



Tomorrow's Doctors, Tomorrow's Cures®

GREAT Group Annual Meeting

“Redefining Research Training”

October 6-9, 2006
The Westin La Paloma
Tucson, AZ

Association of
American Medical Colleges

GREAT Group Annual Meeting

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Agenda

Friday October 6

2:00 – 5:00 pm	Registration	<i>Grand Foyer</i>
5:00 – 7:00 pm	Welcome Reception and Poster Session	<i>Terrace Level Patio and Foyer</i>

Saturday October 7

7:00 – 8:00 am	New Members Breakfast	<i>Acacia</i>
7:00 – 8:00 am	Continental Breakfast	<i>Canyon II, IV</i>
8:00 – 8:30 am	Opening Remarks	

David Korn, M.D.

Senior Vice President
Association of American Medical Colleges

Trevor M. Penning, Ph.D.

Professor of Pharmacology, Biochemistry and Biophysics, and OB/GYN
University of Pennsylvania School of Medicine
Chair, GREAT Group

8:30 – 10:30 am	SESSION I The Evolving Goals of Research Training in the 21st Century	<i>Grand Ballroom</i>
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Moderator:

Trevor M. Penning, Ph.D.

Professor of Pharmacology, Biochemistry and Biophysics, and OB/GYN
University of Pennsylvania School of Medicine
Chair, GREAT Group

Speakers:

Gail H. Cassell, Ph.D.

Vice President, Scientific Affairs and Distinguished Lilly Research Scholar
for Infectious Diseases
Eli Lilly and Company
Member, NRC Committee on Prospering in the Global Economy of the 21st
Century

Saturday October 7 cont'd

Thomas R. Insel, M.D.

Director, National Institute of Mental Health
National Institutes of Health

Gregory Kopf, Ph.D.

Assistant Vice President, Women's Health & Musculoskeletal Biology
Wyeth Research

10:30 – 11:00 am Coffee Break

11:00 am – 12:30 pm **SESSION II** *Grand Ballroom*
Preparing Young Scientists to Work at the New Interfaces

Moderator:

Nancy B. Schwartz, Ph.D.

Dean for Graduate Affairs
University of Chicago, The Pritzker School of Medicine
Chair-Elect, GREAT Group

Speakers:

Nanomedicine Science and Technology: An NCI/NSF IGERT program

Srinivas Sridhar, Ph.D.

Vice Provost for Research
Northeastern University, Boston

Emergence of Chemistry and Chemical Biology Graduate Programs

Charles J. Craik, Ph.D.

Professor, Departments of Pharmaceutical Chemistry, Cellular and
Molecular Pharmacology, and Biochemistry & Biophysics
University of California, San Francisco

Training in Translational Research

Sherine E. Gabriel, M.D., M.Sc.

Director, Clinical Research Training Programs
Mayo Clinic

12:30 – 2:00 pm Lunch *Canyon II, IV*

2:00 – 3:30 pm **SESSION III** *Grand Ballroom*
Optimizing Biomedical Education and Training I

Saturday October 7 cont'd

Moderator:

Melanie H. Cobb, Ph.D.

Dean, Graduate School

University of Texas, Southwestern Medical Center at Dallas

Panelists:

Successes and Failures of Umbrella Programs

John H. Russell, Ph.D.

Associate Dean for Graduate Studies

Washington University in St. Louis, School of Medicine

Roberts Report Recommendation on Graduate Training in the UK: Specific Competencies and Transferable Skills

Elizabeth Ellis, Ph.D.

Director, Graduate Training in Biomedical Sciences

Strathclyde Institute for Pharmacy and Biomedical Sciences

University of Strathclyde, Glasgow, Scotland, United Kingdom

NIGMS Training Programs

Bert Shapiro, Ph.D.

Director, Medical Scientist Training Program

National Institute of General Medical Sciences

National Institutes of Health

HHMI Med into Grad Program

William Gale, Ph.D.

Director, Graduate and Medical Education Programs

Howard Hughes Medical Institute

3:30 – 5:00 pm

SESSION IV

Breakouts:

**Optimizing Biomedical Education
and Training II**

Introduction:

Groups A&B – Lantana

Groups C&D – Verbena

Groups E&F - Indigo

Groups G&H - Aster

Groups I&J – Grand Ballroom

Allan Yates, M.D., Ph.D.

Dean for Graduate Student Education

Ohio State University College of Medicine

Saturday October 7 cont'd

Biomedical PhD Curriculum – Core Content (Groups A&F)

Biomedical PhD Curriculum – Structure, Style, and Sequence (Groups B&G)

Biomedical PhD Curriculum – Training Experiences (Groups C&H)

Training in Translational and Clinical Research (Groups D&I)

Training the Trainers (Groups E&J)

6:30 – 7:00 pm Reception *Arizona Deck & Foyer*

7:00 pm **Dinner** *Canyon II, IV*

Keynote Speaker:

Alan Leshner, Ph.D.

Chief Executive Officer

American Association for the Advancement of Science

Sunday, October 8

7:30 – 8:30 am Continental Breakfast *Canyon II, IV*

8:30 – 9:45 am **GREAT Group Business Meeting** *Grand Ballroom*

Moderator:

Trevor M. Penning, Ph.D.

Professor of Pharmacology, Biochemistry and Biophysics, and OB/GYN

University of Pennsylvania School of Medicine

Chair, GREAT Group

9:45 – 10:00 am Break

10:00 am – 12:30 pm **SESSION V** *Grand Ballroom*

John Perkins Policy Session: Challenges Facing the Biomedical Research Enterprise

Moderator:

Henry H. Wortis, M.D.

Professor of Pathology

Tufts University School of Medicine

Sunday, October 8, Cont.

Speaker:

*The Role of Graduate and Postdoctoral Training in Medical Colleges:
Facing Challenges*

Darrell G. Kirch, M.D.

President

Association of American Medical Colleges

The NIH Hard Landing

Panelists:

Future Funding Prospects

David Moore

Senior Associate Vice President for Governmental Relations

Association of American Medical Colleges

*Institutional Responses and the Implications for Graduate and Postdoctoral
Training*

Richard B. Marchase, Ph.D.

