Proteomic and Metabolomic Approaches to Diagnose Diabetes and Pre-Diabetes

More than 5 million adults in the United States have undiagnosed type 2 diabetes mellitus, and another 38 million with pre-diabetes are at increased risk for developing diabetes. The lack of a simple and reliable way to detect diabetes and pre-diabetes has hindered identification of these individuals and provision of effective therapies. The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) encourages the application of proteomic and other novel technologies to develop new diagnostic tests and/or to identify new biomarkers for the diagnosis of pre-diabetes and/or diabetes that do not require fasting or glucose administration.

Diabetes is a metabolic disease characterized by hyperglycemia that in 2002 affected nearly 9% of U.S. adults. More than 90% of the people with diabetes have type 2 diabetes. The symptoms of type 2 diabetes develop gradually. Some people have no symptoms until after they develop complications, which could have been prevented or delayed with early diagnosis and effective treatment. Additionally, 38 million U.S. adults aged 40–74 have pre-diabetes. Pre-diabetes is defined as impaired fasting glucose or impaired glucose tolerance (http://www.diabetes.org/diabetes-prevention/pre-diabetes.jsp). These individuals have glucose levels above normal but below the level needed for diagnosis of diabetes. They are at increased risk of cardiovascular disease compared to those with normal glucose tolerance, and are at substantial risk for developing diabetes.

Clinical trials have demonstrated effective interventions for preventing or delaying complications in those with diabetes and for preventing or delaying onset of diabetes in those with pre-diabetes. However, millions of Americans are not receiving effective therapy, in part due to the limitations of current methods of diagnosing diabetes and pre-diabetes. The oral glucose tolerance test (OGTT)—the gold standard for diagnosis of diabetes and pre-diabetes—is inconvenient, requires fasting, and is not highly reproducible. The fasting blood glucose is less burdensome but much less sensitive, particularly in older Americans, who have the highest prevalence of diabetes and pre-diabetes. The quantitation of hemoglobin A1c (a glycated form of hemoglobin) from blood has been widely used as a test for assessing the adequacy of glycemic control and risk of complications in diabetic patients, but this test is not sufficiently sensitive to detect the range of glucose values typically seen in pre-diabetes or new-onset type 2 diabetes. Furthermore, there are many variants of hemoglobin present in blood, particularly in minority populations that are disproportionately affected by diabetes, and this adds additional uncertainty to the use of this test.

A simplified, less burdensome approach to the diagnosis of diabetes and pre-diabetes would facilitate increased recognition and improved care of these conditions. Many proteins and other blood components may be modified in individuals with elevated blood glucose. Identification of these molecules or of identifiable correlates of hyperglycemia would facilitate development of potential new laboratory tests for diagnosis of diabetes and pre-diabetes. With this initiative, we are encouraging scientists with expertise in proteomics and metabolomics to develop new tests to detect pre-diabetes and diabetes that correlate with the results of the OGTT but do not require fasting or administration of glucose.

Proteomic and metabolomic approaches have been successfully used for studying complex biological problems and for the identification of disease markers. Recent developments indicate that these technologies could be used or appropriately modified for developing new methods to diagnose diabetes and pre-diabetes. For example, mass spectrometry has been successfully used for the identification and quantitation of large numbers of proteins from plasma. Similar studies were performed for quantifying large numbers of metabolites. In some cases, fractionation prior to the mass spectrometric analysis was shown to be very effective for increasing the number of proteins and metabolites that could be identified, and further development in fractionation methodologies could perhaps be the key for the identification of novel biomarkers. The use of isotopically labeled reagents recently made many proteomic methodologies usable for quantitative studies, and further development of these reagents might also lead to a more comprehensive analysis of the sera proteome and possible identification of novel biomarkers.

This initiative solicits the application of proteomic and metabolomic technologies for the development of novel methodologies and/or the identification of new biomarkers for the diagnosis of pre-diabetes and type 2 diabetes that do not require fasting or glucose administration. To facilitate this effort, plasma from well-characterized individuals of diverse racial and ethnic backgrounds with normal glucose tolerance, impaired glucose tolerance, and type 2 diabetes will be made available to investigators for validation of potential new diagnostic tests.

The novel diagnostic test could ultimately be used in place of the OGTT, if adequately validated, or for the identification of high-risk individuals who should undergo testing for diabetes and pre-diabetes using a more functional assay such as the OGTT. Focused deployment of the OGTT in appropriately selected individuals would reduce costs, limit burden, and improve the yield of diagnostic testing for diabetes and pre-diabetes.

This special-emphasis program announcement (PAR) will use the NIH Exploratory/Development Research Grant (R21) combined with the Exploratory/Development Research Grant Phase 2 (R33). The R33 is an NIH grant mechanism that provides a second phase for the support of innovative exploratory and developmental research initiated under the R21 mechanism. The transition of the R21 to the R33 phase will be expedited and is dependent on completion of negotiated milestones. As an applicant, you will be solely responsible for planning, directing, and executing the proposed project. This PAR is a one-time solicitation. Future unsolicited, competing-continuation applications based on this project will have to be submitted using a standard R01 or R21 mechanism, will compete with all investigator-initiated applications, and will be reviewed according to the customary peer-review procedures.

To be considered for the transition to the R33 phase, the applicant must show that he/she has identified differences between the pre-diabetes, diabetes, and normal patient samples provided by the NIDDK for the R21 phase (i.e., applicant must have identified at least one potential biomarker for pre-diabetes and/or diabetes). These differences should be determined in a reproducible and quantitative way and with a throughput that shows promise for translation to a clinical setting. In addition, the investigator can include in the proposal the use of samples from other clinical studies for optimizing or further validating the methodology.

For the purpose of assessing research progress and facilitating interaction between the 4–5 funded principal investigators, a workshop will be held in May/June 2006 in Bethesda, Maryland. All funded principal investigators are required to attend, and collaborators are encouraged to participate. Funds for attending this meeting should be included in the budget proposal.

This PAR uses just-in-time concepts. It also uses the modular as well as the nonmodular budgeting formats (see http://grants.nih.gov/grants/funding/modular/modular.htm). Specifically, if you are submitting an application with direct costs in each year of $250,000 or less, use the modular format. Otherwise, follow the instructions for nonmodular research grant applications. This program does not require cost sharing as defined in the current NIH Grants Policy Statement at http://odoerdb2.od.nih.gov/gmac/nihgps_2003/index.htm.

The NIDDK intends to commit approximately $1 million in direct costs for fiscal year 2005 to fund 4–5 new grants in response to this PAR. An applicant may request a project period of 2 years for the R21 phase and 3 years for the R33 phase. The R21 phase may not exceed $250,000 in direct costs per year. The R21 budgets can exceed this cap to accommodate facilities and administrative costs to subcontracts to the project, in which case a nonmodular budget format must be used. The R33 application has a budgetary limit of $500,000 in direct costs for each year. Awards pursuant to this PAR are contingent upon the availability of funds and the receipt of a sufficient number of meritorious applications.

