



Tomorrow's Doctors, Tomorrow's Cures®

**Group on Graduate Research, Education, and  
Training (GREAT)  
Annual Meeting  
Integrating Research Education and Training at Medical  
Centers: Opportunities, Challenges, and Solutions**

October 3 - 5, 2008  
Grand Hyatt Seattle  
Seattle, Wash.

Association of  
American Medical Colleges

# **Group on Graduate Research, Education, and Training (GREAT)**

## **Annual Meeting**

### **Integrating Research Education and Training at Medical Centers: Opportunities, Challenges, and Solutions**

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## FACULTY DISCLOSURE STATEMENT

Harvard Medical School has long held the standard that its continuing medical education program be free of commercial bias.

Now, in accord with the disclosure policy of the Medical School as well as standards set forth by the Accreditation Council on Continuing Medical Education, speakers and their spouses/partners, and planners have been asked to disclose any relationship they have to companies producing pharmaceuticals, medical equipment, prosthesis, etc. that might be germane to the content of their lectures. Please note that in accordance with recent policies from the ACCME, relationships of the person involved in the CME activity must include financial relationships of a spouse or partner. In addition, speakers are asked to list any off label uses they will discuss of pharmaceuticals and devices for investigational or non-FDA approved purposes.

Such disclosure is not intended to suggest or condone bias in any presentation, but is elicited to provide registrants with information that might be of potential importance to their evaluation of a given talk.

1. The following speakers, spouses/partners, and planners have reported no relevant relationships with industry:

<i>Olaf S. Andersen, M.D.</i>	<i>Perry V. Halushka, M.D., Ph.D.</i>	<i>Emilda B. Rivers, M.S.</i>
<i>Roberta Bernstein, Ph.D.</i>	<i>Clifford V. Harding, M.D., Ph.D.</i>	<i>Terry B. Rogers, Ph.D., M.S.</i>
<i>John L. Bixby, Ph.D.</i>	<i>Leroy Hood, M.D., Ph.D.</i>	<i>John Russell, Ph.D.</i>
<i>Ann C. Bonham, Ph.D.</i>	<i>Mary Horton, M.P.A., M.A.</i>	<i>Lisa Satlin, M.D.</i>
<i>Lawrence Skip Brass, M.D., Ph.D.</i>	<i>Terri Goss Kinzy</i>	<i>Walter T. Schaffer, Ph.D.</i>
<i>Nancy J. Brown, M.D.</i>	<i>David Korn, M.D.</i>	<i>Nancy B. Schwartz, Ph.D.</i>
<i>Roger Chalkley, D. Phil.</i>	<i>Maggie Krall</i>	<i>Kevin Shannon, M.D.</i>
<i>Jan F. Chelbowski, Ph.D.</i>	<i>Joan M. Lakoski, Ph.D.</i>	<i>Bert Shapiro, Ph.D.</i>
<i>Sonja Cox</i>	<i>Sandra H. Lee, M.D., Ph.D.</i>	<i>Tammi L. Simpson, M.A., M.B.A.</i>
<i>Kathy Crawford, B.B.A</i>	<i>Robinna G. Lorenz, M.D., Ph.D.</i>	<i>Tanya P. Smith</i>
<i>Mary DeLong, Ph.D.</i>	<i>Jodi Lubetsky, Ph.D.</i>	<i>Brian Sullivan, M.A.</i>
<i>Christine Des Jarlais, Ed.D.</i>	<i>Nancy Malson</i>	<i>Nancy Thompson, Ph.D.</i>
<i>David Engman, M.D., Ph.D.</i>	<i>Richard McGee, Ph.D.</i>	<i>Doris E. Thornton, M.Ed.</i>
<i>Victoria Freedman, Ph.D.</i>	<i>Dianna M. Milewicz, M.D., Ph.D.</i>	<i>Mary Anne Timmins</i>
<i>Richard Freeman, Ph.D.</i>	<i>Wishwa N. Kapoor, M.D., M.P.H.</i>	<i>Jana Toutolmin</i>
<i>Michael J. Friedlander, Ph.D.</i>	<i>Charlotte V. Kuh, Ph.D.</i>	<i>Sharon Welling</i>
<i>Don Ganem, M.D.</i>	<i>M. Kerry O'Banion, M.D., Ph.D.</i>	<i>Clayton A. Wiley, M.D., Ph.D.</i>
<i>Gwen Garrison, Ph.D.</i>	<i>Yvonne Paterson, Ph.D.</i>	<i>Valerie P. Wilson, Ph.D.</i>
<i>James R. Goldenring, M.D., Ph.D.</i>	<i>Karen Peterson, Ph.D.</i>	<i>Henry Wortis, M.D.</i>
<i>Ruth Gotian, M.S.</i>	<i>Bruce Ransom, M.D., Ph.D.</i>	<i>Allan Yates, M.D., Ph.D.</i>
<i>Arthur Gutierrez-Hartmann, M.D.</i>	<i>Richard F. Rest, Ph.D.</i>	<i>Michael J. Zigmond, Ph.D.</i>

