%) and NHLBI (73.0%), but also reviewed small numbers of applications for NCCAM, NCI, NIDDK, NIEHS, and NIGMS.

Lung Injury, Repair, and Remodeling (LIRR)

Scientific Review Administrator: Dr. Ghenima Dirami

LIRR reviews applications that focus on the mechanisms of lung injury, repair, and remodeling in non-vascular pulmonary tissue or cells. The scope of the studies reviewed by LIRR includes genetic susceptibility, molecular biology, cell culture, tissue, organ and animal models, and human investigations. Among the mechanistic processes considered are cellular processes including signal transduction, control of gene expression, cell cycle/cell death mediators, normal and abnormal function of pulmonary cell populations (including leukocytes), proteolytic mechanisms, and receptors. Integrative processes include inflammation, cell trafficking, host defense, injury caused by reactive oxygen and nitrogen species and by hypoxia, cell-cell interactions, regulation of extracellular matrix, lung metabolism (xenobiotic bioactivation and drug detoxification), effects

of particles and gases on lung cells, and effects of blood components such as coagulation factors and complement.

In FY 2004, LIRR reviewed applications primarily for NIEHS (19.6%) and NHLBI (72.1%), and also reviewed some applications for NIAID, NCI, NIDA, NIGMS, and NICHD.

### Respiratory Integrative Biology and Translational Research (RIBT)

Scientific Review Administrator: Dr. Everett Sinnett

RIBT reviews grant applications that deal with integrative aspects of the respiratory system and clinical studies. Thus, the fundamental emphasis of this study section concerns the integration of knowledge gained from investigations at the cellular and molecular level to higher levels of biological organization, including physiological genomics and translation into clinical application. Studies appropriate for review may involve research utilizing molecular and cellular methods, normal and genetically modified animal models, human subjects and mathematical modeling. Central areas of study are 1) respiratory control processes; 2) integrated respiratory responses; 3) respiratory biophysics, biomechanics and transport; 4) translational and clinical studies, including physiological genomics; and 5) normal and abnormal pulmonary vascular physiology (including endothelial and vascular smooth muscle cell biology). In each area, investigations concerning the impact of development and aging, genetics and sex/gender differences are appropriate.

In FY 2004, RIBT primarily reviewed applications for NHLBI (81.2%), but also reviewed applications for NIA, NIAID, NIAMS, NCCAM, NIDA, NIBIB, NIEHS, NIGMS, NICHD, and NINDS.

### Small Business Activities

Scientific Review Administrator: Dr. Gopal Sharma

The Respiratory Sciences Small Business Activities SEP reviews small business applications on diagnostics, devices and therapies focused on the entire pulmonary system and related organs and processes and using approaches ranging from basic research through clinical studies. This includes studies on the chest wall, upper and lower airways, parenchyma, pleural surfaces, and cells affected by and operative in these processes, including neural and endocrine control processes. Investigators may employ a range of approaches that include genetics, genomics and proteomics, molecular, cell, and computational biology, biochemistry, biophysics and bioengineering, imaging, analyses of model organisms, and human studies.

## Renal and Urological Sciences Integrated Review Group

The Renal and Urological Sciences (RUS) IRG reviews applications to investigate systemic or local diseases affecting the kidney, urinary tract, and male genital system. This includes clinical, translational and fundamental studies of the disease state and its treatment as well as of normal growth, development, structure, and function. Specifically, the RUS IRG reviews applications directed at understanding 1) genetic, cellular and molecular mechanisms underlying regulation of fluid and mineral balance in the intact kidney and in the diverse cells composing the kidney; 2) pathogenesis of hypertension as it affects the kidney; 3) effects of hormonal functions on the kidney as a whole, normal and abnormal hormonal regulation of kidney and male sexual functions; 4) causes and treatment of acute and chronic disorders that affect the kidney, urinary tract, and male genital system (including sexual dysfunction); and 5) pathogenesis of local or systemic disorders affecting the structure or function of the kidney, urinary tract (including the pelvic floor), or the male genital system. In addition, the RUS IRG reviews applications aimed at 1) development and evaluation of new techniques for investigating disorders of the kidney, urinary tract, and male genital system; 2) development and evaluation of therapies to treat localized or systemic disorders arising from damage to the kidney, urinary tract, or male genital system; 3) translation of basic research to clinical investigation; and 4) treatment of disorders of the kidney, urinary tract, and male genital system. The RUS IRG held its first meetings in February 2004, and in FY 2004, RUS study sections held 22 meetings and reviewed 434 applications. A total of 207 reviewers served on RUS review panels.

