



**Department of Defense
US Army Medical Research
and Materiel Command**



**Fiscal Year 2004 (FY04)
Peer Reviewed Medical Research Program (PRMRP)
Funded Awards List**

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Introduction

The US Army Medical Research and Materiel Command (USAMRMC) is pleased to present the awards list of funded projects for the fiscal year 2004 (FY04) Peer Reviewed Medical Research Program (PRMRP). The FY04 PRMRP was announced in the Appropriations Conference Committee Report Number 108-283. Conferees provided \$50 million for this program and recommended the following focus areas: Amyotrophic Lateral Sclerosis, Alcoholism Research, Anti-Diarrhea Supplement, Blood-Related Cancer Research, Childhood Asthma, Chronic Pain Research, Epilepsy Research, Geneware Rapid Vaccine Development, Interventional Cardiovascular Magnetic Resonance Imaging Technologies, Muscle Function Research, Malaria Vaccine Initiative (SBRI¹), Muscular Dystrophy, Osteoporosis and Bone-Related Disease Research, Paget's Disease, Providence Cancer Research Project, Post-Traumatic Stress Disorder, Social Work Research, Interstitial Cystitis, Military Medical Informatics Research, Limb Loss and Paralysis Research, and Reserve Component Medical Training Program. Proposals were solicited in these focus areas, plus four focus areas that were added by the Department of Defense (DOD) (Health Affairs): Smoking Cessation, Pseudofolliculitis Barbae, Lung Cancer Screening, and Military Relevant Disease Management (especially, research on Malaria, Leishmaniasis, and Wound Infections).

Following receipt of funds, a programmatic strategy was developed, and proposals were solicited and evaluated in a competitive, two-tier review process. In the first tier, a peer review panel of scientists evaluated proposals based on their scientific and technical merit. In the second tier, the Joint Programmatic Review Panel, an advisory panel composed of representatives from the four military services, DOD (Health Affairs), Department of Veterans Affairs, and Department of Health and Human Services, recommended proposals for funding based on the peer review panel's recommendations, relevance of proposed research to military health, programmatic priorities, and portfolio balance. The Commanding General of the USAMRMC has final approval authority. Twenty-eight proposals that most effectively addressed the unique focus and goals of the PRMRP were recommended for funding. These projects represent a diverse portfolio of scientific research in the following focus areas: Alcoholism Research, Amyotrophic Lateral Sclerosis, Blood-Related Cancer Research, Childhood Asthma, Chronic Pain Research, Epilepsy Research, Geneware Rapid Vaccine Development, Limb Loss and Paralysis Research, Lung Cancer Screening, Malaria Vaccine Initiative (SBRI¹), Military Medical Informatics Research, Military Relevant Disease Management (especially, research on Malaria, Leishmaniasis, and Wound Infections), Muscle Function Research, Osteoporosis and Bone-Related Disease Research, Post-Traumatic Stress Disorder, Reserve Component Medical Training Program, and Smoking Cessation. Negotiations for all FY04 awards have been completed.

As the funded investigators embark on these projects, the DOD and the US Army gratefully acknowledge the participation of the PRMRP's scientific, clinical, and military advisors. The expertise, vision, and diversity of perspective of all individuals who contributed to this program were vital to developing a sound investment strategy. It is with great anticipation and excitement that we await the outcomes of this body of research.