2. The following speakers, spouses and planners have reported receiving something of value\* from a company whose products may be germane to the content of their presentations:

<b>NAME</b>	<b>COMPANY</b>	<b>RELATIONSHIP</b>
<i>Philip S. Clifford, Ph.D.</i>	<i>Smith Medical</i>	<i>Consultant</i>
	<i>Spacelabs</i>	<i>Consultant</i>
	<i>ITEC Engineering</i>	<i>Consultant</i>
<i>Thomas O. Daniel, M.D.</i>	<i>Celgene</i>	<i>Employee</i>
<i>Emma A. Meagher, M.D.</i>	<i>Novartis</i>	<i>Consultant</i>
	<i>Abbott Labs</i>	<i>Consultant</i>
	<i>Reliant</i>	<i>Consultant</i>
<i>Perry B. Molinoff, M.D.</i>	<i>Palatin Technologies</i>	<i>Board of Directors</i>
	<i>Cypress Bioscience, Inc.</i>	<i>Board of Directors</i>
	<i>Advinus Therapeutics</i>	<i>Scientific Advisory Board</i>
	<i>NPS Pharmaceuticals</i>	<i>Consultant</i>
<i>Peter V. Scoles, M.D.</i>	<i>NBME</i>	<i>Employee</i>

\*“Something of value” refers to an equity position, receipt of royalties, consultantship, funding by a research grant, receiving honoraria for educational services elsewhere, or to any other relationship to a company that provides sufficient reason for disclosure, in keeping with the spirit of the stated policy.

## ACCME STATEMENT

Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Harvard Medical School designates this educational activity for a maximum of 13.5 AMA PRA Category 1 Credit(s)<sup>TM</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

# Agenda

## Friday, October 3

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7:00 am – 5:30 pm    Registration/Information    **Lobby Alcove**

10:30 – 10:35 am    **Welcome**    **Leonessa Ballroom I & II**

Moderator:

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

Director, MD-PhD Program  
Ohio State University Medical Center  
GREAT Group Chair

10:35 am – 12:30 pm    **Session with Postdoctorate Leaders Section**    **Leonessa Ballroom I & II**  
**Driving Diversity in Academic Medical Centers**

Moderator and Speaker:

**Roger Chalkley, D. Phil.**

Senior Associate Dean for Biomedicine Research, Education, and Training  
Vanderbilt University School of Medicine

Speakers:

**Nancy Thompson, Ph.D.**

Associate Dean for Graduate and Postdoctoral Studies  
The Warren Alpert Medical School of Brown University

**Valerie P. Wilson, Ph.D.**

Associate Dean, Graduate School  
Executive Director, Leadership Alliance  
Brown University

### **Five Minute Talks**

*Strategies to Increase the Enrollment of Underrepresented Minority Students  
in Graduate Programs*

**Victoria H. Freedman, Ph.D.**

Director, Graduate Division of Biomedical Sciences  
Albert Einstein College of Medicine

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**Friday, October 3 (continued)**

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*Strategies to Diversify the Postdoc Body***Yvonne Paterson, Ph.D.**

Associate Dean for Postdoctoral Training  
Director of Biomedical Postdoctoral Programs  
University of Pennsylvania School of Medicine

