Invited speakers:

Kevin ALESSANDRI - FR
David BENSIMON – FR
Timo BETZ – GR
Mathieu COPPEY – FR
Stéphanie DESCROIX – FR
Silvia FRE – FR
Roger KAMM – US
Lukas KAPITEIN - NL
Jean-Léon MAITRE - FR
Michiyuki MATSUDA – JP
Franck PEREZ – FR
Matthieu PIEL – FR
Aurelien ROUX – CH
Manuel THÉRY – FR
Maria VARTIAINEN – FI
Michael WAY - UK

Scientific organizers :

Danijela VIGNJEVIC
Institut Curie, FR

Guillaume MONTAGNAC
Institut Gustave Roussy, FR

Stéphanie MISEREY-LENKEI
Institut Curie, FR

Institut Curie- 11 rue Pierre et Marie Curie
75005 Paris, France

2nd Course

Cell Biology and Cancer

A Training Unit international course in partnership with CelTisPhyBio LABEX and Sorbonne Université
Paris, June 3rd – 7th 2019

Program

Monday June 3rd 2019

Amph. Hélène Martel-Massignac

08:45 – 09:30
Welcoming and Introduction

9:30 – 10:30 D. Matic Vignjevic, G. Montagnac, S. Miserey-Lenkei
Opening remarks

10:30 - 11:00 Break BDD Hall

11:00 – 12:00 Mathieu COPPEY
Optogenetic dissection of cell polarity and migration

12:00 – 13:00 David BENSIMON
Inducing cancer in single cells with light

13:00 – 14:30 Lunch Green Cafe

14:30 – 15:30 Kevin ALESSANDRI
TBA

15:30 - 16:30 Frank PEREZ
Systematic analysis of intracellular transport routes

16:30 - 17:00 Break BDD Hall

17:00 – 21:00 Chez Marie
Students' presentations
&
Dinner

Tuesday June 4th 2019

Amph. Hélène Martel-Massignac

9:30 – 10:30 Jean-Léon MAITRE
Mechanics of blastocyst morphogenesis

10:30 - 11:00 Break BDD Hall

11:00 – 12:00 Lukas KAPITEIN
Super-resolution microscopy (STED and single-molecule localization microscopy)

12:00 – 13:00 Lukas KAPITEIN
Using light to dissect and direct intracellular transport

13:00 – 14:00 Lunch Green Cafe

14:00 – 15:00 Aurélien ROUX
Buckling of epithelium growing under spherical confinement

15:00 - 15:30 Break BDD Hall

15:30 - 16:30 Aurélien ROUX
Buckling of epithelium growing under spherical confinement

17:00 – 21:00 Chez Marie
Students' presentations
&
Dinner

Wednesday June 5th 2019

Amph. Hélène Martel-Massignac

9:30 – 10:30 Manuel THERY
Structural and mechanical characterization of cancerous invasive states

10:30 - 11:30 Museum Visit

11:30 – 12:30 Manuel THERY
Structural and mechanical characterization of cancerous invasive states

12:30 – 13:30 Matthieu PIEL
TBA

13:30 – 14:30 Lunch Green Cafe

14:30 – 15:30 Stéphanie DESCROIX
Organ on chip new in vitro models for biology and biophysics

15:30 - 16:00 Break BDD Hall

16:00 - 17:00 Matthieu PIEL
TBA

17:00 – 21:00 Chez Marie
Life and Science
&
Dinner

Thursday June 6th 2019

Amph. Hélène Martel-Massignac

9:30 – 10:30 Roger KAMM
Microphysiological models for metastatic cancer

10:30 - 11:00 Break BDD Hall

11:00 – 12:00 Michiyuki MATSUDA
Two decades of genetically encoded biosensors based on Förster resonance energy transfer

12:00 – 13:00 Roger KAMM
Models for immuno oncology

13:00 – 14:30 Lunch Green Cafe

14:30 – 15:30 Michiyuki MATSUDA
Propagation waves of ERK MAP kinase activity during collective cell migration of epithelial cells

15:30 - 16:00 Break BDD Hall

16:00 - 17:00 Silvia FRE
Intestinal organoids: a model to study stem cell homeostasis and cell-cell interactions

Friday June 7th 2019

Amph. Hélène Martel-Massignac

9:30 – 10:30 Timo BETZ
Learning from Fluctuations: How noise can teach us the active forces in memrbanes and the cytoplasm

10:30 - 11:00 Break BDD Hall

11:00 – 12:00 Michael WAY
TBA

12:00 – 13:00 Timo BETZ
Walk my way: Collective migration in development and cancer

13:00 – 14:30 Lunch Green Cafe

14:30 – 15:30 Maria VARTIAINEN
Actin' in the nucleus

15:30 - 16:00 Break BDD Hall

16:00 - 17:00 Michael WAY
New levels of complexity in Arp2/3 driven actin polymerization

17:00 – 19:00 Chez Marie
Certificates
&
Cocktail dinner