¹Seattle Biomedical Research Institute

Funded Awards

Log Number	PI Last Name	PI First Name	PI Institution	Proposal Title	Final Budget
PR043014	Wiren	Kristine	Oregon Health & Science University	Enhanced Androgen Signaling with Androgen Receptor Overexpression in the Osteoblast Lineage Controls Skeletal Turnover, Matrix Quality, and Bone Architecture	\$1,721,331
PR043022	Taylor	Allen	Walter Reed Army Medical Center	Progression of Coronary Artery Calcium Progression on EBCT Scanning in Active Duty Military Personnel: Role of Ethnicity and the Metabolic Syndrome	\$1,204,207
PR043034	Junger	Wolfgang	University of California, San Diego	Hypertonic Saline Resuscitation, gamma-delta T Cell Function, and Post-Traumatic Organ Failure	\$1,346,672
PR043074	Triolo	Ronald	MetroHealth Medical Center	A Hybrid Neuroprosthesis for Mobility after Paralysis from Spinal Cord Injury	\$1,749,133
PR043148	Andreasson	Katrin	Johns Hopkins University, School of Medicine	Function of Prostaglandin Receptors in Models of ALS	\$1,260,682
PR043160	Silverman	Lewis	Mount Sinai School of Medicine	Tracking the Fate of the Aberrant Clone in Patients with the Myelodysplastic Syndrome: The Influence of Treatment on Clonal Selection and Function	\$1,279,507
PR043168	Spector	Myron	Boston VA Research Institute, Inc.	Autologous Marrow-Derived Stem Cell-Seeded Gene-Supplemented Collagen Scaffolds for Spinal Cord Regeneration as a Treatment for Paralysis	\$1,493,932
PR043176	Kim	Kami	Albert Einstein College of Medicine	Evaluation of Purine Salvage as a Chemotherapeutic Target in the Plasmodium Yoelii Rodent Malaria Model	\$1,732,333
PR043181	Turner	Russell	Mayo Clinic Rochester	Alcohol-Impaired Bone Healing: Mechanisms and Countermeasures	\$1,255,745
PR043199	Lichtenberger	Lenard	University of Texas Health Science Center-Houston	Use of PC-NSAIDs in Chronic Pain	\$1,789,202
PR043204	Wexler	Hannah	GLA VA HCS	Bacteroides Fragilis OMP A: Utility as a Live Vaccine Vector for Biodefense Agents	\$372,587
PR043212	Messina	Joseph	University of Alabama at Birmingham	Pharmacologic Intervention to Reduce Morbidity and Mortality following Trauma, Hemorrhage, Burn, Fracture, and Sepsis	\$1,600,000

PR043220	Koh	Timothy	University of Illinois at Chicago	Enhancement of Skeletal Muscle Repair by the Urokinase-Type Plasminogen Activator System	\$1,466,307
PR043248	Richie	Thomas	Naval Medical Research Center	Development of Recombinant Adenoviral-Based Vaccines against Malaria	\$1,981,866
PR043277	Kirkwood	Keith	Regents of the University of Michigan	Identification of RNA Binding Proteins That Affect IL-6 mRNA Stability: Development of Novel Targets for Management of Inflammatory Bone Diseases	\$1,088,879
PR043287	Duffy	Patrick	Seattle Biomedical Research Inst/WRAIR	Antigens for a Vaccine to Prevent Severe Malaria	\$2,006,516
PR043298	Barach	Paul	Jackson Memorial Hospital/University of Miami	Medical Reservist Team Training Program: Achieving Optimal Outcomes and Improving Team Performance Using Simulation-Based Teamwork and Safety Interventions	\$1,953,840
PR043305	Roman	Jesse	Emory University School of Medicine	Prenatal Exposure to Nicotine and Childhood Asthma: Role of Nicotinic Acetylcholine Receptors, Neuropeptides, and Fibronectin Expression in Lung	\$1,000,000
PR043327	Sobell	Mark	Nova Southeastern University	Facilitating Smoking Cessation and Preventing Relapse in Primary Care: Minimizing Weight Gain by Reducing Alcohol Consumption	\$1,574,915
PR043347	Peterson	Tom	IQuum Inc.	Nucleic Acid Testing Device for the Use at Battalion Aid Stations	\$1,942,997
PR043358	Vail	Neal	Southwest Research Institute	Targeted Therapies for Myeloma and Metastatic Bone Cancers	\$1,544,717
PR043366	Zeman	Richard	New York Medical College	Control of Spinal Cord Injury by Stereotactic X-Irradiation	\$1,573,916
PR043393	Campbell	Kevin	Howard Hughes Medical Institute/University of Iowa	Muscle Cell Membrane Maintenance and Repair	\$1,975,220
PR043430	Finegold	Sydney	VA Medical Center West Los Angeles	Rapid Identification of Key Pathogens in Wound Infection by Molecular Means	\$1,950,760
PR043437	Shea	M. Tracie	Brown University	Treatment of PTSD-Related Anger in Troops Returning from Hazardous Deployments	\$982,926
PR043464	Ascherio	Alberto	Harvard School of Public Health	Prospective Study of ALS Mortality among World War II, Korea, and Vietnam Veterans	\$1,527,936
PR043482	DeLisser	Horace	University of Pennsylvania	PECAM-1 and Angiogenesis	\$1,972,773

