

Biophysics Summer School – Days 1–8 Schedule

Day 1 – Mon, July 7

1 pm – 5 pm

Registration at Xenia

Registration, room setup. Free time.

5:00 pm

Welcome and Useful Info — Organizers

7:30 pm

Welcome Dinner

Day 2 – Tue, July 8

9:15 am

Introduction to Biophysics. Historical note and Fundamentals — Eleni Katifori

10:25 am

Mechanics of Morphogenesis – I — Pierre-François Lenne

11:35 am

Coffee break

12:05 pm

Ice-breaker I: 2 min presentations of all participants

1:15 pm

Lunch break / Visit Fortezza (castle)

3:00 pm

Introduction to the microtubule cytoskeleton — Meredith Betterton

4:10 pm

Ice-breaker II: 2 min presentations of all participants

Day 3 – Wed, July 9

9:15 am

Biophysical Complexity in Morphogenesis and Development – I — Carl Modes

10:25 am

Mechanics of Morphogenesis – II — Pierre-François Lenne

11:35 am

Coffee break*12:05pm***Computational workshop – Turing Patterns Intro — Katifori/Vavylonis***1:15pm***Lunch break / Archaeological museum visit***3:00pm***Computational Workshop — Victor Chardes***5:40pm***Poster session I – snacks**

Day 4 – Thu, July 10

*9:15am***Multi-level studies of Developmental Morphogenesis – I — Tassos Pavlopoulos***10:25am***Modeling approaches for cytoskeletal biophysics — Meredith Betterton***11:35am***Coffee break***12:05pm***Inferring biology from single cell-omics data — Michael Layden***1:15pm***Free afternoon**

Day 5 – Fri, July 11

*9:15am***Computational Workshop — Victor Chardes***11:40am***Coffee break***12:00pm***Mechanics of Morphogenesis III — Pierre-François Lenne***1:15pm***Lunch break***3:00pm***Biophysical Complexity in Morphogenesis and Development – II — Carl Modes***4:15pm***New forms of transport and long-range interactions along microtubules — Meredith Betterton***5:15pm***Meet the speaker: 3 × 20-min slots (all Speakers)**

6:15pm

Poster session II – snacks

Day 6 – Sat, July 12

10:00am

Multi-level studies of Developmental Morphogenesis – II — Tassos Pavlopoulos

10:50am

Image Analysis computer workshop — Tassos Pavlopoulos

11:45am

Coffee break

12:15pm

Image Analysis computer workshop (continued) — Tassos Pavlopoulos

1:15pm

Lunch break

2:45pm

The role of cnidarian neurobiology in understanding evolution and regeneration — Michael Layden

3:50pm

Biophysical Complexity in Morphogenesis and Development III — Carl Modes

5:00pm

Dynamics of embryonic cleavage divisions — Stas Shvartsman

Day 7 – Sun, July 13

10:00am

The right tool for the right question: Key considerations in building computational models — Adam Lamson

11:00am

Dynamic excitability — Prabal Negi

11:40am

Coffee break

12:15pm

Cell patterning for division and growth — Dimitris Vavylonis

1:15pm

Lunch break

3:00–5:00pm

Computational Workshop on Molecular Dynamics — Dimitris Vavylonis

Day 8 – Mon, July 14

10:00 am

Q&A, research opportunities in biophysics, resources, discussion, feedback

11:00 am–12:00 pm

Checkout