UMBC

AN HONORS UNIVERSITY IN MARYLAND

The Meyerhoff Scholars Program

Pursuing Academic Excellence, Scientific Research, and the Advancement of Underrepresented Students of Color in the Science, Technology, Engineering, and Mathematics (STEM) fields.

The Meyerhoff History

- Founder: Dr. Freeman Hrabowski (UMBC president, 1992-2022)
- Initial Funder: local philanthropist Joseph Meyerhoff
- Initial Focus: African American Males
- Current Focus: All high-achieving high school seniors committed to STEM doctoral study (PhD or MD/PhD) and interested in the advancement of underrepresented groups in STEM

Selected Program Accomplishments

- 450 MSP alumni have received STEM PhDs
- Over 70 MSP alumni hold faculty positions
- 70% of the 249 current students are from underrepresented racial & ethnic groups
- MSP widely recognized as a national model of a highly successful STEM intervention program

Longitudinal Program Evaluation (1989-2022)

Selected Findings

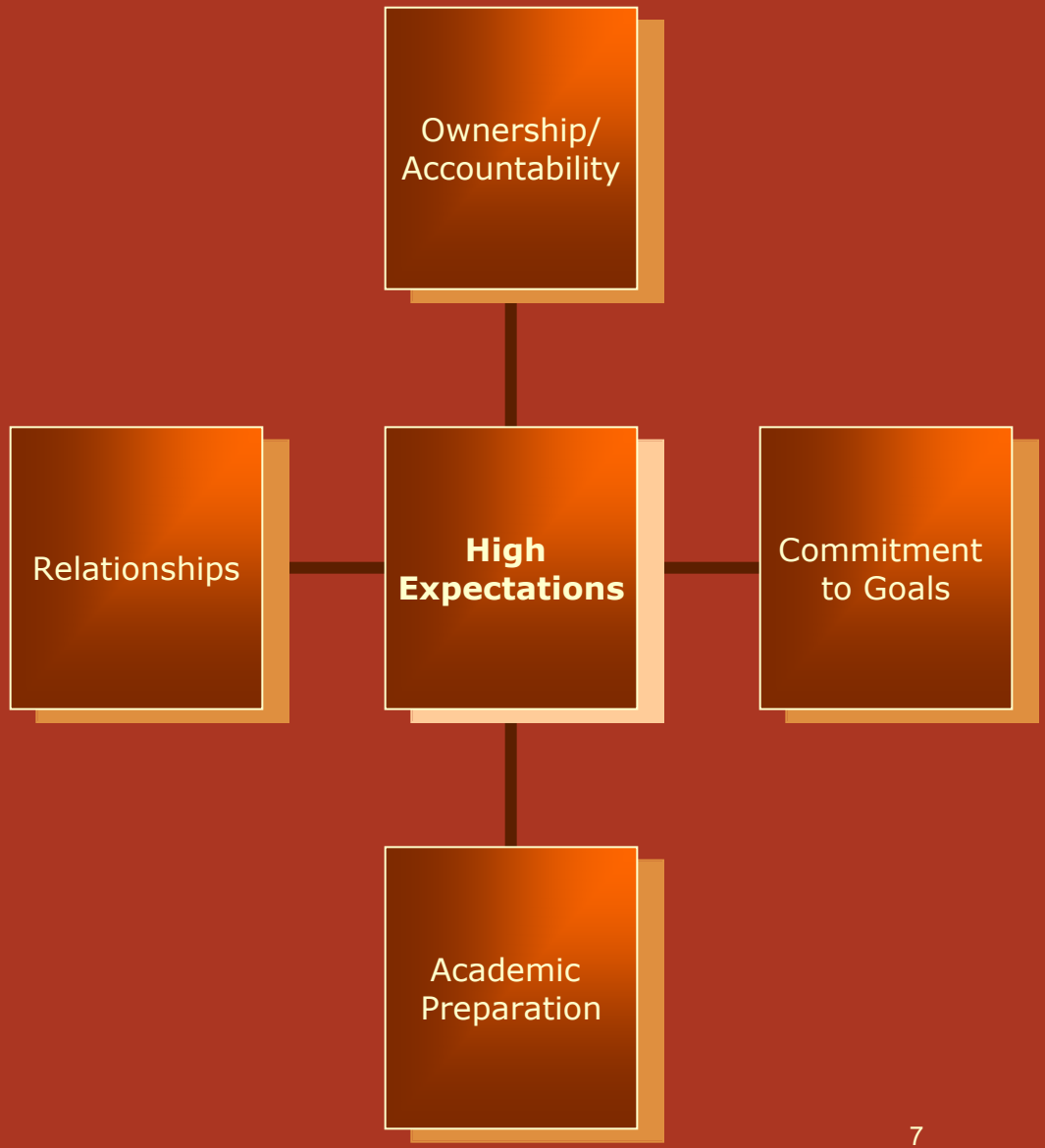
- **MSP students 5.3 times more likely to attend a STEM PhD program than comparison students**
- **MSP students 4.8 times more likely to complete STEM PhD than comparison students**
- **Comparison students: all students accepted into MSP who declined offer and pursued STEM majors at other universities**

