

**COVER FIGURE**

Astrocytes (stained with anti-GFAP; green) grow radially outward from the optic nerve head in the developing retina. Blood vessels (stained with isolectin; red) follow, guided by tip cells. Astrocytes provide a permissive substrate and secrete factors such as SDF-1 that mediate the morphology and behavior of tip cells, which express the cognate receptor CXCR4. See the article by Strasser et al on page 5102.

**INSIDE BLOOD****4975 Threatening clots in MGUS and myeloma**

H. Ludwig and M. Delforge

**4976 The anergic B cell**

S. F. Andrews and P. C. Wilson

**4978 First do no harm**

B. E. Shaw

**4979 Factor XII bridges coagulation and fibrinolysis again**

S. L. Gonias

**REVIEW ARTICLE****4981 Mast cell proteases: multifaceted regulators of inflammatory disease**

G. Pejler, E. Rönnberg, I. Waern, and S. Wernersson

**CLINICAL TRIALS AND OBSERVATIONS****4991 Arterial and venous thrombosis in monoclonal gammopathy of undetermined significance and multiple myeloma: a population-based study**

S. Y. Kristinsson, R. M. Pfeiffer, M. Björkholm, L. R. Goldin, S. Schulman, C. Blimark, U.-H. Mellqvist, A. Wahlin, I. Turesson, and O. Landgren

**4999 Validation of a predictive model for identifying an increased risk for thromboembolism in children with acute lymphoblastic leukemia: results of a multicenter cohort study**

L. Mitchell, M. Lambers, S. Flege, G. Kenet, V. Li-Thiao-Te, S. Holzhauer, C. Bidlingmaier, M. C. Frühwald, C. Heller, W. Schmidt, B. Pautard, and U. Nowak-Göttl

**5005 Neurolymphomatosis: an International Primary CNS Lymphoma Collaborative Group report**

S. Grisariu, B. Avni, T. T. Batchelor, M. J. van den Bent, F. Bokstein, D. Schiff, O. Kuittinen, M. C. Chamberlain, P. Roth, A. Nemets, E. Shalom, D. Ben-Yehuda, and T. Siegal

**HEMATOPOIESIS AND STEM CELLS****5012 Hematopoietic stem cell function requires 12/15-lipoxygenase-dependent fatty acid metabolism**

M. Kinder, C. Wei, S. G. Shelat, M. Kundu, L. Zhao, I. A. Blair, and E. Puré

- 5023 **Brief report** Hematopoietic activity of human short-term repopulating cells in mobilized peripheral blood cell transplants is restricted to the first 5 months after transplantation  
O. Zavidij, C. R. Ball, F. Herbst, S. Fessler, M. Schmidt, C. von Kalle, and H. Glimm

---

**IMMUNOBIOLOGY**

---

- 5026 **Complement receptor 2/CD21<sup>-</sup> human naive B cells contain mostly autoreactive unresponsive clones**  
I. Isnardi, Y.-S. Ng, L. Menard, G. Meyers, D. Saadoun, I. Srđanovic, J. Samuels, J. Berman, J. H. Buckner, C. Cunningham-Rundles, and E. Meffre
- 5037 **Brief report** Systematic cytokine receptor profiling reveals GM-CSF as a novel TLR-independent activator of human plasmacytoid dendritic cells  
C. Ghirelli, R. Zollinger, and V. Soumelis

---

**LYMPHOID**

---

**NEOPLASIA**

---

- 5041 **Toll-like receptor 9 signaling by CpG-B oligodeoxynucleotides induces an apoptotic pathway in human chronic lymphocytic leukemia B cells**  
X. Liang, E. A. Moseman, M. A. Farrar, V. Bachanova, D. J. Weisdorf, B. R. Blazar, and W. Chen
- 5053 **Brief report** Increased angiogenic sprouting in poor prognosis FL is associated with elevated numbers of CD163<sup>+</sup> macrophages within the immediate sprouting microenvironment  
A. J. Clear, A. M. Lee, M. Calaminici, A. G. Ramsay, K. J. Morris, S. Hallam, G. Kelly, F. MacDougall, T. A. Lister, and J. G. Gribben