### IRG Staff:

#### Dr. Daniel McDonald

**Chief**

Jelani Evering \*

Grants Technical Assistant

Dr. Shirley Hilden

Scientific Review Administrator

Dr. M. Chris Langub #

Scientific Review Administrator

Steve Lerman \*

Grants Technical Assistant

Dr. M. James Scherbenske \*

Scientific Review Administrator

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

**Table 33.** Applications reviewed by RUS by activity code and Council round

Mechanism	January 2004	May 2004	October 2004	Total	Percent
<b>Research Projects</b>					
<b>R01</b>	--	162	145	307	70.7%
<b>Small Business</b>	--	20	12	32	7.4%
<b>R21</b>	--	43	44	87	20.0%
<b>Other Research Projects (R03, R15, R37, R55)</b>	--	4	4	8	1.8%
<b>Total</b>	--	<b>229</b>	<b>205</b>	<b>434</b>	<b>100%</b>

The Renal and Urological Sciences IRG has the following study sections:

Cellular and Molecular Biology of the Kidney (CMBK)

Scientific Review Administrator: Dr. Shirley Hilden

CMBK reviews grant applications involving basic and applied aspects of normal and abnormal renal physiology, cell biology, transport biology, including osmoregulation and osmosensing, hormone action and signal transduction, vascular biology, genetic disorders, cell-matrix interactions, biophysics, and bioenergetics.

In FY 2004, CMBK primarily reviewed applications for NIDDK (88.6%) and NIGMS (5.3%). It reviewed smaller numbers of applications for NIA, NIAID, NIEHS, and NHLBI.

Pathobiology of Kidney Disease (PBKD)

Scientific Review Administrators: Dr. Shirley Hilden, Dr. M. James Scherbenske

PBKD reviews grant applications involving basic and clinical studies of kidney disease. This includes investigations of pathophysiology, diagnosis, consequences and treatment of acute and chronic disorders of the kidney, the consequences of kidney disease and failure, as well as studies of the normal structure and function of the glomerulus. Studies may involve *in vivo* or *in vitro* models and/or patient-focused investigations.

In FY 2004, PBKD reviewed applications primarily for NIDDK (89.9%) and also reviewed applications for NIAID, NIAMS, NCCAM, NCI, NIGMS, and NHLBI.

Urologic and Kidney Development and Genitourinary Diseases (UKGD)

Scientific Review Administrator: Dr. M. Chris Langub

UKGD reviews grant applications concerning normal and abnormal development of the kidney, urinary tract, and male genital system and physiologic and pathophysiologic processes of cells and tissues of the bladder, prostate, ureter, urethra, male reproductive organs, penis and male and female pelvic floor. This encompasses 1) responses of uroepithelial tissues and cells to infectious bacteria and other pathologic insults; 2) mechanisms of renal stone formation and prevention; 3) normal development of the kidney, urinary tract, and male genital system; 4) normal and pathophysiological processes of the urinary tract and male genital system; 5) application of new technologies and methodologies to the diagnosis and treatment of urologic diseases; 6) novel approaches to regeneration and tissue engineering of the kidney, urinary tract and male genital system; and 7) clinical assessment of genitourinary diseases including urinary incontinence and pelvic floor dysfunction.

In FY 2004, UKGD reviewed applications primarily for NIA (5.6%) and NIDDK (87.6%), and also reviewed small numbers of applications for NCI, NIBIB, and NICHD.

### Small Business Activities

Scientific Review Administrator: Dr. Daniel McDonald

The Renal and Urological Sciences Small Business Activities Special Emphasis Panel will review small business grant applications that focus primarily on kidney, urinary tract, and male genital system therapies, devices, and diagnostics. This includes clinical, translational and fundamental studies. Investigators may employ a range of approaches that include genetics, genomics and proteomics, molecular, cell, and computational biology, biochemistry, biophysics and bioengineering, imaging, analyses of model organisms, and human studies.