*Development and Evaluation of a Peer-Tutoring Program for Graduate Students***Terri Goss Kinzy**

Associate Dean  
University of Medicine and Dentistry of New Jersey

*VCU Center on Health Disparities***Jan F. Chelbowski, Ph.D.**

Associate Dean for Graduate Education  
Virginia Commonwealth University

As our national population profile becomes increasingly diverse and health disparities broaden to ever more disturbing proportions, our ability to attract and cultivate talented individuals into research and leadership careers becomes ever more acute. We cannot afford to exclude or limit opportunity as we select and train our future national research workforce. Despite significant national funding initiatives, the numbers of underrepresented minority (URM) PhDs and MD-PhDs in research careers remains depressingly low. This session will involve a panel of speakers on the following topics:

- Presentation and analysis of data on current URM biomedical minority scientist trainees and recent graduates at AAMC institutions, including postdoctoral data,
- Available data on URM PhD and MD-PhD alumni career choices,
- Practices and outcomes of interventions by Leadership Alliance, an academic consortium whose mission is to develop URM students into outstanding leaders and role models in academia, business and the public sector.
- Innovative and successful practices in URM student recruitment, retention and career development within academic medical centers (selected 5 minute talks).

An objective of this session is to encourage discussion of creative practices, interventions and collaboration between AAMC institutions to retain talented URM trainees as they advance within our academic pipeline or become candidates for other national leadership positions. In addition, the session will address the broadened definition of diversity to include individuals with

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**Friday, October 3 (continued)**

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disabilities and from disadvantaged backgrounds and the recruitment and retention of such individuals.

12:30 – 2:30 pm

**Lunch with Formal Welcome** **Princessa Ballroom**  
**Joint Session with Postdoctorate Leaders and MD-PhD Sections**  
**Data Collection Management and Interpretation**  
**Needs and Challenges**

Welcome:

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

Director, MD-PhD Program  
Ohio State University Medical Center  
GREAT Group Chair

**David Korn, M.D.**

Chief Scientific Officer  
Association of American Medical Colleges

Speakers:

**Roger Chalkley, D. Phil.**

Senior Associate Dean for Biomedicine Research, Education, and Training  
Vanderbilt University School of Medicine

**Gwen Garrison, Ph.D.**

Director of Student and Applicant Studies  
Association of American Medical Colleges

**Charlotte V. Kuh, Ph.D.**

Deputy Executive Director, Policy and Global Affairs  
The National Academies

Many important activities related to research education (e.g. training grants, annual reports and budgets, local and national surveys, etc.) require accurate data from several different administrative areas. Existing data are often located in different sites and formats making collection difficult, and some information may not be collected prospectively causing additional problems. Data collection and retrieval for many of these purposes would be simplified and provide more reliable information if there were one standardized information system maintained by local institutions that could interface with national information systems such as those maintained by the NRC, MD-PhD Directors, and AAMC. Speakers in this session will discuss their experience with these issues at both the local and national levels, and how they have dealt

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**Friday, October 3 (continued)**


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with them. During the open discussion the level of enthusiasm by the GREAT members for developing such an information system will be explored.

2:30 – 3:00 pm      Break      **Leonessa Foyer**

3:00 – 5:30 pm      **General Session**      **Leonessa Ballroom**  
**Joint Session with Postdoctorate Leaders and MD-PhD Sections**  
**Translational and Clinical Research Training in CTSAs**  
**What is working and what is not working**

Moderator:

**Joan M. Lakoski, Ph.D.**

Associate Dean for Postdoctoral Education  
 University of Pittsburgh School of Medicine

Panelists:

**Wishwa N. Kapoor, M.D., M.P.H.**

Science Institute Director  
 Institute for Clinical Research Education  
 University of Pittsburgh Medical Center

**Emma A. Meagher, M.D.**

Associate Professor, Medicine and Pharmacology  
 University of Pennsylvania

**Nancy J. Brown, M.D.**

Associate Dean for Clinical and Translational Scientist Development  
 Vanderbilt University School of Medicine

The advent of the NIH Clinical and Translational Science Awards (CTSAs) is transforming many aspects of how clinical and translational research is supported, organized and conducted. Training in clinical and translational research is a critical objective of CTSAs. This session will involve presentations by a panel of CTSA leaders with a focus on the impact of the CTSA initiative on various training programs, including PhD training, combined degree (e.g. MD-PhD) training and post-doctoral training. There will be a short period for questions after each talk, but more discussion time will be available in the after-dinner Q & A session with the same panelists.

