



Center for Genomics and Systems Biology X

NYU ABU DHABI SAADIYAT CAMPUS

Institute Conference Center, A6

February 17-19, 2020

Monday February 17, 2020

8:30 - 9:00 AM	Registration & Coffee
9:00 - 9:15 AM	Welcoming Remarks <i>Fabio Piano, Provost NYUAD</i>
9:15 AM - 12:30 PM	PANEL I: Biodiversity <i>Chair: Stephane Boissinot, NYUAD</i>
9:15 - 9:45 AM	What drives the dependence of human germline mutation rates on age, sex and time? <i>Molly Przeworski, Columbia University</i>
9:45 - 10:15 AM	Genetic variation in multigenerational phenotypes in <i>C. elegans</i> <i>Marie-Anne Félix, Institut de Biologie de l'École Normale Supérieure</i>
10:15 - 10:45 AM	Break & Refreshments
10:45 - 11:15 AM	Bigger is different: the role of genome size in plant adaptation <i>Jeff Ross-Ibarra, University of California, Davis</i>
11:15 - 11:45 AM	Spatiotemporal genome evolution in Asian rice domestication revealed by machine learning <i>Takashi Gojobori, King Abdullah University of Science and Technology</i>
11:45 AM - 12:15 PM	Understanding the history of French grapevine varieties using ancient DNA <i>Nathan Wales, University of York</i>
12:15 - 12:30 PM	Flash Talks for Poster Session I
12:30 - 2:00 PM	Lunch
1:00 - 2:00 PM	Tour of ERB Labs

2:00 PM - 5:00 PM	PANEL II: Food Security <i>Chair: Hala Fahs, NYUAD</i>
2:00 - 2:30 PM	Sustainable, climate-smart agriculture in marginal environments <i>Seta Tutundjian, International Center for Biosaline Agriculture</i>
2:30 - 3:00 PM	Harnessing nature for best-practice crop protection <i>Roma Gwynn, Rationale Biopesticide Strategists</i>
3:00 - 3:30 PM	The golden death bacillus <i>Chryseobacterium nematophagum</i> ; a novel matrix digesting pathogen of nematodes <i>Tony Page, University of Glasgow</i>
3:30 - 4:00 PM	Break & Refreshments
4:00 - 4:30 PM	Turning a root inside out <i>Siobhan Brady, University of California, Davis</i>
4:30 - 5:00 PM	Insights into the Genome of <i>Chlamydotis macqueenii</i> <i>Khaled Amiri, United Arab Emirates University & Khalifa Center for Genetic Engineering and Biotechnology</i>
5:00 - 6:30 PM	Poster Session I & Vendor Exhibition A6 – Room 001B/C
6:30 - 8:00 PM	Public Program mTOR signaling in growth and metabolism <i>Michael Hall, Biozentrum University of Basel</i> *Immediately followed by a public reception

Tuesday February 18, 2020

8:30 - 9:00 AM	Registration & Coffee
9:00 AM - 12:30 PM	PANEL III: Chemical and Functional Genomics <i>Chair: Kristin Gunsalus, NYU & NYUAD</i>
9:00 - 9:30 AM	Decoding animal development at single cell resolution <i>John Murray, University of Pennsylvania</i>
9:30 - 10:00 AM	A twist of (cell) fate: cellular reprogramming during plant regeneration <i>Kenneth Birnbaum, New York University</i>
10:00 - 10:30 AM	Break & Refreshments
10:30 - 11:00 AM	Cell phenotyping for regenerative and precision medicine

11:00 - 11:30 AM	<i>Davide Danovi, King's College London</i> Life beyond the pixels: image analysis and machine learning methods for personalized cancer research <i>Peter Horvath, Hungarian Academy of Sciences</i>
11:30 - 11:45 AM	Coffee
11:45 AM - 12:30 PM	Keynote Lecture Systematic genetic perturbation screens to map biological networks By Invitation Only <i>Brenda Andrews, University of Toronto</i>
12:30 - 2:00 PM	Lunch
12:30 - 2:00 PM	Lunch Discussion with Science Editors: Laura Zahn (Science) & Di Jiang (PLOS Biology) <i>Hosted by: Youssef Idaghdour, NYUAD</i> A6 – Room 001A
2:00 PM	Free afternoon

Wednesday February 19, 2020

8:30 - 9:00 AM	Coffee
9:00 AM - 12:15 PM	PANEL IV: Neuronal Systems <i>Chair: Claude Desplan, NYU & NYUAD</i>
9:00 - 9:30 AM	Human-specific genetic modifiers of cortical circuit function <i>Franck Polleux, Columbia University</i>
9:30 - 10:00 AM	Deciphering enhancer logic using single-cell regulatory genomics <i>Stein Aerts, VIB-KU Leuven Center for Brain & Disease Research</i>
10:00 - 10:30 AM	Contextual signals in mouse visual cortex <i>Nathalie Rochefort, University of Edinburgh</i>
10:30 - 11:00 AM	Break & Refreshments
11:00 - 11:30 AM	Evolution of olfactory circuits on the fly <i>Lucia Prieto-Godino, The Francis Crick Institute London</i>
11:30 AM - 12:00 PM	Sensory priming: the role of interneurons in creating an internal representation within the cortex <i>Gordon Fishell, Broad Institute</i>
12:00 - 12:15 PM	Flash Talks for Poster Session II

12:15 - 1:30 PM	Lunch
12:15 - 1:30 PM	Lunch Career Discussion for Women Scientists <i>Hosted by: Kirsten Sadler Edepli, NYUAD</i> A6 – Room 001A
1:30 - 3:00 PM	Poster Session II & Vendor Exhibition A6 – Room 001B/C
3:00 - 6:00 PM	PANEL V: Cells, Development & Diseases <i>Chair: Kirsten Sadler Edepli, NYUAD</i>
3:00 - 3:30 PM	Formation and evolution of skin patterns <i>Marie Manceau, Collège de France, Paris</i>
3:30 - 4:00 PM	Stress granule assembly and cell division <i>Monica Gotta, University of Geneva</i>
4:00 - 4:30 PM	Small proteins with big roles – from cell migration to species-specific fertilization <i>Andrea Pauli, Research Institute of Molecular Pathology</i>
4:30 - 5:00 PM	Break & Refreshments
5:00 - 5:30 PM	Cytoskeletal proteins in the nucleus: a new paradigm for gene regulation and genome organization during differentiation <i>Piergiorgio Percipalle, New York University Abu Dhabi</i>
5:30 - 6:00 PM	Molecular maturation of single multipotent progenitors fosters cardiopharyngeal competence <i>Lionel Christiaen, New York University</i>
6:00 - 6:30 PM	Closing Remarks