Scientific Programme

Symposium President

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Kobe, Japan

HANS R. SCHÖLER
Max Planck Institute for Molecular Biomedicine
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General Information

Venue of opening lecture:
The Garden Oriental Soshuen
4-7-28, Sumiyoshi-yamate, Higashinada-ku,
Kobe, 658-0063, Japan
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Venue of workshop:
RIKEN Center for Developmental Biology (CDB)
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Workshop 60
September 1 – 3, 2005

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 (Münster, Germany) and the RIKEN Center for Developmental Biology (Kobe, Japan)
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. POTTERN
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

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 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 TAKASHI
Kyoto University, Japan
Treatment of primate Parkinson’s with stem cells

5.45 p.m. Concluding remarks

6.00 p.m. End of workshop