



BLOOD

The Journal of The American Society of Hematology

VOL 94, NO 11

CONTENTS

DECEMBER 1, 1999

COVER FIGURE

- Cover figure courtesy of Elefanty et al, "SCL Expression in the Mouse Embryo Detected With a Targeted *lacZ* Reporter Gene Demonstrates Its Localization to Hematopoietic, Vascular, and Neural Tissues" 3754

PLENARY PAPERS

- BSAP/Pax5A Expression Blocks Survival and Expansion of Early Myeloid Cells Implicating Its Involvement in Maintaining Commitment to the B-Lymphocyte Lineage M.Y. Chiang and J.G. Monroe 3621
 Human Signal-Regulatory Protein Is Expressed on Normal, But Not on Subsets of Leukemic Myeloid Cells and Mediates Cellular Adhesion Involving Its Counterreceptor CD47 M. Seiffert, C. Cant, Z. Chen, I. Rappold, W. Brugger, L. Kanz, E.J. Brown, A. Ullrich, and H.-J. Bühring 3633
 Thymic Repopulation by CD34⁺ Human Cord Blood Cells After Expansion in Stroma-Free Culture B. Verhasselt, T. Kerre, E. Naessens, D. Vanhecke, M. De Smedt, B. Vandekerckhove, and J. Plum 3644

PERSPECTIVE

- The Insulin-Like Growth Factor System in Normal and Malignant Hematopoietic Cells W. Zumkeller and S. Burdach 3653

CHEMOKINES

- Chronic Lymphocytic Leukemia B Cells Express Functional CXCR4 Chemokine Receptors That Mediate Spontaneous Migration Beneath Bone Marrow Stromal Cells J.A. Burger, M. Burger, and T.J. Kipps 3658

CLINICAL OBSERVATIONS, INTERVENTIONS, AND THERAPEUTIC TRIALS

- Interferon- α Before Allogeneic Bone Marrow Transplantation in Chronic Myelogenous Leukemia Does Not Affect Outcome Adversely, Provided It Is Discontinued at Least 90 Days Before the Procedure R. Hehlmann, A. Hochhaus, H.-J. Kolb, J. Hasford, A. Gratwohl, H. Heimpel, W. Siegert, J. Finke, G. Ehninger, E. Holler, U. Berger, M. Pfirrmann, A. Muth, A. Zander, A.A. Fauser, A. Heyll, C. Nerl, D.K. Hossfeld, H. Löffler, H. Pralle, W. Queißer, and A. Tobler for the German CML-Study Group and the SAKK 3668

- Lipoprotein (a) and Genetic Polymorphisms of Clotting Factor V, Prothrombin, and Methylenetetrahydrofolate Reductase Are Risk Factors of Spontaneous Ischemic Stroke in Childhood U. Nowak-Göttl, R. Sträter, A. Heinecke, R. Junker, H.-G. Koch, G. Schuierer, and A. von Eckardstein for the Childhood Stroke Study Group 3678

- Erythroblastic Synartesis: An Auto-immune Dyserythropoiesis E.M. Cramer, I. Garcia, J.-M. Massé, J.-M. Zini, P. Lambin, E. Oksenhendler, F. Souni, M. Smith, G. Flandrin, J. Breton-Gorius, G. Tobalem, and N. Casadevall 3683

- A Randomized, Double-Blind, Placebo-Controlled Study With Pegylated Recombinant Human Megakaryocyte Growth and Development Factor (PEG-rHuMGDF) as an Adjunct to Chemotherapy for Adults With De Novo Acute Myeloid Leukemia E. Archimbaud, O.G. Ottmann, J.A. Liu Yin, K. Lechner, H. Dombret, M.A. Sanz, G. Heil, P. Fenaux, W. Brugger, A. Barge, C. O'Brien-Ewen, J. Matcham, and D. Hoelzer 3694