## Division of Management Services

The Division of Management Services (DMS) advises the CSR Director on administrative matters and plans and directs management functions of the Center, including administrative services, financial management, committee management, information technology services, procurement, management analysis, and preparation of reports and statistics related to Center activities. DMS is composed of three branches: 1) the Administrative Services Branch (ASB), which provides procurement, property, space management, security, telecommunications, mail, travel and reimbursement, and general office services; 2) the Committee Management Branch (CMB), which provides committee management support to the CSR in all matters pertaining to the operation of Advisory Committees; and 3) the Technology Services Branch (TSB), which develops, implements and supports all aspects of all CSR systems on the Local Area Network (LAN), World-Wide-Web, and the NIH.

### FY 2004 Divisional Highlights

DMS staff, in coordination with the U.S. General Services Administration (GSA), recently concluded lease negotiations for CSR space in Rockledge II. This was a year-long effort to identify CSR requirements, develop a solicitation for 130,000 square feet of office space, and evaluate all responsive bids. The 10-year lease was recently signed, and CSR will remain in its current Rockledge II space until 2015.

To help DMS in its continuing effort to deliver excellent customer service, a CSR-wide evaluation of the products and services provided by the major administrative areas within DMS was conducted. The information provided was used to assess the current services provided by the Administrative Services Branch, Technology Services Branch, EEO, and the Committee Management Branch. The data allowed DMS managers to identify opportunities for improvement.

DMS staff prepared over 23,900 CSR reviewer reimbursement checks during FY 2004. In addition, over 4,000 checks were written to vendors, including the NIH Travel Management Center, hotels, teleconferencing providers, express mail service, and shredding service. Because of the efficiency of the CSR operation, 15 other NIH ICs have contracted with CSR to perform a check-writing service, and in FY 2004 more than 21,500 checks were processed for these ICs.

The CSR Committee Management Branch (CMB) is unique in the NIH Committee Management community because of the unusually large number of committees and subcommittees. The CSR CMB handles a Program Advisory Committee, a Special Emphasis Panel (SEP) and over 200 standing review subcommittees that together generate more than 1,500 meetings per year. Staffing comparisons to other IC Committee Management offices demonstrate that CSR benefits enormously from economies of scale. The CMB recently implemented a digital document solution and scanned thousands of committee files for easier access. This also allowed more records to be stored off-site at a Federal records center instead of in local office space. The Administrative Services Branch is implementing a similar records management project.

The Technology Services Branch (TSB) has been in the vanguard of two information technology initiatives that came to fruition at NIH in FY 2004:

- Establishment of a mobile computing infrastructure at NIH. By the beginning of FY 2004, CSR had wireless access points installed throughout its space at Rockledge II. In February, 2004, CSR established the 2.9 lb wireless laptop as the standard computer for SRA's. CSR is currently piloting other technologies, such as voice recognition and wireless broadband access, to leverage this mobile computing infrastructure
- Outsourcing of basic IT infrastructure services support. For the past three years CSR has outsourced the support for the CSR local area network, email, and server management to CIT. To align with DHHS and OMB directives, this year all NIH IC's have now consolidated these services under CIT management.

CSR entered into a service agreement with the NIH Central Services Budget and Accounting Branch (CSBAB) for budget and financial management services for FY 2004. This will allow CSR to save two FTEs. Because the CSBAB has established streamlined business practices in both budget and financial management processing, there are beneficial economies of scale that CSR can realize. This relationship between the CSBAB and central service organizations such as CSR is not typical in Institutes with appropriated funding where the budget office and program offices work closely together in the formulation of their budgets.

In September 2003, NIH won its bid to provide extramural support services through a Most Efficient Organization (MEO) staffed by NIH employees. This decision meant that the extramural support services provided by NIH would be restructured according to the staffing model and business practices proposed for the MEO. The new organization, called the Division of Extramural Activities Support (DEAS), is a component of the NIH Office of Extramural Research. To transition from the current business practices to those outlined in the winning bid, NIH management chartered a transition team. This team, chaired by CSR Executive Officer David Whitmer, was responsible for high-level decisions as well as for chairing and tasking the subcommittees and working groups. The team focused on key issues such as identifying and interpreting the functions and personnel that are within and out of the scope of the MEO; refining the staffing structure for DEAS and establishing timelines for staffing and hiring; and recommending tools such as hiring/promotion freezes, buyouts and early-outs to minimize the number of employees headed for transition status. The Transition Team's accomplishments span the range of activities involved in the wholesale transformation of 25 distinct operations into a single organization. The Transition Team also coordinated transition activities as they related to administrative consolidation efforts. The Team and its subcommittees and working groups played essential roles in numerous startup activities including, but not limited to, recruiting, hiring and reassigning staff to DEAS; developing an electronic work request and tracking system for extramural support services; developing best practices for the new organization; analyzing contracts for in-scope functions; and communicating about transition activities to NIH employees and officials whose jobs and work were affected by the changeover.