PR043488	Wang	Xiao Hui	University of Pittsburgh	Development and Evaluation of Stereographic Display for Lung Cancer Screening	\$656,841
PR043514	Dichter	Marc	University of Pennsylvania School of Medicine	Preventing Epilepsy after Traumatic Brain Injury	\$1,999,939

**FY04 Peer Reviewed Medical Research Program
Peer Reviewers**

Peer Reviewers	Degree	Institution/Affiliation
Adler, Martin W.	Ph.D.	Temple University School of Medicine
Agrawal, Devendra K.	M.Sc., Ph.D.	Creighton University School of Medicine
Agrawal, Krishna C.	Ph.D.	Tulane University Health Sciences Center
Albensi, Benedict C.	Ph.D.	University of Manitoba, St. Boniface Research Centre
Alexander, Dale E.	Ph.D.	University of Houston
Azad, Abdu F.	Ph.D.	University of Maryland School of Medicine
Baker, Dewleen G.	M.D.	Cincinnati VA Medical Center
Barquist, Erik S.	M.D.	University of Miami
Barrett, Alan D.	Ph.D.	University of Texas Medical Branch
Bautista, Ramon	M.D., Ph.D.	University of Florida HSC Jacksonville
Beal, M. Flint	M.D.	Cornell University Medical College
Becan-McBride, Kathleen E.	Ed.D.	University of Texas - Houston
Bergeron, Michael F.	Ph.D.	Medical College of Georgia
Binienda, Zbigniew K.	DVM, Ph.D.	National Center for Toxicological Research/FDA
Bruttig, Stephen P.	Ph.D.	Novel Technologies Incorporated
Burdick, James		Johns Hopkins University
Burns, James M.	Ph.D.	Drexel University College of Medicine
Bushnell, Philip J.	Ph.D.	Environmental Protection Agency
Buskirk, Elsworth R.	Ph.D.	Pennsylvania State University
Carlson, Drew E.	Ph.D.	University of Maryland at Baltimore
Carter, Philip B.	Ph.D.	NC State University, College of Veterinary Medicine
Carvey, Paul M.	Ph.D.	Rush University Medical Center
Champion, Howard R.	M.D.	TechMed, Inc.

