About HHMI EXROP at Harvard Medical School

The HHMI EXROP at Harvard Medical School provides outstanding summer research experiences in HHMI Scientists’ laboratories to exceptional undergraduate students from groups underrepresented in the sciences. In addition to doing research in both the Harvard Medical School and Harvard College campuses, students are provided with opportunities to participate in enriched programmatic and networking activities. The program is offered through the Harvard Medical School Office for Diversity Inclusion and Community Partnership.

Sponsor: At the Howard Hughes Medical Institute (HHMI), we believe in the power of individuals to advance science through research and science education, making discoveries that benefit humanity. Learn more about how we move science forward.

For more information, visit: http://www.hhmi.org/

Office for Diversity Inclusion and Community Partnership

The Office for Diversity Inclusion and Community Partnership (DICP) was established in 2002 (originally named Faculty Development and Diversity, est. 1995) to promote the increased recruitment, retention and advancement of diverse faculty, particularly individuals from groups underrepresented in medicine (URM) at Harvard Medical School (HMS) and to oversee all diversity activities involving HMS faculty, trainees, students and staff. This is achieved through efforts that support the career development of junior faculty and fellows, including: training leaders in academic medicine and health policy; providing programs that address crucial pipeline issues, and sponsoring awards and recognitions that reinforce behaviors and practices that are supportive of diversity, inclusion, mentoring, and faculty development.

DICP’s Minority Faculty Development Program (MFDP), established in 1990, sponsors programs for the development of HMS faculty, with an emphasis on mentoring and leadership, as well as programs that are designed to reach out to the pre-college and college populations with the goal of bringing outstanding students, particularly URM students, into the pipeline. Under the aegis of MFDP, there are several programs that are designed to nurture and encourage talented students interested in careers in medicine and/or the biomedical sciences.

For more information on DICP visit: https://mfdp.med.harvard.edu/

A special thank you is extended to all of the participating Harvard and Harvard Medical School HHMI EXROP mentors and speakers.
#1: “Chasing HIV’s Active RNA Frameshifting Structure”
David Anderson, Kenyon College
HHMI PI: Victoria D’Souza, PhD
Department of Molecular and Cellular Biology, Harvard University

#2: “Elucidating the Role of the BolA Family Homolog Protein, IbaG, in Vibrio Cholerae Morphogenesis, Viability, and Colonization”
Timmie Britton, University of Minnesota-Twin Cities
HHMI PI: Matthew Waldor, MD, PhD
Department of Medicine, Brigham and Women’s Hospital

#3: “Development of a Metabolically-Targeted Viral Gene Therapy for Retinitis Pigmentosa”
Joseph Bugliarelli, University of California-Los Angeles
HHMI PI: Connie Cepko, PhD
Department of Genetics, Harvard Medical School

#4: “Microglia: Signaling Pathways to Injury”
Rochinelle Dongmo, Emory University
HHMI PI: Bernardo Sabatini, PhD, MD
Department of Neurobiology, Harvard Medical School

#5: “Characterizing Human Conserved D. Melanogaster smORF Genes by Identifying Distinct Mutant Phenotypes”
Uriel Gomez, University of Northern Colorado
HHMI PI: Norbert Perrimon, PhD
Department of Genetics, Harvard Medical School

#6: “Effects of Fluid Preservation on Morphological Measurements in Museum Specimens”
Jesús Lopez, Florida International University
HHMI PI: Hopi Hoekstra, PhD
Department of Molecular and Cellular Biology, Harvard University

#7: “Artificial Opening of the Blood Brain Barrier Using Functional Blocking Antibodies”
Ricardo Lozoya, Rice University
HHMI PI: Chenghua Gu, PhD, Department of Neurobiology, Harvard Medical School

#8: “Transcriptional Dynamics of the Bcl Imprinted Gene Cluster Within the Mouse Cortex”
Matthew Mitchell, University of Colorado
HHMI PI: Catherine Dulac, PhD
Department of Molecular and Cellular Biology, Harvard University

#9: “Characterizing Azoreductases in the Intestinal Microbiota”
Alejandro Quinones, University of California-Riverside
HHMI PI: Emily Balskus, PhD
Department of Chemistry and Chemical Biology, Harvard University

#10: “Generation and Characterization of mESC-Derived Oculomotor Neuron Models of Congenital Cranial Dysinnervation Disorders”
Cristina Rivera Quiles, University of Puerto Rico—Cayey
HHMI PI: Elizabeth Engle, MD
Department of Neurology, Boston Children’s Hospital

#11: “Identifying the Enzymes Mediating Lipid Peroxidation in the Ferroptosis Pathway”
Gerardo Sandolval-Gomez, University of California-San Diego
HHMI PI: Stuart Schreiber, PhD
Department of Chemistry and Chemical Biology, Harvard University, Broad Institute

#12: “Role of VP4 in Rotavirus Entry”
Raúl Torres, Florida International University
HHMI PI: Stephen C. Harrison, PhD
Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School

Presentation of Certificates and Reception