



Oocyte Day

18th of November 2024 from 10 am

Milan Hasek Auditorium at IMG, Videnska 1083, Prague

Program:

09:30-10:00 **Arrival and registration**

10:00-10:05 **Opening remarks**

David Drutovic, Institute of Animal Physiology and Genetics of the Czech Academy of Sciences (**IAPG CAS**), Czech Republic

Session I Oocyte aneuploidy

Chair: David Drutovic

10:05-10:50 **Keynote lecture: Mechanisms of chromosome segregation errors in oocytes**

Tomoya Kitajima, RIKEN Center for Biosystems Dynamics Research, Japan

10:50-11:15 **The ageing oocyte: Is chromosome segregation the only problem?**

Helena Fulkova, Institute of Experimental Medicine CAS, Czech Republic

11:15-11:45 **Coffee break**

Session II Oocyte maturation and development

Chair: Andrej Susor (IAPG CAS, Czech Republic) and David Drutovic

11:45-12:10 **How endolysosomal super-organelles manage protein aggregates in mammalian oocytes**

Gabriele Zaffagnini, Centre for Genomic Regulation, Spain

12:10-12:30 **Spatio-temporal requirements of Aurora kinase A for spindle building in mouse oocytes**

Michaela Vaskovicova, IAPG CAS, Czech Republic

12:30-12:45 **Unveiling the silence: how translation quiescence shapes mRNA stability in oocytes**

Fatima Berro, IAPG CAS, Czech Republic

12:45-12:55 **Sponsor's talk: Cutting-Edge Confocal Microscopy Innovations from Leica Microsystems: Transforming the Future of Life Science Research**

Martin Kopecky, Specion s.r.o., Czech Republic

12:55-13:00 **Sponsor's talk: TBD**

Ivan Novotny, Life M, Czech Republic

13:00-13:45 **Lunch break**

Session III Beginning of life

Chair: David Drutovic

13:45-14:10 **Revealing the Secrets of Ovulation**

Christopher Thomas, Marseille Developmental Biology Institute, France

14:10-14:35 **Errors at the beginning of life: aneuploidy and mammalian embryogenesis**

Tomasso Cavazza, University of Zurich, Switzerland

14:35-14:50 **Intrauterine administration of Lipiodol® enhances fertilization rate in mice inseminated with low sperm numbers**

Edgar del Llano, Université Grenoble Alpes, France

14:50-15:20 **Coffee break**

Session IV Early embryonic development

Chair: Helena Fulkova and David Drutovic

15:20-15:45 **Surveillance of chromosome segregation in early embryos**

Martin Anger, IAPG CAS, Czech Republic

15:45-16:10 **Zygotic spindle orientation defines cleavage pattern and nuclear status of human embryos**

Volodymyr Porokh, Masaryk University, Czech Republic

16:10-16:55 **Keynote lecture: Determining the molecular and genetic causes of egg aneuploidy**

Karen Schindler (via web conference), Rutgers University, USA

16:55-17:00 **Concluding remarks**

David Drutovic



**Institute of Animal Physiology
and Genetics CAS**



Institute of Molecular Genetics of the Czech Academy of Sciences

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