Major Program Components

- Summer Bridge Program
- Mentoring
- Research Experience
- Academic/Career Advising
- Cultural Enrichment
- Scientific Conferences
- Graduate and Professional School Placement
- Community Service
- Professional Development
- Staff Support

Program Foundation

- Academic Preparation
- Supportive Relationships
- Commitment to Goals
- Ownership and Accountability



Academic Preparation

Academics

- Collegiate Environment
- Study Skills Evaluation and Modification
- Academic Plans

Academic/Career Advising

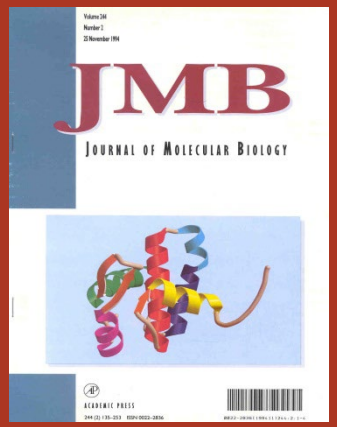
- Academic Advisor
  - Department
  - STEM Faculty
  - Peer
- Career Advising
  - Graduate School Counseling
  - Professional Development
  - Program visits
  - Site Visits and Professional Talks
  - Mentoring

Research Opportunities

Research

- Early Exposure
- Laboratory Tours
- Site Visits
- Professional Talks
- Scientific Presentations
- Sustained Research
- Publications

Research Experience



Chiana Paschall (M4)
1994

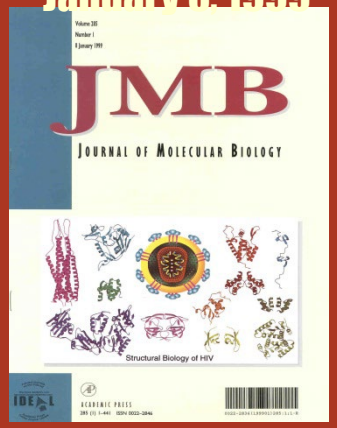
Volume 244, Number 2

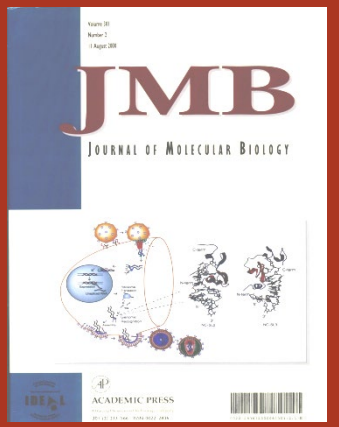
November 25, 1994

Brian Turner (M7)
1999

Volume 285, Number 1

January 8, 1999





Ryan Turner (M7)
2000

Volume 301, Number 2

August 11, 2000

Since 1992, over 200 Meyerhoff Scholars have been published including 3 on the covers of the Journal of Molecular Biology.

