HARVARD-AMGEN SCHOLARS ABSTRACTS

What Kind of Projects have Amgen Scholars Completed in the Past?
Jaquesta Adams  
Howard University  
*Biochemical Functionalization of Neuron-Like Electronics*  
Lab Host, **Charles M. Lieber**, Department of Chemistry and Chemical Biology

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Nahid Anna Baghdadi (Savan)  
Michigan State University  
*X-Ray for Radiation-Induced Photodynamic Therapy in Treatment of Head and Neck Cancer*  
Lab Host, **Tayyaba Hasan**, Wellman Center for Photomedicine, Massachusetts General Hospital

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Gianluca Bencomo  
Whittier College  
*Perceptual Decision Making: More than Meets the Eye*  
Lab Host, **Richard T. Born**, Department of Neurobiology, Harvard Medical School
Andrew Castillo
Harvard College
*Investigating ALS-associated TDP-43 and its regulation of STMN2*
Lab Host, **Kevin Eggan**, Department of Stem Cell and Regenerative Biology, Department of Molecular and Cellular Biology, Harvard Stem Cell Institute, Stanley Center for Psychiatric Research

Martha Castro
Pomona College
*Knockout of ARX to Increase Efficiency of Beta Cell Differentiation*
Lab Host, **Douglas A. Melton**, Department of Stem Cell and Regenerative Biology, Harvard Stem Cell Institute

Sebastian Gonzalez La Corte
University of California Santa Barbara
*Positioning of the Meiotic Spindle: Cytoplasmic Flow*
Lab Host, **Daniel Needleman**, Department of Molecular and Cellular Biology
Leah Harmon
University of Notre Dame
Using Novel Mouse Models to Study the Role of Epigenetics in Brain Aging
Lab Host, David Sinclair, Department of Genetics, Harvard Medical School

Jacob Florian
University of Michigan
2D Catalytic Films for In-Operando Characterization
Lab Host, Cynthia Friend, Department of Chemistry and Chemical Biology

Kerry Larkin
College of the Holy Cross
The Effects of Doxorubicin on the Immune Response to Cancer
Lab Host, David J. Mooney, John A. Paulson School of Engineering and Applied Sciences, Wyss Institute for Biologically Inspired Engineering
Thomas Porter
Ohio State University
*Engineering Plasmid Vectors for Protein Surface Display in the Probiotic E.coli Nissle*
Lab Host, Neel Joshi, Wyss Institute for Biologically Inspired Engineering, John A. Paulson School of Engineering and Applied Sciences

Sanjana Rane
Harvard College
*Optimization of Adult Mouse Kidney Dissociation for Single Cell and Single Nuclei Isolation*
Lab Host, M. Todd Valerius, Division of Renal Medicine, Brigham and Women’s Hospital

Kunal Shroff
Duke University
*Identification of NPR1 as a Mitral Cell-Specific Genetic*
Venkatesh Murthy, Department of Molecular and Cellular Biology
Marva Tariq
Smith College
Exploring the Biocatalytic Potential of CreM and Discovering Novel N–N Bond-Containing Natural Products
Lab Host, Emily P. Balskus, Department of Chemistry and Chemical Biology

Cathy Wang
Harvard College
Tuning Alginate Oxidation for Controlled Hydrogel Degradation and Delivery of Tendon-derived Cells
Lab Host, David J. Mooney, John A. Paulson School of Engineering and Applied Science, Wyss Institute for Biologically Inspired Engineering

Marcus Williams
Fort Lewis College
Towards Vascularizing 3D Bioprinted Melanoma-on-Chip Cancer Models for Immuno-Oncology
Lab Host, Jennifer A. Lewis, John A. Paulson School of Engineering and Applied Science
Clara Young
Iowa State University

Validating Novel Gene-drug Synergies in Mycobacterium Tuberculosis

Lab Host, Eric Rubin, Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health