



*24<sup>th</sup> Pasteur-Weizmann Symposium*

# Biological Communication

*Amphithéâtre Duclaux*

*Institut Pasteur, Paris*

*June 16-17, 2014*

**Scientific organizing Committee**

Pr Andrés Alcover, Institut Pasteur

Pr Avraham Yaron, Weizmann Institute

# Program

**Monday, June 16**

**08:30**      **Gathering, coffee**

**09:00**      **Opening:**

*Andrés Alcover, Avraham Yarom*

Welcome : Christian Brechot, Director General, Institut Pasteur

**09:20**      **Plenary lecture I**

*Yasmine Belkaid, NIH, Bethesda, USA*

Role of the microbiota in tissue immunity and inflammation

**Session I : Quorum sensing: from the ocean to the stem cell niche**

**Chair :** *Moshe Yaniv, Institut Pasteur*

**10:10**      *Ilana Kolodkin-Gal, Weizmann Institute*

Manipulation of *Bacillus subtilis* biofilms by its eukaryotic host

**10:35**      **Coffee break**

**11:05**      *Jean Marc Ghigo, Institut Pasteur*

Sniffing the crowd: Nature and role of airborne volatile molecules produced by bacterial communities.

**11:30**      *Asaf Vardi, Weizmann Institute*

Redox-Based Sensing of the Marine Environment: From Organelle Signaling to Cell Fate Decisions

**11:55**      *Antonio Freitas, Institut Pasteur*

The role of quorum sensing in lymphocyte homeostasis

**12:20**      *Lilach Gilboa , Weizmann Institute*

Communicating ovarian development to the germ line: Somatic control of Germ line stem cell establishment and differentiation.

**12:45**      **Lunch break**

**Note:**      *Plenary lecture: 40 min talk + 10 min questions*

*Lectures: 20 min talk + 5 min questions*

## **Session II : Cell migration and chemotaxis**

**Chair:** Nancy Guillen, Institut Pasteur

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| 14:30        | Pierre-Marie Lledo, Institut Pasteur<br>Migration and integration of new neurons into old brain circuits                   |
| 14:55        | Michael Eisenbach, Weizmann Institute<br>Mammalian sperm guidance by thermotaxis, with temperature sensing by opsins.      |
| 15:20        | Philippe Bastin, Institut Pasteur<br>Trypanosome migration in the tsetse fly and beyond                                    |
| <b>15:45</b> | <b>Coffee break</b>  |
| 16:15        | Guy Shakhar, Weizmann Institute<br>Interstitial dendritic cell migration: a key to antigen sampling and presentation       |
| 16:40        | Philippe Herbomel, Institut Pasteur<br>Deployment of tissue resident leukocytes: insights from the zebrafish               |
| 17:05        | Eli Arama, Weizmann Institute<br>Fertile death: utilization of apoptotic caspases during cellular remodeling in drosophila |
| 17:30        | Ronen Alon, Weizmann Institute<br>Leukocyte crossing of blood barriers: old signals, new checkpoints                       |

**Note:** Lectures: 20 min talk + 5 min questions

## Tuesday June 17

09:00	<b>Plenary Lecture II</b> Nihal Altan-Bonnet, NIH, Bethesda, USA. Lipids: catalysts of viral replication
	<b>Session III : Host-microbe interactions</b> <b>Chair:</b> Irit Sagi, Weizmann Institute
9:50	Eran Elinav, Weizmann Institute Host and microbiota communications in health and disease
<b>10:15</b>	<b>Coffee break</b>
10:45	G�rard Eberl, Institut Pasteur ROR�t cells in intestinal homeostasis
11:10	Yoav Soen, Weizmann Institute Epigenetic- and Microbial-mediated Mechanisms of Response to Non-Familiar Stress
11:35	Marc Lecuit, Institut Pasteur How <i>Listeria</i> makes its way into the host
12:00	Ido Amit, Weizmann Institute Ab initio characterization of the immune system using massively parallel single cell RNA-Seq
12:25	Andr�s Alcover, Institut Pasteur Polarized vesicle traffic to the immunological synapse and its subversion by HIV
<b>12:50</b>	<b>Lunch break</b>
<i>Note:</i>	<i>Plenary lecture: 40 min talk + 10 min questions</i> <i>Lectures: 20 min talk + 5 min questions</i>

14:30	<b>Session IV : Cell Communication</b> <b>Chair:</b> Alice Dautry, Institut Pasteur
14:30	Avraham Yaron, Weizmann Institute Signaling for diverse cellular responses by axonal guidance cues
14:55	Jérôme Gros, Institut Pasteur Imaging and Regulation of the Cellular Events that Shape the Embryo
15:20	Gil Levkowitz, Weizmann Institute Cell communication in the hypothalamus; lessons from the zebrafish
15:45	<b>Coffee break</b>
16:15	Pierre Jean Corringer, Institut Pasteur Molecular mechanisms of pentameric ligand-gated ion channels
16:40	Tali Kimchi, Weizmann Institute Mapping the neuronal circuit underlying social communication
17:05	Chiara Zurzolo, Institut Pasteur Role of Tunneling Nanotubes in the spreading of prions and prion-like proteins in neurodegenerative diseases
17:30	Fernando Arenzana, Institut Pasteur Concluding Remarks
<i>Note:</i>	<i>Lectures: 20 min talk + 5 min questions</i>

### **Closing Ceremony.** Institut Pasteur :

Robert Parienti – Bernard Esambert. Pasteur-Weizmann Council

Concert : Auditorium François Jacob

Reception: Salle d'Actes Institut Pasteur