Vice President for Research

University of Alabama

*Policy and Operational Issues Affecting Graduate and Postdoctoral
Training*

Michael J. Friedlander, Ph.D.

Wilhelmina Robertson Professor and Chair and Department of Neuroscience

Director of Neuroscience Initiatives

Baylor College of Medicine

12:30 – 3:30 pm

Lunch on own/Free time for all participants

GREAT Group Steering Committee Lunch (by invitation only)

Acacia

3:30 – 5:00 pm

NIH Update

Grand Ballroom

Moderator:

Trevor M. Penning, Ph.D.

Professor of Pharmacology, Biochemistry and Biophysics, and OB/GYN

University of Pennsylvania School of Medicine

Chair, GREAT Group

Sunday, October 8, Cont.

Speaker:

Peter Preusch, Ph.D.

Acting Research Training Officer
National Institutes of Health

5:00 – 6:00 pm **Reports and Recommendations from
Session IV Discussion Groups** *Grand Ballroom*

6:15 – 7:15 pm Reception *Murphey*

Monday, October 9

7:30 – 8:30 am Continental Breakfast *Canyon II, IV*

8:30 – 10:30 am **SESSION VI** *Grand Ballroom*
**Changing Landscapes in the Academy: Scientific Careers Other than
the Tenure-Track Faculty Member**

Moderator:

Tom Andersen, Ph.D.

Assistant Dean for Graduate Studies
Albany Medical College

Speakers:

Changes in Academic Employment

Paula Stephan, Ph.D.

Professor of Economics
Andrew Young School of Policy Studies
Georgia State University

Redefining Faculty Tracks

Alan Wasserstein, M.D.

Vice Dean for Faculty Affairs
University of Pennsylvania School of Medicine

Recognizing and Utilizing an Expanded Definition of Scholarship

Thomas R. Viggiano, M.D., M.Ed.

Associate Dean, Faculty Affairs
Mayo Clinic College of Medicine

Monday, October 9, Cont.

10:30 – 11:00 am

Closing Remarks

Grand Ballroom

Trevor M. Penning, Ph.D.

Professor of Pharmacology, Biochemistry and Biophysics, and OB/GYN
University of Pennsylvania School of Medicine
Chair, GREAT Group

11:00 am

Meeting Adjourns

Speaker Biographical Sketches

Thomas T. Andersen, Ph.D., is Assistant Dean for Graduate Studies and Assistant Dean for Medical Student Research at the Albany Medical College in upstate New York. All administrative concerns of the graduate school are centered in the office of the Assistant Dean. Dr. Andersen is the principal investigator on three NIH-training grants (for undergraduate students, medical students, or post-baccalaureate students) that result in attracting outstanding students to the graduate school. He maintains an active research and training program (an NIH grant and a DoD grant on development of novel breast cancer drugs), and teaches in the undergraduate curriculum, the graduate school curriculum, and the medical school curriculum.

Gail H. Cassell, Ph.D., is currently Vice President, Scientific Affairs and Distinguished Lilly Research Scholar for Infectious Diseases, Eli Lilly and Company in Indianapolis, Indiana. She is the former Charles H. McCauley Professor and Chairman of the Department of Microbiology at the University of Alabama Schools of Medicine and Dentistry at Birmingham, a department which ranked first in research funding from the National Institutes of Health during the decade of her leadership. She obtained her B.S. from the University of Alabama in Tuscaloosa and in 1993 was selected as one of the top 31 female graduates of the 20th century. She obtained her Ph.D. in Microbiology from the University of Alabama at Birmingham and was selected as its 2003 Distinguished Alumnus.

She is a past President of the American Society for Microbiology (the oldest and single largest life sciences organization with a membership of over 42,000). She was a member of the National Institutes of Health Director's Advisory Committee and a member of the Advisory Council of the National Institute of Allergy and Infectious Diseases of NIH. She was named to the original Board of Scientific Councilors of the Center for Infectious Diseases, Centers for Disease Control and served as Chair of the Board. She recently served a three-year term on the Advisory Board of the Director of the Centers for Disease Control and as a member of the Secretary of Health and Human Services Advisory Council of Public Health Preparedness. Currently she is a member of the Science Board of the Federal Food and Drug Administration. Since 1996 she has been a member of the U.S.-Japan Cooperative Medical Science Program responsible for advising the respective governments on joint research agendas (U.S. State Department/Japan Ministry of Foreign Affairs). She has served on several editorial boards of scientific journals and has authored over 250 articles and book chapters. Dr. Cassell has received national and international awards and an honorary degree for her research in infectious diseases. She is a member of the Institute of Medicine of the National Academy of Sciences and is currently serving a 3-year term on the IOM Council, the governing board.

Melanie H. Cobb, Ph.D., attended the University of Chicago where she obtained a B.S. in biochemistry. She obtained a Ph.D. in biological chemistry from Washington University in St. Louis working with Garland Marshall. Following postdoctoral work with Ora Rosen in New York, she joined the faculty at the University of Texas Southwestern Medical Center in the department of pharmacology. Her focus on hormonal signal transduction pathways led her to the isolation of MAP kinases and an ongoing effort to understand the regulation and structural properties of protein kinase cascades. In 2003 she also took on the job of dean of the

Southwestern graduate school of biomedical sciences. In 2006 she was elected to the National Academy of Sciences and the Texas Academy of Sciences.

Charles J. Craik, Ph.D., is a Professor of Pharmaceutical Chemistry, Biochemistry & Biophysics and Molecular & Cellular Pharmacology and also Director of the Chemistry and Chemical Biology Graduate Program at The University of California at San Francisco. Dr. Craik is an internationally known chemical biologist and expert on proteases. He uses site-specific mutagenesis, protein engineering, structure-function studies and structure-based drug design to develop strategies for detecting and targeting proteases that play a role in cancer and in infectious diseases, including viral infections as well as in parasitic infections. He has developed innovative strategies for targeting the AIDS virus, HIV, and the virus associated with Kaposi's sarcoma, a complication of AIDS. His lab has recently identified proteases needed by tumors but not by normal cells. He and his collaborators have developed a promising strategy for using the activity of these tumor-related proteases for early cancer detection and for blocking their function without compromising the vital workings of the body's own normal proteases.

