

Symposium President

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Organizing Committee

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Kobe, Japan

SHIN-ICHI NISHIKAWA
RIKEN Center for Developmental Biology
Kobe, Japan

HANS R. SCHÖLER
Max Planck Institute for Molecular Biomedicine
Münster, Germany

General Information

Venue of opening lecture:
The Garden Oriental Soshuen
4-7-28, Sumiyoshi-yamate, Higashinada-ku,
Kobe, 658-0063, Japan
Phone: +81-78-851-32 27

Venue of workshop:
RIKEN Center for Developmental Biology (CDB)
2-2-3 Minatojima-minami-machi, Chuo-ku
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Workshop 60

September 1–3, 2005



RIKEN Kobe since 2000



- ↑ To the Garden Oriental Soshuen
- 🏠 RIKEN Center for Developmental Biology (CDB)
- Port Liner

Stem Cells in Reproduction and in the Brain

A workshop held as part of the “Germany in Japan Year” jointly organized by the Ernst Schering Research Foundation, (Berlin, Germany), the Max Planck Society (München, Germany) and the RIKEN Center for Developmental Biology (Kobe, Japan)



MAX-PLANCK-GESELLSCHAFT

Thursday, September 1st, 2005

Opening

Venue: **The Garden Oriental Soshuen**

6.00 p.m. Official opening of the Workshop by
GÜNTER STOCK, MASATOSHI TAKEICHI, HERBERT JÄCKLE

Opening Lecture

HERBERT JÄCKLE
*Max Planck Institute for Biophysical Chemistry,
Göttingen, Germany*
What lessons can regenerative medicine learn
from developmental biology?

7.30 p.m. Reception

Friday, September 2nd, 2005

Workshop

Venue: **RIKEN (CDB)**

9.00 a.m. MONIKA LESSL
Ernst Schering Research Foundation, Berlin, Germany
Remarks on behalf of the Ernst Schering
Research Foundation

Session I

Stem cell properties

Chairpersons: KAZUHIRO SAKURADA/HANS R. SCHÖLER

9.15 a.m. YANN BARRANDON
École Polytechnique Fédérale de Lausanne, Switzerland
Characterization of stem cells in the epidermis

10.00 a.m. SHIN-ICHI NISHIKAWA
RIKEN Center for Developmental Biology, Kobe, Japan
What is a stem cell niche?

10.45 a.m. Coffee break

11.15 a.m. JUNJI TAKEDA
Osaka University, Japan
Stem cell genome wide screening by disruption of
Bloom's gene

12.00 noon TOMOHIRO KONO
Tokyo Agricultural University, Japan
Parthenogenetic mice – what can we learn about
reprogramming?

12.45 p.m. Lunch

Friday, September 2nd, 2005

Session II

Transdifferentiation and fusion of stem cells

Chairpersons: PETER BRINGMANN/SHIN-ICHI NISHIKAWA

2.00 p.m. JEONG TAE DO
*Max Planck Institute for Molecular Biomedicine,
Münster, Germany*
Fusion as a means to establish pluripotency

2.45 p.m. PHILIPPE COLLAS
University of Oslo, Norway
Reprogramming by treatment of somatic cells with
nuclear extracts

3.30 p.m. MARTIN ZENKE
*Institute for Biomedical Technology-Cell Biology,
Aachen, Germany*
Molecular switches and developmental potential of
adult stem cells

4.15 p.m. Coffee break

Session III

Identification of stem cells

Chairpersons: JOHN MORSER/JUNJI TAKEDA

4.45 p.m. CHRISTOPHER S. POTTEN
University of Manchester, UK
Understanding the in vivo behavior of intestinal stem
cells

5.30 p.m. ROGER HAJJAR
Harvard Medical School, Boston, USA
In vivo tracking of stem cells

6.15 p.m. End of session

Saturday, September 3rd, 2005

Session IV

Stem cells and their role in reproduction

Chairpersons: STEVE GOLDMAN/KATJA PRELLE

9.00 a.m. SHIN-YONG MOON
Seoul National University, Korea
Human embryonic stem cell line derived from
a cloned blastocyst

Saturday, September 3rd, 2005

9.45 a.m. TERUHIKO WAKAYAMA
RIKEN Center for Developmental Biology, Kobe, Japan
Reprogramming by somatic cell nuclear transfer

10.30 a.m. Coffee break

11.00 a.m. HANS R. SCHÖLER
*Max Planck Institute for Molecular Biomedicine,
Münster, Germany*
Derivation of germ cells from embryonic stem cells

11.45 a.m. MITINORI SAITOU
RIKEN Center for Developmental Biology, Kobe, Japan
Germline recruitment; a genetic program for
epigenetic reprogramming

12.30 p.m. Lunch

Session IV *continued*

Stem cells and their role in reproduction

Chairpersons: JEONG TAE DO/ANDREA WAGENFELD

1.30 p.m. INA DOBRINSKI
University of Pennsylvania, Philadelphia, USA
Transplantation of germ line stem cells for the study
and manipulation of spermatogenesis

2.15 p.m. YUICHI NIIKURA
Harvard Medical School, Boston, USA
Origins and functions of mammalian female
germline stem cells

3.00 p.m. Coffee break

Session V

Neural stem cells

Chairpersons: BRANKA MITROVIC/MITINORI SAITOU

3.30 p.m. STEVE GOLDMAN
University of Rochester, NY, USA
Utility of oligodendrocyte precursors in treating
demyelinating diseases

4.15 p.m. HIDEYUKI OKANO
Keio University, Tokyo, Japan
Cell transplantation for treatment of spinal injury

5.00 p.m. JUN TAKAHASHI
Kyoto University, Japan
Treatment of primate Parkinson's with stem cells

5.45 p.m. Concluding remarks

6.00 p.m. End of workshop