<table>
<thead>
<tr>
<th>CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOL 74, NO 4</td>
</tr>
<tr>
<td>SEPTEMBER 1989</td>
</tr>
</tbody>
</table>

**REVIEW ARTICLES**

- Review: Biochemical Mechanisms of Platelet Activation  
  M.H. Kroll and A.I. Schafer  1181
- Review: Regulation of Megakaryocyte Proliferation  
  R. Hoffman  1196
- Review: Malaria and Red Cell Genetic Defects  
  R.L. Nagel and E.F. Roth, Jr.  1213

**RAPID COMMUNICATIONS**

- Interleukin-4 Stimulates Human Monocytes to Produce Tissue-Type Plasminogen Activator  
  P.H. Hart, D.R. Burgess, G.F. Vitti, and J.A. Hamilton  1222
- Inhibition of Platelet-von Willebrand Factor Binding to Platelets by Adhesion Site Peptides  
  R.L. Parker and H.R. Gralnick  1226
- Increased Circulating CSF-1 (M-CSF) in Myeloproliferative Disease: Association With Myeloid Metaplasia and Peripheral Bone Marrow Extension  
  H.S. Gilbert, V. Praloran, and E.R. Stanley  1231
- Dengue Virus, A Flavivirus, Propagates in Human Bone Marrow Progenitors and Hematopoietic Cell Lines  
  S. Nakao, C.-J. Lai, and N.S. Young  1235
- Interleukin-6 Is a Potent Thrombopoietic Factor In Vivo in Mice  

**CLINICAL INTERVENTION AND THERAPEUTIC TRIALS**

- Isolation and Storage of Peripheral Blood Hematopoietic Stem Cells for Autotransplantation Into Children With Cancer  
- Prognostic Importance of the Pre-B-Cell Immunophenotype and Other Presenting Features in B-Lineage Childhood Acute Lymphoblastic Leukemia: A Pediatric Oncology Group Study  
  W. Crist, J. Boyett, J. Jackson, T. Vietti, M. Borowitz, A. Chavener, N. Winick, A. Ragag, D. Mahoney, D. Head, R. Iyer, H. Wagner, and J. Pullen  1252
- High-Dose Therapy and Autologous Peripheral Blood Stem Cell Transplantation for Patients With Lymphoma  

**HEMATOPOIESIS**

- Production of Cytokines by Bone Marrow Cells Obtained From Patients With Multiple Myeloma  
  A. Lichtenstein, J. Berenson, D. Norman, M.-P. Chang, and A. Carlile  1266
- Implantation of Fibroblasts Transfected With Human Granulocyte Colony-Stimulating Factor cDNA Into Mice as a Model of Cytokine-Supplement Gene Therapy  
- Synergistic Cytotoxic Effect of Azidothymidine and Recombinant Interferon Alpha on Normal Human Bone Marrow Progenitor Cells  
- Sequential Loss of CD34 and Class II MHC Antigens on Purified Cord Blood Hematopoietic Progenitors Cultured With IL-3: Characterization of CD34+, HLA-DR+ Cells  
  C. Caux, C. Favre, S. Saeland, V. Duvert, P. Mannoni, I. Durand, J.-P. Aubry, and J.E. de Vries  1287

(Continued on following page)
CONTENTS (Contents continued)

Generation of Osteoclasts From Isolated Hematopoietic Progenitor Cells
N. Kurihara, T. Suda, Y. Miura, H. Nakauchi, H. Kodama, K. Hiura, Y. Hakeda, and M. Kumegawa

Evidence for a Novel In Vivo Control Mechanism of Granulopoiesis: Mature Cell-Related Control of a Regulatory Growth Factor
.................................................................J.E. Layton, H. Hockman, W.P. Sheridan, and G. Morstyn

Effect of Recombinant Human Granulocyte Colony-Stimulating Factor on Hematopoiesis of Normal Dogs and on Hematopoietic Recovery After Lethal Total Body Irradiation
F.G. Schuening, R. Storb, S. Goehle, T.C. Graham, F.R. Appelbaum, R. Hackman, and L.M. Souza