- The Incidence of Venous Thromboembolism in Asymptomatic Carriers of a Deficiency of Antithrombin, Protein C, or Protein S: A Prospective Cohort Study B.-J. Sanson, P. Simioni, D. Tormene, M. Moia, P.W. Friederich, M.V. Huisman, P. Prandoni, A. Bura, L. Rejtó, P. Wells, P.M. Mannucci, A. Girolami, H.R. Büller, and M.H. Prins 3702

- Chromosomal Abnormalities in 478 Children With Acute Myeloid Leukemia: Clinical Characteristics and Treatment Outcome in a Cooperative Pediatric Oncology Group Study—POG 8821 S.C. Raimondi, M.N. Chang, Y. Ravindranath, F.G. Behm, M.V. Gresik, C.P. Steuber, H.J. Weinstein, and A.J. Carroll for the Pediatric Oncology Group 3707

- Cellular Vascular Endothelial Growth Factor Is a Predictor of Outcome in Patients With Acute Myeloid Leukemia A. Aguayo, E. Estey, H. Kantarjian, T. Mansouri, C. Gidel, M. Keating, F. Giles, Z. Estrov, B. Barlogie, and M. Albitar 3717

(Continued on following page)

(Contents continued)

HEMATOPOIESIS

Differentiation Stage-Specific Regulation of Primitive Human Hematopoietic Progenitor Cycling by Exogenous and Endogenous Inhibitors in an In Vivo Model	<i>J.D. Cashman, I. Clark-Lewis, A.C. Eaves, and C.J. Eaves</i>	3722
Changes in Chromatin Organization at the Neutrophil Elastase Locus Associated With Myeloid Cell Differentiation	<i>E.T.L. Wong, D.E. Jenne, M. Zimmer, S.D. Porter, and C.B. Gilks</i>	3730
A Novel BTB/POZ Transcriptional Repressor Protein Interacts With the Fanconi Anemia Group C Protein and PLZF	<i>M.E. Hoatlin, Y. Zhi, H. Ball, K. Silvey, A. Melnick, S. Stone, S. Arai, N. Hawe, G. Owen, A. Zelent, and J.D. Licht</i>	3737
Kinetic Resolution of Two Mechanisms for High-Affinity Granulocyte-Macrophage Colony-Stimulating Factor Binding to Its Receptor	<i>L. Niu, D.W. Golde, J.C. Vera, and M.L. Heaney</i>	3748
<i>SCL</i> Expression in the Mouse Embryo Detected With a Targeted <i>lacZ</i> Reporter Gene Demonstrates Its Localization to Hematopoietic, Vascular, and Neural Tissues	<i>A.G. Elefanti, C.G. Begley, L. Hartley, B. Papaevangelou, and L. Robb</i>	3754
Altered Development and Cytokine Responses of Myeloid Progenitors in the Absence of Transcription Factor, Interferon Consensus Sequence Binding Protein	<i>M. Scheller, J. Foerster, C.M. Heyworth, J.F. Waring, J. Löbler, G.L. Gilmore, R.K. Shadduck, T.M. Dexter, and I. Horak</i>	3764
A Nuclear Factor Y (NFY) Site Positively Regulates the Human CD34 Stem Cell Gene	<i>H.S. Radomska, A.B. Satterthwaite, N. Tarantenko, S. Narravula, D.S. Krause, and D.G. Tenen</i>	3772
Lymphoid-Restricted Development From Multipotent Candidate Murine Stem Cells: Distinct and Complimentary Functions of the c-kit and flt3-Ligands	<i>O.J. Borge, J. Adolfsson, A. Mårtensson, I.-L. Mårtensson, and S.E.W. Jacobsen</i>	3781

