6TH

French Cell Adhesion
Club Symposium

6-8 June 2016  SupAgro Montpellier, France

ORGANIZING COMMITTEE:
Anne BLANGY, Franck COMUNALE,
Cécile GAUTHIER-ROUVIERE,
Amel METTOUCHI,
Damien PLANCHON

INVITED SPEAKERS

ADHESIVE CUES IN EPITHELIA ARCHITECTURE,
CELL MOVEMENT AND TISSUE SEPARATION
Éric THÉVENEAU (Toulouse, France)
Pascal SILBERZAN (Paris, France)
Sandrine ÉTIENNE-MANNEVILLE (Paris, France)
Alissa WEAVER (Nashville, USA)

EXTRACELLULAR MATRIX
AND MICROENVIRONMENT
Florence RUGGIERO (Lyon, France)
Sophie TARTARE-DECKERT (Nice, France)

BIOPHYSICS OF CELLULAR ADHESION
Elsa BAZELLIÈRES (Marseille, France)
Atef ASNACIOS (Paris, France)
Martial BALLAND (Grenoble, France)

SUPER-RESOLUTION TO STUDY
CELLULAR ADHESION
René-Marc MÈGE (Paris, France)
Olivier ROSSIER (Bordeaux, France)
Alessandra CAMBI (Nijmegen, The Netherlands)

CELL ADHESION-MEDIATED SIGNALING
Amel METTOUCHI (Nice, France)
Anne BLANGY (Montpellier, France)
Vania BRAGA (London, United Kingdom)
Stéphane BODIN (CRBM, Montpellier, France)

INTRAVITAL IMAGING
Danijela VIGNJEVIC (Paris, France)
Jacky GOETZ (Strasbourg, France)

MORPHOGENESIS
François FAGOTTO (Montpellier, France)
Pierre-François LENNE (Marseille, France)
## SCIENTIFIC PROGRAM

### MONDAY JUNE 6TH

<table>
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<tr>
<th>Time</th>
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<tr>
<td>14:00-14:15</td>
<td>Opening</td>
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| 14:15-17:00 | SESSION 1  ADHESIVE CUES IN EPITHELIA ARCHITECTURE, CELL MOVEMENT AND TISSUE SEPARATION  
Chair: Corinne ALBIGES-RIZO  
14:15-14:45  Éric THÉVENEAU (CNRS UMR5547, Toulouse, France)  
**Signal integration during directional migration**  
14:45-15:15  Pascal SILBERZAN (Institut Curie, Paris, France)  
**Confined and shaped monolayers**  
15:15-15:30  Vincent ROMARIC (CEA / MINATEC / LETI, Grenoble, France)  
**Organization of a very large population of cells: a phase diagram studied by means of lensfree microscopy**  
15:30-15:45  Anne REVERSAT (IST Austria, Klosterneuburg, Austria)  
**Environmental geometry and actin mechanics rule adhesion-free migration of leukocytes**  
15:45-16:30 | Coffee break & Poster viewing                                     |
| 16:30-17:00 | SESSION 2  EXTRACELLULAR MATRIX AND MICROENVIRONMENT  
Chair: Sylvie DUFOUR  
17:00-17:45  Alissa WEAVER (Vanderbilt University, Nashville, USA)  
**Role of exosomes in promoting directional migration of cancer cells**  
17:45-18:15  Florence RUGGIERO (CNRS UMR5242, Lyon, France)  
**Fishing for collagen function: lessons from zebrafish**  
18:15-18:45  Sophie TARTARE-DECKERT (INSEM U1065, Nice, France)  
**The role of the extracellular matrix (ECM) in melanoma cell plasticity and drug resistance**  
18:45-19:00  Laurent MULLER (CIRB - Collège de France, Paris, France)  
**Lysyl oxydase like-2 (LOXL2) regulates angiogenesis through scaffolding of endothelial basement membrane**  
19:00-21:00 | Welcome drink & Poster session                                     |
### SESSION 5  CELL ADHESION-MEDIATED SIGNALING

