

# From cell to organism

## When cell biology meets development

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### KEYNOTE SPEAKERS

Eileen E. FURLONG • Caren NORDEN

### INVITED SPEAKERS

Anna AKHMANOVA  
Ivan BEDZHOV  
Lionel CHRISTIAEN  
Marie DELATTRE  
Spencer FREEMAN  
Pierre GÖNCZY  
Aïssam IKMI  
Wolfgang KEIL  
Kinneret KEREN

Mounia LAGHA  
Pierre LEOPOLD  
Chema MARTIN-DURAN  
Nicolas MINC  
Patrick H. O'FARRELL  
Ewa PALUCH  
Nicoletta PETRIDOU  
Eugenia PIDDINI  
Matthieu PIEL

Rashmi PRIYA  
Emma RAWLINS  
Klemens ROTTNER  
Peter RUGG-GUNN  
Sara SIGISMUND  
Sebastian STREICHAN  
Maria-Elena TORRES-PADILLA  
Miltos TSIANTIS



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**OCTOBER 16-19, 2024**  
**CICSU, SORBONNE UNIVERSITÉ - PARIS**

### ORGANIZING COMMITTEE

Yohanns BELLAICHE  
Claire CHAZAUD  
Bénédicte DELAVAL  
Delphine DUPREZ  
Thierry GALLI  
Benjamin LACROIX

Stéphanie LEBRETON  
Christine LEMAITRE  
René-Marc MEGE  
Florence NIEDERGANG  
Jean ROSENBAUM  
Isabelle TARDIEUX

# SCIENTIFIC PROGRAM



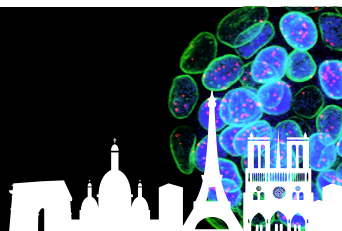
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# From cell to organism

## When cell biology meets development

OCTOBER 16-19, 2024 | CICSU, SORBONNE UNIVERSITÉ - PARIS



## SCHEDULE

### TUESDAY, OCTOBER 15<sup>TH</sup> | ALL DAY

Outreach activities tba - Off-site: Espace Robespierre

### WEDNESDAY, OCTOBER 16<sup>TH</sup> | 9:00AM - 6:40PM

9:45am	Conference Opening
10:00am	<b>The EMBO Keynote Lecture</b> <b>The many ways to make a retina: Studies from cells to tissue</b> <i>Caren NORDEN</i>
11:00am	<b>SESSION 1 - NUCLEAR ARCHITECTURE &amp; GENE REGULATION</b>
2:00pm	<b>SESSION 2 - MOTILITY AND POLARITY</b>
4:20pm	<b>SESSION 3 (Part. 1) - SIGNALING AND PATTERNING</b>
5:05pm	SBCF and SFBD awards
6:00pm	<b>Outreach: General Public Seminar</b> <b>Les Cellules - Une histoire de la vie</b> <i>Christian SARDET</i>

### THURSDAY, OCTOBER 17<sup>TH</sup> | 8:30AM - 6:00PM

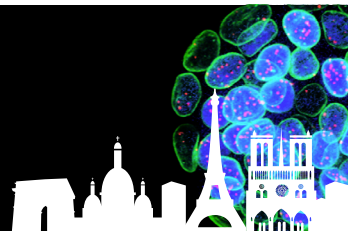
9:00am	<b>SESSION 3 (Part. 2) - SIGNALING AND PATTERNING</b>
10:15am	<b>SESSION 4 - CELL CYCLE, CELL GROWTH &amp; MORPHOGENESIS</b>
12:55pm	7 Flash Talks
2:10pm	Poster Session 1
4:00pm	<b>SESSION 5 - MECHANOBIOLOGY ACROSS SCALES</b>

During each session:  
Speakers communications  
& Selected talks from oral communications

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## SCHEDULE

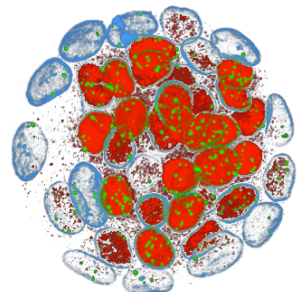
### FRIDAY, OCTOBER 18<sup>TH</sup> | 8:30AM - 6:40PM

