



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

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

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

