



CROOS

SCHOOL PROGRAM

10-17 AUGUST, KYIV

10 August 2025

Mykoly Shpaka St, 3, Kyiv, Ukraine

10.00-10.30

REGISTRATION

10.30-11.30

OPENING CEREMONY:
WELCOME & PROGRAM OVERVIEW

ICU event hall

11.30-12.30

PUBLIC DISCUSSION:
Science, Industry, and Education Dialogue

ICU event hall

12.30-13.30

NETWORKING SESSION

ICU event hall

13.30-14.00

LUNCH BREAK

ICU event hall

14.00-15.00

ANASTASIJA ALEKSEIENKO

University of Tartu, Estonia

Large-scale population-specific studies
Offline, [ICU event hall](#)



15.00-15.30

Q&A + BREAK

ICU event hall

15.30-16.30

PHILIPP WEILER

Memorial Sloan Kettering Cancer Center &
Howard Hughes Medical Institute, USA

Introduction to single-cell genomics
Offline, [ICU event hall](#)



16.30-17.00

Q&A + BREAK

ICU event hall

17.00-18.00

SECRET ACTIVITY

ICU event hall

18.00-18.30

Q&A + WRAP UP

ICU event hall

11 August 2025

Mykoly Shpaka St, 3, Kyiv, Ukraine

9.00-10.00

ERIC BORTZ

University of Alaska Anchorage, USA

**Pathogenomics: Sequencing Technology
for Pathogen Discovery**
Offline, [ICU event hall](#)



10.00-10.30

Q&A + BREAK

[ICU event hall](#)

10.30-11.30

MYKHOLA PROTOPOPOV

Head of Computational Chemistry at
Chemspace, Ukraine

Structure-Guided Drug Design
Offline, [ICU event hall](#)



11.30-12.00

Q&A + BREAK

[ICU event hall](#)

12.00-13.15

JORAO PEDRO MAGALHAES

University of Birmingham, UK

**Tackling the complexity of ageing with
systems approaches**
Online, [ICU event hall](#)



13.15-14.00

LUNCH BREAK

14.00-15.00

PRACTICE:

2.15.2

Intro to Bio Data Science
with Klaudia Brzezińska

LECTURE + INTERACTIVE DISCUSSION:

4.08

ML in Biomedical Research
Dzvika Yarish (University of Tartu, Estonia)

15.00-15.30

Q&A + BREAK

15.30-16.30

PRACTICE:

2.15.2

**Bioinformatics Tools for
Pathogen Genome Annotation**
with Eric Bortz

PRACTICE:

2.15.1

Single Cell
with Philipp Weiler

PRACTICE:

4.08

Drug Discovery
with Diana Nechepurenko

16.30-17.00

Q&A + BREAK

17.00-18.00

PRACTICE:

2.15.2

Intro to GWAS
with Anastasiia Alekseenko

PRACTICE:

2.15.1

QTLs
with Dzvika Yarish

PRACTICE:

4.08

Secret Activity

18.00-18.30

Q&A + WRAP UP

12 August 2025

Mykoly Shpaka St, 3, Kyiv, Ukraine

9.00–10.00

LECTURE:

2.15.2

Intro to Bio Data Science
with Klaudia Brzezińska
(DM Tech, Poland)

LECTURE:

ICU Event Hall

Advanced topics in single-cell genomics analysis
Philipp Weiler (Memorial Sloan Kettering Cancer Center
& Howard Hughes Medical Institute, USA)

10.00–10.30

Q&A + BREAK

10.30–11.30

DIANA NECHEPURENKO

Max Planck Institute for Biology, Germany

Blueprints for Biologics
Offline, [ICU event hall](#)



11.30–12.00

Q&A + BREAK

[ICU event hall](#)

12.00–13.15

ERIC BORTZ

University of Alaska Anchorage, USA

Metagenomics for Pathogen Discovery
Offline, [ICU event hall](#)



13.15–14.00

LUNCH BREAK

14.00–15.00

PRACTICE:

2.15.2

**Bioinformatics Tools for
Metagenomics: Pathogen Signal/
Noise and Genome Assembly**
with Eric Bortz

PRACTICE:

2.15.1

Single Cell
with Philipp Weiler

PRACTICE:

4.08

**Improving Existing Enzymes:
Strategies for Enzyme
Optimization**
with Vladyslav Kuzniak

15.00–15.30

Q&A + BREAK

15.30–16.30

PRACTICE:

2.15.2

Intro to GWAS
with Anastasiia Alekseenko

PRACTICE:

2.15.1

QTLs
with Dzvika Yarish

PRACTICE:

4.08

Drug Discovery
with Diana Nechepurenko

16.30–17.00

Q&A + BREAK

17.00–18.00

PRACTICE:

2.15.2

Intro to Bio Data Science
with Klaudia Brzezińska

16.30–17.30 **ONLINE LECTURE:**

4.08

**Ribosomes under the microscope: cryo-EM and the
future of antibiotic discovery**
Mariia Rybak (The University of Texas Medical Branch)

18.00–19.00

SERGIY KASHUBIN

Senior Research Engineer at Google DeepMind

Shipping Science: Research in Industry
Online, [room 4.08](#)



13 August 2025

Mykoly Shpaka St, 3, Kyiv, Ukraine

9.00–10.00

ANNA MAGUZA

Julius-Maximilian-Universität-Würzburg, Germany

**Introduction to Spatial Transcriptomics:
Technologies and Data Modalities**
Offline, [ICU event hall](#)



10.00–10.30

Q&A + BREAK

[ICU event hall](#)

10.30–11.30

MYKHOLA PROTOPOPOV

Head of Computational Chemistry at Chemspace, Ukraine

**Shape, Similarity, and SAR: Fundamentals
of Ligand-Based Drug Design**
Offline, [ICU event hall](#)



11.30–12.00

Q&A + BREAK

[ICU event hall](#)

12.00–13.15 **PATHOGENOMICS HACKATHON:**

Working Groups

with Eric Bortz (University of Alaska Anchorage, USA)

[ICU event hall](#)

13.15–14.00

LUNCH BREAK

14.00–15.00

PRACTICE:

2.15.2

**Pathogenomics Hackathon
Working Groups**
with Eric Bortz

PRACTICE:

2.15.1

Single Cell
with Philipp Weiler

PRACTICE:

4.08

**Motif Scaffolding for De
Novo Enzyme Design**
with Vladyslav Kuzniak

15.00–15.30

Q&A + BREAK

15.30–16.30

PRACTICE:

2.15.2

Intro to GWAS
with Anastasiia Alekseienko

PRACTICE:

2.15.1

QTLs
with Dzvika Yarish

PRACTICE:

4.08

Drug Discovery
with Diana Nechepurenko

16.30–17.00

Q&A + BREAK

17.00–18.00

PRACTICE:

2.15.2

Intro to Bio Data Science
with Klaudia Brzezińska

PRACTICE:

2.15.1

Transcriptomics
with Anna Maguza

PRACTICE:

4.08

Secret Activity

18.00–19.00

IUAN LIACHKO

Founder & CEO at Phase Genomics

**Connecting the virome, resistome, and plasmidome
to the microbiome using proximity ligation sequencing**
Online, [room 4.08](#)



14 August 2025

Mykoly Shpaka St, 3, Kyiv, Ukraine

9.00–10.00

DEVIN DROWN

University of Alaska

GUEST LECTURE BY ERIC BORTZ:

Nanopore Sequencing and Bioinformatics
Online, **ICU event hall**



10.00–10.30

Q&A + BREAK

ICU event hall

10.30–11.30

DIANA NECHEPURENKO

Max Planck Institute for Biology, Germany

Hack the Fold

Offline, **ICU event hall**



11.30–12.00

Q&A + BREAK

ICU event hall

12.00–13.15

RICHARD STONE

Science correspondent

A new frontier in medicine, autoimmune conditions that cause psychosis
Online, **ICU event hall**



