

International Symposium on
**Germ Cells, Epigenetics, Reprogramming and Embryonic Stem
Cells**
November 15-18, 2005 at Kyoto University

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Symposium Program with Lecture Titles

Nov. 15 (Tuesday)

- 11:00- Registration
- 12:00-13:30 Luncheon meeting of speakers
- 12:30-14:30 Poster Presentation I (germ cells, epigenetics)
- 14:30 Opening Remark: Norio Nakatsuji
- 14:40-16:55 **Session 1** (4 speaker x 30 min with 15 min break)
Chairs: Nakatsuji & McLaren
- S1 **Anne McLaren:** From primordial germ cells to pluripotent stem cells
- S2 **Azim Surani:** Epigenetic programming of the genome in the embryo and germ cells
- S3 **Hiroyuki Sasaki:** Role of de novo DNA methylation in gametogenesis and genomic imprinting
- S4 **Tomohiro Kono:** Parental responsibility to mammalian development
- 17:30-19:00 Reception

Nov. 16 (Wednesday)

- 9:30 -13:15 **Session 2** (germ cells, 7 speakers x 30 min with 15 min break)
Chairs: Matsui & Nakano
- S5 **Guang-Quan Zhao:** Growth factor signaling pathways in pluripotency
- S6 **Kuniya Abe:** Comprehensive analyses of genetic programs for mouse primordial germ cell development
- S7 **Yasuhisa Matsui:** Epigenetic control of meiosis
- S8 **Toshiaki Noce:** Vasa (Mvh)-expressing germ cells during in vivo development and in vitro culture of ES cells
- S9 **Toru Nakano and Satomi Miyagawa:** Mouse Piwi family genes in germ cell development and epigenetic gene regulation

- S10 **Norio Nakatsuji and Shinichiro Chuma:** Tudor-related proteins and the germ cell nuage in mice
- S11 **Jonathan L. Tilly:** Mammalian female germline stem cells and oocyte renewal
- 13:15-14:30 Luncheon meeting of speakers
- 14:00-15:30 Poster Presentation I (germ cells, epigenetics)
- 15:30-18:00 **Session 3** (germ cells, epigenetics, reprogramming, 5 speakers x 30 min)
Chairs: Okabe & Noce
- S12 **Masaru Okabe:** Easy sexing of preimplantation mouse embryos and observation of sex differentiation in germ cells and in blastocysts
- S13 **Takashi Shinohara:** Culture of mouse male germline stem cells
- S14 **Kentaro Yomogida:** maintenance of germinal stem cell in the microenvironment
- S15 **Yayoi Obata:** Mechanism for establishment of sex-specific imprinting in mouse gametogenesis
- S16 **Hans Schoeler:** Reprogramming of somatic nuclei in oocytes and ES Cells
- 19:00-21:00 Banquet

Nov. 17 (Thursday)

- 9:30-12:45 **Session 4** (epigenetics, reprogramming, 6 speakers x 30 min with 15min break)
Chairs: Sasaki & Shiota
- S17 **En Li:** Epigenetic regulation of embryonic stem cell proliferation and differentiation
- S18 **Masaki Okano:** Epigenetic regulation during mouse embryogenesis by DNA methylation
- S19 **Anne Ferguson-Smith:** Epigenetic control of gene activity and repression at imprinted domains
- S20 **Fumitoshi Ishino:** Retrotransposon-derived imprinted genes that are essential for placental formation and function in mice
- S21 **Thomas Jenuwein:** The epigenome in the context of the post-genomic era
- S22 **Kunio Shiota:** Genome-wide epigenetics of stem, germ and somatic cells
- 12:45-14:00 Luncheon meeting of speakers
- 14:00-15:30 Poster Presentation II (reprogramming, ES cells)

- 15:30-18:45 **Session 5** (reprogramming, 6 speakers x 30 min with 15min break)
Chairs: Tsunoda & Ogura
- S23 **Jean-Paul Renard, M. Rielland, A. Jouneau:** Blastocysts obtained from embryonic or somatic nuclei exhibit early alteration in trophoblast growth both *in vivo* and *in vitro*
- S24 **Xiangzhong Yang:** Somatic cell cloning and nuclear reprogramming - state of the technology and my dreams
- S25 **Yukio Tsunoda and Yoko Kato:** Assessment of cloned embryo quality
- S26 **Atsuo Ogura:** Cloning mice from differentiated and undifferentiated cells
- S27 **Teruhiko Wakayama:** Normality of nuclear transfer embryonic stem cell lines derived from adult somatic cells
- S28 **Gerald Schatten:** Patient-specific, primate-specific and disease specific embryonic stem cells from cloned blastocysts: Scientific opportunities and medical challenges
- 19:00-21:00 Reception

Nov. 18 (Friday)

- 9:30-13:15 **Session 6** (ES cells, 7 speakers x 30 min with 15min break)
Chairs: Niwa & Yokota
- S29 **Woo Suk Hwang:** Pluripotent patient-specific nuclear transfer embryonic stem cells and its potential applications
- S30 **Minoru Ko:** Defining developmental potency by global expression profiling of stem cells
- S31 **Takashi Yokota:** Mechanism of self-renewal of mouse embryonic stem cells
- S32 **Pierre Savatier:** Cell-cycle control and self-renewal in ES cells.
- S33 **Shinya Yamanaka:** Pluripotency and the homeobox protein Nanog
- S34 **Martin Pera:** Control of self renewal and early lineage commitment of human embryonic stem cells
- S35 **Hitoshi Niwa:** Interaction between Oct3/4 and Cdx2 determines trophectoderm differentiation
- 13:15-14:30 Luncheon meeting for speakers
- 14:00-15:30 Poster Presentation II (reprogramming, ES cells)
- 15:30-18:00 **Session 7** (ES cells, 5 speakers x 30 min)
Chairs: Nakauchi & Lemischka
- S36 **George Daley:** Directing ES cell fate : Germ lineage and trophoblast determination

- S37 **Koji Eto:** Embryonic stem cell-derived platelets having the potential of normal hemostasis.
- S38
- S39 **Austin Smith:** From embryonic stem(ES) cells to neural stem(NS) cells
- S40 **Ihor Lemischka:** Exploring cell fate regulation in embryonic stem cells.
- 18:00 Concluding remark: Hiro Nakauchi

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