

Program

Sunday 23 April, 2023

17.30 Meet and Greet at Hotel Concordia

18.30 Dinner at Hotel Concordia

Monday 24 April, 2023

08.30 - 09.00 **Course Introduction**

Vasili Hauryliuk, Lund University, Sweden

Biosketch on [page 9](#)

Toomas Mets, Lund University, Sweden/Tartu University, Estonia

Biosketch on [page 10](#)

Lectures — Chairperson: Vasili Hauryliuk

09.00 - 09.45 **Bacteriophages - From the Fundamentals of Molecular Biology to the BASEL Collection**

Alexander Harms, ETH Zürich, Switzerland

Biosketch on [page 11](#)

09.45 - 10.00 **Questions & Discussion**

10.00 - 10.15 **Break**

10.15 - 11.00 **Bacteriophages - The Unexplored Treasure Chest of Medicines within the Tropical Rainforests**

Thomas Sicheritz-Pontén, University of Copenhagen, Denmark

Biosketch on [page 12](#)

11.00 - 11.15 **Questions & Discussion**

11.15 - 12.15 **Lunch**

12.15 - 13.00 **Insights into Phage Ecology to Inform Translation to the Clinic**

Martha R.J. Clokie, University of Leicester, England

Biosketch on [page 13](#)

13.00 - 13.15 **Questions & Discussion**

Lab work — Phage Isolation

13.15 - 14.15 **Collection of environmental samples around town ([Botanical Garden](#))**

14.15 - 15.00 **Preparation of the top agar and SM buffer and isolation of phages infecting *E. coli* BW25113 strain from the environmental samples**

15.00 - 15.15 **Break**

15.15 - 17.00 **Lab work continues**

18.30 **Dinner at Hotel Concordia**

Program

Tuesday 25 April, 2023

Lab work — Phage Isolation Continued & Phage Immunity Assays —

- 09.00 - 09.30** Picking plaques from the isolation plates and re-streaking
- 09.30 - 13.00** Immunity assays: *E. coli* BW25113 + pBR322-EcoRI and BW25113 transformed with pBR322-TA expression constructs vs BASEL phage collection
- 13.00 - 14.00** Lunch

Lectures — Chairperson: Toomas Mets —

- 14.00 - 14.45** **Using Bacteriophages to Control Plant Pathogenic Bacteria**
Ville Friman, University of Helsinki, Finland
Biosketch on [page 14](#)
- 14.45 - 15.00** **Questions & Discussion**
- 15.00 - 15.15** **Break**
- 15.15 - 16.00** **Bacterial CRISPR-Cas Immunity System**
Virginijus Šikšnys, Vilnius University, Lithuania
Biosketch on [page 15](#)
- 16.00 - 16.15** **Questions & Discussion**
- 16.15 - 17.00** **Phages, Engineered Phages and Phage Lysins: The Belgian Phage Valley**
Yves Briers, Ghent University, Belgium
Biosketch on [page 16](#)
- 17.00 - 17.15** **Questions & Discussion**
- 18.30** **Dinner at Hotel Concordia**

Program

Wednesday 26 April, 2023

Lab work — Phage Stocks, Titre, Confluence Plates & Escape Mutants —

09.00 - 10.30 Preparation of the phage lysate (working stock) from isolated phages

10.30 - 12.00 Determination of the phage titre

12.00 - 13.00 Lunch

13.00 - 14.00 Phage escape mutant assay

Lectures — Chairperson: Marcus Johansson —

14.00 - 14.45 **Phages as Master Regulator of Nutrient Cycles in Aquatic Environments**
Karin Holmfeldt, Linnaeus University, Sweden
Biosketch on [page 17](#)

14.45 - 15.00 **Questions & Discussion**

15.00 - 15.15 **Break**

15.15 - 16.00 **Understanding the Molecular Interplay between Phages and Their Host**
Rob Lavigne, KU Leuven, Belgium
Biosketch on [page 18](#)

16.00 - 16.15 **Questions & Discussion**

18.30 **Dinner at Hotel Concordia**

Program

Thursday 27 April, 2023

Lab work — Isolation of Escape Mutants Continued —

09.00 - 10.30 Streaking the phage escape mutants into single plaques

Lectures — Chairperson: Karin Ernits —

10.30 - 11.15 **Phage-Bacteria Interactions in Mucosal Conditions**

Gabriel Magno de Freitas Almeida, UiT The Arctic University of Norway, Norway
Biosketch on [page 19](#)

11.15 - 11.30 **Questions & Discussion**

11.30 - 12.30 **Lunch**

12.30 - 13.15 **Gene Sharing Networks Structure the Phage (Meta)Genomics Space**

Gipsi Lima-Mendez, University of Namur, Belgium
Biosketch on [page 20](#)

13.15 - 13.30 **Questions & Discussion**

13.30 - 13.45 **Break**

13.45 - 14.30 **Hundreds of Viral Families in the Human Gut Virome**

Shiraz Shah, COPSAC, Gentofte Hospital, Denmark
Biosketch on [page 21](#)