13.15–14.00

LUNCH BREAK

14.00–15.00

PRACTICE:

2.15.2

Intro to Bio Data Science
with Klaudia Brzezińska

PRACTICE:

2.15.1

QTLs
with Dzvika Yarish

PRACTICE:

4.08

Drug Discovery
with Diana Nechepurenko

15.00–15.30

Q&A + BREAK

15.30–16.30

PRACTICE:

2.15.2

Intro to GWAS
with Anastasiia Alekseienko

PRACTICE:

2.15.1

Transcriptomics
with Anna Maguza

PRACTICE:

4.08

Protein Dynamics and Ligand Binding Characterization
with Vladyslav Kuzniak

16.30–17.00

Q&A + BREAK

17.00–18.00

MARIIA ALIPATOVA

Kyiv School of Economics

Design Thinking

Offline, **room 4.08**



18.00–19.00

IVAN LIRCHKO

Founder & CEO at Phase Genomics

Next-Generation Cytogenetics with Genomic Proximity Mapping technology
Online, **room 4.08**



15 August 2025

Mykoly Shpaka St, 3, Kyiv, Ukraine

9.00–10.00

ANNA MAGUZA

Julius-Maximilian-Universität-Würzburg, Germany

**Analyzing Spatial Transcriptomics Data:
From Segmentation to Deconvolution with
SpatialData and Squidpy**
Offline, [ICU event hall](#)



10.00–10.30

Q&A + BREAK

[ICU event hall](#)

10.30–11.30

VLADYSLAV KUZNIAR

Senior Machine Learning Engineer at LITSLINK

Reinventing Nature: Enzyme Creation in the AI Era
Offline, [ICU event hall](#)



11.30–12.00

Q&A + BREAK

[ICU event hall](#)

12.00–13.15

SAM TURNER

University of Cambridge

GUEST LECTURE BY ERIC BORTZ:

Antigenic Cartography
Online, [ICU event hall](#)



13.15–14.00

LUNCH BREAK

14.00–15.00

DANYLO PUZIKOV

Feofania Clinical Hospital

**AMR-2025: Current Status, Global Implications,
Practical Solutions**
Offline, [ICU event hall](#)



15.00–16.00

Q&A + BREAK + FEEDBACK SESSION

16.00–17.00

OLEKSANDR HUBAR

Head of Biotechnology R&D at YURiA-PHARM LLC

**Quantitative proteomics in your own hands
– from experiment design to data analysis**
Offline, [ICU event hall](#)



17.00–18.00

PRACTICE:

2.15.2

Intro to Bio Data Science
with Klaudia Brzezińska

PRACTICE:

2.15.1

Proteomics
with Oleksandr Hubar

PRACTICE:

4.08

Drug Discovery
with Diana Nechepurenko

18.00–19.00

TAE DONG (TED) YUN

Senior Research Engineer at Google DeepMind

Deep Learning for Bioinformatics and Genetics
Online, [room 4.08](#)



16 August 2025

"Feofania" KSE building (Yevhenii Miroshnychenko St, 6/11)

10.00-12.00

WORKSHOP

Lean Thinking. And Lean Manufacturing, and Lean Management and More
with Roman Humeniuk (Kyiv School of Economics)

12.00-14.00

WORKSHOP

Business Model Canvas for Researchers: How to Go Beyond Publications and Speak the Language of Investors and Industry
with Oleg Zubchenok (Kyiv School of Economics)

14.00-18.00

SECRET ACTIVITY

17 August 2025

Mykoly Shpaka St, 3, Kyiv, Ukraine

10.00-12.00

LECTURE

ICU event hall

Science Management and Collaboration Strategies
with Sergiy Kornyluk

12.00-14.00

SECRET ACTIVITY

ICU event hall

14.00-18.00

FINAL CONFERENCE + WRAP UP

ICU event hall