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## Friday, October 3 (continued)

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6:00 – 6:30 pm      **Reception**      **Princessa Foyer**  
**Joint Reception with Postdoctorate Leaders and MD-PhD Sections**

6:30 – 8:30 pm      **Dinner and Panel Discussion**      **Princessa Ballroom**  
**Joint Dinner with Postdoctorate Leaders and MD-PhD Sections**

Moderator:

**Clifford V. Harding, M.D., Ph.D.**

Program Director, Medical Scientist Training Program  
Case Western Reserve University School of Medicine

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**Saturday, October 4**


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7:00 am – 4:00 pm      Registration/Information      **Lobby Alcove**

7:00 – 8:00 am      Continental Breakfast      **Princessa Ballroom**

7:00 – 8:00 am      **New Members Breakfast**

8:00 – 10:30 am      **General Session**      **Leonessa Ballroom**  
**Joint Session with Postdoctorate Leaders and MD-PhD Sections**  
**Forces Driving Changes in Science and Research Education at**  
**Academic Medical Centers**

Moderator:

**Nancy B. Schwartz, Ph.D.**

Dean for Graduate and Postdoctoral Affairs

University of Chicago, The Pritzker School of Medicine

Speakers:

**Kevin Shannon, M.D.**

Director, Medical Scientist Training Program

University of California, San Francisco

**Michael J. Friedlander, Ph.D.**

Professor and Chair, Department of Neuroscience

Director of Neuroscience Initiatives

Baylor College of Medicine

**Peter V. Scoles, M.D.**

Senior Vice President, Assessment Programs

National Board of Medical Examiners

**Walter T. Schaffer, Ph.D.**

Senior Advisor for Extramural Research

National Institutes of Health

Numerous forces are driving changes in the traditional role of basic science and research education in the evolving academic medical center. This session will explore inter-institutional dynamics between medical school curricular reform and the role of basic scientists and basic science departments. As well, external influences brought on by accrediting and federal funding agencies are amplifying challenges in the research education-focused arena.

10:30 – 11:00 am      Break

**Leonessa Foyer**

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**Saturday, October 4 (continued)**


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11:00 am – 12:30 pm **GREAT Group Business Meeting** **Eliza Anderson Amphitheater**

Presiding:

**Allan Yates, M.D., Ph.D.**  
 Director, MD-PhD Program  
 Ohio State University Medical Center  
 GREAT Group Chair

12:30 – 2:00 pm **Breakout Lunches** (The lunches are on the 6<sup>th</sup> and 7<sup>th</sup> floors of the hotel)

Driving Diversity in Academic Medical Centers  
 (Group A—Menzies (6<sup>th</sup>); Group E—Blewett (7<sup>th</sup>))

Data Collection and Interpretation: Needs and Challenges  
 (Group B—Tolmie (6<sup>th</sup>); Group F—Washington (7<sup>th</sup>))

Translational and Clinical Research Training in CTSA's:  
 What is working and what is not working  
 (Group C—Sealth (6<sup>th</sup>); Group G—Sherman (7<sup>th</sup>))

Forces Driving Changes in Science and Research Education  
 at Academic Medical Centers  
 (Group D—Stevens (7<sup>th</sup>); Group H—Douglas (6<sup>th</sup>))

2:00 – 2:30 pm **Breakout Session Leaders and Recorders Meeting** **Cayuse**  
 (by invitation only)

2:00 – 2:30 pm Break

2:30 – 4:00 pm **General Session** **Eliza Anderson Amphitheater**  
**Training Research Teams**

Moderator:

**Perry V. Halushka, M.D., Ph.D.**  
 Dean, College of Graduate Studies  
 Medical University of South Carolina

Speakers:

**Leroy Hood, M.D., Ph.D.**  
 President  
 Institute for Systems Biology

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**Saturday, October 4 (continued)**


