

Quantitative Seascape Ecology of Marine Plankton *PSL-Qlife Winter school March 4-8, 2024*

Monday March 4th

8.45-9.00 am **Welcome coffee**
Cafeteria

9.00-9.10 am **Patrick Charnay**
Room Favard

9.10-10.50 am **Maurizio Ribera**
Biotic responses to plankton problems
Room Favard

10.50-11.15 am **coffee break**
Cafeteria

11.15-12.15 am **Sakina Ayata**
Ecology of marine plankton - an introduction
Room Favard

12.15-1.45 pm **lunch**
Room 316, Room 324

1:45 - 3:00 pm
Students flash talks
Room 316

3.00 – 3.30 pm **coffee break**
Room 324

3.30-5.00 pm **Lucie Bittner & Magali Lescot**
Marine Omics web services
Room 316

5.00-5.30 pm **coffee break**
Room 324

5.30-7.00 pm **Chris Bowler & Matt Sullivan**
Exploring the seascape with Tara Oceans
Ocean viruses: How Tara Oceans has transformed our understanding of the virosphere. *Room 316*

Tuesday March 5th

8.45-9.00 am **Coffee**
Cafeteria

9.00-10.00 am **Tom Delmont & Lucas Paoli**
Environmental genomics with Tara Oceans
Room Favard

10.00-11.00 am **Sakina Ayata**
Studying marine plankton using quantitative imaging
Room Favard

11.00-11.30 am **coffee break**
Cafeteria

11.30-12.15 am **Hugues Roest Crollius**
ATLASea: sequencing marine biodiversity along the French coastline
Room Favard

12.15-1.30 pm **lunch**
Room 316, Room 324

1.30-5.00 pm
Digital workshop

Environmental genomics with Tara Oceans

T. Delmont
L. Paoli
L. Campese

Room 313

1.30-5.00 pm
Digital workshop

Studying marine plankton using quantitative imaging

S. Ayata
L. Drago

Room 321

5.00-5.30 pm **coffee break**
Room 324

5.30-6.30 pm **Flora Vincent**
Symbiosis in marine unicellular eukaryotes: a quantitative approach
Room Favard

6.30-8:30 pm
Poster session I
Room 316

Wednesday March 6th

9.15-9.30 am **Coffee**
Cafeteria

9.30-10.30 am **Samuel Chaffron**
Community network models to reveal marine plankton systems ecology and evolution
Room Favard

10.30-11.00 am **coffee break**
Cafeteria

11.00-12.00 am **Quentin Carradec & Eric Pelletier**
Functional characterization of complex communities from metatranscriptomic
Room Favard

12.00-1.30 pm **lunch**
Room 316, Room 324

1.30-5.00 pm
Digital workshop

Species community networks inference and analysis

S. Chaffron
C. Gouzien

Room 313

1.30-5.00 pm
Digital workshop

Functional characterization of complex communities from metatranscriptomic data

Q. Carradec
E. Pelletier
J. Pierella

Room 321

5.00-5.30 pm **coffee break**
Room 324

5.30-6.30 pm **Adam Martiny**
Observing ocean changes through the lens of microorganisms
Room 316

7.30 pm
Dinner for speakers and TA

Thursday March 7th

8.45-9.00 am **Coffee**
Cafeteria

9.00-10.30 am **Olivier Jaillon & Daniele Iudicone**
Plankton Genomics Biogeography in the Seascape
Room Favard

10.30-11.00 am **coffee break**
Cafeteria

11.00-12.00 am **Colomban De Vargas**
Plankton mega-evolution
Room Favard

12.00-1.30 pm **lunch**
Room 316, Room 324

1.30-5.00 pm
Digital workshop

Spatial species distribution modelling

P. Fremont
M. Crédeville
L. Pavlovic
T. Lemane

Room 313

1.30-5.00 pm
Digital workshop

Macroevolutionary models for species diversification analyses

J. Andréoletti
B. Perez
S. Lambert

Room 321

5.00-5.30 pm **coffee break**
Room 324

5.30-6.30 pm **Rogier Braakmann**
Self-organization of ocean microbial ecosystems over geologic time
Room Favard

6.30-8:30 pm
**Poster session II
Cocktail**
Room 316

Friday March 8th

8.45-9.00 am **Coffee**
Cafeteria

9.00-10.30 am **Marina Levy & Ben Ward**
Open ocean modelling of the plankton seascape
Room Favard

10.30-11.00 am **coffee break**
Cafeteria

11.00-12.00 am **Damien Eveillard**
Metabolic modeling of planktonic (eco)systems
Room Favard

12.00-1.30 pm **lunch**
Room 316, Room 324

1.30-5.00 pm
Digital workshop

Applications of metabolic modelling, from organisms to ecosystems

D. Eveillard
L. Paré

Room 313

1.30-5.00 pm
Digital workshop

Open ocean ecosystem modelling

O. Aumont
L. Bopp
C. Ethé
R. Person

Room 321

5.00-5.30 pm **coffee break**
Room 324

5.30-6.30 pm **Laurent Bopp**
Impact of climate change on ecosystem modelling
Room 316

5.30-6.30 pm
Conclusion
Room 316