



## CHAIRE DYNAMIQUES DU VIVANT

Année académique 2018-2019



COLLÈGE  
DE FRANCE  
1530

### Thomas LECUIT

Professeur

### Controlled and Self-organised Morphogenesis

Contrôle et auto-organisation des processus morphogénétiques

Vendredi 22 mars 2019, de 9h à 18h

Amphithéâtre Maurice Halbwachs

### Programme des interventions :

09h00	Ewa PALUCH, <i>university College London</i> Morphogenesis across scales: molecular control of cellular shape
09h30	Karen ALIM, <i>Max Planck Institute Göttingen</i> Fluid flows organising morphology
10h00	Marie-Hélène VERLHAC, <i>Collège de France</i> Modulation of gene expression by an actin-dependent pressure gradient in mouse oocytes
10h30	Pause
11h00	Edwin MUNRO, <i>university of Chicago</i> Dynamic coupling of adhesion, signaling and force generation during neural tube closure
11h30	Jean-Léon MAÎTRE, <i>Institut Curie</i> Hydraulic fracturing and coarsening position the lumen of the mouse blastocyst
12h00	Guillaume SALBREUX, <i>Crick Institute London</i> Physics of epithelial flows and folds
12h30	Déjeuner
14h00	Maria LEPTIN, <i>EMBL Heidelberg</i> Cell shape changes in a folding epithelium: genetically and mechanically determined boundaries
14h30	Jérôme GROS, <i>Institut Pasteur</i> Mechanical control of avian gastrulation
15h00	Suzanne EATON, <i>Max Planck Institute Dresden</i> Molecular mechanisms underlying epithelial viscoelasticity in the Drosophila wing
15h30	Pause
16h00	Edouard HANNEZO, <i>IST Vienna</i> Bulk actin dynamics drives active phase segregation in zebrafish oocyte
16h30	Olivier POURQUIÉ, <i>Harvard Medical School</i> Physical principles underlying patterning of the vertebrate body axis
17h00	Cliff TABIN, <i>Harvard Medical School</i> Signals and forces patterning the intestinal smooth muscle

Collège de France

11, place Marcelin-Berthelot, 75005 Paris  
[www.college-de-france.fr](http://www.college-de-france.fr)

Alain PROCHIANTZ

Administrateur du Collège de France