

Programme:

Day 1st – 20th September, 2010

08:00 – 09:30	Registration
09:30 – 10:00	Opening the Symposium
10:00 – 10:30	Key note lecture Takeo KISHIMOTO <i>Tokyo Institute of Technology, Japan</i> „The cell cycle control: Lessons from starfish oocytes“
10:30 – 11:00	Commemorative medal for Takeo Kishimoto Jan MOTLIK <i>Institute of Animal Physiology and Genetics AS CR, Libečohov, Czech Republic</i> Helena ILLNEROVA <i>Academy of Science of the Czech Republic, Prague, Czech Republic</i>
11:00 – 11:20	Coffe break
11:20 – 11:30	Opening topic 1: Oocytes Chair-men: Takashi MIYANO, Radek PROCHAZKA
11:30 – 11:55	Jibak LEE, Tatsuya HIRANO <i>Chromosome Dynamics Laboratory, RIKEN Advanced Science Institute, Wako, Japan</i> „Regulation of chromosome dynamics by cohesins in mammalian meiosis“
11:55 – 12:20	Takashi MIYANO, Mohammad MONIRUZZAMAN <i>Graduate School of Agricultural Science, Kobe University, Kobe, Japan</i> „Activation and inactivation of primordial oocytes“
12:20 – 12:45	Koji SUGIURA^{1,2}, You-Qiang SU¹, John J. EPPIG¹ ¹ <i>The Jackson Laboratory, Bar Harbor, ME, USA.</i> ² <i>Laboratory of Applied Genetics, Graduate School of Agricultural and Life Science, The University of Tokyo, Tokyo, Japan</i> „Oocyte control of granulosa cell function and development“
12:45 – 13:10	Yuji HIRAO, Kosuke IGA, Kenji NARUSE, Naoki TAKENOUCI <i>National Agricultural Research Center for Tohoku Region (NARCT), Morioka, Japan</i> „In vitro growth of bovine oocyte-granulosa cell complexes after vitrification“
13:10 – 14:10	Lunch break
14:10 – 14:35	Radek PROCHAZKA <i>Institute of Animal Physiology and Genetics AS CR, Libečohov, Czech Republic</i> „Regulation of pig oocyte maturation by EGF-like peptides“

14:35 – 15:00	<p>Sugako OGUSHI¹, Yasuko KATO¹, Akira NAKAMURA¹, Mitinori SAITOU² ¹Laboratory for Germline Development, RIKEN Center for Developmental Biology, Kobe, Japan. ²Department of Anatomy and Cell Biology, Graduate School of Medicine, Kyoto University, Kyoto, Japan. „Functional analysis of maternal nucleolus in mouse oocytes“</p>
15:00 – 15:25	<p>Petr SOLC Institute of Animal Physiology and Genetics AS CR, Libechov, Czech Republic „Aurora-A regulates MTOCs (centrosome) biogenesis but it does not trigger G2/M transition in mouse oocytes matured in vivo“</p>
15:25 – 15:50	<p>Martin ANGER Institute of Animal Physiology and Genetics AS CR, Libechov, Czech Republic „Age-related aneuploidy in mammalian oocytes“</p>
15:50 – 16:10	Coffe break
16:10 – 18:30	Poster session Poster competition: Jan MOTLIK, Kazuhiro KIKUCHI
18:30 – 19:00	Free time
19:00 – 20:30	Galla dinner
20:30 – 21:00	„Baldrián“, the folklore group from Pardubice, Czech Republic
21:00	Drinks

Day 2nd – 21st September, 2010

08:30 – 08:40

Opening topic 2: Fertilization

Chair-men: **Jiri KANKA, Naomi KASHIWAZAKI**

08:40 – 09:05

Junya ITO^{1,2}, Rafael A. FISSORE³, Naomi KASHIWAZAKI^{1,2}

Laboratory of Animal Reproduction,

¹*School of Veterinary Medicine,*

²*Graduate School of Veterinary Science, Azabu University, Sagami-hara, Japan.*

³*Department of Veterinary & Animal Sciences, University of Massachusetts, Amherst, USA*

