



Tomorrow's Doctors, Tomorrow's Cures®

GREAT Group MD-PhD Section Annual Meeting

October 5-6, 2006
The Westin La Paloma
Tucson, AZ

Association of
American Medical Colleges

GREAT Group MD-PhD Section Annual Meeting

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Agenda

Thursday October 5

2:00 – 6:00 pm	Registration	<i>Murphey Coatcheck</i>
2:00 – 4:00 pm	MD-PhD Section Data Collection and Analysis Committee Meeting (closed meeting)	<i>Ironwood</i>
4:00 – 4:30 pm	Opening Remarks David Korn, M.D. Senior Vice President Association of American Medical Colleges Arthur Gutierrez-Hartmann, M.D. Director, Medical Scientist Training Program and Professor of Medicine University of Colorado Health Sciences Center Chair, MD-PhD Section	<i>Murphey</i>
4:30 – 6:00 pm	MD-PhD Section Business Meeting Arthur Gutierrez-Hartmann, M.D. Director, Medical Scientist Training Program and Professor of Medicine University of Colorado Health Sciences Center Chair, MD-PhD Section	<i>Murphey</i>
6:00 – 6:30 pm	Welcome Reception	<i>Terrace Level Patio & Foyer</i>
6:30 – 8:00 pm	Dinner	<i>Terrace Level Patio</i>

Friday, October 6

7:00 – 8:30 am	MD-PhD Section 2006-2007 Program Committee Breakfast (closed meeting)	<i>Acacia</i>
7:30 – 8:30 am	Continental Breakfast	<i>Murphey Patio</i>
8:30 – 10:00 am	SESSION I Reorganization of GCRCs into CTSA: Impact on and New Opportunities for MD-PhD Training	<i>Murphey</i>
	Moderator: Arthur Gutierrez-Hartmann, M.D. Director, Medical Scientist Training Program and Professor of Medicine University of Colorado Health Sciences Center Chair, MD-PhD Section	
	Speaker: Anthony Hayward, M.D., Ph.D. Associate Director of Clinical Research National Center for Research Resources National Institutes of Health	
	Panelists: Clifford Harding, M.D., Ph.D. Program Director, Medical Scientist Training Program Case Western Reserve University School of Medicine	
	Eugene P. Orringer, M.D. Professor of Medicine Executive Associate Dean for Faculty Affairs and Faculty Development University of North Carolina at Chapel Hill School of Medicine	
10:00 – 10:30 am	Break	
10:30 am – 12:30 pm	SESSION II AAMC Policies and Services	<i>Murphey</i>
	Moderator: Clayton A. Wiley, M.D., Ph.D. Director, Medical Scientist Training Program University of Pittsburgh	

Friday, October 6, Cont.

Speakers:

Traffic Rules for Medical School Applicants: Implications for MD-PhD Applicants and Programs

Status: Criminal Background Checks for Accepted Applicants

Update: AMCAS Application

Robert Sabalis, Ph.D.

Associate Vice President for Student Affairs and Programs

Association of American Medical Colleges

Tracking of MD-PhD Students

Gwen Garrison, Ph.D.

Director, Student and Applicant Studies

Association of American Medical Colleges

12:30 – 2:00 pm

Lunch with Table Topics

Murphey Patio

2:00 – 3:00 pm

**SESSION III
NIH Update**

Murphey

Moderator:

Lawrence “Skip” Brass, M.D., Ph.D.

Associate Dean, Combined Degree & Physician Scholar Program

University of Pennsylvania School of Medicine

Speaker:

Bert Shapiro, Ph.D.

Director, Medical Scientist Training Program

National Institute of General Medical Sciences

National Institutes of Health

3:00 – 4:00 pm

**SESSION IV
MD-PhD Students and the NIH Graduate Partnership Programs**

Murphey

Moderator:

Lawrence “Skip” Brass, M.D., Ph.D.

Associate Dean, Combined Degree & Physician Scholar Program

University of Pennsylvania School of Medicine

Friday, October 6, Cont.

Speakers:

Richard Siegel, M.D., Ph.D.

Investigator, Autoimmunity Branch
National Institute of Arthritis, Musculoskeletal and Skin Diseases
National Institutes of Health

Michael Lenardo, M.D., Ph.D.

Senior Investigator, Laboratory of Immunology
National Institute of Arthritis, Musculoskeletal and Skin Diseases
National Institutes of Health

4:00 – 4:15 pm Closing Remarks

Arthur Gutierrez-Hartmann, M.D.

