



## Genomics and Systems Biology XI

NYU ABU DHABI SAADIYAT CAMPUS

Institute Conference Center, A6

February 22-24, 2023

<https://nyu.zoom.us/j/99462311205>

Talks marked with \* are available in person and on virtual

### Wednesday February 22, 2023

8:15 - 8:45 AM	Registration
8:45 - 9:00 AM	<b>Welcoming Remarks</b>
<b>9:00 AM - 12:30 PM</b>	<b>PANEL I: Climate Change &amp; Biodiversity</b>
	<i>Chair: John Burt, NYUAD</i>
9:00 - 9:30 AM *	Genomic Approaches to Next-Generation Cassava Breeding <i>Augusto Becerra Lopez-Lavalle, International Center for Biosaline Agriculture</i>
9:30 - 10:00 AM *	Rapid Evolutionary Genomic Responses to Biological Invasions and Climate Change <i>Carol Lee, University of Wisconsin</i>
10:00 - 10:30 AM *	Adaptation and Acclimation of Coral Reef Fish as a Response to Climate Change <i>Timothy Ravasi, Okinawa Institute of Science and Technology</i>
<b>10:30 - 10:45 AM</b>	<b>Break &amp; Refreshments</b>
10:45 - 11:15 AM *	Evolutionary Climate Change Adaptation: From Theory to Practice <i>Ary Hoffmann, University of Melbourne</i>
11:15 - 11:45 AM *	A Sea Anemone Cell-Atlas Reveals the Molecular Mechanism Underlying the Darwin Paradox of Coral Reefs <i>Manuel Aranda Lastra, King Abdullah University of Science and Technology</i>
11:45 AM - 12:15 PM	Recombination Landscape Across the Date Palm Genome <i>Tiago Costa Capote, New York University Abu Dhabi</i>
<b>12:15 - 12:30 PM</b>	<b>Flash Talks for Poster Session I</b>
<b>12:30 - 2:30 PM</b>	<b>Lunch (Atrium)</b>
<b>12:30 - 2:30 PM</b>	<b>Poster Session I</b>
<b>2:30 - 5:15 PM</b>	<b>PANEL II: Development, Reprogramming &amp; Regeneration</b>

	<i>Chair: Piergiorgio Percipalle, NYUAD</i>
2:30 - 3:00 PM *	Dissecting Molecular Pathways Associated with Autism using Stem Cell-Based Models and Genomics Approaches <i>Lawrence Stanton, Qatar Biomedical Research Institute</i>
3:00 - 3:30 PM *	Role of Chromatin Organizer SATB2 as a Regulator of Tissue Specification during Early Vertebrate Embryogenesis <i>Sanjeev Galande, Shiv Nadar University Delhi-NCR</i>
3:30 - 4:00 PM *	Developmental Robustness of Zebrafish Embryos at Single-Cell Resolution <i>Michael Dorrity, European Molecular Biology Laboratory</i>
<b>4:00 - 4:15 PM</b>	<b>Break &amp; Refreshments</b>
4:15 - 4:45 PM *	Developmental Patterns of the <i>Drosophila</i> Visual Projection Neurons <i>Rana El-Danaf, New York University Abu Dhabi</i>
4:45 - 5:15 PM *	Building a Mechanical World in our Head Hernán López-Schier, Helmholtz Zentrum München
<b>5:15 - 6:30 PM</b>	<b>Vendor Exhibition</b>
<b>6:30 - 8:00 PM</b>	<b>Public Program</b> Intervening in Ageing to Prevent Age-Related Diseases <i>Linda Partridge, University College London</i> *Immediately followed by a public reception

### Thursday February 23, 2023

8:30 - 9:00 AM	Coffee
<b>9:00 AM - 12:30 PM</b>	<b>PANEL III: Stress Response &amp; Aging</b> <i>Chair: Kristin Gunsalus, NYU &amp; NYUAD</i>
9:00 - 9:30 AM *	The Mammalian Retina Influences Essential Behaviors <i>Samer Hattar, National Institute of Mental Health</i>
9:30 - 10:00 AM *	Mechanisms Underlying Rhythmic Excitability in Mammalian Clock Neurons <i>Priyam Narain, New York University Abu Dhabi</i>
10:00 - 10:30 AM *	The Role of Lipid Acyl Chain Remodeling in <i>Plasmodium falciparum</i> Pathogenicity <i>Wael Said Abdrabou, New York University Abu Dhabi</i>
<b>10:30 - 10:45 AM</b>	<b>Break &amp; Refreshments</b>
10:45 - 11:15 AM *	The Epigenetic Code: A Key to Regeneration Across Species <i>Kirsten Sadler Edepli, New York University Abu Dhabi</i>
11:15 - 11:45 AM *	Protein Expression Regulation in Health and Disease <i>Christine Vogel, New York University</i>

11:45 AM - 12:15 PM *	Prostate Apoptosis Response-4 and Tumor Suppression: Its Functions Beyond Apoptosis <i>Anees Cheratta, New York University Abu Dhabi</i>
<b>12:15 - 12:30 PM</b>	<b>Flash Talks for Poster Session II</b>
<b>12:30 - 2:30 PM</b>	<b>Lunch (Atrium)</b>
<b>12:30 - 2:30 PM</b>	<b>Poster Session II</b>
<b>2:30 - 3:30 PM</b>	<b>Keynote Lecture</b> Ecological Genomics of Local Adaptation in <i>A. thaliana</i> <i>Joy Bergelson, NYU &amp; NYUAD</i>
<b>3:30 - 5:00 PM</b>	<b>Workshop: Applying for Faculty Positions</b>
<b>3:30 - 5:00 PM</b>	<b>Tour of ERB Labs</b>
<b>Friday February 24, 2023</b>	
8:30 - 9:00 AM	Coffee
<b>9:00 AM - 12:30 PM</b>	<b>PANEL IV: Adaptation</b> <i>Chair: Joy Bergelson, NYU &amp; NYUAD</i>
9:00 - 9:30 AM *	Scaling up Multi-Omics Studies to Identify Functional Contributions of Microbiomes on Health of Underrepresented Populations <i>Aashish Jha, New York University Abu Dhabi</i>
9:30 - 10:00 AM	Human Microbiome in Health and Disease <i>Ahmed Moustafa, The American University in Cairo</i>
10:00 - 10:30 AM *	Host-Pathogen Interactions in the Ocean - A Journey Across Scales <i>Assaf Vardi, Weizmann Institute of Science</i>
<b>10:30 - 10:45 AM</b>	<b>Break</b>
10:45 - 11:15 AM	How Environments of Ancestors Influence Traits in the Present (virtual) <i>Kathleen Donohue, Duke University</i>
11:15 - 11:45 AM	Avian Promoterome Analysis Reveals Extensive Dosage Compensation of Z Chromosome-Located Genes <i>Guojun Sheng, Kumamoto University</i>
11:45 AM - 12:15 PM *	The Genomic Architecture of Speciation in Three Large Falcons <i>Justin Wilcox, New York University Abu Dhabi</i>
<b>12:15 - 12:30 PM</b>	<b>CGSB Highlights &amp; Closing Remarks</b>
<b>12:30 - 2:30 PM</b>	<b>Lunch (Torch Club)</b>