Dr. Craik is a member of the UCSF Comprehensive Cancer Center where he is the Director of the Chemistry and Cancer program. He is also the architect and Director of a Chemistry and Chemical Biology graduate program at UCSF, through which faculty have been training future scientists to make strong contributions at the interface of chemistry and biology since 1998. This graduate program spans seven departments at UCSF and UCB. He is also the Program Head of the Structural and Chemical Biology Program of the QB3 Institute, a cooperative effort among the UC campuses at San Francisco, Berkeley and Santa Cruz to develop technologies for improving human health. Additionally, he is on the UCSF Council for the Medical Science Training Program for MD/PhD students.

He is also the founder of a highly successful course at UCSF entitled "Idea to IPO" that teaches UCSF scientists and clinicians how to build commercial value from their research discoveries. Using lectures by industry leaders, in-depth practicums, and a team project on business plan writing, the course explores the "nuts and bolts" of building a successful business. The program enables the student to understand more about the life sciences industry and it is a compelling and challenging learning experience for anyone who is contemplating starting a business or joining an entrepreneurial endeavor

Elizabeth M. Ellis, PhD., is Senior Lecturer and Deputy Head of the Division of Immunology, Microbiology and Biochemistry in the Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow.

Dr. Ellis received her B.Sc. degree in Biochemistry from the University of Manchester Institute of Science and Technology, and her Ph.D. degree from the University of Edinburgh. She was awarded a Beit Memorial Postdoctoral Fellowship for Biomedical Research into aflatoxin detoxication, which she held at the University of Dundee Medical School. Her areas of research interest include aldo-keto reductases, oxidative stress and molecular toxicology. She has published many articles, and has successfully obtained research funding from a range of sources including the Association for International Cancer Research, European Chemical Industries Funding Council, the Leukemia Research Fund, and several industrial sponsors. In addition to her own

research program, she currently collaborates with chemists, engineers and physicists on several interdisciplinary research projects.

Dr. Ellis contributes to undergraduate teaching programs in Biochemistry and Forensic Biology, and is Degree Coordinator for the MRes in Biomedical Sciences, for which she also teaches Advanced Biochemistry and Bioinformatics. In addition, she has developed and delivered Generic Skills Training Programs for Science and Engineering Graduate students, including Personal Development Planning, Interpersonal and Research Management Skills, and Writing and Communication Skills. She is currently a member of the SIPBS Graduate School Management Group and has special responsibility for Graduate Skills Training. She is also a member of the Management Group for the University's Doctoral Training Centre in Medical Devices.

Michael J. Friedlander, Ph.D., is the Wilhelmina Robertson Professor and Chair of Neuroscience and the Director of Neuroscience Initiatives at Baylor College of Medicine (BCM) in Houston, Texas. He joined BCM in July of 2005 after serving on the faculty of the University of Alabama at Birmingham (UAB) for 25 years. At UAB, Dr. Friedlander was Professor and Founding Chair of the Department of Neurobiology (1996-2005). He also served as Founding Director of the Neurobiology Research Center (1987-1996); as Director of the Mental Retardation Research Center (2001-2005); as Director of the Civitan International Research Center (2002-2005); and as the first Evelyn F. McKnight Professor of Learning and Memory in Aging (2004-2005). Dr. Friedlander received his B.S. from Florida State University and his Ph.D. in Physiology/Biophysics from the University of Illinois, Champaign, and did his postdoctoral training in neurophysiology at the University of Virginia School of Medicine in Charlottesville. Dr. Friedlander is the founding president of the Association of Medical School Neuroscience Department Chairs (AMSND) and a former councilor of the Association of Anatomy, Cell Biology and Neurobiology Chairs (AACBNC). Dr. Friedlander serves on the Administrative Board of the AAMC's Council of Academic Societies, Dr. Friedlander was recently selected as the CAS's Chair-Elect. Dr. Friedlander also serves on the AAMC Executive Council. Dr. Friedlander is a recipient of the William Menninger Award for Mental Health Research and the University of Illinois Distinguished Alumnus in Molecular and Integrative Physiology. In addition, Dr. Friedlander has served on various NIH and NSF panels, including as Chair of the NIMH Conte Research Centers IRG. He serves as a member of both the National Caucus of Basic Biomedical Science Chairs and the Dana Alliance for Brain Initiatives. He serves as the Associate Editor for the Neuroscience section of the Journal of Experimental Biology and Medicine. His research is in the area of development and environmental effects on the functional interactions between neurons in the visual areas of the cerebral cortex, including the role of calcium in triggering long term synaptic changes that occur during learning.

Sherine E. Gabriel, M.D., M.Sc., received a Doctor of Medicine degree, with distinction, from the University of Saskatchewan, Canada in 1982. Following a one-year rotating internship at the University of Manitoba Teaching Hospitals, she completed an Internal Medicine Residency and a Rheumatology fellowship at the Mayo Graduate School of Medicine in Rochester, Minnesota. Dr. Gabriel then pursued advanced training in research methods at McMaster University in Canada where she was awarded a Master of Science in Clinical Epidemiology in 1991. She is certified by the American Board of Internal Medicine in both Internal Medicine and Rheumatology. She is Professor of Epidemiology and of Medicine at the Mayo Clinic College of Medicine, Chair of the

Department of Health Sciences Research (HSR), and the William J. and Charles H. Mayo endowed professor.