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**Perry B. Molinoff, M.D.**

Professor of Pharmacology  
University of Pennsylvania School of Medicine

**Five Minute Talks**

*Team Science with PhD Students in an Academic Setting*

**John L. Bixby, Ph.D.**

Associate Dean for Graduate Studies  
Vance P. Lemmon, Walter G. Ross Professor  
University of Miami Leonard M. Miller School of Medicine

*Training the Next Generation of Translational Research Teams: UC Davis Model*

**Ann C. Bonham, Ph.D.**

Executive Associate Dean, Academic Affairs  
Professor, Pharmacology and Internal Medicine  
University of California, Davis, School of Medicine

*Formalized Co-Mentoring During Research Training: Impacts on Development of Professional Skills Essential to Research Teams*

**Richard McGee, Ph.D.**

Associate Dean for Faculty Recruitment and Professional Development  
Northwestern University, Feinberg School of Medicine

Given the ever-increasing interdisciplinary nature of research, it has become clearly evident that to maximize the success of research programs a team approach has the potential to bring about optimal results. Both the academic and industrial environments have research teams; however, their focus, goals, and objectives are often different. Speakers in this session will address the assembly, management, goals, and objectives of academic based and industry based research teams. In addition, the speakers will contrast the goals and objectives of academic versus industry based research teams.

4:00 pm

**GREAT Group Steering Committee Meeting  
(by invitation only)**

**Blewett**

Evening Free/Dinner on your own

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**Sunday, October 5**


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7:00 – 11:00 am      Registration/Information      **Lobby Alcove**

7:00 – 8:00 am      Breakfast      **Princessa Ballroom**

8:00 – 9:00 am      **Report Back Session**      **Eliza Anderson Amphitheater**

Moderator:

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

Director, MD-PhD Program

Ohio State University Medical Center

GREAT Group Chair

9:00 – 10:30 am      **John Perkins Policy Session**      **Eliza Anderson Amphitheater**  
**The Future of Biomedical Science Funding Over the Next Four Years**

Moderator:

**Henry Wortis, M.D.**

Professor of Pathology

Tufts University School of Medicine

Speakers:

**Thomas O. Daniel, M.D.**

President, Celgene Research

Celgene Corporation

**David Korn, M.D.**

Chief Scientific Officer

Association of American Medical Colleges

During the last few years medical schools have reduced their hiring of new basic science faculty members. At the same time the median age of faculty members has risen steadily. Over the same period NIH has received level funding and the average age of first time R01 recipients has risen. Thus, there is good reason to believe that the funding climate is reshaping many medical schools. This session will explore the evidence that the funding climate may have long-term consequences for medical school research and training and have a long term impact on the biotech and pharmacology industry. In addition, there will be a discussion of tactics and strategies that might help medical schools cope with the present funding environment.

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**Sunday, October 5 (continued)**

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10:30 – 11:00 am	<b>Closing Remarks</b>	<b>Eliza Anderson Amphitheater</b>
11:00 am	Meeting Adjourns	

## Group on Graduate Research, Education, and Training (GREAT) Steering Committee

### **C. Gita Bosch, Ph.D., M.B.A.**

Associate Dean, Gerstner Sloan-Kettering Graduate School  
Associate Director, Graduate Studies, Sloan-Kettering Institute  
Memorial Sloan-Kettering Cancer Center

### **Roger Chalkley, Ph.D., D.Phil., M.A.**

Senior Associate Dean for Biomedicine Research, Education, and Training  
Vanderbilt University School of Medicine

### **Philip S. Clifford, Ph.D.**

Associate Dean, Postdoctoral Education  
Medical College of Wisconsin

### **Perry V. Halushka, M.D., Ph.D.**

Dean, Graduate Studies  
Medical University of South Carolina College of Medicine

### **Susan R. Ross, Ph.D.**

Director, Biomedical Graduate Studies  
University of Pennsylvania School of Medicine

### **Nancy B. Schwartz, Ph.D. – Past Chair**

Dean for Graduate and Postdoctoral Affairs  
Professor, Director of the Kennedy Center  
University of Chicago, The Pritzker School of Medicine