Granulocyte-Macrophage Colony-Stimulating Factor: Signals for Its mRNA Accumulation

Regulation and Secretion of Plasminogen Activators and Their Inhibitors in a Human Leukemic Cell Line (K562)
L.J. Oliver, M. Keeton, and E.L. Wilson

HEMOSTASIS AND THROMBOSIS

Monocyte–Platelet Interaction in Immune and Nonimmune Thrombocytopenia
M.N. Saleh, D.L. Moore, J.Y. Lee, and A.F. LoBuglio

Changes in the Plasma Levels of Type 1 and Type 2 Plasminogen Activator Inhibitors in Normal Pregnancy and in Patients With Severe Preeclampsia.............A. Estelles, J. Gilbert, J. Aznar, D.J. Loskutoff, and R.R. Schleef

Covalent Modification of Platelet Proteins by Palmitate........................................L. Muszbek and M. Laposata

IMMUNOBIOLOGY

Distribution of Integrins on Human Peripheral Blood Mononuclear Cells........H.-G. Klingemann and S. Dedhar

Low Molecular Weight B-Cell Growth Factor and Recombinant Interleukin-2 Are Together Able to Generate Cytotoxic T Lymphocytes With LAK Activity From the Bone Marrow Cells of Children With Acute Lymphoblastic Leukemia.........................................................M. Zhou, H.W. Findley, Jr, and A.H. Ragab

Pathogenic Significance of Interleukin-6 (IL-6/BSF-2) in Castleman’s Disease


NEOPLASIA

CML-T1: A Cell Line Derived From T-Lymphocyte Acute Phase of Chronic Myelogenous Leukemia

Expression of the mdr-1/P-170 Gene in Patients With Acute Lymphoblastic Leukemia

PHAGOCYTES

Functional Characteristics of Receptor-Bound Urokinase on Human Monocytes: Catalytic Efficiency and Susceptibility to Inactivation by Plasminogen Activator Inhibitors.............J.C. Kirchheimer and H.G. Remold

RED CELLS

Leg Ulcers in Patients With Sickle Cell Disease
M. Koshy, R. Entsuah, A. Koranda, A.P. Kraus, R. Johnson, R. Bellvue, Z. Flournoy-Gill, and P. Levy

(Continued on following page)
CONTENTS (Contents continued)

Human Embryonic \( \zeta \)-Globin Chains in Fetal and Newborn Blood.......................................................... D.H. K. Chui, W.C. Mentzer, M. Patterson, T.A. Iarocci, S.H. Embury, S.P. Perrine, R.S. Mibashan, and D.R. Higgs 1409


TRANSPLANTATION

Herpes Zoster Infection After Autologous Bone Marrow Transplantation

L.M. Schuchter, J.R. Wingard, S. Piantadosi, W.H. Burns, G.W. Santos, and R. Saral 1424

Predictors of Death From Chronic Graft-Versus-Host Disease After Bone Marrow Transplantation


Peripheral Lymph Node Helper T-Cell Recovery After Syngeneic Bone Marrow Transplantation in Mice Prepared With Either \( \gamma \)-Irradiation or Busulfan......................................................... W.E. Samlowski, B.A. Araneo, M.O. Butler, M.C. Fung, and H.M. Johnson 1436

CORRESPONDENCE

Proliferative Action of Hematopoietic Growth Factors ............................................................................. 1446

SPECIAL DEPARTMENTS


Announcements ........................................................................................................................................ 1451

Information for Contributors .................................................................................................................... xxvi

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: Arthur W. Nienhuis, M.D., Editor, BLOOD, The Journal of the American Society of Hematology, 9650 Rockville Pike, Bethesda, MD 20814. For other information, call (301) 571-1895.

The American Society of Hematology certifies that the continuing medical education offering provided by BLOOD, The Journal of The American Society of Hematology, meets the criteria for up to 22 hours of credit in Category 5(a) for the Physician’s Recognition Award of the American Medical Association.