Dr. Gabriel's research program integrates clinical rheumatology epidemiology and health services research. She has made important contributions to our understanding of the risks, determinants, and outcomes of the rheumatic diseases. A few highlights include her many publications on the risks, costs, and cost-effectiveness of nonsteroidal anti-inflammatory drugs (NSAIDs), her well known epidemiologic studies examining the risks of connective tissue diseases among women with breast implants, her population-based studies characterizing the epidemiology of nearly all the major rheumatic diseases (e.g., RA, JRA, SLE, GCA, PMR, psoriatic arthritis, localized scleroderma), and her studies defining the economic impact of RA. Her current research is focused on elucidating the risks and determinants of heart disease among persons with Rheumatoid Arthritis. Altogether, her research has resulted in 306 publications with over 2700 citations.

Dr. Gabriel's research has been widely recognized, nationally and internationally. This is evidenced by her role on several editorial boards, her service on numerous NIH and AHCPR study sections, and her leadership roles in both the Arthritis Foundation and the American College of Rheumatology (ACR). She has served in numerous roles for the American College of Rheumatology, as a member of the Board of Directors, and as chair of the Quality Measures Committee. She was recently nominated to serve as a Vice President of the College beginning in November 2006.

Dr. Gabriel has a strong commitment to clinical research education and career development. With funding from the National Institutes of Health, she developed the Mayo Clinical Research Training and Career Development Programs. These programs offer a structured clinical research curriculum combined with a mentored clinical research practicum leading to either a Master's degree or a Certificate in Clinical Research. The programs have been a resounding success, received enthusiastically by both faculty and participants. In fact, the Masters degree in Clinical Research has rapidly become the largest and most highly sought after program at Mayo Graduate School. Dr. Gabriel has received several honors for her educational contributions including the Distinguished Educator Award at the Clinical Research 2006 National Meetings, the 2006 McCann Scholar Award for Excellence in Mentoring in Medicine and Science, and the 2006 Mayo Clinic Distinguished Educator Award.

William Galey, Ph.D., is Director of Graduate and Medical Education Programs at Howard Hughes Medical Institute in Chevy Chase, Maryland. As a director in Grants and Special Programs at HHMI he is responsible for both the HHMI Research Fellowships for Medical Students and the HHMI-NIH Medical Research Scholars programs. Dr. Galey also directs HHMI's efforts in graduate studies including the predoctoral fellowship program, the postdoctoral fellows program, and HHMI's involvement in laboratory management training and advanced biological science courses in partnership with leading nonprofit organizations such as Cold Spring Harbor Laboratories and the Woods Hole Marine Biological Laboratory. Dr. Galey now also leads HHMI's new initiative "Med into Grad" aimed at bringing a better understanding of medicine and pathobiology to Ph.D. graduate education in the biomedical sciences. HHMI's new HHMI-NIBIB Interfaces Initiative for Interdisciplinary Graduate Research Training aimed to stimulate the training of biomedical scientists at the interface with the physical, mathematical or computational sciences is also his responsibility.

Dr. Galey holds a PhD from the University of Oregon Medical School, and was a fellow at Harvard University. After a brief period in the pharmaceutical industry, Dr. Galey joined the University of New Mexico School of Medicine where he taught physiology to medical, graduate and allied health students; conducted research in cellular and gastrointestinal physiology and held various administrative positions including Associate Dean for Graduate Studies and Interim Dean for Research before joining HHMI in 2002. As an educator Dr. Galey has been involved in the development and dissemination of innovative methodologies in medical education and has directed PhD and MD/PhD programs in the biomedical sciences. He has been active in professional organizations to improve science education for children and members of underrepresented groups.

Thomas R. Insel, M.D., is Director of the National Institute of Mental Health (NIMH), the component of the National Institutes of Health charged with generating the knowledge needed to understand, treat, and prevent mental disorders. With a budget of over \$1.4 billion, the NIMH leads the nation's research on disorders that affect an estimated 44 million Americans, including one in five children.

Immediately prior to his appointment as Director, which marked his return to NIMH after an 8-year hiatus, Dr. Insel was Professor of Psychiatry at Emory University. There, he was founding director of the Center for Behavioral Neuroscience, one of the largest science and technology centers funded by the National Science Foundation and, concurrently, director of an NIH-funded Center for Autism Research. From 1994 to 1999, he was Director of the Yerkes Regional Primate Research Center in Atlanta. While at Emory, Dr. Insel continued the line of research he had initiated at NIMH studying the neurobiology of complex social behaviors in animals. Early in his NIMH research career, which extended from 1979 to 1994, Dr. Insel conducted clinical research on obsessive-compulsive disorder, conducting some of the first treatment trials for OCD using the selective serotonin reuptake inhibitors (SSRI) class of medications. He has published over 200 scientific articles and four books, including the *Neurobiology of Parental Care* (with Michael Numan) in 2003.

Dr. Insel has served on numerous academic, scientific, and professional committees, including 10 editorial boards. He is a member of the Institute of Medicine, a fellow of the American College of Neuropsychopharmacology, and is a recipient of several awards [A. E. Bennett Award from the Society for Biological Psychiatry, Curt Richter Prize from the International Society of Psychoneuroendocrinology, Outstanding Service Award from the U.S. Public Health Service, and a Distinguished Investigator Award from the National Alliance for Research on Schizophrenia and Depression (NARSAD)]. Dr. Insel graduated from the combined B.A.-M.D. program at Boston University in 1974. He did his internship at Berkshire Medical Center, Pittsfield, Massachusetts, and his residency at the Langley Porter Neuropsychiatric Institute at the University of California, San Francisco.

Darrell G. Kirch, M.D., is president and chief executive officer of the Association of American Medical Colleges (AAMC), a position he assumed on July 1, 2006. Founded in 1876, the AAMC is a Washington, D.C.-based, non-profit association representing all 125 accredited U.S. and 17 accredited Canadian medical schools, nearly 400 teaching hospitals and health systems, including 68 Department of Veterans Affairs medical centers; and 96 academic and scientific societies.

Through these institutions and organizations, the AAMC also represents 109,000 faculty members, 67,000 medical students, and 104,000 resident physicians.

