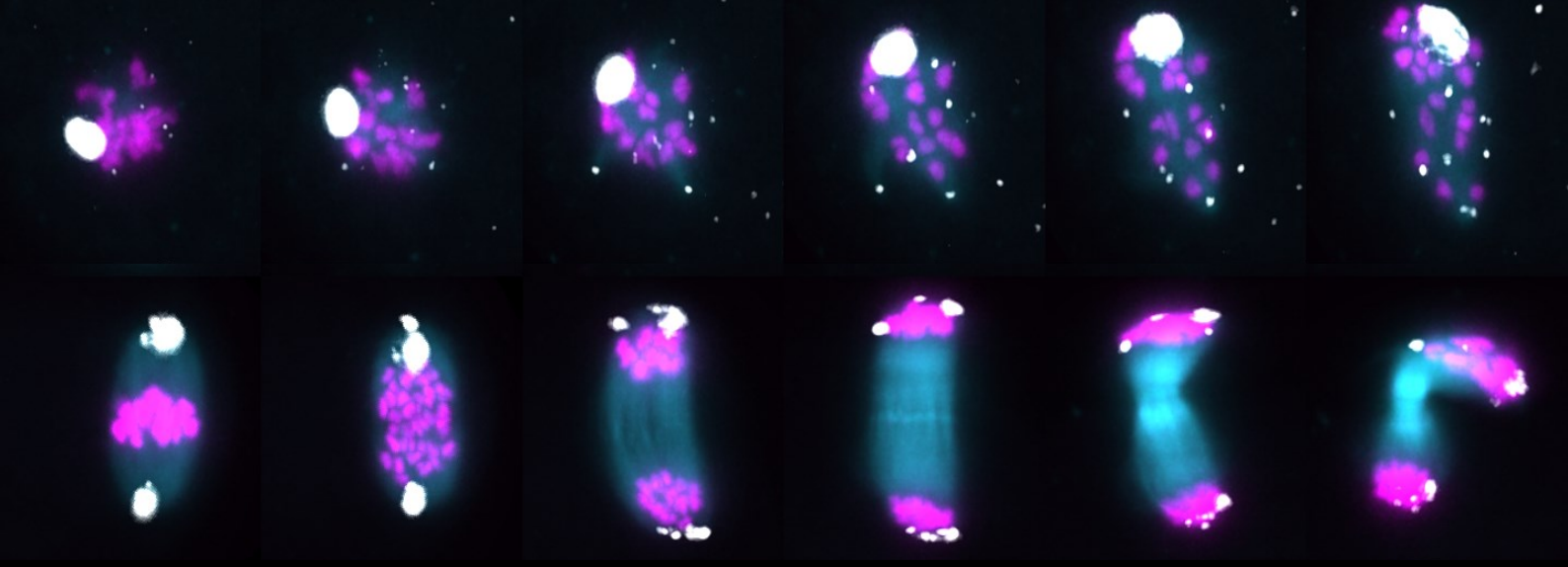


III. Oocyte Day

13th of October 2026

Milan Hasek Auditorium at IMG CAS, Videnska 1083, Prague

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

09:30-09:35 **Opening remarks**
David Drutovic, Institute of Animal Physiology and Genetics of the Czech Academy of Sciences (**IAPG CAS**), Czech Republic

Session I **Mechanisms of oocyte division and chromosome segregation**
Chair: David Drutovic

09:35-10:20 **Keynote lecture: Spatiotemporal regulation of the oocyte spindle: New insights into aneuploidy origins**
Ahmed Balboula, University of Missouri, USA

10:20-10:50 **Mechanics of oocyte divisions and impact on oocyte quality**
Marie-Emilie Terret, Center for Interdisciplinary Research in Biology, College de France, France

10:50-11:25 **Coffee break**

Session II **Genome integrity and genetic transmission**
Chair: Andrej Susor, IAPG CAS, Czech Republic

11:25-12:10 **Keynote lecture: The impact of genetic cheating on mammalian reproduction and speciation**
Takashi Akera, National Heart, Lung, and Blood Institute, USA

12:10-12:35 **DNA single-strand breaks in mouse oocytes**
Jerzy Dobrucki, Jagiellonian University in Krakow, Poland

12:35-13:00 **Turning back the time: Reversing DNA damage in aging oocytes**
Helena Fulkova, Institute of Experimental Medicine CAS, Czech Republic

13:00-13:05 **Group photo**

13:05-14:00 **Lunch break**

14:00-14:10 **ART for Future – the AV21 Strategy program**
Martin Anger, IAPG CAS, Czech Republic

Session III **Advanced methods in oocyte research**
Chairs: Volodymir Porokh, Masaryk University, Czech Republic, and David Drutovic

14:10-14:20 **Sponsor's talk: Microscopy innovations from Leica Microsystems: Transforming the future of life science research and clinical**
Martin Kopecky, Specion s.r.o., Czech Republic

14:20-14:45 **Studying cell cycle regulation in oocyte meiosis I by imaging mass cytometry**
Suzanne Madgwick, Newcastle University, United Kingdom

14:45-15:05 **3D insights into the sperm-egg interaction and fertilization**
Lukas Ded, Institute of Biotechnology CAS, BIOCEV, Czech Republic

15:05-15:30 **Organization of the Juno and CD9 protein network in the mouse oolemma**
Michaela Frolikova, Institute of Biotechnology CAS, BIOCEV, Czech Republic

15:30-16:00 **Coffee break**

Session IV **Early-career researchers in oocyte and embryo biology**
Chair: Alexander Bruce, University of South Bohemia, Czech Republic

16:00-16:20 **Why a tiny genetic switch is key to female fertility: The story of TBPL2 in mouse oocytes**
Emmanuel Garcia Sanchez, University of Strasbourg, France; IAPG CAS, Czech Republic

16:20-16:40 **Translational downregulation as a key determinant of anaphase progression in oocytes**
Kianoush Kakavand, IAPG CAS, Czech Republic

16:40-17:00 **Beyond specification: How is the mouse blastocyst trophectoderm lineage maintained?**
Rebecca Collier, University of South Bohemia, Czech Republic

17:00-17:05 **Concluding remarks**
David Drutovic

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