



## Oocyte day

January 22, 2019 10:00 AM – 4:40 PM

Viničná 7, Prague 2 Lecture Hall "Fotochemie"

Participation is free of charge, students are welcome

Please, register using online form (link)

## **Program:**

In commemoration of the half-centennial anniversary of identification of starfish 1-methyladenine, the first oocyte maturation hormone in metazoans: Its signaling pathways that lead to meiotic G2/M-phase transition

Takeo Kishimoto, Ochanomizu University, Tokyo, Japan

#### Mammalian oocyte surgery

Josef Fulka, Institute of Animal Science, Prague – Uhrineves, Czech Republic

Chromosome-specific errors in meiosis shape the J curve of human aneuploid conceptions

Jennifer Rose Gruhn, *University of Copenhagen, DNRF Center for Chromosome Stability, Copenhagen, Denmark* 

Human egg maturity assessment for optimal timing of in vitro fertilization

Zuzana Holubcová, Masaryk University, Faculty of Medicine, Brno; Reprofit International s.r.o., Brno, Czech Republic

Roles of three Aurora kinases (A, B, C) in spindle formation and chromosome segregation during mammalian oocyte meiosis

David Drutovic, Institute of Animal Physiology and Genetics ASCR, Pigmod Centre, Libechov, Czech Republic

Endocrine disrupting effect of bisphenol S (BPS): deleterious for oocyte quality in extremely low doses

Jan Nevoral, Charles Univerzity, Faculty of Medicine in Pilsen, Biomedical Center, Pilsen, Czech Republic

New Leica THUNDER for advanced widefield imaging in live cells and embryology

Martin Kopecky, Pragolab, Prague

Evolution of genes and gene expression in oocytes

Petr Svoboda, Institute of Molecular Genetics ASCR, Prague, Czech Republic

Oocyte: translation in space and time

Andrej Susor, Institute of Animal Physiology and Genetics ASCR, Libechov, Czech Republic

### Organized by

Petr Solc1,2 and Jan Motlik1

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# **Oocyte Day Program:**

10:00 – 10:05	Meeting opening
10:05 – 10:15	Introduction Jan Motlik, Institute of Animal Physiology and Genetics ASCR, Libechov, Czech Republic
Key note lecture 10:15 – 11:15	In commemoration of the half-centennial anniversary of identification of starfish 1-methyladenine, the first oocyte maturation hormone in metazoans: Its signaling pathways that lead to meiotic G2/M-phase transition  Takeo Kishimoto, Ochanomizu University, Tokyo, Japan
11:15 – 11:45	Mammalian oocyte surgery  Josef Fulka, Institute of Animal Science, Prague – Uhrineves, Czech Republic
11:45 – 12:10	coffee break
Key note lecture 12:10 – 13:00	Chromosome-specific errors in meiosis shape the J curve of human aneuploid conceptions  Jennifer Rose Gruhn, University of Copenhagen, DNRF Center for Chromosome Stability, Copenhagen,  Denmark
13:00 – 13:20	Human egg maturity assessment for optimal timing of in vitro fertilization  Zuzana Holubcová, Masaryk University, Faculty of Medicine, Brno; Reprofit International s.r.o., Brno, Czech  Republic
13:20 – 14:20	lunch
14:20 – 14:40	Roles of three Aurora kinases (A, B, C) in spindle formation and chromosome segregation during mammalian oocyte meiosis  David Drutovic, Institute of Animal Physiology and Genetics ASCR, Pigmod Centre, Libechov, Czech Republic
14:40 – 15:00	Endocrine disrupting effect of bisphenol S (BPS): deleterious for oocyte quality in extremely low doses  Jan Nevoral, Charles University, Faculty of Medicine in Pilsen, Biomedical Center, Plzen, Czech Republic
15:00 – 15:20	coffee break
15:20 – 15:40	New Leica THUNDER for advanced widefield imaging in live cells and embryology  Martin Kopecky, <i>Pragolab, Prague</i>
15:40 – 16:10	Evolution of genes and gene expression in oocytes  Petr Svoboda, Institute of Molecular Genetics ASCR, Prague, Czech Republic
16:10 – 16:30	Oocyte: translation in space and time  Andrej Susor, Institute of Animal Physiology and Genetics ASCR, Libechov, Czech Republic
16:30 – 16:40	concluding remarks