Peer Reviewers	Degree	Institution/Affiliation
Chen, Bin	Ph.D.	Dartmouth-Hitchcock Medical Center
Chen, Di		University of Rochester
Chu, Hong Wei	M.D.	National Jewish Medical and Research Center
Cohen, Harvey J.	M.D., Ph.D.	Stanford University School of Medicine
Collins, Chris	Ph.D.	Penn State College of Medicine
Cooper, Edward C.	M.D., Ph.D.	University of Pennsylvania Health System
Cornel, Anthony J.	Ph.D.	University of California, Davis
Cox, Gregory A.	Ph.D.	The Jackson Laboratory
Crow, John P.	Ph.D.	University of Arkansas College of Medicine
Daruna, Jorge H.	Ph.D.	Tulane University health sciences Center
David, John R.	M.D.	Harvard School of Public Health
Davis, Teresa A.	Ph.D.	Baylor College of Medicine
DeBon, Maggie	Ph.D.	University of Tennessee, Memphis
Delva, Jorge	Ph.D.	University of Michigan
Docampo, Roberto	M.D., Ph.D.	University of Illinois, College of Veterinary Medicine
Dorgan, Joanne F.	Ph.D., MPH	Fox Chase Cancer Center
Doughty, Lesley	M.D.	Rhode Island Hospital
Downs, Joseph Hunter	Ph.D.	NOVASOL
Dunscombe, Peter	Ph.D.	Tom Baker Cancer Centre
Epstein, Robert B.	M.D.	University of Oklahoma HSC
Fahnestock, Margaret	Ph.D.	McMaster University
Farooqui, Akhlaq A.	Ph.D.	Ohio State University
Feigin, Andrew	M.D.	North Shore - LIJ Research Institute
Ferrando, Arny A.	Ph.D.	University of Texas Medical Branch

Peer Reviewers	Degree	Institution/Affiliation
Fessler, Michael B.	M.D.	National Jewish Medical & Research Center
Firestone, Juanita M.	Ph.D.	University of Texas at San Antonio
Frueh, B. Christopher	Ph.D.	College of Medicine, Medical University of SC
Gale, Karen N.	Ph.D.	Interdisciplinary Program in Neuroscience Georgetown University
Glickman, Ellen	Ph.D., FACS	Kent State University
Gold, Michael	Ph.D.	University of Maryland , Baltimore
Gonzalez-Cadavid, Nestor F.	Ph.D.	Harbor-UCLA Research and Education Institute (REI)
Gorantla, Vijay		University of Louisville
Gordon, Paul	M.D.	Eleanor and Lou Gehrig ALS Research Center
Green, John T.	Ph.D.	University of Vermont
Greenshields, Ian	Ph.D.	University of Connecticut
Greiner, Dale L.	Ph.D.	University of Massachusetts Medical School
Grill, Warren M.	Ph.D.	Case Western Reserve University
Guggino, Sandra E.	Ph.D.	Johns Hopkins University School of Medicine
Guidot, David M.	M.D.	Emory University
Haddock, C. Keith	Ph.D.	University of Missouri at Kansas City
Halliwill, John	Ph.D.	University of Oregon
Hammond, Timothy Grant	M.B., B.S.	VA Medical Center
Heiman-Patterson, Terry	M.D.	Drexel University College of Medicine
Heintz, Nicholas H.	Ph.D.	University of Vermont College of Medicine
Hicks, Ramona R.	Ph.D.	University of Washington
Hobbs, Joanne K.	B.S.	American Institute of Biological Sciences
Hodinka, Richard L.	Ph.D.	Children's Hospital of Philadelphia
Hoffman, Paula L.	Ph.D.	University of Colorado Health Sciences Center

Peer Reviewers	Degree	Institution/Affiliation
Huey, Kimberly	Ph.D.	University of Illinois at Urbana-Champaign
Hussain, Anwar	Ph.D.	University of Kentucky
James, Mark A.	Ph.D.	Tulane University School of Public Health and Tropical Medicine
Jiang, Steve B.	Ph.D.	Massachusetts General Hospital & Harvard Medical School
Johnson, Mark L.	Ph.D.	Creighton University
Kamen, Gary	Ph.D.	University of Massachusetts
Kern, Jeff	M.D.	Case Western Reserve University
Koblasz, Arthur J.	Ph.D.	Georgia Institute of Technology
Krasney, John A.	Ph.D.	SUNY School of Medicine and Biomedical Sciences
Krupinski, Elizabeth A.	Ph.D.	University of Arizona Health Sciences Center
Kunst, Catherine	Ph.D.	University of Denver Eleanor Roosevelt Institute
Kwaan, Hau C.	M.D.	Northwestern University Feinberg School of Medicine VA Lakeside Medical Center
Lappe, Joan M.	Ph.D., R.N.	Creighton University
LeBlanc, Adrian D.	Ph.D.	Universities Space Research Association
Levy, Michael G.	Ph.D.	North Carolina State University
Lewis, Simon A.	Ph.D.	University of Texas Medical Branch
Libanati, Cesar R.	M.D.	Loma Linda University
Lima, John J.	Pharm.D.	Nemours Children's Clinic
Liu, Peng	Ph.D.	University of Connecticut Health Center
Lobo, Cheryl-Ann	Ph.D.	The Lindsley Kimball Research Institute
Lou, Jau-Shin	M.D., Ph.D.	Oregon Health Sciences University
Lynch, William P.	Ph.D.	Northeastern Ohio Universities College of Medicine
MacKinnon, Susanne E.	M.D.	Washington University School of Medicine
Mahy, Brian W.J.	Sc.D., Ph.D.	The Centers for Disease Control and Prevention