A distinguished medical scientist, educator, physician, and noted authority on organization and management issues at academic medical centers, Dr. Kirch's career spans all aspects of academic medicine and includes leadership positions at two medical schools and teaching hospitals, as well as at the National Institutes of Health (NIH). Before becoming the AAMC's fourth president, Dr. Kirch was selected to be chair-elect of the association, and served as the co-chair of the Liaison Committee on Medical Education (LCME) and as a member-at-large of the National Board of Medical Examiners (NBME). He also has served as chair of the AAMC's Council of Deans Administrative Board and as chair of the American Medical Association's Section on Medical Schools. Dr. Kirch comes to the AAMC after six years as senior vice president for health affairs, dean of the college of medicine, and CEO of the Milton S. Hershey Medical Center at The Pennsylvania State University, where he and his leadership team are credited with revitalizing the institution and guiding it through a period of major expansion. During his tenure, the college of medicine received its full accreditation from the LCME, and the medical center showed exceptionally solid fiscal results and dramatic growth in clinical activity. Under his stewardship, total research funding for the Penn State Hershey campus also grew from less than \$55 million to more than \$100 million in only five years.

Before joining Penn State, Dr. Kirch held a number of leadership positions at the Medical College of Georgia from 1994 to 2000, including dean of the medical school, senior vice president for clinical activities, and dean of the school of graduate studies. As a psychiatrist and clinical neuroscientist, Dr. Kirch is a leading expert on the biological basis of and treatments for severe neuropsychiatric disorders. Following the completion of his residency training at the University of Colorado Health Sciences Center, he joined the National Institute of Mental Health (NIMH), in Bethesda, Maryland, where he was named acting scientific director in 1993.

Dr. Kirch is a native of Denver and received both his B.A and M.D. degrees from the University of Colorado. He has had an active career as a clinician and researcher, and has held medical faculty positions at Penn State, the Medical College of Georgia, and George Washington University. Dr. Kirch is an active member of several professional societies, including the American College of Psychiatrists, the American Medical Association, and the American Psychiatric Association. A prolific writer and public speaker, he has published more than 100 articles and made over 130 presentations to national medical and scientific organizations.

Gregory S. Kopf, Ph.D., is Assistant Vice President, Discovery, Women's Health & Musculoskeletal Biology at Wyeth Research, Wyeth Pharmaceuticals, and Adjunct Professor of Obstetrics and Gynecology, University of Pennsylvania. He currently directs the discovery efforts of Wyeth Research in the area of contraception, and is also the program director of the Wyeth Discovery Postdoctoral Program. He received his B.A. in Biology from the College of Wooster in 1973 and his Ph.D. in Physiology at Vanderbilt University in 1979. His postdoctoral training was carried out in the Howard Hughes Medical Institute at Vanderbilt University School of Medicine under the mentorship of David L. Garbers, Ph.D., and in the Marine Biology Research Division of Scripps Institution of Oceanography at the University of California, San Diego under the mentorship of Victor D. Vacquier, Ph.D. Following the completion of his postdoctoral fellowships

in 1982, he joined the Department of Obstetrics and Gynecology at the University of Pennsylvania School of Medicine as an Assistant Professor in the Division of Reproductive Biology. During his tenure at Penn he rose to the ranks of Professor, and in 1994 became the Celso-Ramon Garcia Professor of Reproductive Biology in Obstetrics and Gynecology at the University of Pennsylvania. He was also the Associate Director of the Center for Research on Reproduction & Women's Health at Penn from 1995 until his departure from Penn for Wyeth in October, 2001.

Dr. Kopf's academic research interests have focused on invertebrate and mammalian fertilization, gametogenesis and early events of egg activation, and this work was supported by the Mellon Foundation, NSF and the NIH. At Wyeth he directs a drug discovery group responsible for the identification and validation of various targets for contraception and other disease areas in women's health, and his group is also involved in HTS assay development, compound testing, and lead optimization.

He has published 174 journal articles, reviews and chapters, and has mentored graduate students, postdoctoral fellows and reproductive endocrine fellows. Dr. Kopf has served on several editorial boards, including the Journal of Biological Chemistry, Developmental Biology, Biology of Reproduction, Zygote, and Zoological Science. He has also served on several federal government public advisory committees (NSF, NCI, NICHD), was the Chair of the Gordon Research Conference on Fertilization and Activation of Development, and was a member of the Institute of Medicine Committee of the National Academies on New Frontiers in Contraceptive Research.

David Korn (B.A., *scl*, M.D., *cl*, Harvard University) is presently the Senior Vice President for Biomedical and Health Sciences Research at the Association of American Medical Colleges (AAMC) in Washington, D.C., a position he assumed on September 1, 1997.

Dr. Korn served as Carl and Elizabeth Naumann Professor and Dean of the Stanford University School of Medicine from October 1984 to April 1995, and as Vice President of Stanford University from January 1986 to April 1995. Before that he had served as Professor and Chairman of the Department of Pathology at Stanford, and Chief of the Pathology Service at the Stanford University Hospital, since June 1968. Dr. Korn has been Chairman of the Stanford University Committee on Research; President of the American Association of Pathologists (now the American Society for Investigative Pathology), from which he received the Gold-Headed Cane Award for lifetime achievement in 2004; President of the Association of Pathology Chairmen; a member of the Board of Directors and the Executive Committee of the Federation of American Societies for Experimental Biology; and a member of the Board of Directors of the Association of Academic Health Centers.

Dr. Korn was a founder and Chairman of the Board of Directors of the California Transplant Donor Network, one of the nation's largest Organ Procurement Organizations. More recently, he was a founder of the Association for the Accreditation of Human Research Protection Programs, a nonprofit corporation created to enhance and standardize the protection of human participants in medical research. He is a member of the Institute of Medicine of the National Academy of Sciences, and a founder of the Clinical Research Roundtable. In 1996-97 Dr. Korn chaired the Special Subcommittee of the Science Board of the Food and Drug Administration to Review the FDA's Intramural Research Program, for which he received the Commissioner's Special Citation

and the Harvey W. Wiley Medal. He served from 1984 to 1991 as Chairman of the National Cancer Advisory Board, a position to which he was appointed by President Reagan. Dr. Korn is a Fellow of the AAAS and recently served on its Council, and was a member of the University Grants Committee of Hong Kong from 1998-2004, where he served as Chairman of the Medical Subcommittee.

