

The 26th Pasteur-Weizmann meeting
Integrative biology to battle emerging diseases

November 21-22, 2018

Duclaux amphitheatre, Institut Pasteur

Wednesday, November 21

Opening remarks:

9:10 - 9:30

Introduction by the organizers (N. Regev, T. Bourgeron, C. Zimmer)
Stewart Cole, Institut Pasteur, president
or **Olivier Schwartz**, Institut Pasteur, scientific director
Andrès Alcover or **David Weizmann**, Pasteur-Weizmann Council

Session 1: Methods for integrative biology, genetics and omics

09:30 - 09:50

Yitzhak Pilpel, Weizmann Institute of Science
Errors and edits in the Central Dogma

09:50 - 10:10

Hugues Aschard, Institut Pasteur
Balancing complexity in genetic studies of multifactorial diseases

10:10 - 10:30

Olivier Gascuel, Institut Pasteur
Reconstructing and predicting the evolution of drug resistances in HIV

10:30 - 11:00

Coffee break

Session 2: Signaling, organelle biology and development

11:00 - 11:20

Neta Regev-Rudzki, Weizmann Institute of Science
Malaria parasites regulate secretion of extracellular vesicles carrying distinct cargo

11:20 - 11:40

Tim Wai, Institut Pasteur
Mitochondrial form and function in health and disease

11:40 - 12:00

Karina Yaniv, Weizmann Institute of Science
Building blood and lymphatic vessels in health and disease

12:00 - 14:00

Lunch

Session 3: Molecular basis of diseases, environment and global health

14:00 - 14:20

Rony Dahan, Weizmann Institute of Science
The role of Fc receptors in the therapeutic anti-tumor activity of checkpoint antibodies

14:20 - 14:40

Thomas Bourgeron, Institut Pasteur
The genetics of autism from risk to resilience

14:40 - 15:00

Lluís Quintana-Murci, Institut Pasteur
Population genetics and genomics of immunity to infection in humans

15:00 - 15:20

Simon Cauchemez, Institut Pasteur
TBD

15:20 - 15:40

Idit Shachar, Weizmann Institute of Science
Molecular mechanisms regulating B cell survival in health and disease

15:40- 16:10

Coffee break

Session 4: Social, behavioral and neuro sciences

16:10- 16:30

Michal Schwartz, Weizmann Institute of Science
Targeting immune checkpoints to fight Alzheimer's disease and dementia

16:30- 16:50

Meital Oren, Weizmann Institute of Science
Insights into the mechanism of sexually dimorphic synaptic connectivity

16:50- 17:10

Tamara Giles-Vernick, Institut Pasteur
Interpreting human and great ape microbiome in the Congo River Basin

Keynote talk:

17:10 - 18:00

Tuuli Lappalainen, New York Genome Center & Columbia University
Functional variation in the human genome: Lessons from the transcriptome

20:00

Dinner

Session 1 (continued): Methods for integrative biology, genetics and omics

- 10:00 - 10:20 **Yonatan Stelzer**, Weizmann Institute of Science
DNA methylation dynamics during embryogenesis at single-cell resolution
- 10:20 - 10:40 **Christophe Zimmer**, Institut Pasteur
Computational imaging and modeling approaches for cell biology
- 10:40 - 11:00 **Michael Nilges**, Institut Pasteur
TBD

Session 2 (continued): Signaling, organelle biology and development

- 11:00 - 11:20 **Ori Avinoam**, Weizmann Institute of Science
Endocytosis as a paradigm for understanding membrane remodeling at the cell surface
- 11:20 - 11:40 **Sigolène Meilhac**, Institut Pasteur and Institut Imagine
The right loop in heart morphogenesis
- 12:00- 13:30 LUNCH

Session 3 (continued): Molecular basis of diseases, environment and global health

- 13:30-13:50 **Ziv Shulman**, Weizmann Institute of Science
Cellular dynamics of antibody affinity maturation
- 13:50-14:10 **Arnaud Fontanet**, Institut Pasteur
Zika : Genesis of a pandemic
- 14:10-14:30 **Einat Segev**, Weizmann Institute of Science
Bacterial Effects on Algal Life and Death

Session 4 (continued): Social, behavioral and neurosciences

- 14:30 - 14:50 **Michal Rivlin**, Weizmann Institute of Science
Unexpected computations in retinal circuits
- 14:50 - 15:10 **Lulla Opatowski**, Institut Pasteur
Assessing the transmission of antibiotic resistant bacteria on human contact networks
- 15:10 – 15:20 Closing remarks
- 15:20 – 16:00 Cocktail