

Center for Genomics and Systems Biology VIII NYU ABU DHABI SAADIYAT CAMPUS Institute Conference Center, A6 February 6-8, 2018

Tuesday February 6, 2018 | DAY 1

8:30 - 8:45 AM	Registration & Coffee
8:45 - 9:00 AM	Welcoming Remarks Fabio Piano, NYUAD
9:00 AM - 12:00 PM	PANEL I: Biodiversity
	Chair: Michael Purugganan, NYU & NYUAD
9:00 - 9:30 AM	Revisiting the evolutionary history of the date palm
	Muriel Gros-Balthazard, New York University Abu Dhabi
9:30 - 10:00 AM	The wondrous cycles of polyploidy in plants
	Jonathan Wendel, Iowa State University
10:00 - 10:30 AM	Adjusting the valves: Stomatal development in time and space
	Dominique Bergmann, Stanford University
10:30 - 11:00 AM	Break & Refreshments
11:00 - 11:30 AM	Genome sequencing of date palm wild relatives supports a role for
	introgressive hybridization in domestication
	Jonathan Flowers, NYU & NYUAD

11:30 AM - 12:00 PM	Dynamic gene expression, metabolites, and microbial communities in a symbiotic sea anemone
	Adam Reitzel, University of North Carolina
12:00 - 2:00 PM	Lunch
12:00 - 2:00 PM	CAREER DISCUSSION FOR WOMEN SCIENTISTS LUNCHEON Moderator: Kirsten Sadler Edepli Room A6 001
2:00 - 5:00 PM	PANEL II: Neuronal Systems Chair: Claude Desplan, NYU & NYUAD
2:00 - 2:30 PM	Molecular and circuit mechanisms of behavioral evolution Vanessa Ruta, Rockefeller University
2:30 - 3:00 PM	Development and evolution of the human neocortex Arnold Kriegstein, University of California-San Francisco
3:00 - 3:30 PM	Neural motion: Looking for common principles of network dynamics, from insects to cephalopods to cortex <i>Gilles Laurent, Max Planck Institute-Frankfurt</i>
3:30 - 4:00 PM	Break & Refreshments
4:00 - 4:30 PM	Molecular mechanisms of neural stem cell lineage progression Simon Hippenmeyer, Institute of Science and Technology Austria
4:30 - 5:00 PM	How do nerve cells compute the direction of motion? <i>Alexander Borst, Max Planck Institute-Munich</i>
5:15 - 6:15 PM	CAMPUS TOUR
6:30 - 8:00 PM	PUBLIC PROGRAM The Role of Technology in Feeding 10 Billion Nina Fedoroff, Pennsylvania State University
	* Immediately followed by a public reception *

8:30 - 9:00 AM	Registration & Coffee
9:00 AM - 12:00 PM	PANEL III: Cells, Development & Diseases Chair: Youssef Idaghdour, NYUAD
9:00 - 9:30 AM	Local transcriptomes and proteomes in neurons Erin Schuman , Max Planck Institute-Frankfurt
9:30 - 10:00 AM	Non-communicable diseases and epigenetics Maryam Matar, Founder of UAE Genetic Diseases Association
10:00 - 10:30 AM	Genetic risk factors for diabetes in ethnic populations Rana Dajani , Hashemite University
10:30 - 11:00 AM	Break & Refreshments
11:00 - 11:30 AM	Moving in the crowded cell: Motors, forces, and disease <i>George Shubeita</i> , NYUAD
11:30 - 11:45 AM	An evolutionary scandal: 18 million years without sex Kristin Gunsalus, NYU & NYUAD
11:45 AM - 12:00 PM	Fighting parasitic worms with bacterial crystals <i>Hala Fahs, NYUAD</i>
12:00 - 1:30 PM	Lunch
12:00 - 1:30 PM	LUNCH WITH EDITORS Pamela Hines, Science Catherine Potenski, Nature Genetics Room A6 001
1:30 - 4:30 PM	PANEL IV: Chemical & Functional Genomics Chair: Kristin Gunsalus, NYU & NYUAD
1:30 - 2:00 PM	Comprehensive analysis of single and double mutants in yeast Anastasia Baryshnikova, Calico Life Sciences
2:00 - 2:30 PM	What do RNA-binding proteins bind? Quaid Morris , University of Toronto

2:30 - 3:00 PM	Chromatin organization and gene regulation in the <i>C. elegans</i> germ line <i>Valerie Reinke, Yale University</i>
3:00 - 3:30 PM	Break & Refreshments
3:30 - 4:00 PM	Profiling the gene set controlling <i>C. elegans</i> embryonic development using an automated method that enables phenotypic comparison in 4D imaging data <i>Karen Oegema</i> , University of California-San Diego
4:00 - 4:30 PM	Screening neurodegenerative models with automated microscopy Marc Bickle, Max Planck Institute of Molecular Cell Biology and Genetics
4:30 - 6:00 PM	Poster Session
6:00 - 7:00 PM	KEYNOTE Shaping immune responses by the commensal microbiota Dan Littman, New York University School of Medicine

Thursday February 8, 2018 | DAY 3

8:30 - 9:00 AM	Coffee
9:00 AM - 12:00 PM	PANEL V: Synthetic Biology Chair: Kourosh Salehi-Ashtiani, NYUAD
9:00 - 9:30 AM	The lesser known half of the perennial crop equation: Diversity, diversification, and rootstock domestication in grafted grapevines <i>Allison Miller</i> , <i>University of Missouri</i>
9:30 - 10:00 AM	From combating vitamin A deficiency to witchweed control Salim Al-Babili , King Abdullah University of Science and Technology
10:00 - 10:30 AM	Shared resources by the numbers Andras Gyoergy, NYUAD
10:30 - 11:00 AM	Break & Refreshments

11:00 - 11:30 AM	Designing RNA architectures to engineer and analyze systems on a large scale <i>James Carothers, University of Washington</i>
11:30 AM - 12:00 PM	Synthetic biology meets synthetic chemistry – <i>In vivo</i> activation of an apo-metalloenzyme using synthetic cofactors Namita Khanna , Birla Institute of Technology and Science Pilani-Dubai Campus
12:00 - 12:30 PM	Design, construction, and analysis of a synthetic minimal bacterial cell John Glass, J.Craig Venter Institute
12:30 - 12:45 PM	Closing Remarks
12:45 - 2:45 PM	Lunch at Torch Club

Design, construction, and analysis of a synthetic minimal bacterial cell John Glass, J.Craig Venter Institute