NYU BIOLOGY SEMINAR SCREENINGS

Hunting the First Dog
Greger Larson, University of Oxford | June 17, 2025

One size fits all? Development & Evolution of Petal Patterning in Hibiscus Flowers
Edwige Moyroud, University of Cambridge | June 10, 2025

A Proper Study for Mankind: Understanding Social Behavior and Evolution through the Lens of other Primates
Jenny Tung, Duke University | June 3, 2025

Structure-based Insights into the Regulation of Heme Biosynthesis
Breann Brown, Vanderbilt University | May 27, 2025

Epigenetics and Epitranscriptomics in Multicellularity and Inheritance
Eric Greer, Washington University | May 20, 2025

Physiology Evolved Convergently but Lags Behind Warming in Cities
Sarah Diamond, Case Western Reserve University | January 21, 2025

Reconstitution of Human Organogenesis on Microchips
Edwin Rosado-Olivieri, New York University | January 14, 2025

Global Diversity, Recurrent Evolution, and Recent Selection on Amylase Structural Haplotypes in Humans
Peter Sudmant, University of California, Berkeley | January 7, 2025

Nature of Societies: The Origins of Major Evolutionary Transitions
Corina Tarnita, Princeton University | December 17, 2024

Learning about Mammalian Chromosomes and Building New Ones
Ben Black, University of Pennsylvania | December 10, 2024

The Mechanics of Microbial Morphogenesis
Enrique Rojas, New York University | November 26, 2024

Wtf Evolution
Sarah Zanders, Stowers Institute for Medical Research | November 19, 2024

Probing the Causes and Consequences of Nongenetic Variation
Lamia Wahba, The Rockefeller University | November 12, 2024

(Re-)writing the Human Genome to understand Genome Function
Neville Sanjana, New York University | November 5, 2024

The Ups and Downs of Protein Expression Regulation in Health and Disease
Christine Vogel, New York University | October 29, 2024

Unlocking New Biological Insights with Comprehensive Regulatory Element Mapping
Carol Huang, New York University | October 22, 2024

How the Location of Protein Synthesis Controls Protein Function
Christine Mayr, Memorial Sloan Kettering Cancer Center | October 15, 2024

The Genomic Basis of Interspecific Reproductive Incompatibilities in Drosophila
Yasir Ahmed-Braimah, Syracuse University | October 8, 2024

Polarity-mediated Feedback Mechanisms Pattern the Leaf Surface
Andrew Muroyama, University of California, San Diego | October 1, 2024

The Actual and the Possible in Protein Evolution
Joe Thornton, University of Chicago | September 24, 2024

Evolutionary Ecology of Stickleback Microbiota
Diana Rennison, University of California, San Diego | September 17, 2024

Achieving Singularity in Olfactory Receptor Choice
Stavros Lomvardas, Columbia University | June 18, 2024

A Journey into Genomes of Organisms Adapted to Extreme Environments
Joanna Kelley, Washington State University | June 11, 2024

Interspecies Interactions affect Bacterial Motility and Lifestyle
Anupama Khare, Laboratory of Molecular Biology National Cancer Institute (NCI), NIH | May 28, 2024

Systematic Differences between GWAS hits and eQTLs
Hakhamanesh Mostafavi, NYU Grossman School of Medicine | May 14, 2024

Sequencing "Endless Forms, Most Beautiful and Most Wonderful": The Earth Biogenome Project
Mark Blaxter, Wellcome Sanger Institute | March 5, 2024

A Chemical Strategy for Adaptation to Ecological Niches
Sibongile Mafu, University of Massachusetts Amherst | February 20, 2024

Understanding RNA Polymerase III identity as a Disease Factor in Cancer
Kevin Van Bortle, University of Illinois | February 6, 2024

Dynamic Integration of Signaling, Force Generation and Tissue Remodeling during Neural Tube Closure
Ed Munro, University of Chicago | December 12, 2023

Exploring Genotype-phenotype Relationships using Chromosome Synthesis
Ian Ehrenreich, University of Southern California | December 5, 2023