Building Relationships

Peer Relationships

- Connection to Counselor
- Connection to Current Students/Alumni
- Connection within Cohort
  - Team Building
  - Diversity Training
  - Group Responsibility

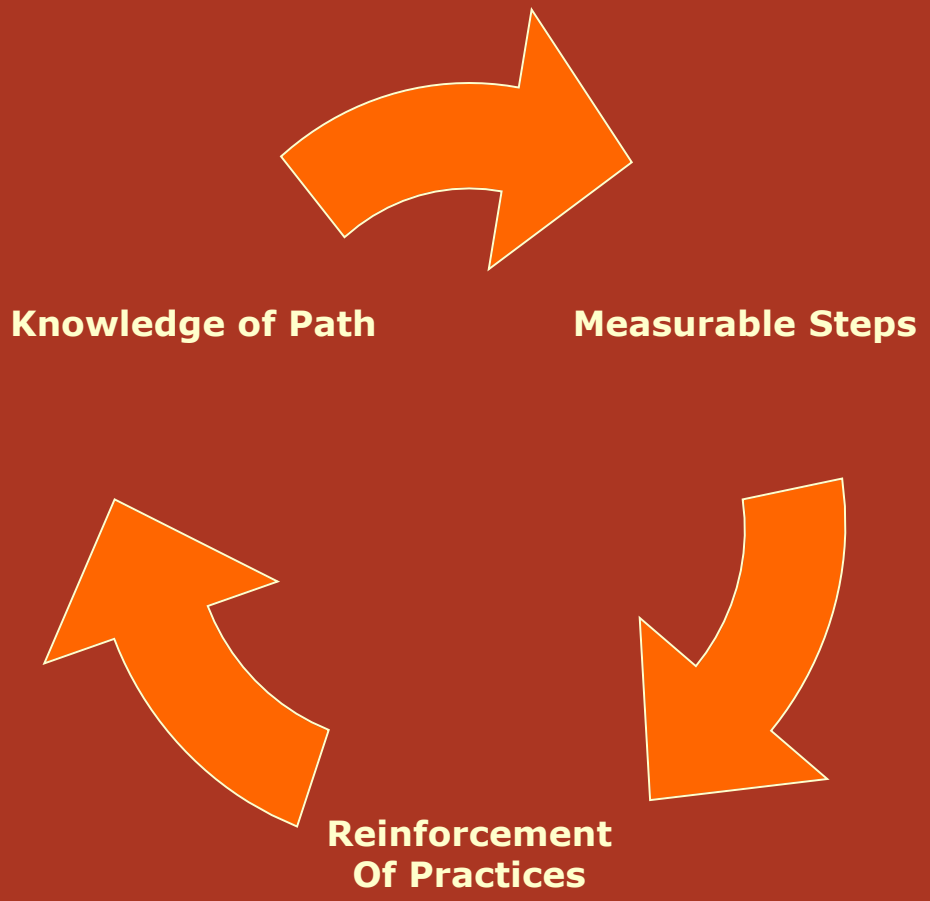
Building Relationships

Program Relationships

- **Connection to Program Staff**
  - Daily Interaction
  - Early Advising
- **Connection to Campus Community**
  - Vested Instructors
  - Demystifying “Professor”
  - Administrative Introductions

Commitment to Goals

- **Knowledge of Path**
  - Academic Rigors
  - Re-evaluate and Modify Existing Practices
- **Measurable Steps Toward Goals**
- **Reinforcement of Practices**



Cultivating Ownership and Accountability

Developing a Renewed Perspective

- Fostering a Legacy
- Interdependence
- Program Promotion
- Connection to Community