### **Nancy E. Street, Ph.D.**

Associate Dean, Southwestern Graduate School of Biomedical Sciences  
University of Texas Southwestern Medical Center

### **Henry H. Wortis, M.D. – Chair-Elect**

Professor of Pathology  
Tufts University School of Medicine

### **Allan Yates, M.D., Ph.D. – Chair**

Director, MD-PhD Program  
Ohio State University College of Medicine

### **Thomas Yorio, Ph.D.**

Executive Vice President for Academic Affairs & Research  
University of North Texas – Health Sciences Center

### *MD-PhD Section Officers*

#### **Skip Brass, M.D., Ph.D. – Past Chair**

Associate Dean, Combined Degrees  
University of Pennsylvania School of Medicine

#### **David M. Engman, M.D., Ph.D. – Chair**

Director, Medical Scientist Training Program  
Northwestern University, Feinberg School of Medicine

#### **Clayton Alexander Wiley, M.D., D.Phil. – Chair Elect**

Associate Dean, Director of Medical Scientist Training Program and Professor of Pathology  
University of Pittsburgh

### *Postdoc Section Officers*

#### **Philip S. Clifford, Ph.D. – Chair**

Associate Dean for Postdoctoral Education  
Medical College of Wisconsin

#### **Joan M. Lakoski, Ph.D. – Chair-Elect**

Associate Vice Chancellor for Academic Career Development  
Associate Dean for Postdoctoral Education  
University of Pittsburgh School of Medicine

#### **John H. Russell, Ph.D. – Past-Chair**

Associate Dean for Graduate Education  
Washington University in St. Louis School of Medicine

## **Group on Graduate Research, Education, and Training (GREAT) Steering Committee (continued)**

### ***COD Liaison***

**E. Albert Reece, M.D., Ph.D., M.B.A.**  
President and Dean  
University of Maryland School of Medicine

### ***Ex Officio***

**Charlotte V. Kuh, Ph.D.**  
Deputy Executive Director  
the National Academies

### ***CAS Liaison***

**Michael J. Friedlander, Ph.D.**  
Professor and Chair, Department of Neuroscience  
Director of Neuroscience Initiatives  
Baylor College of Medicine

### ***Executive Secretary***

**Jodi B. Lubetsky, Ph.D.**  
Manager, Science Policy  
Biomedical & Health Sciences Research  
Association of American Medical Colleges

## Group on Graduate Research, Education, and Training (GREAT) Program Committee

**Roger Chalkley, D.Phil.**

Senior Associate Dean for Biomedicine  
Research, Education & Training  
Vanderbilt University School of Medicine

**David M. Engman, M.D., Ph.D.**

Director  
Medical Scientist Training Program  
Northwestern University  
Feinberg School of Medicine

**Clifford Harding, M.D., Ph.D.**

Professor of Pathology  
Case Western Reserve University  
School of Medicine

**Perry V. Halushka, M.D., Ph.D.**

Dean, Graduate Studies  
Medical University of South Carolina  
College of Medicine

**Joel D. Oppenheim, Ph.D.**

Senior Associate Dean for Biomedical Sciences  
New York University Medical Center

**Nancy B. Schwartz, Ph.D.**

Dean for Graduate and Postdoctoral Affairs  
Professor, Director of the Kennedy Center  
University of Chicago  
The Pritzker School of Medicine

**Nancy L. Thompson, Ph.D.**

Association Dean for Graduate and Postdoctoral  
Studies  
The Warren Alpert Medical School of Brown  
University

**Henry H. Wortis, M.D.**

Professor of Pathology  
Tufts University School of Medicine

**Allan Yates, M.D., Ph.D. – Chair**

Director, MD-PhD Program  
Ohio State University College of Medicine

## Future Meetings

### 2008

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**2008 AAMC Annual Meeting**

October 31-November 5

San Antonio, Texas

### 2009

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**MD-PhD Section Annual Meeting**

July 23-25

Keystone, Col.

**Postdoctorate Leaders Section Annual Meeting**

October 15-17

St. Louis, Mo.

**GREAT Group Annual Meeting**

October 16-18

St. Louis, Mo.

**2009 AAMC Annual Meeting**

November 6-11

Boston, Mass.