Applications must be prepared using the PHS 398 research grant application instructions and forms (rev. 5/2001). Applications must have a Dun and Bradstreet Data Universal Numbering System (DUNS) number as the Universal Identifier when applying for federal grants or cooperative agreements. The DUNS number can be obtained by calling 1-866-705-5711 or through the website at http://www.dunandbradstreet.com/. The PHS 398 document is available at http://grants.nih.gov/grants/funding/phs398/phs398.html in an interactive format. For further assistance, contact GrantsInfo, 301-435-0714, e-mail: GrantsInfo@nih.gov.

Letters of intent are due 18 June 2004, with applications due 20 July 2004. The anticipated award date is 1 April 2005. Applications that are not funded in the competition described in this PAR may be resubmitted as new investigator-initiated applications using the standard receipt dates for new applications described in the instructions to the PHS 398 application. For more information on this PAR, see http://grants.nih.gov/grants/guide/pa-files/PAR-04-076.html.

Contact: Direct questions about scientific and research issues to Salvatore Sechi, Division of Diabetes, Endocrinology, and Metabolic Diseases, NIDDK, 6707 Democracy Blvd, Rm 611, Bethesda, MD 20892-5460 USA, 301-594-8814, fax: 301-480-2688, e-mail: ss24q@nih.gov; direct questions about peer review issues to Francisco O. Calvo, Division of Extramural Activities, NIDDK, 6707 Democracy Blvd, Rm 752, Bethesda, MD 20892-5452 USA, 301-594-8897, fax: 301-480-3505, e-mail: fc15y@nih.gov; direct questions about financial and grants management matters to Kathleen Shino, Grants Management Branch, NIDDK, 6707 Democracy Blvd, Rm 708, Bethesda, MD 20892-5460 USA, 301-594-8869, fax: 301-594-9523, e-mail: ks48e@nih.gov. Reference: PA No. PAR-04-076

***In Vivo* Cellular and Molecular Imaging Centers (ICMICs)**

The Cancer Imaging Program, a program of the Division of Cancer Diagnosis and Treatment of the National Cancer Institute (NCI), invites applications for new or competing P50 research center grants for *In Vivo* Cellular and Molecular Imaging Centers (ICMICs). This initiative is designed to capitalize on the extraordinary opportunity for molecular imaging to have an impact on the diagnosis and treatment of cancer patients noninvasively and quantitatively. Molecular imaging technologies can provide valuable laboratory tools for the interrogation of biological pathways relevant to cancer, as well as to provide imaging agents and technologies that will be directly utilized in the clinic.

The 5-year P50 ICMIC grants described in this program announcement (PAR) are designed to bring together interdisciplinary scientific teams to lead the nation in cutting-edge cancer molecular imaging research with clinical relevance, provide unique core facilities to support oncology imaging research, provide flexibility to respond to exciting pilot research opportunities, and provide interdisciplinary career development opportunities for investigators new to the field of molecular cancer imaging. The P50 mechanism will promote coordination, interrelationships, and scientific synergy among the research components and resources, leading to a highly integrated imaging center.

The field of molecular imaging has made significant advances in recent years. The formation of multidisciplinary research teams has stimulated and streamlined cancer imaging research from inception to use in patient care. The P50 ICMIC structure allows mechanistic flexibility for each institution to capitalize on its own unique scientific strengths, and to define the structure and research objectives that create the most synergistic and creative scientific interactions. In general, an ICMIC will provide researchers with the following critical resources, as described below:

The ICMICs will provide an organizational structure specifically designed to facilitate multidisciplinary interactions among investigators focused on the ultimate goal of discovering, developing, and translating molecular imaging technologies that will have eventual impact in the clinic. This structure will provide researchers with access to a concentrated pool of expertise in a wide range of disciplines. The structure of the ICMIC will be designed to provide investigators with the means to conduct multidisciplinary research in a highly collaborative atmosphere; investigators will also have consistent access to expertise, with minimal wasted time and effort. Personnel may be scientists from a variety of fields including, but not limited to, imaging sciences, chemistry, radiopharmaceutical chemistry, cell and molecular biology, pathology, pharmacology, computational sciences, and biomedical engineering. Other specialists in fields such as MRI physics, immunology, or neuroscience, for example, may also be involved. Most importantly, ICMIC personnel must demonstrate an eagerness to collaborate outside of their own disciplines. The nature of these interactions will be determined by the applicants, and emphasis will be placed on establishing creative, productive, and synergistic interactions with eventual clinical impact.

The ICMICs will provide funding for a minimum of three research components. Research components will apply multidisciplinary approaches to molecular imaging. Individual research projects will be structured in order to maximize appropriate scientific interaction between the projects and coordinated utilization of the center's specialized resources as described below. Each research component will be similar in size and scope to a typical R01 or subproject of a P01, and will be expected to meet the same standards of preliminary data in support of the hypotheses.

The ICMICs will provide specialized resource facilities and services. A barrier to productive scientific interaction is the lack of available facilities for cross-disciplinary experiments. Demands on equipment, resources, and reagents in every scientific area are extremely high, and these demands prohibit ready access for investigators interested in expanding their studies into new areas of research. The establishment of specialized resources dedicated to ICMIC-related research will provide this access. The specialized resource(s) will be determined by the requirements of the institution, the defined scientific goals of the research components of the ICMIC, and budgetary limits. Prioritization of the research projects supported through ICMIC specialized resources will be an essential function of the ICMIC's leadership, and the mechanism to be employed for prioritization must be delineated by the applicants. Resource facilities may be utilized by active members of the ICMIC and will also be available to investigators supported through developmental funds.

ICMICs will provide developmental funds for feasibility testing of new projects. A high priority of each ICMIC will be the identification and support of pilot projects that identify and stimulate interdisciplinary projects that will take full advantage of emerging research opportunities. The selection of projects will be through a review process established by the ICMIC's leadership.

The portfolio of ongoing projects in any given program is expected to be extremely dynamic. This fund is not to be used to support traditional, ongoing projects that could readily be supported through R01s. It is not appropriate to use for projects that utilize single areas of expertise or to support the continuation of previously funded research projects, and developmental projects may not be supported for more than 2 years. Necessary equipment should be provided through the appropriate specialized resource. These projects are to be monitored closely by the ICMIC leadership. Investigators working on projects supported through the development fund must understand that they will be expected to compete for independent R01 funding when the projects become sufficiently mature. Alternately, if it becomes obvious that the project will not provide the expected results, a plan should be in place for terminating a development project.

ICMICs will provide career development opportunities for new and established investigators. Current graduate programs are generally focused on single disciplines and may be inadequate to train the needed cadre of interdisciplinary imaging scientists. The ICMICs will provide support for a limited number of pre- and postdoctoral trainees in a program to be defined by the applicants. Career development opportunities through the ICMIC will be expected to be highly cross-disciplinary.

