

Monday, March 31st

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

Cell Dynamics in Developmental Systems

8:45 – 9:00 am Welcome Coffee

9:00 – 9:20 am
Yohanns Bellaïche & Patrick Charnay
Introduction

9:20 - 10:30 am
Kate Mc Dole
TBA

10:30 - 11:00 am Coffee break

11:00 - 12:00 am
Jean-Yves Tinevez
TBA

12:00 – 1:15 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

Tuesday, April 1st

8:45 - 9:00 am Morning Coffee

9:00 – 10:15 am
Lorette Noiret
Introduction to Single-Cell RNA-Seq:
Analysis and Applications

10:15 – 10:45 am Coffee break

10:45 – 12:00 am
Stein Aerts
TBA

12:00 - 1:30 pm Lunch

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

Wednesday, April 2nd

8:45 - 9:00 am Morning Coffee

9:00 - 10:15 am
Florence Cavalli
Full transcriptome spatial transcriptomics
and its application to cancer

10:15 - 10:45 am Coffee break

10:45 - 12:00 am
Thierry Voet
TBA

12:00 - 1:30 pm Lunch

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

Thursday, April 3rd

8:45 - 9:00 am Morning Coffee

9:00 - 10:15 am
Hervé Turlier
TBA

10:15 - 10:45 am Coffee break

10:45 - 12:00 am
Geneviève Dupont
Minimal models of gene regulatory networks
underlying mammalian development

12:00 - 1:30 pm Lunch

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

Friday, Friday April 4th

8:45 - 9:00 am Morning Coffee

9:00 – 10:15 am
Patrick Lemaire
Digital ascidian embryos: natural
variation and the logical rules of animal
embryogenesis

10:15 - 10:45 am Coffee break

10:45 – 12:00 am
Adrien Leroy
TBA

12:00 - 1:30 pm Lunch

1:30 - 5:00 pm
Digital workshop

Exploring Cell Fate Decisions by Integrating Morphogenetic and Gene Expression Data

Patrick Lemaire

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

6:00 - 7:00 pm
Pavel Tomancak
TBA

5:00 – 5:30 pm Coffee break

5:30 - 6:30 pm
James Briscoe
TBA

6:30 pm- 8:30 pm
**Poster session I
Wine & Cheese**

5:00 - 5:30 pm Coffee break

5:30 - 6:30 pm
Alessandro De SImone
TBA

7:30 pm
Faculty dinner

5:00 - 5:30 pm Coffee break

5:30 - 6:30 pm
Edouard Hannezo
TBA

6:30 pm – 8:30 pm
**Poster session II
Cocktail**

5:00 - 5:30 pm Coffee break

5:30 – 6:00 pm
Closing remarks