Director, Medical Scientist Training Program and Professor of Medicine
University of Colorado Health Sciences Center
Chair, MD-PhD Section

5:00 – 7:00 pm **Reception and Poster Session** *Terrace Level Patio & Foyer*
(joint with GREAT Group Annual Meeting)

7:00 – 9:00 pm GREAT Group MD-PhD Section Executive Committee Dinner *Cottonwood*
(by invitation only)

Speaker Biographical Sketches

Lawrence F. Brass, M.D., Ph.D., has been a member of the Penn faculty since 1982 and is currently Professor of Medicine (in the Hematology-Oncology Division), Pharmacology and Pathology, and Vice Chair for Research in the Department of Medicine. Since 1998 he has been Associate Dean of the School of Medicine for the Combined Degree (MSTP) and Physician Scholars programs. He is a National Heart, Lung and Blood Institute (NHLBI)-funded physician-scientist with a longstanding commitment to education and was a 2001 recipient of the Christian R. and Mary F. Lindback Award for Distinguished Teaching from the University of Pennsylvania. Dr. Brass's research interests lie in the fields of hemostasis and vascular biology where he studies the molecular mechanisms underlying platelet activation and supporting the interactions between platelets and other cells. He is currently the P.I. on several NIH-funded research grants, as well as on Penn's NIGMS MSTP training grant and an NHLBI pre- and postdoctoral training grant. He is a past member of the NHLBI Hematology-II study section. Dr. Brass currently serves on four editorial boards and is an elected member of the ASCI and AAP, a former Established Investigator of the American Heart Association, and was a recipient of the IXth Biennial Award for Contributions to Hemostasis Research from the International Society of Thrombosis and Hemostasis. He has published more than 100 articles and reviews and holds two patents. He has trained numerous graduate students and postdoctoral fellows in his lab, and is a member of graduate groups in Pharmacological Sciences, Biochemistry & Molecular Biophysics and Cell & Molecular Biology. He is active in graduate education in a number of ways, including as the co-director of Topics in Molecular Medicine, an attending physician, course director for the hemostasis portions of Module II, and as a member of the advisory committees for Biomedical Graduate Studies (BGS), and the curriculum committee for the medical school. In addition to the Lindback award, Dr. Brass received teaching awards voted by the students of the School of Medicine in 1998, 2000, 2001 and 2002.

Gwen E. Garrison, Ph.D., is the Director of Student and Applicant Research in the Division of Medical School Services and Studies at the AAMC. She oversees all trending analysis regarding medical school applicants, matriculants, students, and graduates. Her portfolio also includes the Student Records System, the national enrollment management application that tracks medical student enrollment, and two student survey instruments that collect background characteristics and the perceptions of pre-medical applicants and medical school matriculants. She brings with her nearly 20 years of experience in various facets of secondary and post-secondary education including 15 years in graduate level education. She holds a PhD in Education with an emphasis in Higher Education from Claremont Graduate University and her research interests include educational access and equity with a special emphasis on diversity, social networks, and organizational change that lead to academic success.

Arthur Gutierrez-Hartmann, M.D., is a Professor in the Departments of Medicine and of Biochemistry & Molecular Genetics, and Director of the NIH-funded Medical Scientist Training Program (MSTP) at UCHSC. He received a BA in Chemistry in 1971 from the University of Texas at Austin. He graduated with an MD from the University of Texas Southwestern Medical School in 1975, and he also pursued graduate studies in the Biochemistry Dept at UTSWMS until 1977. From 1977-80, he completed his Internal Medicine residency training at Stanford University Hospital, and from 1980-83, he completed a Molecular Endocrinology training fellowship with Dr. John Baxter at

UCSF. After an initial faculty position at UCSF from 1983-85, he was recruited to the University of Colorado HSC (1985), received a PEW Scholars Award (1986-90), and has been a founding member of the MD/PhD Training Program (1985; now MSTP), the Molecular Biology Graduate Program (1986), the Cancer Center (1987), and the Reproductive Biology Graduate Program (2004). Dr. Gutierrez-Hartmann has focused much of his efforts in promoting the training of graduate students and physician scientists. He chaired the committee that revamped the first year graduate curriculum and established the "umbrella-entry" Biomedical Sciences Program. He also chaired the committee (RAC) that has established a new model whereby all first year graduate students are funded by institutional means, and serves in leadership positions in national associations dealing with graduate and physician-scientist training. Specifically, he has chaired the NIGMS/NIH BRT-A T32 study section, he was elected the 2006 President of the National Association of MD/PhD Programs and Chair of the MD/PhD Program Section of the AAMC GREAT Group. Finally, his research is focused on the role of the ETS family of transcription factors in neuroendocrine and epithelial cancers; he chaired the 2006 Prolactin Family Gordon Research Conference; serves on multiple editorial boards and he has been selected for several research awards and visiting professorships. As a clinician he attends patients with endocrine disorders and he has been inducted into the American Society of Clinical Investigation.