This PAR will use the NIH P50 Specialized Centers Grant mechanism. As an applicant, you will be solely responsible for planning, directing, and executing the proposed project. The total project period for a P50 application submitted in response to this PAR may not exceed 5 years. The total costs requested for a new or competing renewal P50 ICMIC application may not exceed a maximum of $2 million per year. The NCI anticipates awarding 2 new or competing P50 ICMICs each year.

This PAR uses just-in-time concepts. It also uses the nonmodular budgeting formats. Follow the instructions for nonmodular budget research grant applications. This program does not require cost sharing as defined in the current NIH Grants Policy Statement at http://grants.nih.gov/grants/policy/nihgps_2003/NIHGPS_Part2.htm.

ICMIC investigators will be expected to participate in ICMIC workshops and investigator meetings as necessary to share results with other ICMICs, share materials, assess progress, identify new research opportunities, and establish interactions and research priorities and collaborations. Travel funds for the principal investigator and selected ICMIC investigators and collaborators may be budgeted for this purpose.

For those projects that involve clinical trials, investigators must include a general description of the data and safety monitoring plan (for details, see http://grants.nih.gov/grants/guide/notice-files/NOT-OD-00-038.html) in the application. All clinical trials supported or performed by NIH require some form of monitoring. The method and degree of monitoring should be commensurate with the degree of risk involved in participation and the size and complexity of the clinical trial. Monitoring exists on a continuum from monitoring by the principal investigator/project manager or NIH program staff to a data and safety monitoring board. These monitoring activities are distinct from the requirement for study review and approval by an institutional review board. For further details about the policy of the data and safety monitoring of clinical trials, see http://deainfo.nci.nih.gov/grantspolicies/datasafety.htm.

All investigator-initiated applications with direct costs greater than $500,000 in any single year will be expected to address data sharing (see http://grants.nih.gov/grants/guide/notice-files/NOT-OD-03-032.html) in their application.

Applications must be prepared using the PHS 398 research grant application instructions and forms (rev. 5/2001). Applications must have a Dun and Bradstreet Data Universal Numbering System (DUNS) number as the Universal Identifier when applying for federal grants or cooperative agreements. The DUNS number can be obtained by calling 1-866-705-5711 or through the website at http://www.dunandbradstreet.com/. The PHS 398 document is available at http://grants.nih.gov/grants/funding/phs398/phs398.html in an interactive format. For further assistance, contact GrantsInfo, 301-435-0714, e-mail: GrantsInfo@nih.gov.

Letters of intent are due 22 June 2004 or 21 June 2005, with applications due 22 July 2004 or 21 July 2005. For more information, see http://grants.nih.gov/grants/guide/pa-files/PAR-04-069.html.

Contact: Direct questions about scientific and research issues to Anne E. Menkens, Cancer Imaging Program, NCI, 6130 Executive Blvd, EPN Rm 6068, Bethesda, MD 20892-8329 USA, 301-496-9531, fax: 301-480-3507, e-mail: am187k@nih.gov; direct questions about peer review issues to the Referral Officer, Division of Extramural Activities, NCI, 6116 Executive Blvd, Rm 8041, MSC 8329, Bethesda, MD 20892-8329 USA, 301-496-3428, fax: 301-402-0275, e-mail: ncirefof@dea.nci.nih.gov; direct questions about financial and grants management matters to Kathryn Dunn, Grants Management Specialist, Grants Administration Branch, NCI, 6120 Executive Blvd, EPS Rm 243, Bethesda, MD 20892 USA, 301-846-6829, fax: 301-846-5720, e-mail: dunnkath@mail.nih.gov. Reference: PA No. PAR-04-069

Positions are available in the following fields of study:

- Immunotoxicology
- Molecular Epidemiology
- Molecular Carcinogesis
- Musculoskeletal Disorders
- Neurotoxicology
- Pulmonary Toxicology
- Receptor Biology

NIOSH

The National Institute for Occupational Safety & Health (NIOSH) in Morgantown, WV - voted "Best Small City in the East and 3rd Best in the Nation" - announces openings for **Postdoctoral Research** positions in the Health Effects Laboratory Division (HELD).

HELD conducts focused, basic, applied, and preventive laboratory research for controlling and preventing workplace safety and health problems.

A **background** in cell biology, biochemistry, molecular biology, and/or pharmacology/toxicology with research experience in toxicology, pharmacology, and/or molecular biology is required.

Salaries start at $47,000 (or GS-11 equivalents) commensurate with experience. Benefit packages are included. Relocation expenses are available. NIOSH is an affirmative action/equal opportunity employer.

Applicants should send a curriculum vitae and a cover letter, describing their area of research and how their expertise will be applied to occupational research, to:

CDC-NIOSH
Robert A. Lanciotti, Ph.D.
1095 WIllowdale Rd. M/S 3014
Morgantown, WV 26505
email: RLanciotti@cdc.gov

www.cdc.gov/niosh/held.html

Morgantown, West Virginia
Wild & Wonderful

NIEHS

POSTDOCTORAL RESEARCH POSITIONS

Department of Health and Human Services, National Institutes of Health
National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina **http://dir.niehs.nih.gov**

Activating Chromatin in Cancer by Nuclear Receptors
Trevor K. Archer, Ph.D. (archer1@niehs.nih.gov)

Autoimmune Disease Epidemiology
Glinda Cooper, Ph.D. (juras@niehs.nih.gov)

Cancer Cell Adhesion
Steven Akiyama, Ph.D. (akiyama@niehs.nih.gov)

Crystallographic Analysis of Phagocyte Receptors
Jeffrey C. Boyington, Ph.D. (boyingt1@niehs.nih.gov)

Cyclooxygenases in Cancer and Development
Robert Langenbach, Ph.D. (langenb1@niehs.nih.gov)

Cytochrome P450 Metabolism of Arachidonic Acid
Darryl C. Zeldin, M.D. (zeldin@niehs.nih.gov)

Eicosanoids and Pulmonary Immune Function
Darryl C. Zeldin, M.D. (zeldin@niehs.nih.gov)

Epidemiology of Respiratory Disease
Stephanie London, M.D., Ph.D. (juras@niehs.nih.gov)

Function of ABCA13 and Its Relationship to Carcinogenesis
Raymond W. Tennant, Ph.D./Ronald E. Cannon, Ph.D.(cannon1@niehs.nih.gov)

G-Protein Coupled Receptor Structural Studies
Mariel Birnbaumer, Ph.D. (birnbau2@niehs.nih.gov)

Genetic Basic for Variation in Human Gene Expression Profiles
Douglas A. Bell, Ph.D. (bell1@niehs.nih.gov)

Genetic Epidemiology and Haplotype Construction
Jack A. Taylor, M.D., Ph.D., (taylor@niehs.nih.gov)

Genetic Susceptibility to Respiratory Disease
Stephanie London, M.D., Ph.D. (juras@niehs.nih.gov)

Genome Stability and Impact of DNA Repair, Recombination and Replication
Michael A. Resnick, Ph.D. (resnick@niehs.nih.gov)

Glucocorticoid and Orphan Nuclear Receptor Action
John A. Cidlowski, Ph.D. (cidlows1@niehs.nih.gov)