**Expected Changes in the Division in Fiscal Year 2005**

**Streamlined SREA Reimbursement:** Currently, CSR reimburses consultants using detailed travel vouchers accompanied by receipts. Auditing and paying these vouchers is time-consuming and labor-intensive. CSR is working with staff in the Office of Management Assessment to implement a flat rate approach at NIH, similar to that used by the National Science Foundation.

**Renovations in Rockledge II:** With the new building lease signed, DMS staff is now planning major renovations to interior office space to take advantage of fewer support staff cubicles, reductions in processing room space, and other more efficient use of our floor space to yield at least an additional 50 professional staff offices. CSR will need these additional offices for current and future growth in the number of SRAs at CSR.

**Division Staff:**

**David Whitmer**

**Director**

Tanjanika Fishburne*	Program Analyst
Mac Hadley	Workforce Plan Development Specialist
Carolyn ( Suzi ) Hugueley	Human Resources Specialist
Terry Valladares	Project Manager
Vacant	Budget Officer

**Administrative Services Branch**

Georgina Baumgartner	Administrative Officer/Management Analyst
Mimi Bishop	Administrative Tech
Robert Buxton	Mail Clerk
Juanita Colon	Administrative Technician
Marilyn Cuzzolina	Administrative Officer
Keyvan Ebrahimi-Farokh	Administrative Technician
Edwin Echegoyen	Administrative Officer/SREA Officer
Sandra Franklin	Clerk
Chris Gregory	Supply Clerk
NaDel Griffith	Administrative Officer
Sean Hinson	Supply Clerk
Jeanne Macino	Administrative Officer
Thomas Robb	Support Services Supervisor
India Robinson	Administrative Officer
Thao Tran	Administrative Technician
Andrew Wehrle	Supply Clerk

**Travel and Consultant Reimbursement Section**

Donna Brown	Accounting Technician
Beverly Copeland	Program Assistant
Paula Dinterman	Transportation Assistant
Eva Marmon-Halm	Accountant
Dawayne Nutt	Financial Analyst
Yingtao Zhu	Accountant

**Committee Management Branch**

Gloria Duvall  
 Salita Kelley  
 Terri Myers #\*  
 Karen Oden  
 Carol Scibek

Committee Management Assistant  
 Committee Management Assistant  
 Office Automation Clerk  
 Committee Management Assistant  
 Committee Management Officer

**Technology Services Branch**

Tyrone Anderson  
 Dr. Dipak Bhattacharyya  
 James Blagaich  
 Cole Border  
 Rob Brunner  
 Sanjay Dharanidhar  
 Eugene Diggs  
 Nancy Hafele  
 Chris Halligan  
 Joyce Ingle  
 Steve Johnson  
 Regina Kobilis  
 Jan Arthur Levy  
 Richard McKay  
 Melvin Olivo  
 Johnny Richardson  
 Eric Rickford \*  
 Alex Schultz  
 Yuliya Shifrin  
 Matthew Stormer  
 Carlton Williams  
 Leo Wu  
 Patricia Young  
 Randy Yun

Program Support Specialist  
 Web Developer  
 IT Specialist  
 Desktop Technician  
 Program Support Specialist  
 Web Developer  
 IT Specialist  
 IT Specialist  
 Desktop Technician  
 IT Specialist  
 Desktop Technician  
 Systems Analyst  
 IT Specialist  
 Chief  
 Desktop Technician  
 Desktop Technician  
 IT Technician  
 IT Specialist  
 Database Specialist  
 Desktop Technician  
 IT Specialist  
 Web Developer  
 IT Specialist  
 Desktop Technician

\* Left CSR in fiscal year 2004

# Joined CSR in fiscal year 2004

## CSR Advisory Committee Members

The CSR Advisory Committee (CSRAC) met in January, May and September 2004. It provided technical and scientific advice to the NIH Director and the CSR Director on matters relating broadly to review procedures and policies for the evaluation of scientific and technical merit of applications for grants and awards. The CSRAC held its final meeting in September 2004. The minutes from past CSRAC meetings are available on the CSR Internet site at <http://www.csr.nih.gov/drgac/drgac.asp>.