HEMOSTASIS, THROMBOSIS, AND VASCULAR BIOLOGY

Activated Platelets Release Two Types of Membrane Vesicles: Microvesicles by Surface Shedding and Exosomes Derived From Exocytosis of Multivesicular Bodies and α -Granules	<i>H.F.G. Heijnen, A.E. Schiel, R. Fijnheer, H.J. Geuze, and J.J. Sixma</i>	3791
Regulation of c-Jun-NH ₂ Terminal Kinase and Extracellular-Signal Regulated Kinase in Human Platelets	<i>F. Bugaud, F. Nadal-Wollbold, S. Lévy-Toledano, J.-P. Rosa, and M. Bryckaert</i>	3800
Fibrinogen Niigata With Impaired Fibrin Assembly: An Inherited Dysfibrinogen With a B β Asn-160 to Ser Substitution Associated With Extra Glycosylation at B β Asn-158	<i>T. Sugo, C. Nakamikawa, H. Takano, J. Mimuro, S.-i. Yamaguchi, M.W. Mosesson, D.A. Meh, J.P. DiOrio, N. Takahashi, H. Takahashi, K. Nagai, and M. Matsuda</i>	3806
Procoagulant Effect of Anti- β 2-Glycoprotein I Antibodies With Lupus Anticoagulant Activity	<i>V. Pengo, T. Brocco, A. Biasiolo, P. Rampazzo, P. Carraro, and R. Zamarchi</i>	3814
Divergent Inducible Expression of P-Selectin and E-Selectin in Mice and Primates	<i>L. Yao, H. Setiadi, L. Xia, Z. Laszik, F.B. Taylor, and R.P. McEver</i>	3820
Fibrinogen Deposition at the Postischemic Vessel Wall Promotes Platelet Adhesion During Ischemia-Reperfusion In Vivo	<i>S. Massberg, G. Enders, F.C. de Melo Matos, L. Inês Domschke Tomic, R. Leiderer, S. Eisenmenger, K. Messmer, and F. Krombach</i>	3829
Inhibition of Activated Protein C Anticoagulant Activity by Prothrombin	<i>M.D. Smirnov, O. Safa, N.L. Esmon, and C.T. Esmon</i>	3839

IMMUNOBIOLOGY

Inhibition of Caspase Cascade by HTLV-I Tax Through Induction of NF- κ B Nuclear Translocation	<i>A. Kawakami, T. Nakashima, H. Sakai, S. Urayama, S. Yamasaki, A. Hida, M. Tsuboi, H. Nakamura, H. Ida, K. Migita, Y. Kawabe, and K. Eguchi</i>	3847
Mast Cells Induce Autoantibody-Mediated Vasculitis Syndrome Through Tumor Necrosis Factor Production Upon Triggering Fc γ Receptors	<i>N. Watanabe, B. Akikusa, S.Y. Park, H. Ohno, L. Fossati, G. Vecchietti, J.E. Gessner, R.E. Schmidt, J.S. Verbeek, B. Ryffel, I. Iwamoto, S. Izui, and T. Saito</i>	3855
CD38 Triggers Cytotoxic Responses in Activated Human Natural Killer Cells	<i>G. Sconocchia, J.A. Titus, A. Mazzoni, A. Visintin, F. Pericle, S.W. Hicks, F. Malavasi, and D.M. Segal</i>	3864

(Continued on following page)

(Contents continued)

