

MAY 22-24, 2024





JOIN US!

The ASCA is a global community of professionals who use different methods of single-cell analysis.

The ASCA mission is "The increase in educational level and scientific communication in the field of single-cell analysis in order to accelerate investigations of biological objects and to understand mechanisms of disease development".





ASCA ASTANA WORKSHOP WEBSITE

Through 3-day ASCA ASTANA Workshop participants will get information about different methods of single-cell sequencing and digital PCR.

The program includes presentations of expert users and technology developers and practical works.

Participants will have the opportunity to network with leading experts on the round table "Experience in Single-Cell Analysis".

ASCA ASTANA WORKSHOP ORGANIZERS



Association for Single Cell Analysis











CHAIRPERSONS

Dos Sarbassov National Laboratory Astana, Nazarbayev University, Kazakhstan



Evgeny Denisov
Cancer Research Institute,
Tomsk NRMC;
RUDN University, Russia





Ainur Akilzhanova National Laboratory Astana, Nazarbayev University, Kazakhstan



Tatiana Gerashchenko Cancer Research Institute, Tomsk NRMC; RUDN University, Russia

ASCA ASTANA WORKSHOP ORGANIZERS ORGANISING COMMITTEE

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Anastasia Frolova Cancer Research Institute, Tomsk NRMC, Russia





Kristina Kuanysheva Cancer Research Institute, Tomsk NRMC, Russia

MAY 22, 2024 WEDNESDAY

National Laboratory Astana, Nazarbayev University, Kabanbai Batyr St., 53, Block S1, Conference Room

09.00 - 09.30 REGISTRATION

09.30 - 09.45 WELCOME

Dos Sarbassov, General Director of National Laboratory Astana, Kazakhstan

Evgeny Choynzonov, Director of Cancer Research Institute of Tomsk NRMC, Russia

Timur Fatkhudinov, Director of Research Institute of Molecular and Cellular Medicine, RUDN University, Russia

09.45 – 10.00 Evgeny Denisov, Cancer Research Institute,
Tomsk NRMC; RUDN University, Russia
Single cell and spatial analysis: opportunities and applications

10.00 - 10.25 INTRODUCTION TO WET LAB PRACTICES
Marina Patysheva, Cancer Research Institute,
Tomsk NRMC, Russia
Sample preparation from RWD Life Science

Maxim Menyailo, Cancer Research Institute, Tomsk NRMC; RUDN University, Russia SeekGene single cell RNA library preparation

Tatiana Gerashchenko, Cancer Research Institute, Tomsk NRMC; RUDN University, Russia MobiDrop single cell RNA library preparation

MAY 22, 2024 WEDNESDAY

Anton Fedorov, Cancer Research Institute, Tomsk NRMC, Russia 10x Genomics single cell RNA library preparation

Aleksei Sleptsov, Research Institute of Medical Genetics, Tomsk NRMC, Russia Bio-Rad Droplet Digital PCR

10.25 - 11.00	Break, free time
11.00 - 20.00	WET LAB PRACTICES
11.00 - 16.00	Sample preparation: solutions from RWD Life Science Venue: Nazarbayev University, Core Facilities, Block C4. Practice leader - Marina Patysheva
11.00 - 14.00	Bio-Rad Digital Droplet PCR & ATILA Biosystems Venue: National Laboratory Astana, Nazarbayev University, Block C4, Room 609. Practice leader - Aleksei Sleptsov
16.00 - 20.00	SeekGene single cell RNA library preparation Venue: Nazarbayev University, Core Facilities, Block C4. Practice leader - Maxim Menyailo
16.00 - 20.00	10x Genomics single cell RNA library preparation Venue: National Laboratory Astana, Nazarbayev University, Block C4, Room 606. Practice leader - Anton Fedorov
16.00 - 20.00	MobiDrop single cell RNA library preparation Venue: National Laboratory Astana, Nazarbayev University, Block C4, 609. Practice leader - Tatiana Gerashchenko

MAY 23, 2024 THURSDAY

- 10.00 19.00 WET LAB PRACTICES (continuation)
- 10.00 15.00 SeekGene single cell RNA library preparation

 Venue: Nazarbayev University, Core Facilities, Block C4.

 Practice leader Maxim Menyailo
- 10.00 15.00 10x Genomics single cell RNA library preparation
 Venue: National Laboratory Astana, Nazarbayev University,
 Block C4, Room 606.
 Practice leader Anton Fedorov
- 10.00 15.00 MobiDrop single cell RNA library preparation

 Venue: National Laboratory Astana, Nazarbayev University,

 Block C4, Room 609.

