

Program for Nobel Conference®, June 18 – 20, 2012

Hematopoietic Stem Cells: From Basic Science to Regenerative Medicine

Place: Nobel Forum, Karolinska Institutet, Stockholm, Sweden

Monday, June 18, 2012

13:15 *Olle Ringdén and Sten Eirik Jacobsen, Karolinska Institutet.*
Welcome and opening remarks.

13:30-15:00 Hematopoietic Stem Cell Biology

Chair: *Katarina Le Blanc, Karolinska Institutet*

Irving L Weissman, Stanford University School of Medicine. Hematopoietic stem cells.

Paul S Frenette, Albert Einstein College of Medicine, New York. Hematopoietic stem cell niches.

Toshio Suda, Keio University, Tokyo. Regulation of hematopoietic stem cells.

15:00- 15:30 Coffee break

15:30 -16:30 Translational Stem Cell Biology

Chair: *C. I. Edvard Smith, Karolinska Institutet*

Tariq Enver, University College London. Gene Regulatory Networks Governing Hematopoietic Stem Cell Development and Identity.

Stefan Karlsson, Lund University, Sweden. Discovery of Novel Regulators for Hematopoietic Stem Cells.

16:30-17:30 Outcomes of Clinical Hematopoietic Stem Cell Transplantation

Chair: *Lorentz Brinch, Oslo University*

Jorge Sierra, Hospital Santa Creu i Sant Pau, Barcelona. Risk-adapted post remission treatment for AML: Transplantation of allogeneic/autologous hematopoietic stem cells or chemotherapy (30 min)

Andrea Bacigalupo, Hospital San Martino, Genova. HSCT in severe aplastic anemia. (30 min)

18:00 Dinner at Restaurant Stallmästaregården for seminar speakers and chairs. Bus transfer leaves from Nobel Forum at 17:45.

Tuesday, June 19, 2012

08:30-10:00 Graft-vs-Host Disease and Graft-vs-Leukemia

Chair: *Moustapha Hassan, Karolinska Institutet*

James Ferrara, University of Michigan Cancer Center, Ann Arbor. Serum Biomarkers: New insights into acute GI GVHD Pathophysiology. (30 min)

Anne Dickinson, Newcastle University. Genetic and clinical risk assessment of HSCT outcome and GvHD. (20 min)

Ernst Holler, University of Regensburg. Gut flora and GVHD. (20 min)

Britt-Marie Svahn, Karolinska Institutet. Home care may decrease graft-versus-host disease without harnessing graft-versus-leukemia. (15 min)

10:00-10:30 Coffee break

10:30-11:30 Leukemic Stem Cells

Chair: *Eva Hellstrom-Lindberg, Karolinska Institutet*

Scott A. Armstrong, Harvard Medical School, Boston. Genetic and Epigenetic Control of Leukemia Stem Cell Development.

Claus Nerlov, Edinburgh University. Lineage programming as a regulatory step in leukaemic stem cell formation.

11:30-12:30 Reduced Intensity Conditioning

Chair: *Mats Remberger, Karolinska Institutet*

Rainer Storb, Fred Hutchinson Cancer Research Center, Seattle. GVHD and GVT effects in HLA-matched HCT after minimal-intensity conditioning. (30 min)

Mohamad Mohty, University of Nantes. The European experience of reduced intensity conditioning. (30 min)

12:30-13:30 Lunch

13:30-15:15 Haploidentical Transplants and NK-cells

Chair: *Klas Kärre, Karolinska Institutet*

Yair Reisner, Weizmann Institute, Rehovot, Israel. Overcoming rejection in haploidentical HSCT via mega-dose HSC and other tolerizing cells : The role of deletion based mechanisms. (30 min)

Leo Luznik, Johns Hopkins University School of Medicine, Baltimore. Clinical Efficacy and Mechanisms of High-dose Cyclophosphamide for GVHD Prophylaxis after HLA-Mismatched Allografting. (25 min)

Karl-Johan Malmberg, Karolinska Institutet. NK Cell Repertoire Diversity and its Implications for Alloreactivity. (25 min)

Andrea Velardi, University of Perugia. Harnessing natural and adaptive immunity in haploidentical HSCT. (25 min)

15:15-15:45 Coffee break

15:45-17:30 Fungi, Immune Reconstitution and Immunotherapy

Chair: *Per Ljungman, Karolinska Institutet*

Luigina Romani, University of Perugia. Immunity to fungi: extending basic findings to therapeutic intervention. (30 min)

Hermann Einsele, University of Würzburg. Immunotherapy to reduce transplant-related mortality after stem cell transplantation.(30 min)

Markus Maeurer, Karolinska Institutet. Immune reconstitution. (15 min)

Willem E. Fibbe, Leiden University. Mesenchymal stem cells. (15 min)

18:30 Dinner. Boat tour for seminar speakers and chairs. Bus will pick up at hotel 18:30.

Wednesday, June 20, 2012

09:00-11:00 Novel Indications for HSC Transplantations

Chair: *Jonas Mattsson, Karolinska Institutet*

Jakub Tolar, University of Minnesota, Minneapolis. Hematopoietic stem cell transplantation in Epidermolysis Bullosa. (30 min)

Marco Bregni, San Raffaele Scientific Institute, Milano. The European experience of HSCT in solid cancers. (30 min)

Brigitta Omazic, Karolinska Institutet. Allogeneic stem cell transplantation in pancreatic carcinoma. (15 min)

Keith Sullivan, Duke University Medical Center, Durham. Stem cell transplantation in autoimmune disorders. (30 min)

11:00-11:30 Coffee break

11:30-12:30 Cord Blood Transplantation

Chair: *Gösta Gahrton, Karolinska Institutet*

Elizabeth J Shpall, MD Anderson Cancer Center, Houston. Cord blood expansion (30 min).

Vanderson Rocha, University of Oxford. Clinical results of cord blood transplantation in adults. (30 min)

12:30 Concluding Remarks, Ringdén and Jacobsen

12:45 Lunch

Faculty and Speakers – Nobel Conference at Karolinska Institutet 18-20 June 2012

Scott A. Armstrong, Harvard Medical School, Boston, USA
Andrea Bacigalupo, Hospital San Martino, Genova, Italy
Marco Bregni, San Raffaele Scientific Institute, Milano, Italy
Lorentz Brinch, Oslo University, Oslo, Norway
Anne Dickinson, Royal Victoria Infirmary, Newcastle, UK
Hermann Einsele, University of Würzburg, Germany
Tariq Enver, University College London, London, UK
James Ferrara, University of Michigan Cancer Center, Ann Arbor, MI, USA
Willem E. Fibbe, Leiden University Hospital, Leiden, The Netherlands
Paul S. Frenette, Albert Einstein College of Medicine, New York
Gösta Gahrton, Karolinska Institutet, Stockholm, Sweden
Moustapha Hassan, Karolinska Institutet, Stockholm Sweden
Eva Hellström-Lindberg, Karolinska Institutet, Stockholm, Sweden
Ernst Holler, University of Regensburg, Germany
Sten Eirik Jacobsen, Karolinska Institutet, Stockholm, Sweden
Stefan Karlsson, Lund University, Lund, Sweden
Klas Kärre, Karolinska Institutet, Stockholm, Sweden
Katarina Le Blanc, Karolinska Institutet, Stockholm, Sweden
Per Ljungman, Karolinska Institutet, Stockholm, Sweden
Leo Luznik, Johns Hopkins University School of Medicine, Baltimore, MD, USA
Markus Maeurer, Karolinska Institutet, Stockholm, Sweden
Karl-Johan Malmberg, Karolinska Institutet, Stockholm, Sweden
Jonas Mattsson, Karolinska Institutet, Stockholm, Sweden
Mohamad Mohty, University of Nantes, Nantes, France
Claus Nerlov, University of Edinburgh, UK
Brigitta Omazic, Karolinska Institutet, Stockholm, Sweden
Yair Reisner, Weizmann Institute of Science, Rehovot, Israel
Mats Remberger, Karolinska Institutet, Stockholm, Sweden
Olle Ringdén, Karolinska Institutet, Stockholm, Sweden
Vanderson Rocha, University of Oxford, UK
Luigina Romani, University of Perugia, Italy
Elizabeth J Shpall, MD Anderson Cancer Center, Houston, USA
Jorge Sierra, Hospital Santa Creu i Sant Pau, Barcelona, Spain

C. I. Edvard Smith, Karolinska Institutet, Stockholm, Sweden

Rainer Storb, Fred Hutchinson Cancer Research Center, Seattle, USA

Toshio Suda, Keio University, Tokyo

Keith Sullivan, Duke University, Durham, NC, USA

Britt-Marie Svahn, Karolinska Institutet, Stockholm, Sweden

Jakub Tolar, University of Minnesota, Minneapolis

Andrea Velardi, University of Perugia, Perugia, Italy

Irving L. Weissman, Stanford University School of Medicine, Stanford, U S A