Spontaneous Apoptosis in Lymphocytes From Patients With Wiskott-Aldrich Syndrome: Correlation of Accelerated Cell Death and Attenuated Bcl-2 Expression	<i>S.L. Rawlings, G.M. Crooks, D. Bockstoce, L.W. Barsky, R. Parkman, and K.I. Weinberg</i>	3872
NEOPLASIA		
Hepatocyte Growth Factor (HGF) Induces Interleukin-11 Secretion From Osteoblasts: A Possible Role for HGF in Myeloma-Associated Osteolytic Bone Disease ...	<i>Ø. Hjertner, M. Lyngaa Torgersen, C. Seidel, H. Hjorth-Hansen, A. Waage, M. Børset, and A. Sundan</i>	3883
Immunophenotypic Analysis of Peripheral Blood and Bone Marrow in the Staging of B-Cell Malignant Lymphoma	<i>C.A. Hanson, P.J. Kurtin, J.A. Katzmann, J.D. Hoyer, C.-Y. Li, J.M. Hodnefield, C.H. Meyers, T.M. Habermann, and T.E. Witzig</i>	3889
PHAGOCYTES		
Granulocyte-Macrophage Colony-Stimulating Factor Upregulates Reduced 5-Lipoxygenase Metabolism in Peripheral Blood Monocytes and Neutrophils in Acquired Immunodeficiency Syndrome	<i>M.J. Coffey, S.M. Phare, S. Cinti, M. Peters-Golden, and P.H. Kazanjian</i>	3897
RED CELLS		
Defective Recovery and Severe Renal Damage After Acute Hemolysis in Hemopexin-Deficient Mice	<i>E. Tolosano, E. Hirsch, E. Patrucco, C. Camaschella, R. Navone, L. Silengo, and F. Altruda</i>	3906
HFE Downregulates Iron Uptake From Transferrin and Induces Iron-Regulatory Protein Activity in Stably Transfected Cells	<i>H.D. Riedel, M.U. Muckenthaler, S.G. Gehrke, I. Mohr, K. Brennan, T. Herrmann, B.A. Fitscher, M.W. Hentze, and W. Stremmel</i>	3915
TRANSFUSION MEDICINE		
Solvent/Detergent-Treated Plasma Has Decreased Antitrypsin Activity and Absent Antiplasmin Activity	<i>A.E. Mast, J.E. Stadanlick, J.M. Lockett, and D.J. Dietzen</i>	3922
Human Cord Blood Progenitors Sustain Thymic T-Cell Development and a Novel Form of Angiogenesis	<i>L. Crisa, V. Cirulli, K.A. Smith, M.H. Ellisman, B.E. Torbett, and D.R. Salomon</i>	3928
TRANSPLANTATION		
Recipient Tumor Necrosis Factor- α and Interleukin-10 Gene Polymorphisms Associate With Early Mortality and Acute Graft-Versus-Host Disease Severity in HLA-Matched Sibling Bone Marrow Transplants	<i>J. Cavet, P.G. Middleton, M. Segall, H. Noreen, S.M. Davies, and A.M. Dickinson</i>	3941
BRIEF REPORTS		
Characterization of the Murine Platelet α IIb Gene and Encoded cDNA	<i>M.A. Thornton and M. Poncz</i>	3947
Recombinant Factor VIIa Is Effective for Bleeding and Surgery in Patients With Glanzmann Thrombasthenia	<i>M.-C. Poon, C. Demers, F. Jobin, and J.W.Y. Wu</i>	3951
CORRESPONDENCE		
Tenupodia Formation by Blasts in Bone Marrow Aspirate Smears From a Patient With Acute Monoblastic Leukemia		3954
Loss of Endothelial Surface Expression of E-Selectin—A Third LAD Syndrome?		3956
The C282Y Mutation of <i>HFE</i> Is Another Male-Specific Risk Factor for Childhood Acute Lymphoblastic Leukemia		3957
Data Requested From the Subgroups Studied in the APL93 Trial		3958
Prothrombotic Genetic Risk Factors and Myocardial Infarction at Young Age		3959
Homozygous Q100R Mutations in the Second EGF-Like Domain of Factor VII		3960
Long-Term Follow-up of a Randomized Study Comparing Cyclophosphamide and Total Body Irradiation With Busulfan and Cyclophosphamide for Patients Receiving Allogeneic Marrow Transplants During Chronic Phase of Chronic Myeloid Leukemia		3960

(Continued on following page)

(*Contents continued*)

SPECIAL DEPARTMENTS

Announcements	3963
Forthcoming Articles	xxiv
Information for Contributors	xiv

All manuscripts submitted to BLOOD and subsequently accepted for publication will be assessed a \$50.00 charge per published page. This charge is necessary to offset the increasing costs of publication.

All manuscripts submitted for consideration for publication in BLOOD should be sent to: Kenneth Kaushansky, MD, Editor-in-Chief, BLOOD, The Journal of the American Society of Hematology, 1200 19th Street, NW, Suite 300, Washington, DC 20036-2422. For other information, call (202) 828-6054.