



# HEMATOPOIETIC STEM CELLS III

TÜBINGEN • SEPTEMBER 14-16, 2000



## Program

### Chairpersons

Lothar Kanz, M.D.  
Donald Orlic, Ph.D.  
Saul J. Sharkis, Ph.D.

### Organizer

Tim H. Brümmendorf, M.D.



# University of Tübingen

## International Symposium and Workshop



Thursday, September 14<sup>th</sup>, 2000

8:00–8:30

WELCOME  
Kanz, L., Scientific Chairman  
Sandberger, G., Chancellor of the University of Tübingen

8.30–9:45

SESSION I  
STEM CELLS IN CELL CYCLE  
Chair: Lansdorp

Lansdorp, P. Turnover of Hematopoietic Stem Cells Estimated from  
Telomere Length Measurements  
Fibbe, W. Telomere Biology After HSC Transplantation  
Nakauchi, H. Quantitative Assessment of the Stem Cell Self-Renewal Capacity

COFFEE BREAK

10:10–11:50

SESSION II  
STEM CELL MOBILIZATION AND ENGRAFTMENT I  
Chair: Moore

Möhle, R. Transendothelial Migration of Hematopoietic Progenitor Cells:  
Role of Chemotactic Factors  
Moore, M. Chemokine and Cytokine Mobilization of  
Endothelial and Hematopoietic Stem Cells  
Papayannopoulou, T. Mobilization: Changing the Chemokine Gradient  
Quesenberry, P. Stem Cell Engraftment Strategies

LUNCH AT THE „FÜRSTENZIMMER“

13:00–14:15

SESSION III  
STEM CELL MOBILIZATION AND ENGRAFTMENT II  
Chair: Eaves

Eaves, C.J. Characterization of Human Hematopoietic Cells  
with Short-Lived In Vivo Repopulating Activity  
Ho, A. Homing and Self-Renewal of Hematopoietic Stem Cells  
Lapidot, T. Mechanism of Human Stem Cell Migration and Engraftment

COFFEE BREAK

14:30–15:45

SESSION IV  
GENETICS OF HEMATOPOIESIS  
Chair: Lemischka

Lemischka, I. Stem Cell Biology in the Era of Genomics  
Keller, G. Molecular Control of Hemangioblast Development  
Nishikawa, M. Genetic Analysis of Stromal Cells

COFFEE BREAK

16:15–17:30

SESSION V  
CYTOKINE AND CHEMOKINE REGULATION OF STEM CELLS  
Chair: Kaushansky

Broxmeyer, H. Chemokines and Hematopoiesis  
Ihle, J. Pathways in Cytokine Regulation of Hematopoietic Cells  
Kaushansky, K. Growth Factor Mimetics: Improving on Mother Nature?



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Friday, September 15<sup>th</sup>, 2000

8:30-10:10

SESSION VI:  
MALIGNANT HEMATOPOIESIS  
Chair: Metcalf

Metcalf, D.

The Biology of Normal and Leukemic Preprogenitor Cells

Brümmendorf, T.

Telomere Biology and Stem Cell Turnover in  
Chronic Myelogenous Leukemia

Löwenberg, B.

Growth Factor Receptors and Leukemia Progression

Welte, K.

Congenital Neutropenia: Mutations in the Neutrophil Elastase  
Gene in the Regulation of Hematopoiesis and Mutations of  
the G-CSF Receptor Gene in Leukemogenesis

COFFEE BREAK

10:30-12:10

SESSION VII  
BIOLOGY OF STEM CELLS I  
Chair: Spangrude

Ogawa, M.

Changing Phenotypes of Mouse Hematopoietic Stem Cells

von Kalle, C.

Clonal Composition of the Hematopoietic Stem Cell  
Compartment

Spangrude, G.

Delineation of Lymphoid Lineage Commitment in  
Adult Mouse Bone Marrow

Manz, M.

Dendritic Cell Development from Lineage Committed  
Hematopoietic Progenitor Cells

LUNCH AT THE „FÜRSTENZIMMER“

13:30-15:10

SESSION VIII  
BIOLOGY OF STEM CELLS II  
Chair: Dick

Bühring, H.-J.

The Monoclonal Antibody W7C5 Defines a Novel  
Surface Antigen on Stem Cells

Dick, J.

Complexity of the Human Stem Cell Compartment

Sharkis, S.

Degree of Hematopoietic Stem Cell Purification and  
CD34 Expression Increases with Stem Cell Homing

Simmons, P.J.

Digging in the Muc(ins) for Negative Regulators of Hematopoiesis

COFFEE BREAK

15:30-17:10

SESSION IX  
STEM CELL PLASTICITY  
Chair: Verfaillie

Goodell, M.

Muscle-Derived Hematopoietic Stem Cells

Orlic, D.

Hematopoietic Stem Cell Derived Myocytes

Verfaillie, C.

Phenotype, Proliferation and Differentiation  
Potential of Mesenchymal Stem Cells

Zanjani, E.

In Vivo Potential(s) of Human Stem Cells



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Saturday, September 16<sup>th</sup>, 2000

8:30-9:45

SESSION X  
GENE TRANSFER  
Chair: Stamatoyannopoulos

Dunbar, C. Insights Into Stem Cell Behaviour from Gene Marking Studies  
Vanin, E. Gene Transfer into Hematopoietic Stem Cells  
Stamatoyannopoulos, G. Stem Cell Gene Therapy

COFFEE BREAK

10:00-12:05

SESSION XI  
STEM CELLS IN CLINICAL PROTOCOLS  
Chair: Storb

Lucarelli, G. Recent Advances in Bone Marrow Transplantation  
in Thalassemia  
Reisner, Y. Stem Cell Transplantation Across Major Genetic Barriers  
Storb R. Hematopoietic Cell Transplantation for Human Disease:  
Replacing High-Dose Cytotoxic Therapy by the  
Allogeneic Effect  
Handgretinger, R. Immunological Aspects of Haploidentical Stem Cell  
Transplantation in Children  
Brugger, W. Dendritic Cell Based Vaccines in Patients with  
Hematological Malignancies

12:05-12:15

CONCLUDING REMARKS  
Kanz/Orlic/Sharkis

LUNCH AT THE „FÜRSTENZIMMER“