---

**MYELOID**

---

**NEOPLASIA**

---

- 5057 **Brief report** Senescence induction in human fibroblasts and hematopoietic progenitors by leukemogenic fusion proteins  
N. Wajapeyee, S.-Z. Wang, R. W. Serra, P. D. Solomon, A. Nagarajan, X. Zhu, and M. R. Green

---

**PHAGOCYTES,  
GRANULOCYTES, AND  
MYELOPOIESIS**

---

- 5061 **Expression and role of FLT3 in regulation of the earliest stage of normal granulocyte-monocyte progenitor development**  
C. Böiers, N. Buza-Vidas, C. T. Jensen, C. J. H. Pronk, S. Kharazi, L. Wittmann, E. Sitnicka, A. Hultquist, and S. E. W. Jacobsen

---

**PLATELETS AND  
THROMBOPOIESIS**

---

- 5069 **Synergism between platelet collagen receptors defined using receptor-specific collagen-mimetic peptide substrata in flowing blood**  
N. Pugh, A. M. C. Simpson, P. A. Smethurst, P. G. de Groot, N. Raynal, and R. W. Farndale

---

**RED CELLS,  
IRON, AND  
ERYTHROPOIESIS**

---

- 5080 **The IgG-specific endoglycosidase EndoS inhibits both cellular and complement-mediated autoimmune hemolysis**  
M. Allhorn, J. G. Briceño, L. Baudino, C. Lood, M. L. Olsson, S. Izui, and M. Collin

Next time you use *Blood Online* ([www.bloodjournal.org](http://www.bloodjournal.org)), click on the HighWire Press logo next to the ASH logo and experience how the HighWire Press interface makes your searches easy. Or go directly to [highwire.stanford.edu](http://highwire.stanford.edu).

**THROMBOSIS AND  
HEMOSTASIS**

5089

**Sensitive and selective detection of free FXIII activation peptide: a potential marker of acute thrombotic events**

E. Ortner, V. Schroeder, R. Walser, O. Zerbe, and H. P. Kohler

**IMMUNOREGULATION  
TRANSPLANTATION**

5097

**Practice patterns for evaluation, consent, and care of related donors and recipients at hematopoietic cell transplantation centers in the United States**

P. V. O'Donnell, T. L. Pedersen, D. L. Confer, J. D. Rizzo, M. A. Pulsipher, D. Stroncek, S. Leitman, and P. Anderlini on behalf of the Donor Health and Safety Working Committee from the Center for International Blood and Marrow Transplant Research (CIBMTR)

**VASCULAR BIOLOGY**

5102

**Microarray analysis of retinal endothelial tip cells identifies CXCR4 as a mediator of tip cell morphology and branching**

G. A. Strasser, J. S. Kaminker, and M. Tessier-Lavigne

5111

**Factor XII stimulates ERK1/2 and Akt through uPAR, integrins, and the EGFR to initiate angiogenesis**

G. A. LaRusch, F. Mahdi, Z. Shariat-Madar, G. Adams, R. G. Sitrin, W. M. Zhang, K. R. McCrae, and A. H. Schmaier

5121

**Brief report Chronic coumarin treatment is associated with increased extracoronary arterial calcification in humans**

R. J. M. W. Rennenberg, B. J. van Varik, L. J. Schurgers, K. Hamulyak, H. ten Cate, T. Leiner, C. Vermeer, P. W. de Leeuw, and A. A. Kroon

**OTHER DEPARTMENTS**xxvii **Author Guide**iib **Classifieds****SUBMISSION INSTRUCTIONS**

All manuscripts, including figures, should be submitted electronically at <http://submit.bloodjournal.org> to Editor-in-Chief Cynthia Dunbar, MD. Before submitting your paper, review *Blood's* Author Guide at <http://www.bloodjournal.org>. If you need help during the submission process, contact the Editorial Office by phone at 202-776-0548 or via e-mail at [editorial@hematology.org](mailto:editorial@hematology.org).