Clifford Harding, M.D., Ph.D., graduated magna cum laude, and with Highest Honors, in Biology from Harvard College in 1979. He completed his M.D. and Ph.D. in Cell Biology at Washington University of St. Louis in 1985. He went on as a Resident and then Chief Resident in Pathology, eventually moving up to an Instructor position in 1989. From 1990 until 1993, Dr. Harding was an Assistant Professor at Washington University as well as Attending Physician at Barnes Hospital of St. Louis. In 1993, he came to Case as an Assistant Professor of Pathology and as Senior Staff Physician at University Hospitals of Cleveland (1993-2003). Presently, Dr. Harding spends his time as a Professor of Pathology (1999-) and Director of the Medical Scientist Training Program (2001-) at Case, along with being on the Adjunct Staff in the Department of Immunology at the Lerner Research Institute of The Cleveland Clinic Foundation.

Anthony Hayward, M.D., Ph.D., trained at University College, London, and subsequently at the Hospital for Sick Children, London, where he specialized in pediatrics and immunology. He moved to the University of Colorado Health Sciences Center in 1978, where he became Professor of Pediatrics, Microbiology & Immunology. His research covered both primary immunodeficiency syndromes and immunity to herpesvirus infections. He moved to the National Center for Research Resources, NIH, in 2001, where he directs the division for Clinical Research Resources.

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.

Michael Lenardo, M.D., Ph.D., currently sits as Chief, Molecular Development of the Immune System Section, LI, DIR, NIAID. He received his B.A. in Natural Sciences from Johns Hopkins University and his M.D. from Washington University School of Medicine in St. Louis, MO. Before his current position he was a Senior Investigator and Chief, Molecular Development of the Immune System Section, LI, DIR, NIAID; Immunology; Affiliate Staff at the Dana Farber Cancer Institute of Harvard Medical School; and a Postdoctoral Fellow at the Whitehead Institute of MIT. His research interests include immunology, tolerance, T Lymphocyte regulation and apoptosis pathways. His many accomplishments include defining the discovered IL-2, regulation of antigen-induced T cell apoptosis and the molecular basis of Autoimmune Lymphoproliferative Syndrome, Types I and II, and describing the molecular basis of T cell clonal anergy and describing multiple novel functions of Fas and TNF receptors in health and disease.

Eugene P. Orringer, M.D., received an A.B. in Zoology from the University of Michigan in 1965 and an M.D. from the University of Pittsburgh School of Medicine in 1969. He then moved to The University of North Carolina at Chapel Hill where, in 1975, after training in both Internal Medicine and Hematology, he joined the faculty as an Assistant Professor in the Department of Internal Medicine. Dr. Orringer was promoted to Associate Professor in 1979 and to Professor in 1986. He served as the Program Director of UNC's NIH-funded General Clinical Research Center (GCRC) for a ten year period that began in 1989. In 1999, he was named to his present position as Executive Associate Dean for Faculty Affairs and Faculty Development in the UNC School of Medicine.

He has for years been a participant in numerous NIH-funded pre- and post-doctoral training programs. In 1995, Dr. Orringer assumed the Directorship of the UNC MD-PhD Program which, under his leadership, has grown from 12 to 63 students. Dr. Orringer is also the Principal Investigator on numerous other grants and contracts from the NIH.

Dr. Orringer and Dr. Marilyn Telen, his counterpart from Duke University, together direct the combined Duke-UNC Comprehensive Sickle Cell Center. Dr. Orringer has served as a member (and Chairperson) of the NIH Sickle Cell Disease Advisory Committee, as a member of the NIH GCRC Study Section, and as the President of the National GCRC Program Directors' Association. He currently serves on the North Carolina Governor's Council on Sickle Cell Disease, chairing the Medical Care & Research Committee. He is a member of the Steering Committee and recently became the Treasurer of the Academic Health Center's Clinical Research Forum. Finally, he is a member of two senior level NIH Committees: the Advisory Committee for the Sickle Cell Disease Branch of the NHLBI and the Advisory Committee for the Office of Research on Women's Health. Dr. Orringer was the 2006 recipient of the Philip Hench Award, an award that is given to that individual selected by the School of Medicine of the University of Pittsburgh as its distinguished alumnus of the year. Dr. Orringer is an Associate Editor of the *American Journal of Hematology*, and he is a member of the Editorial Boards of both the *American Journal of Medicine* and the *American Journal of Medical Sciences*.