9:00am	SESSION 6 - SYNTHETIC BIOLOGY FROM MOLECULES TO ORGANS
11:20am	SESSION 7 - PHYSIOLOGY METABOLISM & DISEASES
12:50pm	7 Flash Talks
2:00pm	Poster Session 2
4:00pm	SESSION 8 - EVOLUTION & CO-EVOLUTION
8:30pm	CONGRESS DINNER

### SATURDAY, OCTOBER 19<sup>TH</sup> | 8:30AM - 12:35PM

9:00am	SESSION 9 STEM CELLS, CELL FATE AND REGENERATION
11:15am	Session Tribute M. Bornens
11:45am	<b>Keynote Lecture</b> Genome regulation: Properties and function during embryonic development <i>Eileen E. FURLONG</i>
12:25pm	Closing remarks

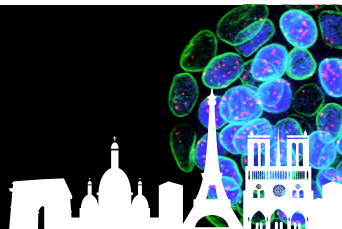
During each session:  
Speakers communications  
& Selected talks from oral communications



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## WEDNESDAY, OCTOBER 16<sup>TH</sup>

9:00 - 9:45am

Welcoming participants

9:45 - 10:00am

Conference Opening

10:00 - 10:40am



**The EMBO Keynote Lecture**

**The many ways to make a retina:  
Studies from cells to tissue**

*Caren NORDEN*

10:40 - 11:00am

Coffee and break around partners

11:00am - 1:00pm

SESSION 1

### NUCLEAR ARCHITECTURE & GENE REGULATION

11:00 - 11:30am

**Establishing the epigenome in human  
development and pluripotency**

*Peter RUGG-GUNN*

11:30 - 12:00pm



**The EMBO Young Investigator Lecture :  
Gene expression dynamics during embryonic  
patterning**

*Mounia LAGHA*

12:00 - 12:30pm

**Consequences of cellular confinement  
on the physical state and integrity of the nucleus**

*Matthieu PIEL*

12:30 - 12:45pm

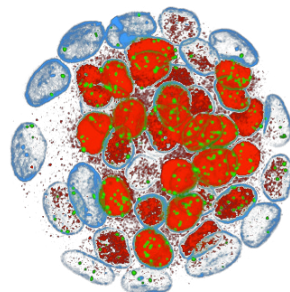
Selected talk from abstracts

12:45 - 1:00pm

Selected talk from abstracts

1:00 - 2:00pm

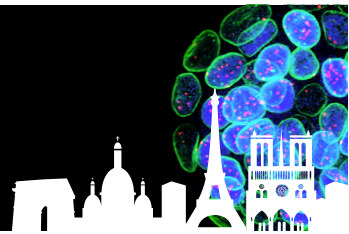
Lunch



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## WEDNESDAY, OCTOBER 16<sup>TH</sup>

**2:00pm - 4:00pm**

### SESSION 2

#### MOTILITY AND POLARITY

**2:00 - 2:30pm**

**Design principles of early animals:  
Insights from Cnidaria**

*Aissam IKMI*

**2:30 - 3:00pm**

**How large cells do it? :  
Division positioning in early embryos**

*Nicolas MINC*

**2:30 - 3:30pm**

**Molecular dissection of actin-based cell edge  
protrusion using advanced imaging and genetics**

*Klemens ROTTNER*

3:30 - 3:45pm

Selected talk from abstracts

3:45 - 4:00pm

Selected talk from abstracts

**4:00 - 4:20pm**

**Coffee and break around partners**

**4:20 - 5:05pm**

### SESSION 3 (Part. 1)

#### SIGNALING AND PATTERNING

**4:20 - 4:50pm**

**Timekeeping *C. elegans* post-embryogenesis  
with pulsatile miRNA transcription**

*Wolfgang KEIL*

4:50 - 5:05pm

Selected talk from abstracts

**5:05 - 5:55pm**

**SBCF and SFBD awards**

*(session open to the general public)*

**6:00 - 6:40pm**

**Outreach: General Public Seminar  
Les Cellules - Une histoire de la vie**

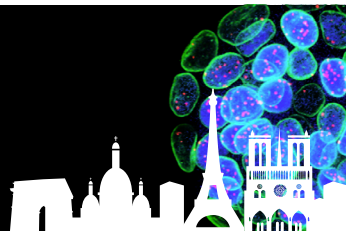
*Christian SARDET*

*Chercheur émérite, CNRS / Univ. Sorbonne, IMEV Villefranche sur Mer*

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## THURSDAY, OCTOBER 17<sup>TH</sup>