Dr. Korn served on the Boards of Directors of the Stanford University Hospital from October 1982 to April 1995, the Children's Hospital at Stanford from October 1984 to its closure, and the Lucile Salter Packard Children's Hospital at Stanford from October 1984 to April 1995. He was a member of the Board of Directors of the California Society of Pathologists from 1983-86.

Alan Leshner, Ph.D., has been Chief Executive Officer of the American Association for the Advancement of Science and Executive Publisher of the journal *Science* since December 2001. AAAS was founded in 1848 and is the world's largest, multi-disciplinary scientific and engineering society.

Before coming to AAAS, Dr. Leshner was Director of the National Institute on Drug Abuse (NIDA) from 1994-2001. One of the scientific institutes of the U.S. National Institutes of Health, NIDA supports over 85 percent of the world's research on the health aspects of drug abuse and addiction. Before becoming Director of NIDA, Dr. Leshner had been the Deputy Director and Acting Director of the National Institute of Mental Health. He went to NIMH from the National Science Foundation (NSF), where he held a variety of senior positions, focusing on basic research in the biological, behavioral and social sciences, science policy and science education.

Dr. Leshner went to NSF after 10 years at Bucknell University, where he was Professor of Psychology. He has also held long-term appointments at the Postgraduate Medical School in Budapest, Hungary; at the Wisconsin Regional Primate Research Center; and as a Fulbright Scholar at the Weizmann Institute of Science in Israel. Dr. Leshner is the author of a major textbook on the relationship between hormones and behavior, and has published over 150 papers for both the scientific and lay communities on the biology of behavior, science and technology policy, science education, and public engagement with science.

Dr. Leshner received an undergraduate degree in psychology from Franklin and Marshall College, and M.S. and Ph.D. degrees in physiological psychology from Rutgers University. He also holds honorary Doctor of Science degrees from Franklin and Marshall College and the Pavlov Medical University in St. Petersburg, Russia. Dr. Leshner is an elected fellow of AAAS, the National Academy of Public Administration, the American Academy of Arts and Sciences, and many other professional societies. He is a member of the Institute of Medicine of the National Academies of Science. The U.S. President appointed Dr. Leshner to the National Science Board in 2004, and he represents AAAS on the U.S. Commission for UNESCO.

Richard B. Marchese, Ph.D. is the Vice President for Research at the University of Alabama at Birmingham. His administrative functions include strategic planning, regulatory oversight, recruitment, and space allocation for a research enterprise generating approximately \$450 million annually.

Dr. Marchase received his undergraduate degree with honors in 1970 from Cornell University, and was honored with the Hamilton Award as the Outstanding Graduate in Science and Engineering. He received his Ph.D. from The Johns Hopkins University in 1976 and did postdoctoral training at Duke University. He was named a member of the faculty there in 1978 and was honored as a Nanaline H. Duke Scholar. In 1984 he received one of the inaugural Presidential Young Investigator Awards from the National Science Foundation. Dr. Marchase was recruited to the University of Alabama at Birmingham in the Department of Cell Biology in 1986 as an Associate Professor. He was promoted to Professor in 1990 and was named Chair in 1994. He became Associate Dean in 2000 and Vice President in 2004.

Dr. Marchase maintains an active research laboratory supported by the National Institutes of Health. He is a past Associate Editor of *The Anatomical Record* and was on the editorial board of the *American Journal of Physiology: Cell*. He is currently on the Editorial Board of the journal *Shock*. He was presented with the Mary Jane Kugle Award from the Juvenile Diabetes Research Foundation in 1999.

Dr. Marchase is active in several national organizations. He served as President of the Association of Anatomy, Cell Biology, and Neurobiology Chairs and as a member of the National Caucus of Basic Biomedical Science Chairs. He serves on the steering committee of the American Association of Medical Colleges' Group on Research Advancement and Development. He is currently Vice President of the Federation of American Societies for Experimental Biology, which represents over 80,000 scientists and is recognized as the principal voice of the biomedical research community on issues related to research funding and research integrity.

David B. Moore is Senior Associate Vice President for Governmental Relations at the Association of American Medical Colleges. He has primary responsibility for legislative issues related to the federal budget and appropriations, research and research training, health professions education, public health, and ethical issues in science and medicine. He is the founding editor of *Washington Highlights*, the Association's weekly government affairs newsletter. He also serves as Executive Secretary for the AAMC Government Relations Representatives (GRR) Group.

A graduate of Bucknell University, Mr. Moore did his graduate work in experimental pathology at the University of Maryland School of Medicine and in health and science journalism at Marquette University. Prior to joining the AAMC in 1984, he interned at the National Cancer Institute and worked for the Director of the National Institute on Aging.

Since 1987 he has served as Executive Secretary and now Executive Director of the Ad Hoc Group for Medical Research Funding, a coalition of over 300 patient groups, professional societies, and research institutions that advocates for increased funding for the National Institutes of Health.

Trevor M. Penning, Ph.D., Professor of Pharmacology, Biochemistry and Biophysics, and OB/GYN is the Director of the Center for Excellence in Environmental Toxicology, a NIEHS Environmental Health Sciences Center. Dr. Penning was interim-chair of Pharmacology from 1994-1996, and was Director of the Office of Postdoctoral Programs, and Associate Dean for Postdoctoral Research Training, School of Medicine from 1997-2001, and was Director of Biomedical Postdoctoral Programs (BPP) from 2001-2005. As Director of BPP, he oversaw the

appointments, training and education of 850 postdoctoral fellows across the Schools of Medicine, Veterinary Medicine, and Dental Medicine. He is internationally recognized for his research on steroid hormone enzymology and mechanisms by which polycyclic aromatic hydrocarbons cause cancer. His research is now focused on the emerging role of Aldo-Keto Reductases (AKRs) in hormonal and chemical carcinogenesis. <<http://www.med.upenn.edu/akr>> He is Principal Investigator on a P01 entitled: "Molecular Mechanisms of Multi-stage Carcinogenesis", the focus of which is to establish the major pathway of activation of polycyclic aromatic hydrocarbons as it relates to human lung carcinogenesis. He has published over 140 peer-review articles and is the recipient of five U.S. patent applications. He has served on the Editorial Boards of the Journal of Biological Chemistry, Chemical Research in Toxicology, and Steroids. He is a consultant to the WHO International Agency for Research on Cancer. He is Program Chair for the Division of Chemical Toxicology of the American Chemical Society and was elected to the Johns Hopkins Society of Scholars in 1998.

