

**Monday, October 16<sup>th</sup>**

2 p.m. - 5:45 p.m.	<b>Check in at IESC</b>
5:45 p.m. - 6 p.m.	<b>Welcome word</b> by Thomas LECUIT (Institut de Biologie du Développement, France) and Rosa COSSART (Institut de Neurobiologie de la Méditerranée, France)
6 p.m. - 7 p.m.	Keynote Conference- Adrienne Fairhall (University of Washington, USA)
7 p.m. - 8 p.m.	<b>Welcome drink at IESC</b>
8 p.m.	<b>Dinner in Cargese</b>

**Tuesday, October 17<sup>th</sup>**

9 a.m. - 9:40 a.m.	Dmitriy Aronov (Zuckerman Institute, Columbia University, USA) <i>Using food-caching birds to study the neuroscience of episodic memory</i>
9:40 a.m. - 10:20 a.m.	Laura Lee Colgin (Center for Learning and Memory, The University of Texas at Austin, USA) <i>Coordination of populations of hippocampal place cells by theta rhythms and sharp wave-ripples</i>
10:20 a.m. - 10:50 a.m.	<b>Coffee break</b>
10:50 a.m. - 11:30 a.m.	Jay Groves (Department of Chemistry, University of California Berkeley, USA) <i>Visualizing signaling output from the LAT protein condensate during T cell activation at the single molecule level</i>
11:30 a.m. - 12:10 a.m.	Pierre Sens (Institut Curie, France) <i>Physical principles of cell volume and density regulation</i>
12:10 p.m. - 2 p.m.	<b>Lunch Break</b>

2 p.m. - 2:40 p.m.	Madan Rao ( <i>National Centre for Biological Sciences (TIFR), Bangalore</i> ) <i>Decoding and Encoding of Molecular Information: the umwelt of the cell</i>
2:40 p.m. - 3 p.m.	Allyson Quinn Ryan (Max Planck Institute for Molecular Cell Biology and Genetics) <i>napari-toska: An Open-Source GUI for Topological Skeleton Analysis</i>
3 p.m. - 3:20 p.m.	Nicolas Levernier (CPT, Inmed, CENTURI, France) <i>Dimensionality reduction and its application to study spatial navigation</i>
3:20 p.m. - 5 p.m.	<b>Coffee Break and Poster Session</b>
5:20 p.m. - 6 p.m.	Pierre Ronceray (CINaM, CENTURI, France) <i>From trajectories to models: learning the stochastic dynamics of living systems</i>
8 p.m.	<b>Dinner in Cargese</b>



**Wednesday, October 18<sup>th</sup>**

9 a.m. - 9:40 a.m.	Pavel Tolar (Collège de France, Paris, France) <i>Regulation of long-term retention of vaccine antigens by follicular dendritic cells</i>
9:40 a.m. - 10 a.m.	Lama Awada (LAI, CIML, CENTURI, France) <i>Imprint of mechanical forces on antibody affinity maturation in B cell immune responses</i>
10 a.m. - 10:20 a.m.	Marc Karnat (CPT, CENTURI, France) <i>A spontaneous flows rheometer to probe the viscoelasticity of living tissues</i>
10:20 a.m. - 10:50 a.m.	<b>Coffee Break</b>
10:50 a.m. - 11:10 a.m.	Ivar Noordstra (Institute for Molecular Bioscience, The University of Queensland, Australia) <i>An E-cadherin-actin clutch translates the mechanical force of cortical flow for cell-cell contact to inhibit epithelial cell locomotion</i>
11:10 a.m. - 11:30 a.m.	Mingming Wu (Biological and Environmental Engineering, Cornell University, USA) <i>Self-organization in biological systems</i>
11:30 a.m. - 11:50 p.m.	Maria Pappa (Friedrich Miescher Institute for Biomedical Research, Switzerland) <i>Rac1 GTPase as a regulator of the oscillation dynamics in the mouse presomitic mesoderm</i>
11:50 a.m. - 12:30 p.m.	Cecile Sykes (Laboratoire de Physique de l'Ecole Normale Supérieure, France) <i>Active actin networks drive membrane deformation, intracellular propulsion, and nucleus actuation.</i>
12:30 p.m. - 2 p.m.	<b>Lunch Break</b>
2 p.m. - 5 p.m.	<b>Free time</b>
8 p.m.	<b>Dinner in Cargese</b>



## Thursday, October 19<sup>th</sup>

9 a.m. - 9:40 a.m.	Clement Sire (Université de Toulouse III- Paul Sabatie, France) <i>Measuring and modeling social interactions in fish schools and applications: machine learning, robot-fish, virtual reality for fish, drones</i>
9:40 a.m. - 10 a.m.	Tarun Mascarenhas (Max Planck School Matter to Life, Max Planck Institute for Complex Systems, Germany) <i>Decision Making in Stochastic Chemical Systems</i>
10 a.m. - 10:20 a.m.	Anne-Lena Moor (Max Planck Institute of Molecular Cellbiology and Genetics and Center for Systems Biology, Germany) <i>Dynamic Information Transfer in Stochastic Biochemical Networks</i>
10:20 a.m. - 10:50 a.m.	<b>Coffee Break</b>
10:50 a.m. - 11:30 a.m.	Andrea Cavagna (Institute for Complex Systems, National Research Council, Italy) <i>Natural swarms in 3.99 dimensions</i>
11:30 a.m. - 11:50 a.m.	Michele Castellana (Institut Curie, France) <i>Maximum-entropy formalism for time-delayed interactions</i>
11:50 a.m. - 12:10 p.m.	Jeremie Perrin (TAGC, CENTURI, France) <i>Data driven Random Walk with Restart: Learning a diffusive model of intra-cellular signaling</i>
12:10 p.m. - 2 p.m.	<b>Lunch Break</b>
2 p.m. - 2:40 p.m.	Lorenzo Fontolan (Inmed, CPT, CENTURI, France) <i>High-dimensional feedforward amplification in recurrent neural networks</i>

2:40 p.m. - 3 p.m.	Anais Baudot (Marseille Medical Genetics, France) <i>Network-based data integration for genetic diseases</i>
3 p.m. - 3:20 p.m.	Nadine Ben Boina (I2M, France) <i>The most permissive semantics as a tool to refine Boolean models.</i>
3:20 p.m. - 3:40 p.m.	Ulysse Herbach (INRIA Nancy- Grand Est, Université de Lorraine, France) <i>Gene expression and regulatory networks: bridging the gap between mechanistic modeling and statistical learning</i>
3:40 p.m. - 4:20 p.m.	Alain Barrat (Centre de Physique Théorique, France) <i>Beyond static networks: structures in temporal networks and hypergraphs</i>
4:20 p.m. - 5:40 p.m.	<b>Coffee Break &amp; Poster Prize</b>
5:40 p.m. - 6 p.m.	<b>Conclusion</b>
7:30 p.m.	<b>Barbecue party at IESC</b>

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## Friday, October 20<sup>th</sup>

9 a.m. - 10 a.m.	<b>Check out in IESC</b>
10 a.m.	<b>Shuttle from IESC to Ajaccio Airport</b>