Robert Sabalis, Ph.D., is Associate Vice President, Section for Student Affairs and Programs, Division of Medical School Affairs, at the Association of American Medical Colleges (AAMC), and Executive Secretary for the AAMC Group on Student Affairs (GSA). Previously Associate Dean for Medical Education and Academic Affairs and Professor of Family and Preventive Medicine at the University of South Carolina School of Medicine, Dr. Sabalis assumed his AAMC responsibilities in July 2000. At the AAMC, he is responsible for the GSA, the AAMC's professional development group for administrative personnel in admissions, financial aid, minority affairs, student affairs, and student records at AAMC-member medical schools. Also under his purview at the AAMC are *Careers in Medicine*, the AAMC Web-based career-planning program for medical students; the AAMC Organization of Student Representatives (OSR), the medical student component of the AAMC governance; and the AAMC Office of Student Financial Services. A clinical psychologist by training, Dr. Sabalis received his doctoral degree in clinical psychology from Syracuse University.

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.

Richard Siegel, M.D., Ph.D., received his M.D. and Ph.D. from the University of Pennsylvania School of Medicine as part of Penn's MSTP. He trained in Internal Medicine and Rheumatology at Hospital of the University of Pennsylvania, and moved to the NIH in 1996 where he trained as a post-doctoral fellow with Michael Lenardo in the Laboratory of Immunology in NIAID. In 2001, Dr. Siegel moved to NIAMS as an independent investigator and head of the Immunoregulation Group in the Autoimmunity Branch of the Intramural Research Program. His current research interests include signaling and regulation of immune responses by TNF-Family receptors, and the

relevance of these pathways to autoimmune and autoinflammatory diseases. He has a longstanding interest in student training, and is active in the Penn-NIH immunology, NIH-Oxford, and NIH-Cambridge Graduate Partnership Ph.D. training programs. He has mentored HHMI-NIH scholars, one of the first NIH-Oxford Ph.D. Students, and M.D./Ph.D. Students. In 2005, he and Michael Lenardo established the NIH-MSTP partnership program for combined-degree students to do all or part of their research training in the NIH intramural research program, which he now directs.

Clayton A. Wiley M.D., PhD, an early graduate of the MSTP, has been involved in combined degree training for close to 30 years. In 1997 he was appointed Director of the Pittsburgh MSTP and in 2004 served on the AAMC Council of Academic Societies Task Force on Dual Degree Programs. In 2005 he was appointed to the MD/PhD Section Executive committee where he chairs the Data committee. He directs the Division of Neuropathology at the University of Pittsburgh. My research focuses on the role of macrophages in neurodegenerative diseases such as AIDS and Alzheimer's disease. Training: BA U of Chicago 1976; MD/PhD UCSD 1981; Anatomical Pathology Residency UCSF 1981-83; Neuropathology fellowship UCSD 1983-85.

MD-PhD Section Executive Committee

Olaf Sparre Andersen, M.D. – Past Chair
Director, Weill Cornell/Rockefeller/Sloan-
Kettering Tri-Institutional MD-PhD Program
Professor of Physiology and Biophysics
Weill Medical College of Cornell University

Richard J. Bookman, Ph.D.
Executive Dean for Research and Research
Training
University of Miami School of Medicine

Skip Brass, M.D., Ph.D. – Chair-Elect
Associate Dean, Combined Degree &
Physician Scholar Program
Professor of Medicine, Pathology &
Pharmacology
University of Pennsylvania School of
Medicine

Linda Burnley
Director of Administration and Finance
Harvard and MIT Combined M.D. - Ph.D.
Program
Harvard Medical School

David Mark Engman, M.D., Ph.D.
Director
Medical Scientist Training Program
Northwestern University The Feinberg School
of Medicine

Arthur Gutierrez-Hartmann, M.D. – Chair
Director, Medical Scientist Training Program,
Professor of Medicine
University of Colorado Health Sciences
Center

Nancy K. Hall, Ph.D.
Associate Dean for Academic Affairs
University of Oklahoma College of Medicine

Clayton Alexander Wiley, M.D., D.Phil.
Associate Dean, Director of Medical Scientist
Training Program and Professor of Pathology
University of Pittsburgh

MD-PhD Section Program Committee

Ruth Gotian, M.B.A.
Manager
Tri-Institutional MD-PhD Program
Weill Cornell/Rockefeller/SKI

Arthur Gutierrez-Hartmann, M.D. – Chair
Director, Medical Scientist Training Program
Professor of Medicine
University of Colorado Health Sciences
Center

Clifford Harding, M.D., Ph.D.
Professor of Pathology
Case Western Reserve University School of
Medicine

Trevor M. Penning, Ph.D.
Professor of Pharmacology, Biochemistry and
Biophysics and OB/GYN
University of Pennsylvania School of
Medicine

Jana Marie Toutlomin
Administrative Director
Medical Scientist Training Program
University of California, San Francisco

Rod E. Ulane, Ph.D.
Associate Dean for Graduate Biomedical
Education
New York 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