The Meyerhoff Scholar

- Exhibits intellectual curiosity
- Committed to science and research
- Comfortable discussing issues of diversity
- Believes that excellence demands sacrifice
- Possesses high standards and expectations
- Has no fear of failure nor success
- Encourages others consistently
- Able and desires to work well with others
- Values service
- Functions well in both leadership and supporting roles

Meyerhoff Scholars will…

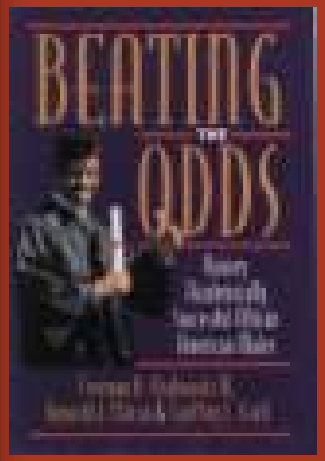
- Grow together
- Learn together
- Discover together
- Serve together
- SUCCEED TOGETHER!!!!

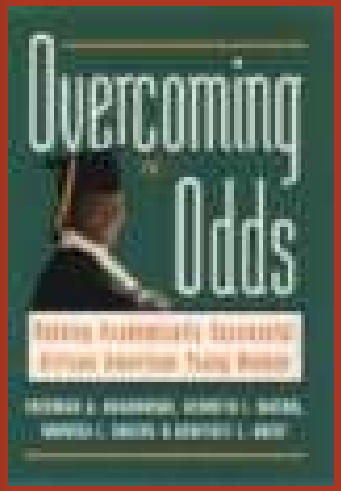
Graduate School Placements (Ph.D. Programs)

Univ. of Notre Dame
Harvard
Cornell
Rice
Berkeley
Univ. of Pennsylvania
UMBC
Univ. of Massachusetts
Stanford
Columbia University
UCLA
Maryland
MIT
Oxford University
University of Virginia
University of Delaware

University of Penn.
Yale
Duke
NC State
UNC Chapel Hill
Carnegie Mellon
Purdue
Northwestern
Michigan
Rice
Arizona State
Georgia Tech
University of Florida
Johns Hopkins
SUNY-Stony Brook
University of Washington

National Recognition





The New York Times
USA Today,
Diversity Digest
Focus, Spring 2004
Journal of Higher Education
US News and World Report
Washington Post
Baltimore Sun
The College Track (Get In, Stay In) (PBS)
Maryland Tonight (Maryland Public Television)
National Academy of Sciences
Baltimore Magazine
National Public Radio
Harvard Medical Community Magazine
Pathways to College Digest
National Institute of Medical Sciences Black Issues of Higher Education
The Today Show on NBC

Selected Program Evaluation Publications

- Maton, K.I., Beason, T.S., Godsay, S., Sto. Domingo, M.R., Bailey, T.C., Shun, S., & Hrabowski III, F.A. (2016). Outcomes and processes in the Meyerhoff Scholars Program: STEM PhD completion, sense of community, perceived program benefit, and research self-efficacy. *CBE-Life Sciences Education*, 15 (3), pii: ar48, doi: 10.1187/cbe.16-01-0062..

- Maton, K.I., & Hrabowski, F.A. III. (2004). Increasing the number of African American Ph.D.s in the sciences and engineering: A strengths-based approach. *American Psychologist*, *59*, 547-556.

- Maton, K.I. Pollard, S.A., Weise, T.V.M., & Hrabowski, F.A. III. (2012). Th Meyerhoff Scholars Program: A strengths-based, institution-wide approach to increasing diversiy in STEM.. *Mt. Sinai Journal of Medicine*, *79*, 610-623. NIHMSID: NIHMS394552

- Sto. Domingo, M.R., Sharp., S., Freeman, A., Freeman Jr., T., Harmon, K., et al. (2019). Replicating Meyerhoff for inclusive excellence in STEM. *Science, 364* (6438), 335-337. DOI: 10.1126/science.aar5540