

Quantitative ecological genomics in the Tara Ocean *PSL-Qlife Winter school - March 29th-April 2nd 2021*

Monday March 29th

9.15–9.30 am **P. Charnay** (intro)

Tuesday March 30th

Wednesday March 31st

Thursday April 1st

Friday April 2nd

9.30–11.00 am **C. Bowler**
Introduction to Tara Oceans

9.30–10.30 am **L. Zinger, N. Henry**
Community ecology with DNA metabarcoding

9.30–10.30 am **P. Wincker**
Functional metagenomics

9.30–10.30 am **S. Chaffron**
Species community networks

9.30–10.30 am **D. Eveillard**
Metabolic modelling, an overview

10.30–11.00 am break

10.30–11.00 am break

10.30–11.00 am break

10.30–11.00 am break

11.00–11.30 am break

11.00–12.00 am **H. Morlon, C. De Vargas**
Macroevolution

11.00–12.00 am **A. Madoui**
Population genomics

11.00–12.00 am **F. Lombard**
Morphology-based/trophic analysis

11.00–12.00 am **D. Iudicone**
Species distribution modelling in the seascape

12.00–1.00 pm lunch

12.00–1.00 pm lunch

12.00–1.00 pm lunch

12.00–1.00 pm lunch

12.30–1.30 pm lunch

1.30–5.00 pm
Numerical workshop
Open ocean ecosystem modelling

M. Levy, O. Aumont
R. Person, C. Ethe
L. Bopp

1.30–5.00 pm
Numerical workshop
Modelling the dynamics of ecological communities

S. Suweis

1.00–5.00 pm
Numerical workshop
Metabar coding

N. Henry

1.00–5.00 pm
Numerical workshop
Macroevolution

H. Morlon
C. De Vargas
S. Lambert

1.00–5.00 pm
Numerical workshop
Functional characterization of complex communities from metatranscriptomic data

Q. Carradec,
E. Pelletier,
J. Pierella

1.00–5.00 pm
Numerical workshop
Methods for metagenomics-based population genomics

A. Madoui

1.00–5.00 pm
Numerical workshop
Species community networks inference and analysis

S. Chaffron

1.00–5.00 pm
Numerical workshop
Morphology based /trophic analysis

F. Lombard
J-O. Irisson
S. Ayata

1.00–5.00 pm
Numerical workshop
Applications of metabolic modellings, from organisms to ecosystems

D. Eveillard

1.00–5.00 pm
Numerical workshop
Spatial species distribution modelling

O. Jaillon

5.00–6.00 pm break

5.00–6.00 pm break

5.00–6.00 pm break

5.00–6.00 pm break

5.00–6.00 pm break

6.00–7.00 pm **J. Weitz**
Viral impacts on marine microbes, populations, and ecosystem functioning

6.00–7.00 pm **S. Louca**
Genomics for microbial macroevolution

6.00–7.00 pm **V. Armbrust**
TBA

6.00–7.00 pm **K. Patil**
From metagenomes to community metabolic models

6.00–7.00 pm **L. Bopp**
Impact of climate change on ecosystem modelling

7.00–7.15 pm break

7.00–7.15 pm break

7.00–7.15 pm break

7.00–7.15 pm break

7.15–8.45 pm
Flash talks

7.15–8.45 pm
Poster session 1

7.15–8.00 pm
Poster session 2

7.15–8.45 pm
Poster session 3