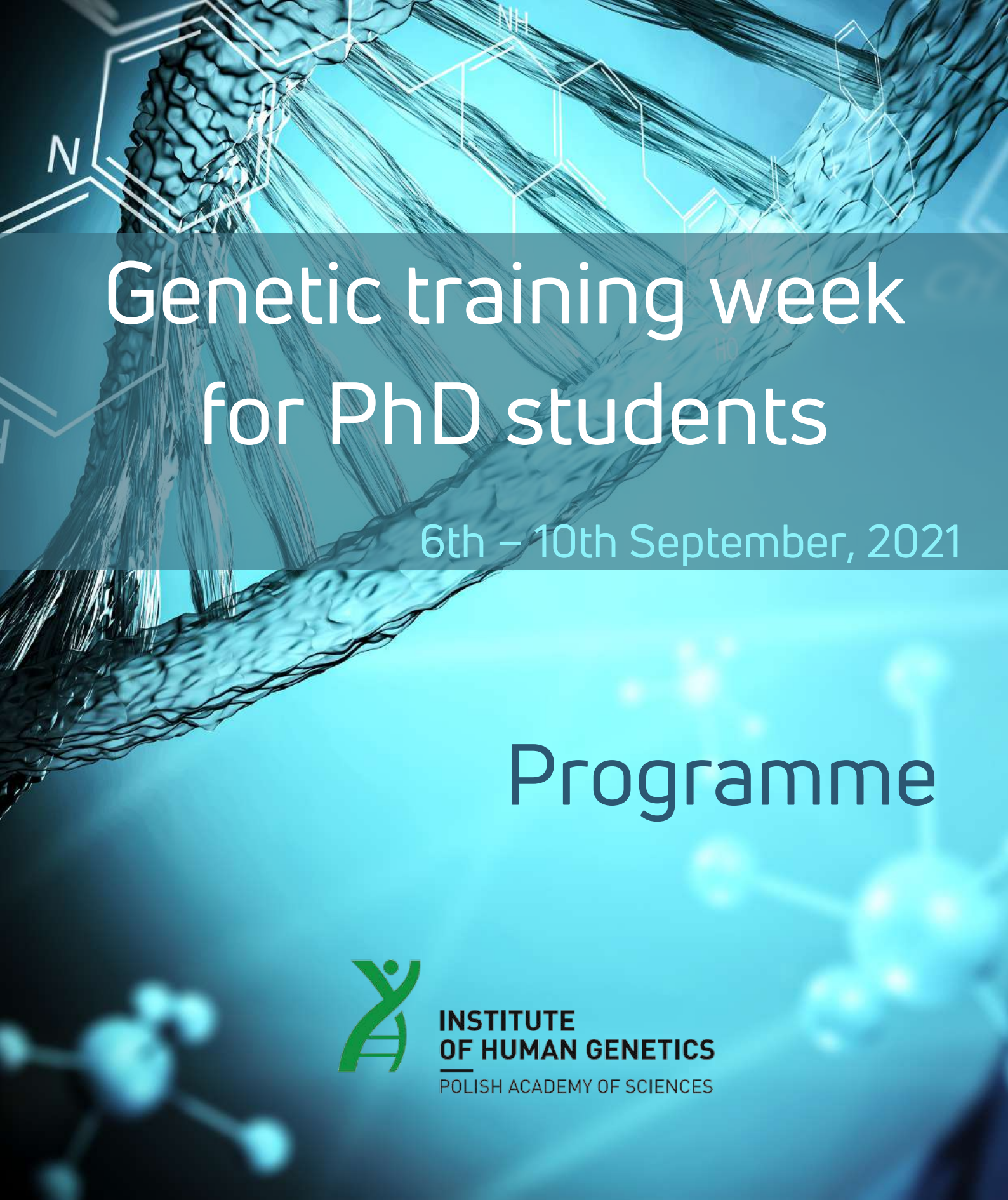




Genetic training week for PhD students

6th – 10th September, 2021

Programme



**INSTITUTE
OF HUMAN GENETICS**
POLISH ACADEMY OF SCIENCES

Monday, 6th September 2021

- 12.00 – 12.15 Registration
- 12.15 – 13.00 Orientation meeting for incomings
Agnieszka Mozejko – Grant Office, Coordinator of PROM project
- 13.00 – 15.00 Let's build something together - integration games
- 18.00 – 19.30 Welcoming reception
The Poznań Branch of the Polish Academy of Sciences, Działyński Palace, Stary Rynek 78/79 street,

