



CeMEB Autumn Assembly 2024 – Programme 22–24th October at Tjärnö

With reservation for changes...

Hybrid version available via Zoom:

Passcode:

Tuesday 22th October

10.00 Fika (Coffee & tea)

10.30 – 12.00 Big lecture hall – Presentations

- **Welcome and introduction by the CeMEB Steering committee (Pierre De Wit)**

Chair: Andreas Wallberg

- **Invited speaker: Carl Nettelblad – *Unleashing the Power of Machine Learning in Life Sciences***

12.00 Lunch

13.30 – 15.00 Big lecture hall – Presentations

Chair: Simon Henriksson

- **Claudia Lacroix – *Are Atlantic cod mating vocalisations a barrier to gene flow within a coastal hybrid zone?***

- **Jake Goodall – *Atlantic herring – Evolution of novel biodiversity in the young Baltic Sea***

Chair: Leyi Su

- **Cynthia Riginos – *Introgression shapes adaptive diversity in Acropora cryptic corals on the Great Barrier Reef***

- **Andreas Wallberg – *Hues of blues: Using Comparative Genomics and Machine Learning to Uncover the Evolutionary Ecology of Color Vision in Krill***

15.00 Fika

15.30 – 18.00 Big lecture hall – Presentations

Chair: Per Unneberg

- **Invited speaker: Sara Mathieson – *Interpreting deep learning methods for population genetic inference***

Chair: Pierre De Wit

- **Per Unneberg – *Enhancing Population Genomics with New and Scalable Methods: Insights from NBIS***

- **Invited speaker: Matteo Fumagalli – *Generative models for demographic inferences from population genetic data***

18.00 Dinner & Pub

Pub in white dormitory





Wednesday 23rd October

8:00 – 09.00 Breakfast

09.00 – 10.00 Big lecture hall – Presentations

Chair: Jake Goodall

- **Pierre De Wit** – *Mapping the invasion potential of the Pacific oyster in the Baltic Sea through quantitative genetics, adaptation genomics and dispersal modeling*
- **Cheng Ma** – *Copy Number Variation in Hatching Enzyme Genes: A Mechanism for Salinity Adaptation in Herring*
- **Matthew W Gray** – *Exaptation and Resilience of Brooding Oysters to Ocean Acidification: Implications for Restoration in a Changing Climate*

10.00 Fika

This fika includes Steering Committee-tea with PhD students

10.30 – 12.30 Big lecture hall – Discussions

Introduction to group discussions

Group discussions according to topic of interest

Summary of discussions in big lecture hall

12.30 Lunch

14.00 – 15.00 Walk & Talk

15.00 Fika

15.30 – 16.10 Big lecture hall – Keynote discussion panel

Discussion panel with invited keynote speakers

16.10 – 16.50 Big lecture hall – Presentations

Chair: Matthew W Gray

- **Leyi Su** – *Codon Usage Bias and Selection Patterns in Atlantic Herring*
 - **Nauras Daraghmeh** – *Chromosomal inversions in the seaweed fly *Coelopa frigida**
- Scheduled break*

17.15 – 18.15 Big lecture hall – Presentations

Chair: Andreas Wallberg

- **Invited speaker: Chris C Smith** – *Deep learning applications in spatial population genetics*

18.15 – 19.00 Poster session with snacks, outside the Big lecture hall

19.00 Conference dinner & Pub





Thursday 24th October

8:00 – 09.00 Breakfast

09.00 – 10.00 Big lecture hall – Presentations

Chair: Ola Svensson

- **Kerstin Johannesson** – *The past, the present and the future of a Baltic Sea foundation seaweed*
- **Ryan Daniels** – *Batch effects in NGS/Array data*
- **David Poling** – *Automated Monitoring of Coastal Cod in Raet National Park*

10.00 Fika

10.30 – 12.30 Big lecture hall – Discussions

Introduction to group discussions

Group discussions according to topic of interest

Summary of discussions in big lecture hall

12.30 Lunch

13.30 – 14.00 Future topics, future CeMEB

Summary and closing the meeting

14.00 Fika

14.28 – Departure from Tjärnölabbet with bus 891. Connection to Gothenburg from Strömstad with bus 871/841 at 15.20 (exchange at Torp Terminalen).