Mapping Genetic Loss of Heterozygosity in Tumorigenesis
John E. French, Ph.D. (french@niehs.nih.gov)

Mechanisms of Mutagenesis
Roel M. Schaaper, Ph.D. (schaaper@niehs.nih.gov)

Molecular and Cell Biology of the Estrogen-related Receptors
Christina Teng, Ph.D. (teng@niehs.nih.gov)

Molecular Basis for Apoptosis and Regulation of Apoptosis
John A. Cidlowski, Ph.D. (cidlows1@niehs.nih.gov)

Molecular Neurobiology
J.S. Hong, Ph.D. (hong3@niehs.nih.gov)

Neuronal and Glia Interactions: Degeneration and Neurogenesis
G. Jean Harry, Ph.D. (harry@niehs.nih.gov)

Pediatric Epidemiology
Walter J. Rogan, M.D. (juras@niehs.nih.gov)

Promoter Sequence Analysis
Leping Li, Ph.D. (li3@niehs.nih.gov)

Regulation of Signal Transduction Pathways by Adaptor Proteins
John P. O'Bryan, Ph.D. (obryan@niehs.nih.gov)

Risk Factors and Symptomatology of Uterine Leiomyomas
Donna Baird, Ph.D. (baird@niehs.nih.gov)

Role of Estrogen Receptors in the Lung
Darryl C. Zeldin, M.D. (zeldin@niehs.nih.gov)

Signaling by Inositol Phosphates
Stephen B. Shears, Ph.D. (shears@niehs.nih.gov)

Signal Transduction in Tumor Cell Metastasis
Kenneth Olden, Ph.D., Sc.D., L.H.D.
John Roberts, Ph.D. (roberts1@niehs.nih.gov)

Stress Induced Signaling Pathways
Elizabeth Murphy, Ph.D. (murphy1@niehs.nih.gov)

Structure-Function Studies of Zinc Finger Proteins
Perry J. Blackshear, M.D., D.Phil. (black009@niehs.nih.gov)

Toxicogenetic Modeling of Nanoparticles
Christopher Portier, Ph.D. (portier@niehs.nih.gov)

Must possess Ph.D., M.D., D.V.M. or equivalent doctoral degree and no more than five years of postdoctoral experience.
To apply, e-mail cover letter, curriculum vitae and names of 3 references to the hiring scientist listed. **DHHS and NIH are Equal Opportunity Employers**

MOLECULAR BIOLOGIST

Environmental Health, Mechanisms of Disease Susceptibility, Infectious Agents/Zoonotics

FACULTY POSITION

The University of Alaska Fairbanks invites applications for a tenure-track faculty position in Molecular Biology at the assistant/associate professor level.

The University is establishing a program in molecular mechanisms of disease, including toxicology, and infectious agents/zoonotics, as part of its Biomedical Research Infrastructure Network (BRIN) program which is supported by the National Center for Research Resources of the National Institutes of Health. Five faculty positions are funded in toxicology and/or infectious agents and one in bioinformatics.

In this search, we seek an outstanding researcher and teacher whose interests address fundamental questions related to the molecular biology of disease. We are especially interested in candidates with expertise in infectious disease and/or zoonotics, whether directed at the infectious agent or the host response, and/or in individuals with competence in molecular toxicology and a focus on endocrine disruption or gene regulation in response to environmental contaminants. We offer a competitive start-up package, newly renovated space and/or space in new facilities. Applicants for this position are expected to have the potential to compete for NIH R01 funding.

This position is joint between the Institute of Arctic Biology (IAB) and the Department of Biology and Wildlife (B&W). Tenure resides within the department, which is part of the College of Science, Engineering and Mathematics. Tenure-track faculty teach and advise graduate and undergraduate students. IAB research themes can be viewed at http://mercury.bio.uaf.edu/index.html.

A signed UAF applicant form must be submitted before candidates can be considered. The form can be downloaded: http://www.alaska.edu/hr/forms/PDF ent/applicant form ent.pdf. Send UAF signed applicant form, cover letter, CV, statements of research plans, and teaching philosophy, and arrange for three supporting letters to be submitted to UAF Human Resources c/o Gerry Plumley, P.O. Box 757860, Fairbanks, AK 99775-7860. Fax: 907-474-1528. Review of applicants began 3 November and will continue until the position is filled. Use PCN #247900. Email fffgp@uaf.edu for inquiries.

THE UNIVERSITY OF ALASKA IS AN EEO/AA EMPLOYER AND EDUCATIONAL INSTITUTION. Persons hired by UA must comply with the provisions of the Immigration Act of 1990 and are expected to possess a valid social security number. Your application for employment with the University of Alaska is subject to public disclosure under the Alaska Public Records Act. Women and minorities are encouraged to apply. Applicants needing reasonable accommodation to participate in the application and screening process should contact the Assistant Director at 907- 474-6259.

U.S. Environmental Protection Agency (EPA)
Office of Research and Development (ORD)

EPA's Office of Research and Development (ORD) is establishing new Scientific/Technical (ST) Professional National Program Director (NPD) positions. Highly qualified scientific leaders currently engaged in managing or conducting cutting-edge research in the physical, biological, medical or engineering sciences are sought to lead a cross-cutting ORD research program. Each NPD is responsible for providing high-level scientific leadership and overall coordination of a research program delineated in ORD Multi-Year Plans (MYP, details online at www.epa.gov/osp/myp.htm). Other responsibilities include representing ORD's research efforts inside and outside EPA and recommending changes in program priorities, resource levels and allocations. Each NPD will be responsible for conducting "state of the art" science in support of the research program. The NPD will typically have received honors and awards from major national organizations for his/her accomplishments, and will serve as a recruiting attraction for those seeking to work under his/her inspiration and guidance. Applicants would be expected to possess graduate degrees, significant research experience, and a national or international reputation in their field.

These are four-year term Scientific/Technical (ST) Professional positions with potential for renewal. The NPD may be based in Washington, D.C., Research Triangle Park, North Carolina, or Cincinnati, Ohio. The minimum rate of basic pay for an ST position equals 120 percent of a GS-15 step 1 rate of basic pay.

The incumbent will be responsible for one of the following research programs:

1. **Air (including Particulate Matter)**
2. **Drinking Water**
3. **Water Quality**
4. **Contaminated Sites/RCRA**
5. **Pesticides and Toxics (including Endocrine Disruptors)**
6. **Sustainability**
7. **Human Health**
8. **Ecological Protection**
9. **Global Impacts (including Mercury)**

Applicants should submit a Curricula Vitae and a vision statement for each position of interest to Jayne Ramsey at U.S. EPA/ORD (8101R), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460. For more information, please go to **http://www.epa.gov/ORD/htm/jobs_ord.htm**, or you may contact Jayne Ramsey at (202) 564-6736 or ramsey.jayne@epa.gov.