Peer Reviewers	Degree	Institution/Affiliation
Mailman, Richard B.	Ph.D.	University of North Carolina School of Medicine
McCarthy, James B.	Ph.D.	University of Minnesota
McCauley, Linda A.	Ph.D., R.N., FAAN	University of Pennsylvania
McLaughlin, Patricia J.	Ph.D.	Penn State University
McQuaid, Elizabeth L.	Ph.D.	Rhode Island Hospital
Melov, Simon	Ph.D.	Buck Institute for Age Research
Millard-Stafford, Melinda L.	Ph.D.	Georgia Institute of Technology
Miller, Diane B.	Ph.D.	CDC-NIOSH
Milligan, Carolanne E.	Ph.D.	Wake Forest University Medical College
Mills, David M.	Ph.D.	University of Washington, Virginia Merrill Bloedel Hearing Research Center
Modlesky, Chris		University of Delaware
Moeller, Thomas	Ph.D.	University of Washington
Moss, Mark H.	M.D.	University of Wisconsin Medical School
Muddiman, David C.	Ph.D.	Mayo Clinic College of Medicine
Nair, K. Sreekum	M.D.	Mayo Clinic and Foundation
Ness, Scott A.	Ph.D.	University of New Mexico HSC
Nieves, Jeri	Ph.D.	Helen Hayes Hospital
Nock, Bruce Lane	Ph.D.	Washington University School of Medicine
Obradovich, Jodi Heintz	Ph.D.	The Ohio State University, The Institute for Ergonomics
O'Toole, Mary	Ph.D.	Saint Louis University
Ottenweller, John E.	Ph.D.	VA Medical Center
Pagano, Joseph S.	M.D.	University of North Carolina
Penn, Raymond	Ph.D.	Wake Forest University Health Science Ctr.
Pierce, Joseph P.	Ph.D.	Weill Medical College of Cornell University

Peer Reviewers	Degree	Institution/Affiliation
Pitkin, Mark	Ph.D.	New England Sinai Hospital and Rehabilitation Center
Proctor, Kenneth	Ph.D.	University of Miami School of Medicine
Quesenberry, Peter J.	M.D.	Roger Williams Medical Center
Ratliff, Timothy L.	Ph.D.	University of Iowa
Reeves, Thomas M.	Ph.D.	Medical College of Virginia
Riscoe, Michael	Ph.D.	VA Medical Center, Medical Research Service
Roebuck, Bill D.		Dartmouth Medical School
Romani, Andrea	Ph.D.	Case Western Reserve University
Romero, Jose R.	M.D.	University of Nebraska Medical Center
Ross, Richard J.	M.D., Ph.D.	Philadelphia VA Medical Center
Rutecki, Paul A.	M.D.	William S. Middleton Veteran's Hospital and the University of Wisconsin
Saban, Ricardo	Ph.D.	University of Oklahoma Health Sciences Center
Schiff, Steven J.	Ph.D.	George Mason University
Schmaling, Karen B.	Ph.D.	University of North Carolina at Charlotte
Schreurs, Bernard G.	Ph.D.	West Virginia University School of Medicine
Schulte, Reinhard W.	M.D.	Loma Linda University Medical Center
Schuster, Daniel P.	Ph.D.	Washington University in St. Louis
Sharkey, Neil	Ph.D.	Pennsylvania State University
Shaw, Janet M.	Ph.D.	University of Utah
Shefner, Jeremy M.	M.D.	University Hospital
Smith, Harold C.	Ph.D.	University of Rochester, School of Medicine and Dentistry
Son, Young-Jin	Ph.D.	Drexel University College of Medicine
Sowa, Michael G.	Ph.D.	National Research Council Canada
Spotila, Loretta D.	Ph.D.	Drexel University

