
THURSDAY, SEPTEMBER 6, 2018

8.15 Registration

Welcome and opening remarks

9.00 Dr Jiban Kumar (Prague, Czech Republic)

Director of the Crop Research Institute

9.15 Dr Glyn Stacey (Cambridge, United Kingdom)

President of the Society of Low Temperature Biology

9.20 SLTB and CRI appreciation Award to Dr Vladimír Skládal

Dr Mikuláš Madaras - Deputy Director of the Crop Research Institute

Dr Glyn Stacey - President of the Society of Low Temperature Biology

Chair: Dr Glyn Stacey

Keynote lecture

9.45 Cryobanking of vegetatively propagated plants – fifteen years of experience

Dr Milos Faltus (Crop Research Institute, Prague, Czech Republic)

10.25 Coffee break, poster presentations and sponsor exhibitions

Chair: Dr Ariadna Corral and Dr Dáša Doležalová

Keynote lecture

10.55 Cryopreservation and biobanking of human organoids: current status and future perspectives

Dr Dáša Doležalová (Masaryk University, Prague, Czech Republic)

Oral presentations

11.35 Sub normothermic unfrozen storage and shipment of cells and tissues for therapy: report from a workshop held at University College London May 2018

GN Stacey, E Buik, C Conon, B Fuller, J Kerby, M Mclean, PA Smethurst, R Zajicek

11.55 Impact of changes of the European Union legislation on cryopreservation technologies - experience of the Tissue Bank University Hospital Hradec Kralove

P Mericka, H Strakova, B Honegrova, M Lanska, D Vokurkova, D Brandejs, M Jandova, J Gregor, P Sponer, S Filip, L Sterba

12.15 Cryopreservation in tissue medicine: theory and practice

N Hofmann, I Wittmershaus, M Börgel

12.35 Lunch

13.35 AGM

Chair: Prof Birgit Glasmacher and Dr Alasdair Kay

Keynote lecture

13.55 Ovarian tissue cryopreservation: past, present and future directions

Prof Christiani Amorim (Université Catholique de Louvain, Brussels, Belgium)

14.35 Visit to Crop Research Institute cryobank and genebank

15.35 Coffee break, poster presentations and sponsor exhibitions

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Spotlight poster presentations

- 16.05** Micro- and large volumes cryopreservation of single human spermatozoa using non-penetrating cryoprotectant
TA Yurchuk, AA Gapon, EV Pavlovich, VI Pinyaev, MP Petrushko
- 16.15** Complex description of cryopreserved cell nuclei defects by immunofluorescence microscopy: DNA lesions, chromatin decondensation, nuclear membrane ruptures
M Falk*, I Falková, E Pagáčová, O Kopečná, A Bačíková, K Varga, M Golan, I Kratochvílová
- 16.25** Cryopreservation of Czech hop germplasm
P Svoboda, M Faltus
- 17.00** Departure for a welcome dinner by bus from Crop Research Institute
- 18.00** Meeting dinner at the National Museum of Agriculture
- 21.30** Tour of Prague by historical tram
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FRIDAY, SEPTEMBER 7, 2018

- 8.30** Registration

Chair: Prof Birgit Glasmacher and Dr Denys Pogozhykh

Keynote lecture

- 9.00** Cryopreservation of iPSC-derived megakaryocytes
Dr Denys Pogozhykh (Hannover Medical School, Hannover, Germany)

Oral presentations

- 9.40** Stepped vitrification procedure to cryopreserve human ovarian tissue: we are not there yet
EC Rivas Leonel, MM Dolmans, A Corral, R Risco, P Kilbride, M Vazquez, J Morris, CA Amorim
- 10.00** New perspectives of ovarian tissue cryopreservation by means of X-ray computed tomography
A Corral, N Martínez, EC Rivas Leonel, A Parrado-Gallego, M Balcerzyk, CA Amorim, R Risco
- 10.20** DNA methylation changes after cryopreservation: MSAP analysis by multivariate statistical methods
C Martín, A Alvarez-Mari, H Rodríguez, ME González-Benito, MA Ibáñez
- 10.30** Coffee break, poster presentations and sponsor exhibitions

Chair: Dr Alasdair Kay

Oral presentations

- 11.00** Twenty years of cryoresearch on pineapple shoot tips in Cuba.
M Martinez-Montero
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FRIDAY, SEPTEMBER 7, 2018

11.20 The critical thermal range for controlled rate cooling for mammalian cell cryopreservation

P Kilbride, J Meneghel, F Fonseca, J Morris

11.40 Retrospective analysis of dimethylsulphoxide load in autologous peripheral progenitor cell transplantation in multiple myeloma

P Mericka, H Strakova, B Honegrova, M Lanska, D Vokurkova, V Maisnar, D Brandejs, M Jandova, J Gregor, P Zak, L Sterba

12.00 Lunch

Chair: Prof Christiani Amorim

Young Scientist Keynote lecture

13.00 Cryoresistance of polar eukaryotic microalgae

Bc Eva Hejduková (Charles University, Prague, Czech Republic)

Oral presentations

13.40 Pollen grains as biogenic sources of ice nuclei – a review

I Svarnas, K Falelakis, E Alevra, C Aspiotis, D Zaragotas, E Anastassopoulos

14.00 Cryopreservation of dormant buds of fruit trees

A Bilavcik, J Zamecnik, M Faltus

14.20 Application of infrared video thermography for monitoring of freezing/thawing events within 3d collagen-hydroxyapatite scaffolds

V Mutsenko, D Tarusin, D Zaragotas, A Simaioforidou, C Rozanski, B Sydykov, D Ivnev, O Gryshkov, E Anastassopoulos, B Glasmacher

14.40 Coffee break, poster presentations and sponsor exhibitions

Chair: Dr Ariadna Corral and Prof Zdeněk Hubálek

Keynote lecture

15.10 Cryopreservation of microorganisms

Dr Zdenek Hubálek (Masaryk University, Brno, Czech Republic)

Oral presentations

15.50 Application of thermal analysis in plant cryopreservation

J Zamecnik, M Faltus, A Bilavcik (Crop Research Institute, Prague, Czech Republic)

16.10 Finite elements computation of organ rewarming by high intensity focused ultrasounds

R Risco, P Barroso, A Olmo

16.30 Can comparative lipid thermal fingerprinting of brassica oilseeds indicate seed storage stability?

S Mira, J Nadarajan, U Liu, ME González-Benito, HW Pritchard

16.50 Final remarks and closing ceremony

SATURDAY, SEPTEMBER 8, 2018

10.00 Post-meeting free guided tour in Prague