



We are pleased to announce the annual mini-symposium **BIOCEV Regeneration IV**, which will be held on **November 26th, 2024, in BIOCEV, Vestec**.

BIOCEV Regeneration is an annual open one-day mini-symposium that brings together researchers from different fields of biomedicine, from regenerative medicine and tissue engineering to cancer research, drug discovery, and cryobiology.

This year, the **BIOCEV Regeneration IV** will focus on the exciting field of cryobiology and cryobanking and highlight its important role in state-of-the-art biomedical research. The mini-symposium is endorsed by the international Society for Low Temperature Biology (SLTB) and will bring together keynote speakers and young researchers from different biomedical disciplines, employing low temperatures in their research and development. This year we will focus on two major directions of cryobiology: cryotechnologies in clinically-oriented research (ATMP production, cell and tissue banking for therapy and diagnostics) and biodiversity preservation and regeneration.

The mini-symposium will be held in the **main conference hall and surrounding spaces of the BIOCEV (Vestec) on 26.11.2024** and broadcast online.

Along with several lectures given by our invited speakers, we encourage early career researchers to contribute to our symposium and share their achievements in stem cell research, tissue engineering, 3D culture, cancer research or cryobiology during the poster session.

The event **is free of charge**. Please register [HERE](#)

Preliminary program:

9:00	Registration opens
10:00	Opening remarks

Session 1: Biobanking for cell therapy and regenerative medicine		
10:15	Peter Bauer	Generation of human induced pluripotent stem cells from haplo-selected cord blood samples – HAPLO-ips (COST Action CA21151)
	<i>Bioinova as., Prague, Czech Republic</i>	
10:45	Miroslava Jandova	Cryopreservation techniques in the practice of Tissue Bank University Hospital Hradec Kralove
	<i>Tissue Bank, University Hospital Hradec Kralove</i>	
11:15	Coffee break and posters	
11:45	Petr Lesny	Cryopreservation of therapeutically used CAR-T cells and the transgene copy count issues
	<i>Institute of Haematology and Blood Transfusion, Prague, Czech Republic</i>	
12:15	Ivana Acimovic	Development of ex-vivo 3D cellular models of pancreatic ductal adenocarcinoma and the role of biobanking
	<i>Department of Histology and Embryology, Faculty of Medicine, Masaryk University, Brno, Czech Republic</i>	
12:45	Pavel Mericka	Development of cryotechnology as essential prerequisite for starting clinical cell and tissue transplantation programmes
	<i>Tissue Bank, University Hospital Hradec Kralove</i>	
13:10	Lunch	

Session 2: Biodiversity preservation and regeneration		
14:15	Julio Cesar Pieczarka	A cryobank for Amazon biodiversity preservation (online)
	<i>Universidade Federal do Pará, Brazil</i>	
14:45	Milos Faltus	DSC analysis and use of the state diagrams for cryopreservation of plants
	<i>Crop Research Institute, Prague, Czech Republic</i>	
15:15	Sergii Boryshpolets	Fish sperm cryobanking in Czech Republic: Why and How
	<i>University of South Bohemia in Ceske Budejovice</i>	
15:45	Jiri Zamecnik	Ice nucleation and composition and effects of cryoprotectants in plant cryopreservation
	<i>Crop Research Institute, Prague, Czech Republic</i>	
16:00	Coffee break and posters	

Session 3: Student's session		
16:30	Yuriy Petrenko	Principles of cryobiology, tips & tricks to preserve cell cultures. discussion
	<i>Institute of Experimental Medicine of the CAS, BIOCEV</i>	
17:30	Closing remarks, poster awards	

For the poster presentation, please fill out the title of the poster and the list of the authors. No abstract submission is required. Please register [HERE](#)

We look forward to seeing you in November!

Organisers:

- Institute of Experimental Medicine of the Czech Academy of Sciences
- BIOCEV
- Institute of Physiology of the Czech Academy of Sciences

In cooperation with

- Society for Low Temperature Biology
- Tissue Bank of the University Hospital Hradec Kralove
- Masaryk University

Sponsors:

