





# IIR Cryo-Bio-Workshop 2016 Program

**Thursday, 08.09.2016**

Time	Sess.	Chairs	Topic	No.	Author/Affiliation	Lecture
08:00-18:00	<b>Registration &amp; Information desk</b>					
09:00-09:15	<b>Opening (Herzog, Colombo)</b>					
09:15-09:50	I	Glasmacher Herzog	<b>Biobanking - general</b>	<b>029</b>	Nauck M. Uni Greifswald (D)	Biobanking in epidemiology and in clinical settings in joint research projects in Germany. Aims and challenges
09:50-10:15				<b>023</b>	Kretschmer, R. ILK Dresden (D)	Novel cryo-RACKs for different applications in biobanking
10:15-10:40				<b>016</b>	Morris G Asymptote Ltd. (UK)	Cryopreservation of adherent cells in 96 well plates
10:40-11:10	<b>Coffee break</b>				sponsored by 	
11:10-11:45	II	Sumida Nauck	<b>Cryopreservation I</b>	<b>006</b>	Kuleshova L. Uni Hannover (D)	Cryobiology: Cryopreservation and cryostorage of cells, tissues and tissue engineered constructs
11:45-12:10				<b>035</b>	Day J. Scottish Marine Institute (UK)	Cryopreservation - a fundamental underpinning technology for the development of a sustainable blue economy
12:10-12:35				<b>003</b>	Bailey T. University of Warwick (UK)	Bio-Inspired cryopreservation using synthetic polymer analogues
12:35-13:00				<b>010</b>	Martynova Yu. National Academy of Sciences of Ukraine (UA)	Impact of frozen-thawed cord blood nucleated cells combined with extreme whole body cooling on rat's neurohumoral regulation in dynamics of aging
13:00-14:00	<b>Lunch</b>				sponsored by 	
14:00-14:25	III	Kuleshova Klier	<b>Biobanking - technicals</b>	<b>005</b>	Siara P. Cryotherm (D)	Cryobanks XXL. Cost-effectiveness of large cryobanks as a prerequisite for automation
14:25-14:50				<b>028</b>	Motomura N. Toho University (J)	Newly designed tissue/cell storage bag for cryopreserved homograft by application of CO <sub>2</sub> laser welding technique
14:50-15:15				<b>004</b>	Pfeifer E. Askion (D)	Freezing and Long-term Storage of Biological Samples - Quality Requirements and Technical Solutions
15:15-15:40				<b>027</b>	Sumida S. Sajio Sumida Clinic (J)	The repetitive freeze-thaw-culture in vivo and in vitro subculture method (RFTCIVVSCM) to indefinitely preserve human adipose tissue derived mesenchymal stromal cells (MSCs) for regenerative medicine video
15:40-16:10	<b>Coffee break</b>				sponsored by  	
16:15	<i>Transport to ILK from Dorint</i>					
16:30-18:30	<b>ILK - Laboratory visits &amp; individual discussions</b>					
from 18:30	<i>Return to Dorint Hotel</i>					
19:30	<b>Dinner at the Dorint Hotel</b>					

Friday, 09.09.2016

Time	Sess.		Topic	Author/No.	Lecture	
08:00-12:00	<b>Registration &amp; Information desk</b>					
09:00-09:25	IV	Motomura Steeb	Scaffolds	011	Welzel P. Leibniz Institute of Polymer Research Dresden (D)	Injectable cryogel microcarriers for cell transplantation and growth factors delivery
09:25-09:50				008	Rogulska O. National Academy of Sciences of Ukraine (UA)	Effect of DMSO-free cryopreservation on MSC osteogenesis in 3D porous scaffolds
09:50-10:15				015	Reichert Leibniz-Institut Leipzig (D)	Electron-beam generated macroporous cryogels
10:15-10:40	<b>Poster session</b>					
10:40-11:00	<b>Coffee break</b>					
11:00-11:35	V	Gentile Welzel	Cryopreservation II	007	Glasmacher B. Uni Hannover (D)	Importance of controlled ice formation for efficient cell biobanking
11:35-12:00				026	Sumida S. Sajo Sumida Clinic (J)	The cryopreservation of mice and human skin for 5 weeks at -20°C and for 33 years at -196°C
12:00-12:25				012	Tannert A. Leibniz Institute for Zoo and Wildlife Research Berlin (D)	Ultrasound-assisted cryopreservation of gametes
12:25-13:30	<b>Lunch</b>					
13:30-13:55	VI	Morris Spörl	Pharma	024	Gentile Sartorius stedim biotech (F)	Safe, reliable bulk drug substance transfers via frozen storage and logistics in single-use containers
13:55-14:20				022	Heidingsfelder J. ILK Dresden (D)	Scientific conception of freezing steps as a part of pharmaceutical platform technologies
14:20-14:45				034	Lauterboeck L. Uni Hannover (D)	Freezing leads to alterations in histone post-translational modifications of monkey stem cells
14:45-15:10				017	Steeb Pelobiotech (D)	FREEZE! New protocols for primary cells and reliable results after freezing
15:10-15:30	<b>Closing ceremony (Herzog, Colombo)</b>					
15:30	<b>Coffee break - fare well</b>					

List of posters		
No.	Author	Title
019	Bauer R. Roche Diagnostics GmbH (D)	Development of an apparatus for cryopreservation cellular samples
020	Butskiy K. National Academy of Sciences of Ukraine (UA)	Comparison of hormonal stimulation influence on quality of sterlet ( <i>Acipenser ruthenus</i> ) and silver carp ( <i>Hypophthalmichthys molitrix</i> ) sperm
036	Goltsev, A. National Academy of Sciences of Ukraine (UA)	Effect of cryopreservation factors on subpopulation composition of breast cancer cells
037	Goltsev, A. National Academy of Sciences of Ukraine (UA)	Influence of number of freeze-thaw cycles on proliferative activity of stem cell-like cells of aging Ehrlich carcinoma population
033	Großmann B. ILK Dresden (D)	Development of customized cooling- and refrigeration technology
009	Mykhailova O. National Academy of Sciences of Ukraine (UA)	Improving of cryoprotectant media for human cord blood nucleated cells cryopreservation
018	Petrushko M. National Academy of Sciences of Ukraine (UA)	Comparison of vitrification and slow freezing efficiencies of human zygotes
025	Reinsch H. ILK Dresden (D)	Strategies for the desing of bi-layer scaffolds for the regenerative medicine and tissue engineering
031	Snurnikov A. Interradiofizika JSC, Kharkiv (UA)	Cryobanks for various biological objects
001	Staicovici M. S.C. VARIA ENERGIA S.R.L. (RO)	Advances In hybrid compression technology for ultra-low temperature refrigeration achievement
021	Wittenburg G. University Hospital Dresden (D)	Upcycling corneal tissue: whole corneas cryopreserved by different media for research applications