U.S. Citizenship Required
Applications must be received by April 16, 2004
EPA is an Equal Opportunity Employer

The National Institute for Occupational Safety & Health (NIOSH) in Morgantown, WV announces the opening for a position as Team Leader in the Toxicology and Molecular Biology Branch, Health Effects Laboratory Division (HELD). This Division's primary responsibility is to conduct laboratory-based translational research into the mechanisms, control and prevention of workplace-related diseases. A background in genetics, physiology, and/or pharmacology/toxicology with research experience in toxicology of the skin, eye, cardiovascular system or reproductive system disorders is required. The successful candidate will have opportunities to collaborate with other NIOSH investigators conducting research programs in lung toxicology, immunotoxicology, musculoskeletal disorders, receptor biology, neurotoxicology, molecular epidemiology and molecular carcinogenesis. Laboratory support including an annual operating budget and junior staff positions will be provided. Salary commensurate with experience. Minimum of 3 years of postdoctoral experience required. **NIOSH is an affirmative action/equal opportunity employer.** Applicants should send a curriculum vitae and a cover letter describing his/her area of research and how their expertise will be applied to occupational research to:

Robert A. Lanciotti, Ph.D.
Toxicology and Molecular Biology Branch
CDC-NIOSH
M/S 3014
1095 WIllowdale Rd
Morgantown, WV 26505

University of Cincinnati

PROFESSOR AND DIRECTOR OF ENVIRONMENTAL HEALTH

Applications and nominations are invited for Chair of the Department of Environmental Health at the University of Cincinnati College of Medicine. The department ranks fourth out of 54 Departments of Environmental Health associated with Colleges of Medicine; has been awarded three NIEHS Center Grants; and is nationally recognized for its major areas of expertise in environmental exposure and genetics of complex diseases, molecular and cellular toxicology, carcinogenesis, environmental-industrial hygiene and chemistry, occupational and environmental medicine, biostatistics, epidemiology and policy and risk assessment. Collaborative research and training programs involve the Colleges of Medicine, Engineering and Arts and Sciences, and the Children's Hospital Research Foundation. The Chair will have the opportunity to build on existing strengths and to expand the department in new directions through implementation of new programs and recruitment of faculty. The department currently has 43 full-time faculty members and over 100 graduate students and post-doctoral fellows. It is housed in an independent research complex with outstanding laboratory, office and classroom space.

We seek an individual with an internationally recognized research program in an environmental health science area and who has a strong commitment to graduate education. The successful candidate must have a PhD and/or MD or equivalent, demonstrated leadership skills, and a vision for the future advancement of environmental health science both within the department and in collaboration with other units of the university.

The position is open until filled. Interested applicants should submit letter of application noting control # 23UC0263, curriculum vitae and the names of three references to: Thomas A. Boat, MD, Search Committee Chair, c/o Office of Faculty and Administrative Affairs, University of Cincinnati College of Medicine, 231 Albert Sabin Way, PO Box 670554, Cincinnati OH 45267-0554, Attn: Environmental Health Search; email Thomas.Boat@chmcc.org OR Amy.Carpenter@uc.edu.

UNIVERSITY OF Cincinnati

The University of Cincinnati is an affirmativeaction/equal opportunity employer.
UC is a smoke-free work environment.

UC Davis Faculty Position

Exposure Assessment

University of California—Davis School of Medicine Dept. of Epidemiology and Preventive Medicine

Assistant/Associate Professor

The Department of Epidemiology and Preventive Medicine at the University of California, Davis is recruiting for a full-time faculty position (tenure track) with expertise in exposure assessment at the Assistant or Associate Professor level. Applicants must possess a doctoral degree in an appropriate subspecialty of public health, engineering or chemistry, and have research experience demonstrating a professional commitment to and competence in human exposure assessment. Duties of the applicants will include collaborative research, teaching and independent research.

Primary responsibilities include participating in research projects that include exposure measurement of pollutants in air, food or water, securing extramural funding, conducting independent research in exposure assessment, collaborating in occupational or environmental epidemiology studies, and teaching at the undergraduate and graduate level.

Candidates should send a letter of application/CV, including the names of five references to Irva Hertz-Picciotto, Ph.D., Department of Epidemiology and Preventive Medicine, TB-168, One Shields Avenue, University of California, Davis, CA, 95616-8638 (e-mail ihp@ucdavis.edu). The position will be open until filled but not later than December 31, 2004. Priority will be given to applications received prior to April 15, 2004.

The University of California, Davis, is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.

Tenure stream Faculty Position in Risk Assessment Assistant/Associate Professor

Department Environmental and Occupational Health Graduate School Public Health University of Pittsburgh

The Department of Environmental and Occupational Health, Graduate School Public Health (GSPH), invites applicants for tenure stream faculty position at the Assistant/Associate level for an independent investigator with expertise in risk assessment and environmental health science. Qualified Ph.D. or M.D. candidates with background in risk assessment or communication, policy or environmental science are encouraged to apply. Opportunities exist for collaborative interactions within GSPH and the School of Medicine including programs with extensive recent growth in molecular toxicology and environmental health science, epidemiology and computational biology. Further collaborations and support are available from outstanding resources in Pittsburgh Cancer Institute, Magee Womens Research Institute, Center for Neuroscience and Childrens Hospital.

Successful candidates will be expected to develop outstanding independent research programs and participate in graduate teaching with a special emphasis on basic principles of risk assessment and its role in environmental health. Very attractive start-up packages and competitive salaries have been committed. Successful applicants rank will be determined by qualifications.

Applications will be received until position is filled. Applicants should provide a one-page statement of research, a curriculum vitae and names and contact information of three references to:

William Bigbee, Ph.D.
Department of Environmental and Occupational Health
Graduate School Public Health
University of Pittsburgh
Pittsburgh, PA 15260

recruitment@ceoh.pitt.edu

The University of Pittsburgh is an Affirmative Action,Equal Opportunity Employer

NIEHS Laboratory of Molecular Genetics

Immunoglobulin Hypermutation and the Memory B cell Response (HNV03-30)

A postdoctoral position is available in the Molecular Immunology and Hypermutation Group, in the Laboratory of Molecular Genetics, to work on the mechanism of somatic mutagenesis of immunoglobulin genes, and the dynamics of the memory B cell response. Candidates should have experience in both, tissue culture and molecular genetics, including the construction of targeting vectors to make knockout and/or transgenic mice, southern and northern hybridization, PCR, DNA sequencing, and standard cloning procedures. Candidates should also have a strong background in immunology or in DNA repair (with some immunology). In general, this laboratory is concerned with the mechanistic aspects of the hypermutation reaction, the signal transduction pathways that lead to the formation of memory B cells, and the selection mechanism by which high affinity variants are recruited into the memory compartment. For more information, see the references listed below. In addition, this laboratory will also explore the links between immunoglobulin hypermutation and generalized mechanisms of DNA repair and/or replication that can result in mutagenesis.