Tuesday, 7th September 2021

PART 1 Science in detail

- 10.00 – 11.15 Lecture (online): 'The application of single-cell sequencing in basic and clinical research
Katarzyna Tomczak, PhD, MD Anderson Cancer Center, University of Texas, USA
- 11.30 – 12.45 Lecture: 'Cardiac tissue engineering - general overview and working examples'
Tomasz Kolanowski, PhD, Institute of Human Genetics PAS

PART 2 Let's get to know each other

- 13.15 – 13.30 Presentation of the Department of Molecular Pathology
Professor Natalia Rozwadowska, Head of Department of Molecular Pathology
- 13.30 – 13.45 Presentation of the Department of Nucleic Acid Function
Szymon Hryhorowicz, PhD, Department of Nucleic Acid Function
- 13.45 – 14.45 Roundtable talks
- 17.00 – 19.00 City Tour

Wednesday, 8th September 2021

PART 1 Science in detail

- 10.00 – 11.15 Lecture: 'Deciphering a mysterious world of epigenetics applications and hematological neoplasias'
Marta Kuliś, PhD, August Pi i Sunyer Biomedical Research Institute, University of Barcelona, Spain
- 11.30 – 12.45 Lecture: 'Sperm DNA fragmentation – not everything revolves oxidative stress'
Eva Tvrda, PhD, Slovak University of Agriculture in Nitra, Slovakia

PART 2 Let's get to know each other

- 13.15 – 13.30 Presentation of the Department of Cancer Genetics
Professor Maciej Giefing, Head of Department of Cancer Genetics
- 13.30 – 13.45 Presentation of the Department of Reproductive Biology and Stem Cells
Marta Olszewska, PhD, Department of Reproductive Biology and Stem Cells
- 13.45 – 14.00 Presentation of the Department of Molecular and Clinical Genetics
Zuzanna Bukowy – Bierytło, PhD, Department of Molecular and Clinical Genetics
- 14.00– 15.00 Roundtable talks

Thursday, 9th September 2021

- 10.00 – 14.00 Training: Marie Skłodowska - Curie – European Grants for young researchers
Paweł Kaczmarek, Expert of Regional Contact Point of EU Framework Programmes in Poznań

Friday, 10th September 2021

- 10.00 – 12.00 Settlement of stay within PROM Programme

Additional info



WiFi at the Institute:

Network: goscie

Password: igcpan@2021



Contact:

agnieszka.mozejko@igcz.poznan.pl

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Roundtable Talks:

Please schedule your meeting, if you want to talk to a specific researcher. If you prefer to share your scientific interests with a group or give a short presentation, let us know, we will organize it. Click [Roundtable talks schedule](#) to make an appointment.



Welcoming reception:

For the Welcoming Reception, we invite you to the climatic Działyński Palace built between 1773 and 1776, which currently houses the Poznan Branch of the Polish Academy of Sciences. The palace is located at [Stary Rynek 78/79](#), just opposite the town hall. During the party, we provide a unique taste and cultural experience as well as time spent in a pleasant atmosphere.



City tour:

Poznań is the capital of the Wielkopolska region and is famous for its fairgrounds and rich trade traditions, original dishes, and hospitable atmosphere. The city is the cradle of Poland. The first rulers of the country were buried in the city cathedral.

The Institute of Human Genetics PAS invites you for a short walk around the most beautiful places in Poznań. A qualified guide will be waiting for you on September 7, 2021 (Tuesday) at 5:00 p.m. at [Mickiewicz Square](#), a place commemorating workers' protests of 1956. The tour will end around 7:00 p.m. at the Old Market Square, full of colorful tenement houses where numerous bars and restaurants are hidden.

The bus line 168 runs directly from the Institute, which will take you to the designated location in about half an hour - the bus stop 'Zamek'.

We hope you will be charmed by the capital of Wielkopolska.



Katarzyna Tomczak, MD Anderson Cancer Center, University of Texas

Katarzyna possesses a strong expertise at the area of molecular biology, stem cells, cancer (epi)genomics and immunology, which she gained while working at laboratories in Poland, France and the USA. Currently she works at the Department of Translational Molecular Pathology in Dr. Haymaker's lab where she leads the cutting-edge single cell sequencing efforts towards profiling clinical trial specimens of different tumor types. Dr. Tomczak is an active member of MDACC Cancer Immune Monitoring and Analysis Center (CIMAC) working group, as well as Mesothelioma Immune Genomic Group.