**Chair:** Cécile GAUTHIER-ROUVIÈRE

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<tr>
<td>15:00-15:30</td>
<td>Amel METTOUCHI (INSERM U1065, Nice, France)</td>
<td>The Rac ubiquitylation pathway tunes integrin mechanotransduction for cell growth</td>
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<tr>
<td>15:30-16:00</td>
<td>Anne BLANGY (CRBM, Montpellier, France)</td>
<td>RhoGTPase signaling in the control of osteoclast adhesion and bone resorption</td>
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<tr>
<td>16:00-16:15</td>
<td>Avais DAULAT (TCRCM, Marseille, France)</td>
<td>PRICKLE1 contributes to cancer cell dissemination through its interaction with mTORC2</td>
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<tr>
<td>16:15-16:30</td>
<td>Caroline AROUS (Centre médical universitaire, Geneva, Switzerland)</td>
<td>Integrin-dependent adhesions are crucial to maintain pancreatic β-cell functions</td>
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16:30-17:00 Coffee break & Poster viewing

17:00-17:30 Vania BRAGA (Imperial College, London, United Kingdom)  
Interplay between cortical tension and junction composition and configuration

17:30-18:00 Stéphane BODIN (CRBM, Montpellier, France)  
Role of Flotillins in inter-cellular adhesion and invasion

18:00-18:30 Laurent GAGNOUX-PALACIOS (IBV-INSERM U1071, Nice, France)  
Cadherins control Fas cell death receptor signaling: importance in colorectal cancer progression

18:15-18:30 Violaine MOREAU (INSMR UMR1053, Bordeaux, France)  
Identification of a novel functional domain in p190RhoGAP found mutated in tumors

20:00 Gala dinner at the restaurant “Le Petit Jardin”

### SESSION 6  INTRAVITAL IMAGING

**Chair:** Pierre SAVAGNER

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<tr>
<td>09:00-09:30</td>
<td>Danijela MATIC VIGNJEVIC (Institut Curie, Paris, France)</td>
<td>The role of tumor microenvironment in cancer cell invasion</td>
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<td>09:30-10:00</td>
<td>Jacky GOETZ (INSERM U1109, Strasbourg, France)</td>
<td>Tracking tumor metastasis <em>in vivo</em> at high-resolution</td>
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<td>10:00-10:15</td>
<td>Ali SÁLEH (Institut des Neurosciences de Montpellier - Inserm U1051, Montpellier, France)</td>
<td>A new tridimensional nanofibers scaffold to study the interaction of Glioblastoma Stem Cells with the extracellular matrix</td>
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10:15-10:45 Coffee break & Poster viewing

### SESSION 7  MORPHOGENESIS

**Chair:** René-Marc MEGE

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<tr>
<td>10:45-11:15</td>
<td>François FAGOTTO (CRBM, Montpellier, France)</td>
<td>Cell sorting during tissue separation does not rely on differential adhesion nor differential tension but on local tension at the boundary interface</td>
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<tr>
<td>11:15-11:45</td>
<td>Pierre-François LENNE (IBDM, Marseille, France)</td>
<td>Shaping cell contacts during tissue morphogenesis</td>
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<td>11:45-12:00</td>
<td>Xiaobo WANG (LBCMCP, Toulouse, France)</td>
<td>Two adhesions differentially control basal myosin oscillation and tissue elongation</td>
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<td>12:00-12:15</td>
<td>Cédric PLUTONI (Université de Montréal, Montréal, Canada)</td>
<td>Moesin-dependent supra-cellular actin structure mediates cell-cell communication during <em>in vivo</em> and <em>in vitro</em> collective cell migration</td>
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<td>12:15-12:30</td>
<td>César VALENCIA GALLARDO (Collège de France, Paris, France)</td>
<td>Mechanisms of talin-vinculin scaffolds’ formation by the Shigella type III invasion effector IpaA</td>
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12:30 End of the meeting

Lunch box gift before departure