My laboratory group is in the National Institute of Environmental Sciences in the Research Triangle Park, North Carolina on the shore of a small lake. The NIEHS resides in an extraordinarily attractive area with ready access to mountains, the seashore, and a myriad of natural habitats including some that are unique. Our labs are spacious and well equipped, and almost any imaginable specialty is practiced here or nearby. Postdoctoral stipends are at least $37,200 per year (based on experience) plus health insurance. Living costs are generally moderate.

Applicants must not possess more than five years of post doctorial experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.

Contact: Dr. Marilyn Diaz, Laboratory of Molecular Genetics, MD D3-01, 919-541-4740, fax: 919-541-7593, e-mail: diaz@niehs.nih.gov

Postdoctoral Researcher Position
Air Pollution and Health in Developing Countries
School of Public Health
University of California, Berkeley

A two-year research position with possible extension is available at the School of Public Health, University of California Berkeley, to work on health and environmental aspects of indoor and outdoor air pollution in developing countries. The researcher will conduct analyses of exposure, health, and other field data and assist in the design, funding, and implementation of new field studies and policy analyses. **Qualifications:** Ph.D. or other equivalent degree in a relevant field but not more than 5 years past receipt of the degree. Demonstrated strength in at least two of the following areas: Statistical analysis; exposure assessment (air pollution); health impacts of air pollution; small-scale combustion technology; environmental epidemiology; air pollution monitoring technology. **Desirable:** A speaking and reading knowledge of Spanish; developing-country research experience. **Required:** is the ability to undertake international travel and to live for short periods in simple conditions in rural areas. **Salary range:** commensurate with experience. **TO APPLY: (Please send all items for consideration)** Send a complete resume; detailed cover letter explaining how you meet the requirements of the position and how the position fits into your career plans; 2 examples of writing (30 pages total), and names and contact information for 3 references to**:** Kacy Hone, Environmental Health Sciences, School of Public Health, 140 Warren Hall #7360, Berkeley, CA 94720-7360, Fax: 510-642-5815 or email: kacyhone@berkeley.edu

NIEHS Laboratory of Pulmonary Pathobiology

The Role of Estrogen Receptors in the Lung (HNV03-32)
A postdoctoral position is available at NIH/NIEHS to study the role of estrogen receptors in the lung. The focus of the studies will be two-fold: 1) Examining the physiological effects of estrogen receptors in the lung using various disease models which are already established in the lab. These include, animal models of estrogen receptor knockout mice, allergic airway disease, models of lung inflammation and fibrosis and infectious lung diseases. 2) Examining gene regulation by estrogen receptors in these models using state-of-the-art techniques including DNA microarray.
Applicants should possess a Ph.D. degree in Molecular Biology, Cell Biology, Biochemistry, Pharmacology, Toxicology, or a related field, and have less than five years of relevant postdoctoral experience. Experience in estrogen receptors and gene regulation is preferred but not required. Salary will be commensurate with experience.
Applicants must not possess more than five years of post doctorial experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to the hiring scientist at the corresponding laboratory and mail drop in care of NIEHS, PO Box 12233, Research Triangle Park, NC 27709 USA. The cover letter should include the position title and HNV number. The NIEHS is an equal opportunity employer.
Contact: Darryl C. Zeldin, M.D., Laboratory of Pulmonary Pathobiology, MD D2-01, 919-541-1169, fax: 919-541-4133, e-mail: zeldin@niehs.nih.gov

2004

June

1–3 June, Tue–Thu. U.S. EPA Science Forum 2004: Healthy Communities and Ecosystems. Washington, DC. Information: Alina Martin of Science Applications International Corporation (SAIC), 703-318-4678, e-mail: tcs-events@saic.com, Internet: http://www.epa.gov/ord/scienceforum/

1–4 June, Tue–Fri. International Conference for Renewable Energies. Bonn, Germany. Information: Secretariat of the International Conference for Renewable Energies, Bonn 2004, Postfach 5180, 65726 Eschborn, Germany, +49 6196 794404, fax: +49 6196 794405, e-mail: info@renewables2004.de, Internet: http://www.renewables2004.de/

3–5 June, Thu–Sat. 13th International Symposium on HIV & Emerging Infectious Diseases. Toulon, France. Information: Patricia Lhote, Overcome, 3 - 5 Boulevard Paul Emile Victor, F-92523 Neuilly-Sur-Seine Cedex, France, +33-1-41-92-01-20, fax: +33-1-46-41-05-21, e-mail: avps@club-internet.fr, Internet: http://www.avps.org/2003/hiv.htm

6–11 June, Sun–Fri. Environmental Endocrine Disruptors. New London, New Hampshire. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grc.org, Internet: http://www.grc.uri.edu

12–16 June, Sat–Wed. IUBMB/ASBMB 2004: A Molecular Exploration of the Cell. Boston, Massachusetts. Information: ASBMB Meetings Office, 9650 Rockville Pike, Bethesda, MD 20814-3996 USA, 301-634-7145, fax: 301-634-7126, e-mail: kgull@asbmb.faseb.org, Internet: http://www.asbmb.org/asbmb/site.nsf/main/meetings

13–15 June, Sun–Tue. PCB Workshop. Champaign/Urbana, Illinois. Information: Buzz Swett, The University of Iowa, 100 Oakdale Campus #219 IREH, Iowa City, IA 52242-5000 USA, 319-335-4554, e-mail: swett@uiuc.edu, Internet: http://www-apps.niehs.nih.gov/sbrp/Conf2000/Conf.cfm

16–19 June, Wed–Sat. Advances in Neuroblastoma Research 2004. Genoa, Italy. Information: ANR 2004 c/o Italian Neuroblastoma Association, Via Merano, 4/2, Genoa 16154 Italy, +39 010 6018938, fax: +39 010 6018961, e-mail: anr2004@neuroblastoma.org, Internet: http://www.anr2004.org

20–25 June, Sun–Fri. Cellular & Molecular Fungal Biology. Plymouth, New Hampshire. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grcmail.grc.uri.edu, Internet: http://www.grc.uri.edu

20–25 June, Sun–Fri. Environmental Bioinorganic Chemistry. Lewiston, Maine. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grc.org, Internet: http://www.grc.uri.edu

22–25 June, Tue–Fri. Air & Waste Management Association's 97th Annual Conference & Exhibition. Indianapolis, Indiana. Information: Air & Waste Management Association, One Gateway Center, 3rd Floor, 420 Fort Duquesne Boulevard, Pittsburgh, PA 15222-1435 USA, 412-232-3444, fax: 412-232-3450, e-mail: aklaus@awma.org, Internet: http://www.awma.org/ACE2004/

23–25 June, Wed–Fri. Fourth Ministerial Conference on Environment and Health: The Future of Our Children. Budapest, Hungary. Information: World Health Organization Regional Office for Europe, Scherfigsvej 8, DK-2100, Copenhagen Ø, Denmark, +45 39 17 17 17, fax: +45 39 17 18 18, e-mail: postmaster@who.dk, Internet: http://www.who.dk/whd/20030307_20

27 June–2 July, Sun–Fri. Environmental Sciences: Water. Plymouth, New Hampshire. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grc.org, Internet: http://www.grc.uri.edu