Peer Reviewers	Degree	Institution/Affiliation
Steinmetz, Joseph E.	Ph.D.	Indiana University
Stringer, Janet L.	M.D., Ph.D.	Baylor College of Medicine
Stuart, Andrew	Ph.D.	East Carolina University
Sutherland, Margaret	Ph.D.	George Washington University
Teng, Yang (Ted) D.	M.D., Ph.D.	Harvard Medical School, Children's Hospital Boston, Brigham & Women's Hospital
Timchenko, Lubov	Ph.D.	Baylor College of Medicine
Tung, Thomas H.	M.D.	Washington University School of Medicine
Turley, Eva A.	Ph.D.	London Regional Cancer Centre
Turrens, Julio F.	Ph.D.	University of South Alabama
Vincent, Andrea M.	Ph.D.	University of Michigan
Wang, Ping	M.D.	North Shore-Long Island Jewish Research Institute
Weiss, Daniel S.	Ph.D.	University of California San Francisco
Welsh, Michael J.	Ph.D.	University of Michigan Medical School
Williams, Robert	Ph.D.	University of Tennessee Health Science Center
Witten, Mark L.	Ph.D.	University of Arizona College of Medicine
Zayfert, Claudia	Ph.D.	Dartmouth Medical School
Zelikoff, Judith T.	Ph.D.	New York University School of Medicine

**FY04 Peer Reviewed Medical Research Program
Joint Programmatic Review Panel (JPRP) Members**

JPRP Members	Rank	Institution/Affiliation
Cirone, Salvatore		Office of the Assistant Secretary of Defense for Health Affairs
Cuccherini, Brenda		Department of Veterans Affairs
Forcino, Doug	CAPT	US Navy
Haberberger, Richard	CAPT	US Navy
Hanson, Eric	LtCol (sel)	US Air Force
Holtzmuller, Kent	COL	US Army
Lamiell, James	COL	US Army
Lucas, John	CAPT	Office of the Assistant Secretary of Defense for Health Affairs
McCarthy, Michael	CAPT	US Navy
McNeilly, Patrick	CDR	Department of Health and Human Services
Moser, Sharon	LCDR	US Marine Corps
Petrucelli, Bruno	COL	US Army
Robinson, Donnataria	Maj	US Air Force
Street, David	CDR	US Navy
Watson, David	Maj (sel)	US Air Force
Woofter, Dennis	RDML	US Navy

**FY04 Peer Reviewed Medical Research Program
Subject Matter Experts (SME) Members**

SME Members	Rank	Institution/Affiliation
Carpenter, Calvin	LTC	Congressionally Directed Medical Research Programs
Hover, Carl	LTC	US Army Medical Research and Materiel Command
Pittman, Phillip	COL	US Army Medical Research Institute of Infectious Diseases
Reid, Thomas	COL	Walter Reed Army Medical Center
Rizvi, Farruhk		Science Applications International Corporation
Shorr, Andrew	MAJ	Walter Reed Army Medical Center
Slife, Harry	LTC	US Army Medical Research and Materiel Command
Vandre, Robert	COL	US Army Medical Research and Materiel Command