

Monday, March 31<sup>st</sup>

# PSL-Qlife Quantitative Biology Spring School 2025, March 31st – April 4th

## Cell Dynamics in Developmental Systems

8:45 – 9:00 am Welcome Coffee

Tuesday, April 1st

Wednesday, April 2nd

Thursday, April 3<sup>rd</sup>

Friday, Friday April 4<sup>th</sup>

9:00 – 9:20 am

**Yohanns Bellaïche & Patrick Charnay**

Introduction

8:45 - 9:00 am Morning Coffee

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8:45 - 9:00 am Morning Coffee

8:45 - 9:00 am Morning Coffee

9:20 - 10:30 am

**Kate Mc Dole**

TBA

9:00 – 10:15 am

**Lorette Noiret**

Introduction to Single-Cell RNA-Seq: Analysis and Applications

9:00 - 10:15 am

**Florence Cavalli**

Full transcriptome spatial transcriptomics and its application to cancer

9:00 - 10:15 am

**Hervé Turlier**

TBA

9:00 – 10:15 am

**Patrick Lemaire**

Digital ascidian embryos: natural variation and the logical rules of animal embryogenesis

10:30 - 11:00 am Coffee break

10:15 – 10:45 am Coffee break

10:15 - 10:45 am Coffee break

10:15 - 10:45 am Coffee break

10:15 - 10:45 am Coffee break

11:00 - 12:00 am

**Jean-Yves Tinevez**

TBA

10:45 – 12:00 am

**Stein Aerts**

TBA

10:45 - 12:00 am

**Thierry Voet**

TBA

10:45 - 12:00 am

**Geneviève Dupont**

Minimal models of gene regulatory networks underlying mammalian development

10:45 – 12:00 am

**Adrien Leroy**

TBA

12:00 – 1:15 pm Lunch

12:00 - 1:30 pm Lunch

12:00 - 1:30 pm Lunch

12:00 - 1:30 pm Lunch

12:00 - 1:30 pm Lunch

1:15 - 2:00 pm

**Student presentations (Flash talks)**

2:00 - 5:30 pm

Digital workshop

**Cellular Segmentation Tools for Developmental Biology with Artificial Intelligence**

Jean Yves Tinevez  
Minh-Son Phan  
Gaëlle Letort

2:00 - 5:30 pm

Digital workshop

**Image Analysis using Deep Learning**

Emmanuel Faure

1:30 – 5:00 pm

Digital workshop

**Single-cell seq analysis pipeline**

Lorette Noiret  
Nathalie Lehmann

1:30 – 5:00 pm

Digital workshop

**Single-cell seq analysis pipeline**

Lorette Noiret  
Nathalie Lehmann

1:30 - 5:00 pm

Digital workshop

**Spatial transcriptomics at a subcellular resolution**

Vincent Laville  
Lieng Taing

1:30 - 5:00 pm

Digital workshop

**Spatial transcriptomics for cancer reasearch**

Florence Cavalli  
Lucie Gaspard-Boulinç

1:30 - 5:00 pm

Digital workshop

**Modeling and inference of tissue mechanics**

Hervé Turlier

1:30 - 5:00 pm

Digital workshop

**Modeling of minimal gene regulatory networks**

Geneviève Dupont  
Didier Gonze

1:30 - 5:00 pm

Digital workshop

**Exploring Cell Fate Decisions by Integrating Morphogenetic and Gene Expression Data**

Patrick Lemaire  
Nassif Saab

1:30 - 5:00 pm

Digital workshop

**Identifying Regulators of Tissue Dynamics via Spatial Transcriptomics**

Adrien Leroy  
Rémi Pigache

5:30 - 6:00 pm Coffee break

5:00 – 5:30 pm Coffee break

5:00 - 5:30 pm Coffee break

5:00 - 5:30 pm Coffee break

5:00 - 5:30 pm Coffee break

6:00 - 7:00 pm

**Pavel Tomancak**

TBA

5:30 - 6:30 pm

**James Briscoe**

TBA

5:30 - 6:30 pm

**Alessandro De Simone**

TBA

5:30 - 6:30 pm

**Edouard Hannezo**

TBA

5:30 – 6:00 pm

**Closing remarks**

7:30 pm

**Faculty dinner**

6:30 pm- 8:30 pm

**Poster session I  
Wine & Cheese**

6:30 pm – 8:30 pm

**Poster session II  
Cocktail**