Tomasz Kolanowski, PhD, Institute of Human Genetics PAS

Tomasz is a trained molecular biologist and stem cell specialist focused on mechanisms of human heart development and regeneration. He gained the PhD in Poland, while working over 3 years as a postdoctoral scientist in Gottingen and Dresden, Germany. He was also a visiting scholar in Leeds, UK. Currently developing advanced culture systems for iPSC-derived cardiomyocytes and other cells. He is a PI in a FIBRODrive project concerning human fibroblast influence on cardiomyocyte maturation using 3D tissue systems. He is striving to elucidate control mechanisms of early human heart tissue specification.



Marta Kuliś, PhD, August Pi i Sunyer Biomedical Research Institute, University of Barcelona

Marta's research interests are focused on the epigenetic and molecular mechanisms involved in the pathogenesis of lymphoid neoplasms, as well as during normal B cell differentiation process. From the last years, she is participating in the collaborative studies that use epigenomics to decipher the causes and consequences of the aberrant transcriptional programs in a variety of lymphoid tumors. In particular, a detailed multi-omics approach to characterize normal and neoplastic B cells serves to understand the role of the epigenetics in the origin, evolution and clinical manifestations of haematological malignancies.



Eva Tvrda, PhD, Slovak University of Agriculture in Nitra

Eva is a senior research scientist at the Department of Animal Physiology, Faculty of Biotechnology and Food Sciences, Slovak University of Agriculture in Nitra. She is the head of the Laboratory for Andrology and Molecular Toxicology at the AgroBioTech Research Center. She has published over 100 articles and 10 book chapters on the topics of male reproduction, reproductive toxicology, oxidative balance and antioxidants. Currently, she is interested in the causes and mechanisms underlying ex vivo sperm DNA fragmentation in animals and humans as well as novel molecular markers to assess individual sperm freezability. Dr. Eva Tvrda is a former Sciex MNS ch and Fulbright fellow, member for the European Federation of Animal Science and the Association for Applied Animal Andrology.

Presenters



Prof. Natalia Rozwadowska, Head of Department of Molecular Pathology

Natalia's research focuses on understanding the function of stem cells both in normal and pathological processes. She used stem cells to model human cell development as well as to provide the potential source for regenerative therapies development. In her scientific activity, she cooperates with many academic units as well as biotechnological companies. She is committed in science communication and as the founder of "Gen-i-juz" Association, she actively coordinates workshops and scientific dissemination events in IHG PAS.



Prof. Maciej Giefing, Head of Department of Cancer Genetics

Maciej's main areas of work are: cancer genetics, chromosome aberrations and identification of tumor suppressor genes in head and neck cancers as well as in classical Hodgkin's lymphoma. Author of 'Identification of genes associated with the pathogenesis of classical Hodgkin's lymphoma'. Maciej collaborates with research groups in Germany, affiliated with the German Hodgkin Study Group. He is the coordinator of NEXT_LEVEL project funded from the Horizon 2020 Programme.



Szymon Hryhorowicz, PhD, Department of Nucleic Acids Function

Szymon's research focuses on the role of the endocannabinoid system in inflammatory bowel disease. In particular, he studies the molecular mechanisms controlling the activation of cannabinoid CB1 and CB2 receptors in mucosal inflammation and the expression profile of genes involved in cannabinoid metabolism. Concerning the SARS-CoV2 pandemic, he is also involved in the analysis of novel virus variants using high throughput sequencing techniques.



Marta Olszewska, PhD, Department of Reproductive Biology and Stem Cells

Marta has been working in the Department of Reproductive Biology and Stem Cells since 2004. Now she holds the position of Assistant Professor. Her scientific interests concern: cytogenetics of male infertility (incl. chromosome aberrations and 3D nuclear organization of the human sperm cell), searching for mutations responsible for decreased sperm count (incl. experimental mouse models), and also epigenetics of male germ cells (methylation of DNA, histones, acetylation vs. chromatin integrity and seminology). Currently, she is a PI of two grant projects (in total involved in 10 projects at all).



Zuzanna Bukowy - Bieryłto, PhD, Department of Molecular and Clinical Genetics

Zuzanna is an Assistant Professor at the Department of Molecular and Clinical Genetics. She is interested in primary ciliary dyskinesia, which is a genetic disorder causing impaired movement of cilia present in different systems of human organism. In her research, she employs many methods, which use cells from respiratory epithelium, including in vitro ciliogenesis of primary respiratory epithelial cells, high-speed videomicroscopy (SAVA software) and immunofluorescent staining of ciliary proteins.