 Practice leader Tatiana Gerashchenko
- 15.00 19.00 Bio-Rad Digital Droplet PCR & ATILA Biosystems
 Venue: National Laboratory Astana, Nazarbayev University,
 Block C4, Room 609.
 Practice leader Aleksei Sleptsov
- 15.00–16.00 Master-class on Oxford Nanopore DNA sequencing
 Venue: National Laboratory Astana, Nazarbayev University,
 Block C4, Room 606.
 Master-class leader Timur Yagudin, SkyGen

MAY 24, 2024 FRIDAY

10.00 - 18.00	ROUND TABLE "EXPERIENCE IN SINGLE-CELL ANALYSIS" Venue: National Laboratory Astana, Nazarbayev University, Kabanbai Batyr St., 53, Block S1, Conference Room
10.00 - 10.20	Pavel Yamshikov, TSU; Cancer Research Institute, Tomsk NRMC, Russia Basic analysis of spatial and single-cell transcriptomics towards ready-to-use results
10.20 - 10.30	Koen De Gelas, 10x Genomics Unravel biological complexity with powerful single cell solutions of 10x Genomics
10.30 - 10.50	Suzanne Turner, University of Cambridge, UK Applying single cell transcriptomics towards deciphering the origins and therapeutic vulnerabilities of T cell lymphoma
10.50 - 11.10	Evgeny Choynzonov, Cancer Research Institute, Tomsk NRMC, Russia Cancer research and clinical oncology directions: experience of the Cancer Research Institute of Tomsk NRMC
11.10 - 11.30	Nikolay Skryabin, Research Institute of Medical Genetics, Tomsk NRMC, Russia Early human embryogenesis: cytogenetics and transcriptomics using single cell analysis
11.30 - 12.10	Coffee-break, Partner exhibition
12.10 - 12.20	Yanquan Lua, MobiDrop MobiDrop single-cell microbiome

MAY 24, 2024 FRIDAY

12.20 - 12.40	Tatiana Gerashchenko, Cancer Research Institute, Tomsk NRMC; RUDN University, Russia Immune-related transcriptomic predictors of chemotherap response in triple negative breast cancer patients
12.40 - 12.50	Tatiana Bukanova, SkyGen The new long song in innovation single cell perfomance
12.50 - 13.10	Egor Volchkov, Dmitry Rogachev NMRC, RUDN University, Russia Study of Juvenile Myelomonocytic Leukemia using single-cell methods
13.10 - 13.20	PENG Tiankui, SeekGene SeekGene - Innovative single cell technology accessing analysis from Expression to Mutation
13.20 - 13.40	Marina Patysheva, Elena Kolegova, Cancer Research Institute, Tomsk NRMC, Russia Revealing molecular mechanisms of early-onset tongue cancer by spatial transcriptomics
13.40 - 15.00	Lunch break (on your own)
15.00 - 15.20	Dana Mustafa, Erasmus MC, Netherlands Unveiling the hidden dimension of pancreatic cancer: navigating the world of spatial biology
15.20 - 15.30	Bert A.G. de Boer, Atila Biosystems Advanced technologies from Atila Biosystems for oncology and medicine
15.30 - 15.50	Roman Sankowski, University of Freiburg, Germany

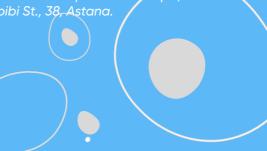
responses during development and brain tumors (online)

MAY 24, 2024 FRIDAY

15.50 - 16.10	Maxim Menyailo, Cancer Research Institute, Tomsk NRMC; RUDN University, Russia Deciphering intratumoral heterogeneity by single cell RNA sequencing
16.10 - 16.30	Timur Fatkhudinov, RUDN University, Russia Digital research platforms
16.30 - 16.50	Coffee-break, Partner exhibition
16.50 - 17.00	Ivan Bodoev, Sesana SURFSeq 5000 – The optimal solution for single cell sequencing
17.00 - 17.20	Chuan Xu, The Wellcome Sanger Institute, UK CellTypist & CellHint: towards assembling the Human Cell Atlas (online)
17.20 - 17.50	SEMINAR "LIFE SCIENCE AND ORGANOID BIOLOGY: SOLUTIONS FROM RWD LIFE SCIENCE" Venue: National Laboratory Astana, Nazarbayev University, Kabanbai Batyr St., 53, Block S1, Conference

Closing

19.00 - 22.00 Party Venue: Aisha bibi Apart Hotel & Spa, Aisha bibi St., 38, Astana.



ASCA ASTANA WORKSHOP

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PARTNERS













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