Junk that Shapes Germline Immortality and Evolution
Yukiko Yamashita, Whitehead Institute/MIT/HHMI | November 28, 2023

Retracing the evolutionary steps towards symbiosis
Joe Parker, California Institute of Technology | November 21, 2023

rRNA Genes: The Elephant in the Genome
Andreas Hochwagen, New York University | November 14, 2023

How to Build a Tumor: From Lists, to Maps to Cellular Geography
Carlos Carmona-Fontaine, New York University | November 7, 2023

Controlling Cell Differentiation to Generate Clinically Relevant Cell Types
Esteban Mazzoni, New York University | October 31, 2023

Determinants of Genome Organization
Gamze Gursoy, Columbia University | October 17, 2023

Regulation and evolution of developmental plasticity
Sofia Casasa, Boston University | June 20, 2023

Clinal paradigms and paradoxes in evolutionary biology
Katie Lotterhos, Northwestern University | June 13, 2023

Regulated condensation of an RNA-binding protein gives rise to function
Luke Berchowitz, Columbia University | June 6, 2023

Molecular proteostasis mechanisms in the secretory and endocytic pathways
Richa Sardana, Cornell University | May 30, 2023

Spatial organization in the bacterial cytoplasm as an adaptation mechanism
Saumya Saurabh, New York University | May 23, 2023

The Darwin Beat: Reporting on evolution in the age of pandemics
Carl Zimmer, Yale University | May 16, 2023

The rich inner life of the cell nucleus: dynamics, flows, and rheology
Alexandra Zidovska ,New York University | May 9, 2023

Life in a Crowded Environment: Effects of Cytoplasmic Density on Microtubule Dynamics and Nuclear Size
Fred Chang, University of California San Francisco | January 24, 2023

Skin-brain Circuits for Pain and Touch Behaviors
Ishmail Abdus-Saboor, Columbia University | January 17, 2023

The Genomics of Climate Adaptation (and Extinction)
Moi Exposito-Alonso, Stanford University | January 10, 2023

Patterning and Regeneration in Plants: Insights from Single-cell Omics
Ken Birnbaum, New York University | December 6, 2022

Regulation and Function of 3D Genome Organization in *C. elegans*
Sevinc Ercan, New York University | November 29, 2022

Expanding our View of Genome Activation Through Genomics and Imaging Approaches
Antonio Giraldez, Yale University | November 22, 2022

Active Phases and Phase Transitions in Bacterial Populations
Joshua Shaevitz, Princeton University | November 15, 2022

Directed Endosymbiosis for Evolutionary Studies and Synthetic Biology
Angad Mehta, University of Illinois Urbana-Champaign | November 8, 2022

Host Immune Diversity as a Driver of Pathogen Evolution
Talia Karasov, University of Utah | June 28, 2022

Using Genomics Technology to Predict Gene Regulation from DNA Sequence
Julia Zeitlinger, Stowers Institute for Medical Research | June 21, 2022

Testing Paradigms: SRP Pathway Function in RNA Traffic to the ER
Christopher Nicchitta, Duke University | June 14, 2022

High-throughput Functional Genomics to Understand Human Biology and Disease
Neville Sanjana, New York University | June 7, 2022

The Ribosome: Older than Dirt
Loren Williams, Georgia Institute of Technology | May 31, 2022

How do Bacteria Interact with the World?
Zemer Gitai, Princeton University | May 24, 2022

If Darwin were a Microbiologist: Evolution-based Solutions to Antibiotic Resistance
Margaret Riley, The University of Massachusetts Amherst | May 17, 2022

Genetic Conflict Shapes Meiosis, Centromeres and Species
Harmit Malik, Fred Hutchinson Research Center | March 1, 2020

Metabolic Coordination of Cell Fate Decisions
Lydia Finley, Sloan Kettering Institute | February 9, 2020

The Remote Control of Gene Expression
Wendy Bickmore, University of Edinburgh | February 2, 2020