8:30 - 9:00am

Welcoming participants

9:00 - 10:15am

**SESSION 3 (Part. 2)**

**SIGNALING AND PATTERNING**

9:00 - 9:30am

**Communication tba**

*Eugenia PIDDINI*

9:30 - 10:00am

**Interorganelle communication regulates growth factor signaling**

*Sara SIGISMUND*

10:00 - 10:15am

Selected talk from abstracts

10:15 - 12:55pm

**SESSION 4**

**CELL CYCLE, CELL GROWTH & MORPHOGENESIS**

10:15 - 10:45am

**Clearing an awesome organelle: mechanisms of centriole elimination**

*Pierre GÖNCZY*

10:45 - 11:00am

Selected talk from abstracts

11:00 - 11:20am

**Coffee and break around partners**

11:20 - 12:10pm

**Communication tba**

*Nicoletta PETRIDOU*

12:10 - 12:40pm

**Traffic control on the DNA template**

*Patrick H. O'FARRELL*

12:40 - 12:55pm

Selected talk from abstracts

12:55 - 1:10pm

**7 Flash Talks**

1:10 - 2:10pm

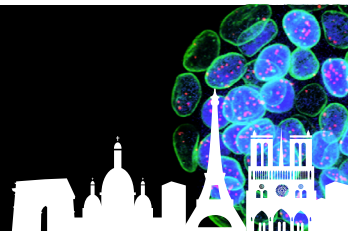
**Lunch**

- 6 -

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## THURSDAY, OCTOBER 17<sup>TH</sup>

2:10 - 3:50pm

Poster Session 1

3:50 - 4:00pm

Coffee and break around partners

4:00 - 6:00pm

SESSION 5

### MECHANOBIOLOGY ACROSS SCALES

4:00 - 4:30pm

**The origami of life: building a functional heart**

*Rashmi PRIYA*

4:30 - 5:00pm

**Mechanical strain focusing at topological defect sites in regenerating Hydra**

*Kinneret KEREN*

5:00 - 5:30pm

**Cross-talk between cell mechanics, cell shape and cell fate**

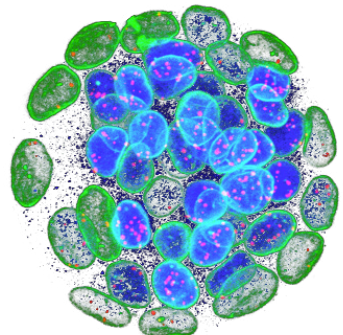
*Ewa PALUCH*

5:30 - 5:45pm

Selected talk from abstracts

5:45 - 6:00pm

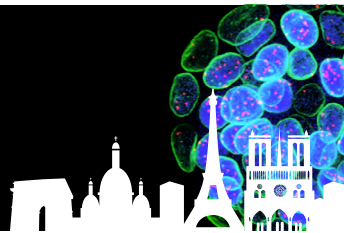
Selected talk from abstracts



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## FRIDAY, OCTOBER 18<sup>TH</sup>

8:30 - 9:00am

Welcoming participants

9:00 - 11:00am

SESSION 6

**SYNTHETIC BIOLOGY FROM MOLECULES TO ORGANS**

9:00 - 9:30am

**Tissue morphogenesis and cell fate dynamics  
in the early mouse embryo**

*Ivan BEDZHOV*

9:30 - 10:00am

**Communication *tba***

*Sebastian STREICHAN*

10:00 - 10:30am

**The ins and outs of the microtubule tip control**

*Anna AKHMANOVA*

10:30 - 10:45am

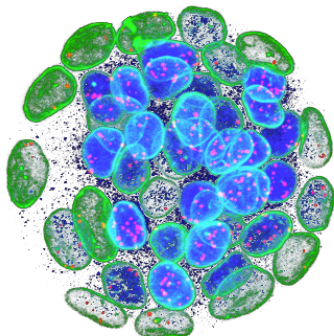
Selected talk from abstracts

10:45 - 11:00am

Selected talk from abstracts

11:00 - 11:20am

Coffee and break around partners

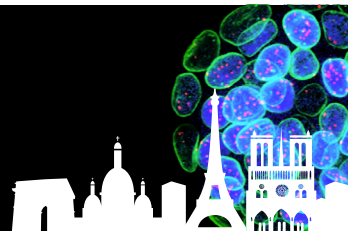




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## FRIDAY, OCTOBER 18<sup>TH</sup>

