

Second-Annual QBI|UCSF - PSL|QLife Symposium

# Complex Biological Phenomenon and Quantitative Approaches

December 1-2, 2020

8:00 am PT | 5:00 pm CET



## Day 1: December 1, 2020

**8:00 PST, 5:00 CEST** Intro remarks by **Nevan Krogan**, QBI|UCSF, Professor, Director of Quantitative Biosciences Institute; **Bruno Goud**, Qlife | Institut Curie, **CNRS Research Director**, Chair of the Institut de Convergences; and representative of the Embassy of France in the US, Scientific Officer

**SESSION I: Chair:** Lani Wu, QBI

**8:10 PST, 5:10 CEST** Geeta Narlikar, QBI|UCSF, Professor, Biochemistry and Biophysics  
*"Heterochromatin through the lens of phase-separation"*

**8:25 PST, 5:25 CEST** Fekrije Selimi, Qlife|Collège de France, Research Director  
*"Unraveling the molecular code controlling synaptic identity"*

**8:40 PST, 5:40 CEST** Michael Keiser, QBI|UCSF, Assistant Professor, Institute for Neurodegenerative Diseases, UCSF Weill Institute for Neurosciences  
*"TBD"*

**8:55 PST, 5:55 CEST** Hana El-Samad, QBI|UCSF, Professor, Biochemistry and Biophysics  
*"Biological Feedback Loops - An Old Problem and a New Frontier"*

**9:10-9:20 PST, 6:10-6:20 CEST** Break

**SESSION II: Chair:** Geeta Narlikar, QBI

**9:20 PST, 6:20** Nathalie Spassky, Qlife|IBENS|Ecole Normale Supérieure, Research Director  
*"Mechanisms of ependymal cell specification"*

**9:35 PST, 6:35 CEST** Sophie Dumont, QBI|UCSF, Associate Professor, Bioengineering & Therapeutic Science

*"The Spindle: Mechanical Robustness with Dynamic Parts"*

**9:50 PST, 6:50 CEST** Leïla Perié, Qlife|Institut Curie, Principal Investigator

*"Quantifying cell dynamics in hematopoiesis"*

**10:05 PST, 7:05 CEST** Lani Wu, QBI|UCSF, Professor, Pharmaceutical Chemistry

*"Homeostasis in rapidly renewing intestinal epithelial tissue"*

## **Day 2: December 2, 2020**

**SESSION I: Chair:** Gilles Gasser, Qlife

**8:05 PST, 5:05 CEST** Wallace Marshall, QBI|UCSF, Professor, Biochemistry and Biophysics

*"Control systems for organelle size"*

**8:20 PST, 5:20 CEST** Marie-Hélène Verlhac, Qlife|Collège de France, Head of CIRB and Group leader

*"Cytoplasmic remodeling compartmentalizes the oocyte nucleus"*

**8:35 PST, 5:35 CEST** Olivier Espeli, Qlife|Collège de France, CNRS Research Director

*"Adaptation of E. coli pathobionts to life within macrophages"*

**8:50 PST, 5:50 CEST** Maria Teresa Teixeira, Qlife|CNRS, Research Director, Molecular and Cellular Biology of Eukaryotes

*"How telomeres control cell proliferation"*

**9:05-9:15 PST, 6:05-6:15 CEST** Break

**SESSION II: Chair:** Marie-Hélène Verlhac, Qlife

**9:15 PST, 6:15 CEST** Clotilde Policar, Qlife|PSL université, Ecole Normale Supérieure, Professor

*"Metal complexes in biological environments: a new frontier in inorganic chemistry  
Focuses on Mn-SOD mimics: from design to evaluation in cells"*

**9:30 PST, 6:30 CEST** David A Agard, QBI|UCSF, Professor, Biochemistry & Biophysics

*"To fold or not to fold: chaperone-mediated client remodeling revealed in atomic detail"*

**9:45 PST, 6:45 CEST** William DeGrado, QBI|UCSF, Professor, Pharmaceutical Chemistry

*"TBD"*

**10:00 PST, 7:00 CEST** Gilles Gasser, Qlife|PSL University, Chimie ParisTech, Professor

*"Metal Complexes as Diagnostics and Therapeutics"*