30 June–2 July, Wed–Fri. Twelfth International Conference on Modelling, Monitoring and Management of Air Pollution. Rhodes, Greece. Information: Stacey Hobbs, Senior Conference Co-ordinator, Air Pollution 2004, Wessex Institute of Technology, Ashurst Lodge, Ashurst Southampton, SO40 7AA UK, 44 (0) 238 029 3223, fax: 44 (0) 238 029 2853, e-mail: shobbs@wessex.ac.uk, Internet: http://www.wessex.ac.uk/conferences/2004/air04/index.html

July

3–6 July, Sat–Tue. 18th Meeting of the European Association of Cancer Research. Innsbruck, Austria. Information: FECS - the Federation of European Cancer Societies, Avenue E. Mounier 83, B-1200 Brussels, +32-2-775-02-01, fax: +32-2-775-02-00, e-mail: info@fecs.be, Internet: http://www.fecs.be

4–8 July, Sun–Thu. Interact 2004. Gold Coast, Queensland, Australia. Information: Jon Gordon, Carillon Conference Management Pty Ltd, PO Box 177, RED HILL QLD 4059, Australia, +61 733682644, fax: +61 733693731, e-mail: interact2004@ccm.com.au, Internet: http://www.interact2004.com

4–9 July, Sun–Fri. Metabolic Basis of Ecology. Lewiston, Maine. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grcmail.grc.uri.edu, Internet: http://www.grc.uri.edu

5–7 July, Mon–Wed. Ecological Relevance of Chemically Induced Endocrine Disruption in Wildlife. Exeter, United Kingdom. Information: School of Biological and Chemical Sciences, University of Exeter, Prince of Wales Road, Exeter, EX4 4PS United Kingdom, +44(0)1392-264450, fax: +44(0)1392-263700, Internet: http://www.ex.ac.uk/emfb/workshop/

8–10 July, Thu–Sat. Linking Toxicology to Epidemiology: Biomarkers and New Technologies. Porvoo, Finland. Information: ICT X Satellite Meeting Secretariat, Finnish Institute of Occupational Health, Satu-Marja Snellman, +358 9 4747 2148, fax: +358 9 4747 2110, e-mail: sasn@ttl.fi, Internet: http://www.ttl.fi/ictxmolepi

11–15 July, Sun–Thu. 10th International Congress of Toxicology. Tampere, Finland. Information: Congreszon Ltd/ICT X, Itälahdenkatu 22 A, FIN-00210, Helsinki, Finland, +358-9-5840-9350, fax: +358-9-5840-9555, e-mail: ictx2004@congreszon.fi, Internet: http://www.ictx.org

11–16 July, Sun–Fri. Drug Metabolism. Plymouth, New Hampshire. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grcmail.grc.uri.edu, Internet: http://www.grc.uri.edu

18–22 July, Sun–Thu. BioScience 2004–from Molecules to Organisms. Glasgow, United Kingdom. Information: Biochemical Society/Portland Press, 59 Portland Place, London W1B 1QW UK, +44 (0) 20 7580 3481, fax: +44 (0) 20 7637 7626, e-mail: meetings@BioScience2004.org, Internet: http://www.bioscience2004.org/

18–23 July, Sun–Fri. Immunoglobulin Superfamily Members In Infection, Immunity & Cancer. South Hadley, Massachusetts. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grcmail.grc.uri.edu, Internet: http://www.grc.uri.edu

18–23 July, Sun–Fri. Microbial Toxins and Pathogenicity. Andover, New Hampshire. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grcmail.grc.uri.edu, Internet: http://www.grc.uri.edu

August

1–4 August, Sun–Wed. Sixteenth Conference of the International Society for Environmental Epidemiology. New York, New York. Information: George D. Thurston, Sc.D., e-mail: thurston@env.med.nyu.edu, Internet: http://www.iseepi.org/

1–6 August, Thu–Tue. Cancer Models & Mechanisms. Newport, Rhode Island. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grc.org, Internet: http://www.grc.uri.edu

1–6 August, Thu–Tue. Industrial Ecology. Oxford, United Kingdom. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grc.org, Internet: http://www.grc.uri.edu

3–7 August, Tue–Sat. The 12th International Conference on Second Messengers and Phosphoproteins. Montréal, Québec. Information: Events International Meeting Planners Inc., 759 Square Victoria, Suite 300, Montréal, QC H2Y 2J7 CANADA, 514-286-0855, fax: 514-286-6066, Internet: http://www.secondmessengers2004.ca/invitation.html

8–13 August, Sun–Fri. The Biology of Post-Transcriptional Gene Regulation. Andover, New Hampshire. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grcmail.grc.uri.edu, Internet: http://www.grc.uri.edu

14–18 August, Sat–Wed. The Protein Society's 18th Annual Symposium: Protein Structure, Function and Disease. San Diego, California. Information: Cindy A. Yablonski, The Protein Society, 9650 Rockville Pike, Bethesda, MD 20814-3998 USA, 301-634-7277, fax: 301-634-7271, e-mail: cyablonski@proteinsociety.org, Internet: http://www.faseb.org/protein/

22–27 August, Sun–Fri. 13th World Clean Air and Environmental Protection Congress and Exhibition: Environment at the Turning Point—The Interaction of Climate Change and Pollution and their Impact on Human Health, Natural Resources, and Social Systems. London, United Kingdom. Information: Kenes International, PO Box 56, Ben-Gurion Airport 70100, Israel, +972 3 9727500, fax: +972 3 9727555, e-mail: cleanair@kenes.com, Internet: http://www.kenes.com/cleanair/

28 August–3 September, Sat–Fri. World Renewable Energy Congress VII. Denver, Colorado. Information: Robert J. Noun, Deputy Associate Director, External Relations, National Renewable Energy Laboratory, 1617 Cole Boulevard, MS 1623, Golden, CO 80401 USA, 303-275-3062, fax: 303-275-3097, e-mail: bob_noun@nrel.gov, Internet: http://www.nrel.gov/wrec/

29 August–1 September, Sun–Wed. 9th DCE/FECS Conference on Chemistry and the Environment (DCE9) - Behaviour of Chemicals in the Environment. Bordeaux, France. Information: Sabrina Sartini, +33 5 40 00 29 26, e-mail: dce9@lptc.u-bordeaux1.fr, Internet: http://www.lptc.u-bordeaux.fr/DCE9

September

9–10 September, Thu–Fri. Persistent Contaminants: New Priorities, New Concerns. Bear Mountain, New York. Information: Hunter Blair, Mount Sinai School of Medicine, Community & Preventive Medicine, Box 1057, 1 Gustave L. Levy Place, New York, NY 10029 USA, 212-241-7905, fax: 212-423-9313, e-mail: hunter.blair@mssm.edu, Internet: http://www-apps.niehs.nih.gov/sbrp/Conf2000/Conf.cfm

12–17 September, Sun–Fri. Biology of Aging. Aussois, France. Information: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984 USA, 401-783-4011, fax: 401-783-7644, e-mail: grc@grcmail.grc.uri.edu, Internet: http://www.grc.uri.edu