„Factors associated with calcium oscillations during fertilization in mammals“

09:05 – 09:30

Konosuke OKADA

Faculty of Applied Life Science, Nippon Veterinary and Life Science University, Masashio, Japan

„Vole sperm cryopreservation: assessments of viability, sperm DNA integrity and fertilizing capacity“

09:30 – 09:55

Tereza TORALOVA

Institute of Animal Physiology and Genetics AS CR, Libechov, Czech Republic

„The role of CENPF in bovine preimplantation development“

09:55 – 10:20

Helena FULKA

Institute of Animal Science, v.v.i., Prague-Uhrineves, Czech Republic

„From oocyte to embryo – remodeling the parental genomes“

10:20 – 10:40

Coffe break

10:40 – 10:50

Opening topic 3: Stem cells

Chair-men: **Ales HAMPL, Noboru MANABE**

10:50 – 11:15

Ales HAMPL

Department of Biology, Medical Faculty of Masaryk University, Brno, Czech Republic

„Human embryonic stem cells“

11:15 – 11:40

Zuzana KOLEDOVA

Department of Biology, Medical Fac of Palacky University, Olomouc, Czech Republic

„Centrosomal decisions on self-renewal in mouse embryonic stem cells“

11:40 – 12:05

Petr VODICKA

Institute of Animal Physiology and Genetics AS CR, Libechov, Czech Republic

„iPS cells in miniature pigs“

12:05 – 12:30

Jana JUHASOVA-HLUCILOVA

Institute of Animal Physiology and Genetics AS CR, Libechov, Czech Republic

„Bone marrow-derived mesenchymal stem for the regeneration of cartilage and bone“

12:30 – 12:55

Helena SKALNIKOVA

Institute of Animal Physiology and Genetics AS CR, Libechov, Czech Republic

„Proteomics of neural stem cells isolated from miniature pigs“

13:00 – 14:00	Lunch break
14:00 – 14:10	Opening topic 4: Genetics manipulation Chair-men: Josef FULKA, Takashi NAGAI
14:10 – 14:35	Atsuo OGURA , Kimiko INOUE <i>RIKEN BioResource Center, Tsukuba, Japan</i> „Improvement of somatic cell nuclear transfer in mice: Genetic and epigenetic approaches“
14:35 – 15:00	Masahiro KANEDA , Tamas SOMFAI, Seiki HARAGUCHI, Satoshi AKAGI, Shinya WATANABE, Takashi NAGAI <i>National Institute of Livestock and Grassland Science, National Agriculture and Food Research Organization, Tsukuba, Japan</i> „Normal and abnormal epigenetic changes in the development of cloned cattle“
15:00 – 15:25	Noboru MANABE ¹ , Ichiro ONOYAMA ¹ , Junyou LI ¹ , Yutaka SENDAI ² , Yoshito AOYAGI ³ ¹ <i>Animal Resource Science Center, The University of Tokyo, Kasama, Japan.</i> ² <i>Central Research Institute for Feed and Livestock, Zen-Noh, Tsukuba, Japan.</i> ³ <i>Embryo Transfer Center, Zen-Noh, Kami-Shihoro, Japan.</i> „Characteristics of prion, bovine spongiform encephalopathy (BSE) pathogen, homo-knockout cow“
15:25 – 15:50	Michiko NAKAI ¹ , Kazuhiro KIKUCHI ¹ , Junya ITO ^{2,3} , Naomi KASHIWAZAKI ^{2,3} , Hiroyuki KANEKO ¹ ¹ <i>Division of Animal Sciences, National Institute of Agrobiological Sciences, Tsukuba, Japan.</i> <i>Laboratory of Animal Reproduction,</i> ² <i>School of Veterinary Medicine,</i> ³ <i>Graduate School of Veterinary Medicine, Azabu University, Sagamihara, Japan.</i> „Xenotransplantation of gonadal tissue for utilization of genetic resources in pigs“
15:50 – 16:15	Stefan JUHAS <i>Institute of Animal Physiology and Genetics AS CR, Libechov, Czech Republic</i> „Miniature pig as a large animal model of Huntington disease“
16:15 – 16:30	Closing of the Symposium