Peter Preusch, Ph.D., is the Acting Research Training Officer of the National Institutes of Health and the Acting Director of the Division of Science Programs in the Office of Extramural Programs in the Office of Extramural Research at the National Institutes of Health. He also serves as the Program Director for the Division of Pharmacology, Physiology, and Biological Chemistry in the National Institute of General Medical Sciences at the National Institutes of Health. He received his B.S. in Biochemistry from Pennsylvania State University in 1974, his Ph.D. in Biochemistry with a minor in Chemical Engineering from Cornell University. He was a Postdoctoral Fellow in the Department of Biochemistry at the University of Wisconsin from 1979-1983, from which he went on to become an Assistant Professor of Chemistry at the University of Akron for 7 years. He began his career at NIH as a Scientific Review Administrator in the Division of Research Grants and in 1992 went on to his present position of Program Director at the National Institute of General Medical Sciences, NIH. His responsibilities there include NIH-wide oversight for research education, training grants, fellowships, and career development awards and management oversight of OEP activities in research education, review policy, research misconduct, human subjects research, training and education regarding use of animals in biomedical research. His responsibilities at NIGMS include being the Program Director for Pharmacological Sciences Predoctoral Training Grant Program, the Program Director for research grants in Bioenergetics and Redox Biochemistry, the Program Director for research grants in Bioinorganic Chemistry, and the Program Coordinator for the NIGMS SBIR/STTR Small Business Grant Programs. He also serves as the Implementation Team Leader for the NIH Roadmap for Structural Biology and in 2006 he chaired the NIH Staff Training in Extramural Programs (STEP) Committee.

John H. Russell, Ph.D., graduated from Juniata College, Huntingdon, PA, was drafted into the army and spent one year in Vietnam. He received his Ph.D. in Pharmacology from Washington University, St. Louis, MO and did postdoctoral training in tumor immunology in the laboratory of Herman Eisen at MIT. He returned to Washington University and has been very active in the Immunology Graduate Program. Currently his research interest is in CNS inflammation and animal models of multiple sclerosis. He also currently serves as the Associate Dean of Graduate Studies for the Division of Biology and Biomedical Sciences which is responsible for the oversight of all Ph.D. Programs and the Office of Postgraduate Affairs at Washington University School of Medicine.

Nancy B. Schwartz, Ph.D., has been at the University of Chicago since 1975 and was named professor of Pediatrics and Biochemistry and Molecular Biology in 1985. Dr. Schwartz has held an Arthritis Foundation Fellowship, and AHA Established Investigatorship and NIH Research Career Development award. She is director of the Kennedy Research Center, Markey Molecular Medicine Program, the NIH Growth and Development M.D./ Ph.D. Program, an NIH Program Project (PO1), a PREP Program, two NIH RO1s, and one MERIT award, and a recently awarded NIH P30 Research Center for Mental Retardation and Developmental Disabilities. Dr. Schwartz was appointed Associate Dean for Graduate Affairs in the Division of Biological Sciences at the University of Chicago in 1986 and was named Dean for Graduate Affairs in 1999 and for Postdoctoral Affairs in 2002. She oversees all aspects of graduate education and postdoctoral affairs for 19 Ph.D. degree granting units, encompassing 450 graduate students and about 400 postdocs. She has served on many NIH study sections and foundation review boards, the editorial board of *J. Biol. Chem.* and the Executive Committee and President of Glycoconjugate Society. Dr. Schwartz has served on the Steering Committee of the GREAT Group, Chair of the Postdoc Subcommittee, Executive Committee of the National Postdoc Association, Board of Directors of the Graduate Record Exam, and is Chair-Elect of the GREAT Group.

Bert Shapiro, Ph.D., is Program Director, Medical School Training Program, at the National Institute of General Medical Sciences (NIGMS). At the NIGMS, he is also Chief of the Cell Biology Branch in the Division of Cell Biology and Biophysics. Dr. Shapiro earned a B.A. in biology from Swarthmore College and his M.A. and Ph.D. in biology from Harvard University. Prior to joining the NIGMS, he was an Associate Professor of Biology at Harvard University.

Srinivas Sridhar, Ph.D., is Vice Provost for Research, and Arts and Sciences Distinguished Professor of Physics at Northeastern University. He is the Director of Nanomedicine Science and Technology, an IGERT (Integrative Graduate Education and Research Training) program funded by the National Cancer Institute and the National Science Foundation. He is the founding director of the Electronic Materials Research Institute. In the area of Nanomedicine, he is currently developing nanoparticles for imaging, diagnostics and localized energy delivery for medical applications. In the area of Negative Index Nanophotonics, he is developing new negative refractive index nanostructures and metamaterials, and exploring new approaches to imaging. His recent work on flat lens imaging was listed among Breakthroughs of the Year 2003 by the journal *Science*.

As Vice Provost for Research, Professor Sridhar administers and promotes Northeastern University's research program, and develops new inter-disciplinary research and education programs and clusters of excellence. Professor Sridhar has published more than 128 journal articles and has given 170 invited talks. Professor Sridhar received his Ph.D. in Physics from the California Institute of Technology. For more information see <http://sagar.physics.neu.edu> and www.igert.neu.edu.

Paula Stephan, Ph.D., is Professor of Economics, Andrew Young School of Policy Studies, Georgia State University. Her research interests focus on the careers of scientists and engineers and the process by which knowledge moves across institutional boundaries in the economy. Other research interests include the role that immigrant scientists play in U.S. science.