19–23 September, Sun–Thu. First International Symposium on Recent Advances in Environmental Health Research. Jackson, Mississippi. Information: Phyllis Martin, Center for Environmental Health, Environmental Science Ph.D. Program, College of Science, Engineering and Technology, Jackson State University, 601-979-3473/601-979-3321, fax: 601-979-2349, e-mail: Phyllis.Martin@jsums.edu

28 September–1 October, Tue–Fri. EORTC-NCI-AACR International Conference on Molecular Targets and Cancer Therapeutics. Geneva, Switzerland. Information: EORTC-NCI-AACR 2004 Secretariat, FECS Conference Unit, Avenue E. Mounier 83, 1200 Brussels, Belgium, +32 (2) 775 02 02, fax: +32 (2) 775 02 00, e-mail: ena2004@fecs.be, Internet: http://www.fecs.be/Conferences/ena2004/index.shtml

29–30 September, Wed–Thu. Persistent Contaminants: New Priorities, New Concerns. Bear Mountain, New York. Information: Hunter Blair, The Mount Sinai School of Medicine, Community & Preventive Medicine, Box 1057, 1 Gustave L. Levy Place, New York, NY 10029 USA, 212-241-7905, fax: 212-423-9313, e-mail: hunter.blair@mssm.edu, Internet: http://www-apps.niehs.nih.gov/sbrp/conf/contaminants/index.html

October

3–5 October, Sun–Tue. 33rd Annual Meeting of the American College of Clinical Pharmacology. Litchfield Park, Arizona. Information: American College of Clinical Pharmacology, 3 Ellinwood Court, New Hartford, NY 13413 USA, 315-768-6117, fax: 315-768-6119, e-mail: accp1ssu@aol.com, Internet: http://www.accp1.org/

3–6 October, Sun–Wed. The Endocrine Society's Clinical Endocrinology Update 2004. Baltimore, Maryland. Information: A. Fassano & Company, PO Box 692, 44 Euclid Street, Woodbury, NJ 08096 USA, 856-251-0400, fax: 856-251-0404, e-mail: exhibits@afassanoco.com, Internet: http://www.afassanoco.com/ceu/

7–10 October, Thu–Sun. 3rd European Conference on Pesticides and Related Organic Micropollutants in the Environment. Halkidiki, Greece. Information: Zoi Vamvetsou and Afroditi Sakellaridi (c/o T. Albanis), University of Ioannina, Department of Chemistry, Ioannina 45110, Greece, +30-2651-098348, 097177, fax: +30-2651-097004, 098795, e-mail: talbanis@cc.uoi.gr

16–20 October, Sat–Wed. Third Annual Conference on Frontiers in Cancer Prevention Research. Seattle, Washington. Information: American Association for Cancer Research, 615 Chestnut Street, 17th Floor, Philadelphia, PA 19106-4404 USA, 215-440-9300, fax: 215-440-9313, e-mail: meetings@aacr.org, Internet: http://www.aacr.org/4200m.asp

18–20 October, Mon–Wed. National Conference on the Future of the Nation's Living Marine Resources. Washington, DC. Information: Connie Barclay, 14th Street & Constitution Avenue, NW, Room 6217, Washington, DC 20230 USA, 301-713-2370, e-mail: Connie.Barclay@noaa.gov, Internet: http://www.noaa.gov/

18–21 October, Mon–Thu. 20th Annual International Conference on Soils, Sediments and Water. Amherst, Massachusetts. Information: Denise Leonard, 413-545-1239, e-mail: info@UMassSoils.com, Internet: http://www.UMassSoils.com

24–27 October, Sun–Wed. Central and Eastern European Environmental Health Conference: International Health Sciences Solving Common Problems. Prague, Czech Republic. Information: Nancy White, Texas A & M University, 979-845-0203, e-mail: CEEHC04@cvm.tamu.edu, Internet: http://tti.tamu.edu/conferences/ceehc/

25–29 October, Mon–Fri. Regional and Global Perspectives on Haze: Causes, Consequences and Controversies – Visibility Specialty Conference. Asheville, North Carolina. Information: Air & Waste Management Association, One Gateway Center, 3rd Floor, 420 Fort Duquesne Boulevard, Pittsburgh, PA 15222-1435 USA, 412-232-3444, fax: 412-232-3450, e-mail: info@awma.org, Internet: http://www.awma.org/ACE2004/

November

2–3 November, Tue–Wed. National Conference on Health, Occupation, & Environment in Unorganized Sector—Problems and Road Maps. Lucknow, India. Information: Dr. S.K. Rastogi, Organizing Secretary, NCHOE 2004, Deputy Director & Head Epidemiology Section, Industrial Toxicology Research Centre, PO Box 80, MG Marg, Lucknow - 226 001 India, 0522-2227586, 2213786 ext. 282, 283, fax: 0522-2228227, 2211547, e-mail: subhodhrastogi@yahoo.com, Internet: http://www.itrcindia.org/nchoe/

7–10 November, Sun–Wed. Geological Society of America—Annual Meeting and Exposition 2004. Denver, Colorado. Information: Kevin Ricker, The Geological Society of America, PO Box 9140, Boulder, CO 80301-9140 USA, 303-357-1090, fax: 303-357-1072, e-mail: meetings@geosociety.org, Internet: http://www.geosociety.org/

7–11 November, Sun–Thu. AAPS Annual Meeting and Exposition. Baltimore, Maryland. Information: American Association of Pharmaceutical Scientists, 2107 Wilson Boulevard, Suite 700, Arlington, VA 22201-3042 USA, 703-243-2800, fax: 703-243-9650, e-mail: aaps@aaps.org, Internet: http://www.aaps.org/

8–9 November, Mon–Tue. LC/MS: Applications for Drug Discovery and Development. San Diego, California. Information: The Center for Business Intelligence Research, Inc., 500 West Cummings Park, Suite 5400, Woburn, MA 01801 USA, 800-817-8601, fax: 781-939-2490, e-mail: cbireg@cbinet.com, Internet: http://www.cbinet.com

December

10–11 December, Fri–Sat. World Foundation for Medical Studies in Female Health - Annual Clinical Conference. Chicago, Illinois. Information: World Foundation for Medical Studies in Female Health, 405 Main Street, Port Washington, NY 11050 USA, 516-944-3192, fax: 516-944-8663, e-mail: mspinter@aol.com, Internet: http://www.wffh.org/

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Calendar of Events—Provide the name, date(s), and location of the event, and a point of contact including address. Include fax number and Internet address if possible. Each inch of text for the Calendar costs $50.00 per issue (one-inch minimum; larger ads are available).

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How to Submit Material to *EHP*—We accept electronic submissions via e-mail or diskette, or text copy. Send your material to *EHP* Calendar, NIEHS, MD EC-15, PO Box 12510, Research Triangle Park, NC 27709 USA, 919-653-2584, fax: 919-678-8696, e-mail: ehpads@niehs.nih.gov.

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