### 2004 Committee Members:

#### Chair

Michael A. Leon, Ph.D.

#### Dates of service

08/21/2003 - 06/30/2007

#### Members

Susan M. Berget, Ph.D.

09/12/2000 - 06/30/2004

James E.K. Hildreth, M.D., Ph.D.

09/23/2003 - 06/30/2007

Edward N. Pugh, Jr., Ph.D.

11/15/2001 - 06/30/2005

Lucia B. Rothman-Denes, Ph.D.

11/21/2000 - 06/30/2004

David I. Soybel, M.D.

07/01/2002 - 06/30/2006

David R. Williams, Ph.D., MPH

07/01/2002 - 06/30/2006

Matthew M. Winkler, Ph.D.

08/20/2003 - 06/30/2007

#### Ad Hoc Members

Robert D. Hammond, Ph.D.

Franklyn Prendergast, M.D., Ph.D.

Anne P. Sassaman, Ph.D.

Craig J. McClain, M.D.

Norman S. Braveman, Ph.D.

#### Ex Officio Member

Brent B. Stanfield, Ph.D.

#### Executive Secretary

Karl Malik, Ph.D.

## Acknowledgements

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- Mac Hadley
- Terry Valladares
- Suzi Hugueley
- Terra Vinson
- Division Directors Suzanne Fisher, Michael Martin, Elliot Postow, Don Schneider, Anita Miller Sostek, and David Whitmer
- Don Lockett
- Mary Elizabeth Mason
- Brent Stanfield

## Appendix 1. Directory of CSR Reviewers

### Reviewers who served as regular members on chartered study sections

Name	Institution	IRG
Leonard J. Abbeduto, PhD	University of Wisconsin, Madison	BBBP
Antonia A. Abbey, PhD	Wayne State University	AARR
Sarki A. Abdulkadir, MD, PhD	University of Alabama, Birmingham	ONC
Thomas W. Abrams, PhD	University of Maryland, Baltimore	MDCN
Nada A. Abumrad, PhD	State University of New York, Stony Brook	EMNR, NMS
Naji N. Abumrad, MD	Vanderbilt University	DIG, PPS
Sharon H. Ackerman, PhD	Wayne State University	BCS
Michael W. Adams, PhD	University of Georgia	IDM
Lucile L. Adams-Campbell, PhD	Howard University	HOP
John P. Adelman, PhD	Oregon Health & Science University	MDCN
Kenneth B. Adler, PhD	North Carolina State University	PPS, RES
Samuel E. Adunyah, PhD	Meharry Medical College	ONC
Rajesh Agarwal, PhD	University of Colorado Health Sciences Center	ONC
Aneel K. Aggarwal, PhD	Mount Sinai School of Medicine	BPC
Krishna C. Agrawal, PhD	Tulane University	ONC
Joseph M. Ahearn, MD, PhD	University of Pittsburgh	IMM
Sunil K. Ahuja, MD	University of Texas	AARR
Christopher R. Aiken, PhD	Vanderbilt University	AARR
Myles H. Akabas, MD, PhD	Albert Einstein College of Medicine, Yeshiva University	MDCN
Susan F. Akana, PhD	University of California, San Francisco	IFCN
Ramesh K. Akkina, DVM, PhD	Colorado State University	AARR
Roger L. Albin, MD	University of Michigan, Ann Arbor	BDCN
Jorge E. Albina, MD	Brown University	SBIB, SRB
Eugene D. Albrecht, PhD	University of Maryland	EMNR, ENR
Edson X. Albuquerque, MD, PhD	University of Maryland, Baltimore	BDCN
Grace M. Aldrovandi, MD	University of Southern California	AARR
Barbara Rita Alevriadou, PhD	Ohio State University	SRB
Gene E. Alexander, PhD	Arizona State University	BDCN
Francis C. Ali-Osman, DSc, PhD	Duke University	ONC
David Alland, MD	University of Medicine & Dentistry of New Jersey	AARR
Karen N. Allen, PhD	Boston University	BCS
Philip A. Allen, PhD	University of Akron	BBBP
Kevin D. Alloway, PhD	Pennsylvania State University	IFCN
Laura A. Almasy, PhD	Southwest Foundation for Biomedical Research	GNS
Steven C. Almo, PhD	Albert Einstein College of Medicine, Yeshiva University	CDF
Meenakshi Alreja, PhD	Yale University	IFCN
George C. Alter, PhD	Indiana University	HOP
Duane Alwin, PhD	Pennsylvania State University	RPHB
Victor R. Ambros, PhD	Dartmouth College	GNS
Christine B. Ambrosone, PhD	Roswell Park Cancer Institute	HOP
Robert T. Ammerman, PhD	Children's Hospital Medical Center (Cincinnati)	RPHB
Anne Anderson, MD	Baylor College of Medicine	BDCN
Barbara J. Anderson, PhD	Baylor College of Medicine	RPHB
Harrison C. Anderson, MD, PhD	University of Kansas	MOSS
Vernon E. Anderson, PhD	Case Western Reserve University	BPC