11:20 - 12:50pm

### SESSION 7

#### PHYSIOLOGY METABOLISM & DISEASES

11:20 - 11:50am

**Adjusting organ size during *Drosophila* development**

*Pierre LEOPOLD*

11:50 - 12:20pm

**Pressure sensing and responses of lysosomes**

*Spencer FREEMAN*

12:20 - 12:35pm

Selected talk from abstracts

12:35 - 12:50pm

Selected talk from abstracts

12:50 - 1:05pm

**7 Flash Talks**

1:05 - 2:00pm

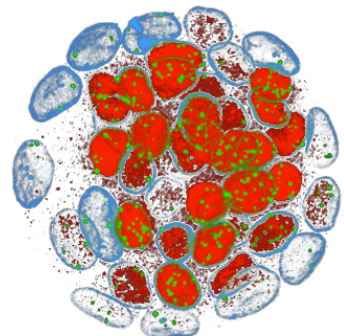
**Lunch**

2:00 - 3:45pm

**Poster Session 2**

3:45 - 4:00pm

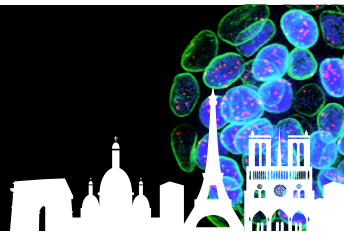
**Coffee break around partners**



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## FRIDAY, OCTOBER 18<sup>TH</sup>

4:00 - 6:00pm

SESSION 8

### EVOLUTION & CO-EVOLUTION

4:00 - 4:30pm

**From genotype to phenotype  
in leaf development and evolution**

*Miltos TSIANTIS*

4:30 - 5:00pm

**The evolution of cell fate specification modes  
in spiral cleavage**

*Chema MARTIN-DURAN*

5:00 - 5:30pm

**Mechanisms and evolution of programmed-DNA  
elimination in nematode embryos**

*Marie DELATTRE*

5:30 - 5:45pm

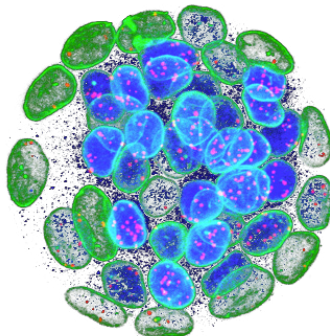
Selected talk from abstracts

5:45 - 6:00pm

Selected talk from abstracts

8:30pm

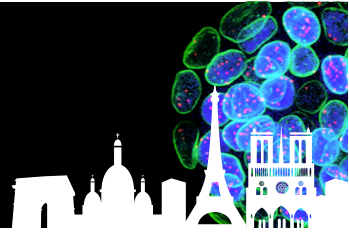
**CONGRESS DINNER**



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## SATURDAY, OCTOBER 19<sup>TH</sup>

8:30 - 9:00am

Welcoming participants

9:00 - 11:00am

### SESSION 9

### STEM CELLS, CELL FATE AND REGENERATION

9:00 - 9:30am

**Multipotency, fate choices and cellular behaviors in the cardiopharyngeal lineage**

*Lionel CHRISTIAEN*

9:30 - 10:00am

**Building the human lungs: Lessons from organoids and gene editing**

*Emma RAWLINS*

10:00 - 10:30am

**Epigenetic mechanisms of cellular plasticity**

*Maria-Elena TORRES-PADILLA*

10:30 - 10:45am

Selected talk from abstracts

10:45 - 11:00am

Selected talk from abstracts

11:00 - 11:15am

Coffee Break around partners

11:15 - 11:45pm

Session Tribute M. Bornens

11:45 - 12:25pm

**Keynote Lecture**

**Genome regulation: Properties and function during embryonic development**

*Eileen E. FURLONG*

12:25 - 12:35pm

Closing remarks

