

国際生殖シンポジウムおよび 日本・ポーランド二国間交流事業共同セミナーの ご案内

第 104 回日本繁殖生物学会大会（2011 年 9 月 15 日（木）～17 日（土））を岩手県盛岡市のいわて県民情報交流センター・アイーナを会場として開催いたしますが、大会前の 9 月 13 日（火）～15 日（木）に国際生殖シンポジウム「生殖生物学の革命と展望：体外受精，胚性幹細胞，エピジェネティクスの展望」並びに日本・ポーランド二国間交流事業共同セミナー「生殖生理学の現状と将来—配偶子形成から新生子誕生まで—」を開催いたします。若干期間が長くなりますが是非多数の皆様のご参加をお待ちしています。

期日 2011 年 9 月 13 日（火）～ 15 日（木）
(第 104 回大会：9 月 15 日（木）～17 日（土）)

会場 いわて県民情報交流センター・アイーナ
〒020-0045 岩手県盛岡市盛岡駅西通 1 丁目 7 番 1 号
(国際生殖シンポジウムの一部の講演はメトロポリタン盛岡 NewWing にて行います)
(第 104 回大会もいわて県民情報交流センター・アイーナにて開催します)

参加費 無料

レセプション 9 月 13 日（火） 国際シンポジウム・セミナー終了後

場所：メトロポリタン盛岡 NewWing

ご希望の方は第 104 回大会懇親会とは別にお申し込みが必要となりますので、事務局（srd104@iwate-u.ac.jp）まで事前にお申し込みください。当日受付はいたしません。会費は 5,000 円です。

問い合わせ先 srd104@iwate-u.ac.jp

岩手大学農学部：澤井 健，木崎 景一郎

International Meeting
for
Evolution of Reproductive Biology and Task of Frontiers:
Trajectory and Prospects of IVF, Stem Cell and Epigenetic Studies.

Date: September 13 – 15, 2011

Place: AIINA hall and Metropolitan Morioka New Wing

Tuesday, 13

Opening Remark for International Symposium

15:40-15:45 Kazuyoshi Hashizume (Iwate University)

Session 1. Frontiers for in vitro fertilization, embryo culture and embryo transfer

Chairpersons: Takashi Nagai (National Institute of Livestock and Grassland Science)
Atsuo Ogura (RIKEN BioResource Center)

15:45-16:15 Yutaka Toyoda (Obihiro University of Agriculture and Veterinary Medicine)
A historical perspective on IVF, in vitro embryo culture and ET in Japan

16:15-16:50 Christopher G. Grupen (The University of Sydney)
Frontiers of IVF in livestock species: Factors affecting efficiency

16:50-17:10 Hiroshi Suzuki (Obihiro University of Agriculture and Veterinary Medicine)
Puppies from frozen embryos

17:10-17:45 George E. Seidel, Jr. (Colorado State University)
Sexing mammalian sperm

17:45-18:20 Jean-Paul Renard (INRA-CNRS-ENVA)
From a functional to a molecular assessment of totipotency

18:20-18:40 Kazuhiro Kikuchi (National Institute of Agrobiological Sciences)
Abnormality and the restoration of *in vitro*-produced porcine embryos

Plenary Speech (Metropolitan Morioka New Wing)

Chairperson: Noboru Manabe (The University of Tokyo)

19:00-19:45 Ryuzo Yanagimachi (University of Hawaii John A. Burns School of Medicine)
Fertilization studies and assisted fertilization in mammals: Their
development and future

20:00-21:30 Reception *Metropolitan Morioka New Wing*

Wednesday, 14

Session 2. Embryonic Cell Differentiation and Functions in Feto-maternal Dialogue

Chairpersons: Masashi Takahashi (National Agricultural Research Center for Kyushu Okinawa Region)
Hiromichi Matsumoto (Utsunomiya University)

13:00-13:20 Atsuo Ogura (RIKEN BioResource Center)
Critical involvement of aberrant X chromosome inactivation in the defective postimplantation development of cloned embryos

13:20-13:55 Haibin Wang (Chinese Academy of Sciences)
Molecular determinants of blastocyst competency for implantation

13:55-14:15 Satoshi Tanaka (The University of Tokyo)
Difference in the DNA methylation status arises after segregation of trophoblast and embryonic cell lineages

14:15-14:50 Michael J. Soares (University of Kansas Medical Center)
Regulatory pathway controlling uterine spiral artery remodeling

14:50-15:10 Tea Break

Chairpersons: Kazuhiko Imakawa (The University of Tokyo)
Satoshi Tanaka (The University of Tokyo)

15:10-15:30 Toru Takahashi (National Institute of Agrobiological Sciences)
Novel proteins affecting cell proliferation and angiogenesis of bovine placenta

15:30-16:05 Fuller W. Bazer (Texas A & M University)
Select nutrients in the uterine lumen of sheep and pigs affect conceptus development

16:05-16:40 Niamh Forde (University College Dublin)
Gene expression in the bovine endometrium: The effects of altered progesterone concentrations and the presence of the conceptus

16:40-17:00 Nobuhiko Yamauchi (Kyushu University)
Development of the endometrial spheroids as a model for implantation *in vitro*