<b>Name</b>	<b>Institution</b>	<b>IRG</b>
Deborah J. Andrew, PhD	Johns Hopkins University	BDA
Norma W. Andrews, PhD	Yale University	IDM
Oourania M. Andrisani, MD, PhD	Purdue University	EMNR, ENR
Michael A. Andrykowski, PhD	University of Kentucky	GNS
Dora E. Angelaki, PhD	Washington University	IFCN
Aftab A. Ansari, PhD	Emory University	AARR
Asok C. Antony, MD	Indiana University	EMNR, NMS
Piero Anversa, MD	New York Medical College	CVS
Gregory W. Aponte, PhD	University of California, Berkeley	EMNR, NMS
Suneel S. Apte, Mbbs	Cleveland Clinic Foundation	BCS
Lenore Arab, PhD	University of North Carolina	HOP
Victoria Arango, PhD	Columbia University	BDCN
Manuel Ares, PhD	University of California, Santa Cruz	CDF
David R. Armant, PhD	Wayne State University	EMNR, ENR
William E. Armstrong, PhD	University of Tennessee	IFCN
Julia H. Arnsten, MD	Albert Einstein College of Medicine, Yeshiva University	AARR
Jaroslav A. Aronowski, PhD	University of Texas Health Science Center, Houston	BDCN
Vadim Y. Arshavsky, PhD	Harvard University	CDF
F. Gregory Ashby, PhD	University of CALIFORNIA, Santa Barbara	BBBP
James A. Ashton-Miller, PhD	University of Michigan, Ann Arbor	MOSS
Gary S. Aston-Jones, PhD	University of Pennsylvania	IFCN
Walter J. Atwood, PhD	Brown University	IDM
Anthony L. Auerbach, PhD	State University of New York, Buffalo	MDCN
William R. Avison, PhD	University of Western Ontario	RPHB
Hava K. Avraham, PhD	Harvard University	HEME
Tak Yee Aw, PhD	Louisiana State University	DIG
Sanjay Awasthi, MD	University of Texas, Arlington	ONC
Alfred Ayala, PhD	Brown University	SBIB, SRB
Paul L. Babitzke, PhD	Pennsylvania State University	IDM
John A. Badwey, PhD	Harvard University	IDM
Stephen F. Badylak, DVM, MD	University of Pittsburgh	SBIB, SRB
Wolfgang Baehr, PhD	University of Utah	CDF
C. Noel Bairey Merz, MD	Cedars-Sinai Medical Center	RPHB
Sandra M. Bajjalieh, PhD	University of Washington	MDCN
Dare Ann Baldwin, PhD	University of Oregon	BBBP
H. Scott Baldwin, MD, PhD	Vanderbilt University	CVS
Julie A. Baldwin, PhD	Northern Arizona University	AARR
Laura-Mae Baldwin, MD	University of Washington	HOP
C. William Balke, MD	University of Maryland	CVS
David J. Ballard, MD, PhD	Baylor Health Care System	HOP
Peter D. Balsam, PhD	Columbia University	BBBP
Jacques F. Banchereau, PhD	Baylor Research Institute	IMM
Hamid Band, MD, PhD	Northwestern University	ONC
Vimla Band, PhD	Northwestern University	ONC
Karen J. Bandeen-Roche, PhD	Johns Hopkins University	HOP
Emmalee S. Bandstra, MD	University of Miami	BBBP
James D. Bangs, PhD	University of Wisconsin, Madison	IDM
Vytas A. Bankaitis, PhD	University of North Carolina, Chapel Hill	CDF
Michael J. Bannon, PhD	Wayne State University	MDCN
Gilda A. Barabino, PhD	Northeastern University	SBIB, SRB
Helen Barbas, PhD	Boston University	IFCN
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<b>Name</b>	<b>Institution</b>	<b>IRG</b>
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Suzanne R. Zukin, PhD	Albert Einstein College of Medicine, Yeshiva University	MDCN
Zofia Zukowska, MD, PhD	Georgetown University	CVS
Andrea L. Zukowski, PhD	University of Maryland, College Park	BBBP
Wayne S. Zundel, MD, PhD	University of Colorado Health Sciences Center	ONC
Michael J. Zvolensky, PhD	University of Vermont	BBBP
Adam Zweifach, PhD	University of Colorado Health Sciences Center	CDF, IMM

