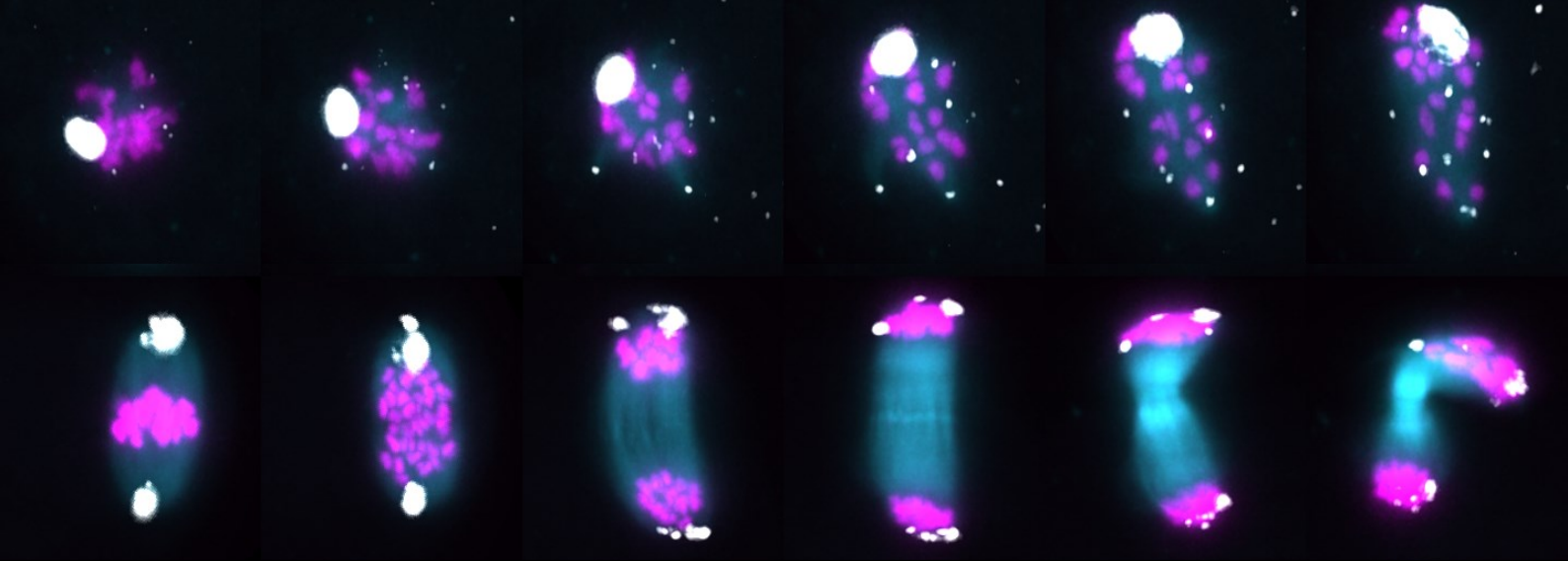




III. Oocyte Day

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 Akeru, 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



**Institute of Animal Physiology
and Genetics CAS**



Institute of Molecular Genetics of the Czech Academy of Sciences