17:00-17:35 Thomas E. Spencer (Washington State University)
Endogenous Retroviruses: A Model System for Understanding Physiological Adaptation to a Rapidly Evolving Ruminant Genome

17:35-17:55 Koji Yoshinaga (NIH)
Summary of the Day: Future of Implantation Studies

Thursday, 15

Session 3. Stem Cells and Epigenetics

Chairperson: Kunio Shiota (The University of Tokyo)

13:30-14:00 Shintaro Yagi (The University of Tokyo)
DNA methylation profiling by tissue-dependent and differentially methylated regions (T-DMRs) in pluripotent stem cells: insights into genome organization

14:00-14:30 Yasuhisa Matsui (Tohoku University)
Epigenetic regulation of primordial germ cell development

14:30-15:00 Yoshinori Seki (Albert Einstein College of Medicine)
Exposure to a maternal high fat milieu alters the hepatic epigenome in mice

15:00-15:30 Masako Suzuki (Albert Einstein College of Medicine)
Genome-wide DNA methylation profiling of male and female mouse embryonic stem cell differentiation using Massively Parallel Sequencing

15:30-15:45 Tea Break

15:45-16:15 Kenichiro Hata (National Research Institute for Child Health and Development)
Epigenetics of human reproduction and developmental abnormality

Special Lecture:

16:15-17:00 Scott Coonrod (Cornell University)
Role for PAD enzymes in chromatin structure, gene regulation, and disease.

17:00-17:20 Discussion with all invited speakers

Closing Remark for International Meeting

17:35-17:50 Noboru Manabe (The University of Tokyo)

JSPS Japan-Poland Joint Seminar
Cutting-edge Reproductive Physiology – from Gamete to Baby –

Date: September 13-15, 2011

Place: AIINA hall

Tuesday, 13

Opening Remark for Japan-Poland Joint Seminar

13:00-13:25 Kiyoshi Okuda (Okayama University)

Session 1.

Chairpersons: Noboru Manabe (The University of Tokyo)

Kazuhiro Kikuchi (National Institute of Agrobiological Science)

13:25-13:45 Masayuki Shimada (Hiroshima University)

Cumulus cells play an important role to induce meiotic resumption and progression of oocyte

13:45-14:05 Wojciech Nizanski (Wroclaw University of Environmental and Life Sciences)

Susceptibility of particular sperm cell features to damages of long term-storage of liquid semen in normospermic boars

14:05-14:25 Yuji Hirao (Tohoku Agricultural Research Center)

Isolation of ovarian components essential for oocyte growth in vitro

14:25-14:45 Michal H. Wrobel (Institute of Animal Reproduction and Food Research of Polish Academy of Sciences)

Impairments of reproductive tract function in cows under influence of environmental pollutants

14:45-15:05 Ken Sawai (Iwate University)

Regulation mechanisms of gene expression in bovine embryos derived from somatic cell nuclear transfer

15:05-15:25 Zofia E. Madeja (Poznan University of Life Sciences)

Searching for optimal conditions and time point for the derivation of bovine embryonic stem cells (bESC): pluripotency markers gene expression.

Wednesday, 14

Session 2.

Chairpersons: Akio Miyamoto (Obihiro University of Agriculture and Veterinary Medicine)
Hiroko Tsukamura (Nagoya University)

- 9:00-9:20 Yoshihisa Uenoyama (Nagoya University)
Kisspeptin: a key molecule controlling the activity of the hypothalamo-pituitary-gonadal axis
- 9:20-9:40 Dorota A. Zieba (Agricultural University in Krakow)
Neuroendocrine regulation of seasonality in sheep
- 9:40-10:00 Komei Shirasuna (Obihiro University of Agriculture and Veterinary Medicine)
The corpus luteum development regulated by angiogenic factors and polymorphonuclear neutrophils in the cow
- 10:00-10:20 Nina M. Smolinska (University of Warmia and Mazury in Olsztyn)
Regulation of corpus luteum function by factors associated with control of energy homeostasis
- 10:20-10:35 Tea Break

Session 3.

Chairpersons: Kiyoshi Okuda (Okayama University)
Toru Takahashi (National Institute of Agrobiological Science)

- 10:35-10:55 Toshihiro Sakurai (The University of Tokyo)
Establishment of in vitro assessment system for conceptus attachment to the uterine epithelial cells
- 10:55-11:15 Agnieszka Blitek (Institute of Animal Reproduction and Food Research of Polish Academy of Sciences)
The role of HOXA10 as a marker of endometrial receptivity
- 11:15-11:35 Hiroki Hirayama (Animal Research Center, Hokkaido Research Organization)
Plasma estrogen concentration and placental regulation of estrogen activity at parturition in cows carrying a somatic clone fetus
- 11:35-11:55 Dorota DARMOCHWAL-KOLARZ (Medical University of Lublin)
The role of immunological disturbances in the pathogenesis of pre-eclampsia.

Thursday, 15

Closing Remark for Japan-Poland Joint Seminar

- 17:20-17:35 Dariusz J. Skarzynski (Institute of Animal Reproduction and Food Research of Polish Academy of Sciences)