## Appendix 2: Applications reviewed by CSR in fiscal year 2004, by Council round and by activity codes

Activity	January 2004	May 2004	October 2004	Total	Percent
D43		55		55	0.12%
D71	6			6	0.01%
F30	8	13	6	27	0.06%
F31	253	459	441	1,153	2.45%
F32	624	891	733	2,248	4.78%
F33	5	10	9	24	0.05%
K01	21	25	42	88	0.19%
K02	6	7	6	19	0.04%
K05		3		3	0.01%
K08	14	19	17	50	0.11%
K22	1			1	0.00%
K23	26	30	20	76	0.16%
K24	6	5	7	18	0.04%
K25	4	3	3	10	0.02%
L30			1	1	0.00%
P01	8	8	11	27	0.06%
P20		2	1	3	0.01%
P40	1		1	2	0.00%
P41	8	12	6	26	0.06%
P50			1	1	0.00%
R01	8,362	9,903	9,347	27,612	58.75%
R03	399	478	486	1,363	2.90%
R13	35	3	1	39	0.08%
R15	198	240	197	635	1.35%
R21	1,630	1,958	2,233	5,821	12.39%
R24	4	24	6	34	0.07%
R25	10	52	20	82	0.17%
R33	4	2	25	31	0.07%
R34	3	2	1	6	0.01%
R37	36	24	9	69	0.15%
R41	196	186	218	600	1.28%
R42	31	34	32	97	0.21%
R43	1,643	1,673	1,630	4,946	10.52%
R44	339	393	363	1,095	2.33%
R55	1	3		4	0.01%
S10	261	77	222	560	1.19%
T15			13	13	0.03%
T35			4	4	0.01%
U01	5	21	40	66	0.14%
U13	1			1	0.00%
U19	7			7	0.01%
U2R	24			24	0.05%
U54			53	53	0.11%
<b>Total</b>	<b>14,180</b>	<b>16,615</b>	<b>16,205</b>	<b>47,000</b>	<b>100%</b>

### Appendix 3: Applications Reviewed by CSR by Funding IC

Funding IC	January 2004	May 2004	October 2004	Total	Percent
NIAAA	185	166	175	526	1.12%
NIA	513	601	727	1,841	3.92%
NIAID	1,810	1,992	1,975	5,777	12.29%
NIAMS	404	441	481	1,326	2.82%
NCCAM	55	66	99	220	0.47%
NCI	2,059	2,396	2,315	6,770	14.40%
NIDA	361	442	484	1,287	2.74%
NIDCD	220	236	260	716	1.52%
NIDCR	200	234	215	649	1.38%
NIDDK	1,007	1,286	1,194	3,487	7.42%
NIBIB	364	510	541	1,415	3.01%
NIEHS	289	298	290	877	1.87%
NEI	346	417	404	1,167	2.48%
NIGMS	1,445	1,703	1,648	4,796	10.20%
NICHHD	715	972	885	2,572	5.47%
NHGRI	111	132	107	350	0.74%
NHLBI	1,269	1,629	1,476	4,374	9.31%
NLM	20	38	29	87	0.19%
NCMHD	5	3	4	12	0.03%
NIMH	989	1,091	965	3,045	6.48%
NINR	145	168	185	498	1.06%
NINDS	1,131	1,341	1,255	3,727	7.93%
NCRR	397	246	378	1,021	2.17%
FIC	125	158	70	353	0.75%
Non-NIH <sup>9</sup>	15	49	43	107	0.23%
<b>Total</b>	<b>14,180</b>	<b>16,615</b>	<b>16,205</b>	<b>47,000</b>	<b>100%</b>

<sup>9</sup> Includes the CDC, FDA, AHRQ, and other DHHS agencies for which CSR occasionally reviews applications