Dr. Stephan was recently appointed to serve a four-year term on the National Advisory General Medical Sciences Council, National Institutes of Health, and currently serves on the Advisory Committee of the Social, Behavioral, and Economics Program, National Science Foundation. She was a member of the European Commission High-Level Expert Group that authored the report “Frontier Research: The European Challenge.” She has served on a number of National Research Council committees, including the committee on “Policy Implications of International Graduate Students and Postdoctoral Scholars in the United States,” and the committee on “Trends in the Early Careers of Life Scientists.” Dr. Stephan has testified before the U.S. House Subcommittee on Basic Science. She is a member of the Scientific and Engineering Workforce Project of the National Bureau of Economic Research. Her research has been supported by the Alfred P. Sloan Foundation, the Andrew W. Mellon Foundation, and the National Science Foundation.

Thomas R. Viggiano, M.D., M.Ed., is the Associate Dean for Faculty Affairs at Mayo Medical School and the Barbara Woodward Lips Professor at the Mayo Clinic College of Medicine. Dr. Viggiano coordinates Mayo Medical School’s Faculty Development Program, chairs Mayo Clinic’s Education Innovation Award, and serves on the Mayo Clinic’s Career and Leadership Development and Academic Appointment and Promotions Committees. He has also played a major role in the design, integration, and administration of Mayo Medical School’s curriculum. Dr. Viggiano is currently Chair of the Association of American Medical Colleges’ Faculty Affairs Planning Committee. He has been a longtime member of the AAMC’s Group on Educational Affairs and has served on the Program Committee for the Consensus Development Conference on Education Scholarship, on the Executive Committee for the Research in Medical Education Section, and on the Executive Committee for the Central Group on Educational Affairs. He is a faculty member for the Harvard Macy Institute’s Program for Leaders in Medical Education and serves as a site visitor for the Liaison Committee for Medical Education. He has served on 2 task forces for the National Board of Medical Examiners and has served on the Board of Directors of the International Association of Medical Science Educators.

Alan Wasserstein, M.D., received his BA from Amherst College and his MD from the Albert Einstein College of Medicine. He did his residency in internal medicine and his fellowship in nephrology at the Hospital of the University of Pennsylvania and joined the faculty in 1980. His entire professional career has been spent at Penn. He directs the Stone Evaluation Center and the Outpatient Dialysis Unit. He is secretary of the Subspecialty Board on Nephrology of the American Board of Internal Medicine. He has consistently been cited as a “Top Doc” by Philadelphia Magazine. In 2000-2001 he served as chair of the Medical Faculty Senate. Since 2001 he has served as Vice Dean for Faculty Affairs. In this capacity he has been concerned with faculty tracks and promotions, faculty professional development, issues of gender and the underrepresented in medicine, and professionalism. His areas of interest and publication include nephrolithiasis, history and literature of medicine, and faculty affairs. He contributed to creation of the Academic Clinician track, the Gender Equity Council, and the Arthur Asbury Faculty Mentoring Award at the Penn School of Medicine.

Henry H. Wortis, M.D., is the Director of the Training Program in Immunology and also of the Post Baccalaureate Research Experience Program (PREP) at the Sackler School of Graduate Biomedical Sciences at Tufts University School of Medicine (TUSM). He is the Chair of the Department of Pathology at the medical school. He received his M.D. from Albert Einstein

College of Medicine and further training during a residency in Medicine at Bellevue Hospital, New York University School of Medicine and a Rheumatology fellowship at Stanford University. He had research training at Stanford with Drs. Leonard and Lee Herzenberg and in London at the National Institute for Medical Research with Sir Peter Medawar and Dr. Avrion Mitchison. He then joined the faculty at TUSM. His research contributions include discoveries of the epithelial cell defect that causes the failure of thymus development in nude mice, the qualitative nature of T cell help and an understanding of the mechanisms by which CD22 negatively regulates B cell function. Most recently he has turned his attention toward developing a genetic strategy for understanding the loss of immune resistance to infection in the aged. He has trained 18 successful Ph.D. candidates and 10 postdoctoral fellows.

Allan J. Yates, M.D., Ph.D., has a longstanding interest and active participation in both graduate education and biomedical research. At OSU he has maintained an active research program with extramural funding for 28 years, 25 years of which he has received continuous funding from N.I.H. He has published 147 peer reviewed papers, 16 book chapters and has co-edited 3 books. His basic research has been on the glycolipid composition and function of normal and diseased nervous cells and tissues, and his translational studies are on glycolipids as diagnostic and prognostic indicators. He has been involved as a diagnostic neuropathologist in several clinical studies on the treatment of human gliomas with the Children's Cancer Group (now the Children's Oncology Group). He was the co-founder of *Molecular and Chemical Neuropathology* and Deputy Chief Editor of this journal for 17 years. He became the director of the IBGP in 2000, and as such is the Chair of the Graduate Studies Committee, the Recruiting Committee and the Admissions Committee for that program. He is a member of the Executive Committee of the School of Biomedical Sciences, representing both the IBGP and the Department of Pathology. He is a member of the COMPH Health Sciences Education Committee and the Committee of Education Deans. He is currently on two major committees of the OSU Graduate School (Research and Graduate Council; Policy and Procedures Committee) and was on the Graduate Associate and Fellowship Committee. Dr. Yates was recently elected to the Steering Committee of the National Association of MD-PhD Directors. He has contributed to the organization of several scientific meetings at the local, national and international levels. Dr. Yates was recently appointed Associate Dean for Graduate Education for the COMPH and represents the COMPH on the Council of Life Science Deans.

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Univ. of North Texas Health Science Center

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Professor of Pathology
Tufts University School of Medicine

Future Meetings

2006

AAMC Annual Meeting
October 27 – November 1, 2006
Seattle, WA

2007

GREAT Group MD-PhD Section Annual Meeting
July 26-27, 2007
Keystone, CO

MD-PhD Student Conference
July 27-29, 2007
Keystone, CO

GREAT Group Annual Meeting
October 20-22, 2007
Providence, RI