14.30 - 14.45 **Questions & Discussion**

18.30 **Dinner at Hotel Concordia**

Program

Friday 28 April, 2023

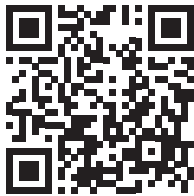
Lab work — **Verification of Phage Escape Mutants & Result Analysis** —

09.00 - 10.00 Working stocks of escape mutants and verification of the escape mutants with a spot assay - Data will be sent later

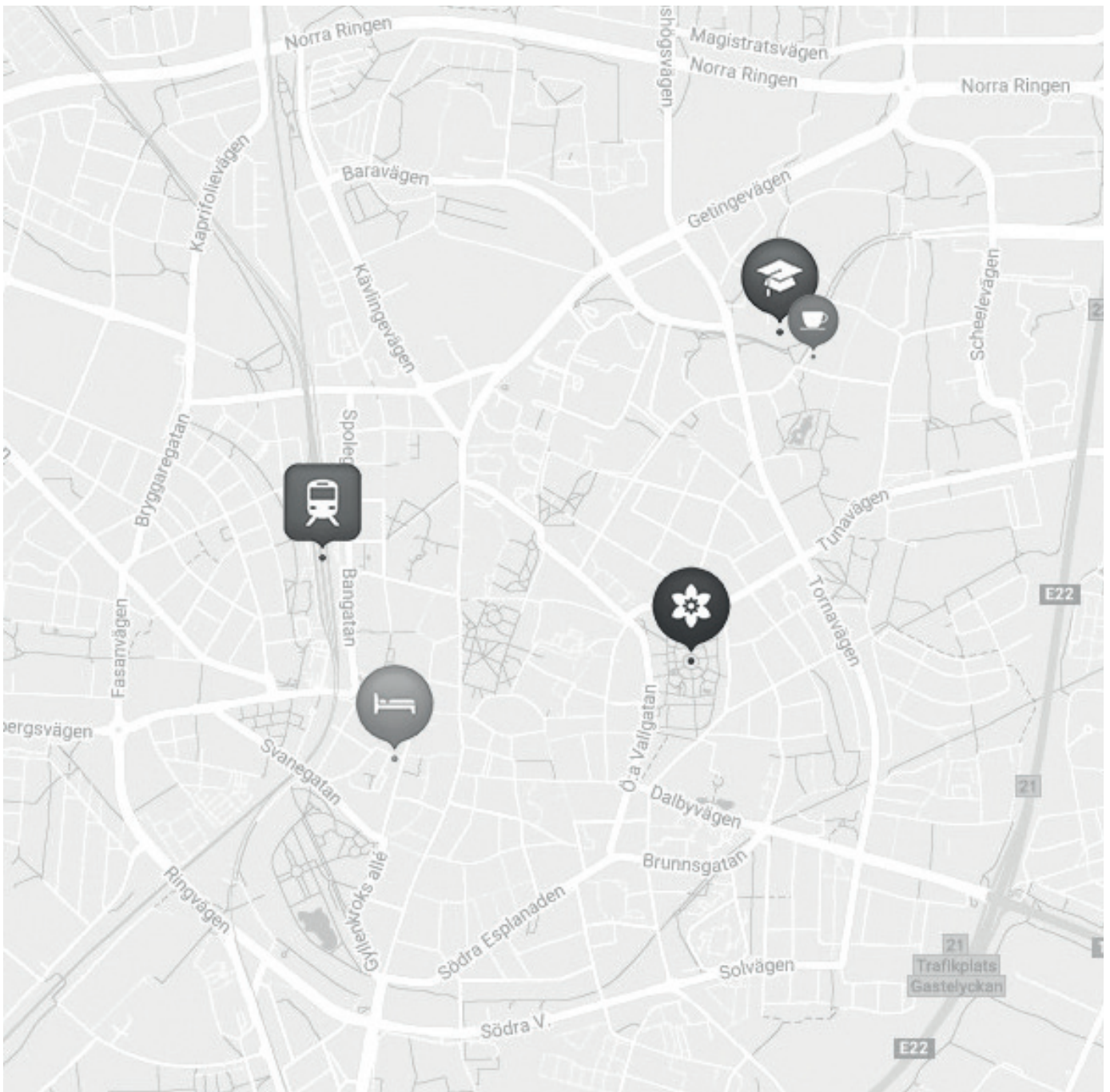
10.00 - 12.00 Discussion and data analysis of both the actual data and theoretical aspects of the course (oral examination)
Vasili Hauryliuk, Lund University, Sweden

12.00 - 13.00 Lunch

13.00 - 13.45 Concluding remarks, course evaluation, and certificates
<https://forms.gle/Lx7GGHBX6wcEhk5H9>



13.45 Departure



Addresses and Google map directions:

Lund Central Station:	Bangatan 1, 222 21 Lund
Hotel Concordia:	Stålbrogatan 1, 222 24 Lund
University (biology building):	Sölvegatan 35, 223 62 Lund
Lunch spot (Moroten & Piskan):	Sölvegatan 22B, 223 62 Lund
Botanical Garden:	Östra Vallgatan 20, 223 61 Lund

Central Station to Hotel



Hotel to University



University to Central Station