Harnessing Metabolomics to Subvert Malaria Parasites
Manuel Llinàs, Pennsylvania State | January 26, 2020

DNA Loop Structures Important For Gene Expression and Stem Cell Identity
Jill Dowen, UNC Chapel Hill | January 19, 2020

Integrated Analysis of Single-Cell Data across Technologies, Modalities and Species
Rahul Satija, New York University | January 12, 2020

From Functional Genomics and Development to Chemical Biology
Kristin Gunsalus, New York University | March 10, 2019

When Synthetic Biology Evolves
Jeffery Barrick, University of Texas, Austin | March 3, 2019

Bacterial Growth and Memory in Fluctuating Environments
Edo Kussell, New York University | February 24, 2019

Axon Regeneration in *C. elegans*: A Journey of Many Surprises
Yishi Jin, University of California, San Diego | February 17, 2019

How Language Began 60,000 Generations of Human Language
Daniel Everett, Bentley University | January 27, 2019

Dissecting Organelle Relationships that Drive Aging and Disease
Adam Hughes, University of Utah | January 20, 2019

Learning from the Lagging Strand
Duncan Smith, NYU | January 13, 2019

Folding, Unfolding and Refolding Genome
Job Dekker, Howard Hughes Medical Center | November 13, 2018

How Gut Microbes Enhance Enteric Virus Infection
Julie Pfeiffer, UT Southewestern Medical Center | May 6, 2018

Making a Difference: Flexible Patterning in the Epidermis
Dominique Bergmann, Stanford University | April 29, 2018

Opening a Quantitative Window into the Minds and Communication of Dolphins
Marcelo Magnasco, Rockefeller University | April 22, 2018

The Development of Life-Like Droplets to Study the Fundamental Properties of Living Systems
Martin M. Hanczyc, University of Trento | April 16, 2018

The Landscape of US Postdoc Salaries
Niki Athanasiadou, NYU | April 8, 2018

Mechanical Disassembly and Reassembly of Reproduction in Mammals
Oliver Rando, University of Massachusetts | April 1, 2018

Neural Dynamics and the Structure of Cognition
Andre Fenton, NYU | March 18, 2018

Molecular Mechanisms and Evolution of Language and Vocal Learning
Erich Jarvis-HHMI, Rockefeller University | March 11, 2018

The Meristem Is The Engine Of Plant Growth. How Is It Organized?
Kenneth Birnbaum, New York University | March 4, 2018

Epigenetic Control of Viral Infection
Ivan Marazzi, Icahn School of Medicine at Mount Sinai | February 25, 2018

Why Can't We Get Away With No Sleep?
Dragana Rogulja, Harvard Medical School | February 18, 2018

Questions in Vertebrate Development and Evolution
Clifford Tabin, Harvard Medical School | December 17, 2017

How to Make Microtubules and Build the Mitotic Spindle
Sabine Petry, Princeton University | December 10, 2017

Chromatin Architecture Defines Eukaryotic Start Sites of DNA Replication
David MacAlpine, Duke Medical Center | November 26, 2017

Mechanisms Controlling Variation in Complex Traits
Mark Siegel, NYU | November 12, 2017

Neural Mechanisms for Dynamic Acoustic Communication in Flies
Mala Murthy, Princeton | October 29, 2017

Dynamics and Evolution of Translational Regulation
Premal Shah, Rutgers University | October 22, 2017

Establishment of Chromatin and Transcriptional States during Cell Differentiation
Esteban Mazzoni, NYU | October 15, 2017

The Ups and Downs of Protein Expression Regulation
Christine Vogel, NYU | October 8, 2017

The Genome at the Breaking Point
Andreas Hochwagen, NYU | October 1, 2017

Linking RNA to Human Health and Disease
John Rinn, Broad Institute of MIT and Harvard | September 24, 2017

The Influence of Epigenetics on Aging and Genomic Instability
Jessica Tyler, Cornell Medical College | September 17, 2017

Regulation of Eukaryotic Genome Organization and Function
Sevinc Ercan, NYU | September 10, 2017