

### COVER FIGURE

Acute sickle nephropathy in a kidney transplant. Light microscopy demonstrates a large glomerulus showing sickled red blood cells within the capillaries of the glomerulus (hematoxylin and eosin stain, viewed with a  $\times 40$  objective at  $\times 10$  magnification). See the How I Treat series in this issue.

### EDITORIAL

- 1729 | Introduction to a How I Treat series on sickle cell disease and thalassemia**  
Thomas D. Coates

### BLOOD COMMENTARIES

- 1731 | Predicting the future with TRECs**  
Andrew R. Gennery  
Comment on Haddad et al, page 1737
- 1733 | AHR: leukemic countermeasure against NK cells**  
Nicolas Dulphy  
Comment on Scoville et al, page 1792
- 1734 | Maestro endothelium conducts the neutrophils**  
Ricardo Grieshaber-Bouyer and Peter A. Nigrovic  
Comment on Hind et al, page 1818
- 1736 | Age-related DNA methylation and hemostatic factors**  
Mariza de Andrade  
Comment on Ward-Caviness et al, page 1842

### PLENARY PAPER

- 1737 | SCID genotype and 6-month posttransplant CD4 count predict survival and immune recovery**  
Elie Haddad, Brent R. Logan, Linda M. Griffith, Rebecca H. Buckley, Roberta E. Parrott, Susan E. Prockop, Trudy N. Small, Jessica Chaisson, Christopher C. Dvorak, Megan Murnane, Neena Kapoor, Hisham Abdel-Azim, Imelda C. Hanson, Caridad Martinez, Jack J. H. Bleesing, Sharat Chandra, Angela R. Smith, Matthew E. Cavanaugh, Soma Jyonouchi, Kathleen E. Sullivan, Lauri Burroughs, Suzanne Skoda-Smith, Ann E. Haight, Audrey G. Tumlin, Troy C. Quigg, Candace Taylor, Blachy J. Dávila Saldaña, Michael D. Keller, Christine M. Seroogy, Kenneth B. Desantes, Aleksandra Petrovic, Jennifer W. Leiding, David C. Shyr, Hélène Decaluwe, Pierre Teira, Alfred P. Gillio, Alan P. Knutsen, Theodore B. Moore, Morris Kletzel, John A. Craddock, Victor Aquino, Jeffrey H. Davis, Lolie C. Yu, Geoffrey D. E. Cuvelier, Jeffrey J. Bednarski, Frederick D. Goldman, Elizabeth M. Kang, Evan Shereck, Matthew H. Porteus, James A. Connelly, Thomas A. Fleisher, Harry L. Malech, William T. Shearer, Paul Szabolcs, Monica S. Thakar, Mark T. Vander Lugt, Jennifer Heimall, Ziyun Yin, Michael A. Pulsipher, Sung-Yun Pai, Donald B. Kohn, Jennifer M. Puck, Morton J. Cowan, Richard J. O'Reilly, and Luigi D. Notarangelo

### HOW I TREAT

#### Sickle Cell Disease and Thalassemia

- 1750 | How I treat the older adult with sickle cell disease**  
Swee Lay Thein and Jo Howard

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**1761 | How I diagnose and treat venous thromboembolism in sickle cell disease**

Arun S. Shet and Ted Wun

**1770 | How I treat hypoxia in adults with hemoglobinopathies and hemolytic disorders**

Evans M. Machogu and Roberto F. Machado

**1781 | How I manage medical complications of  $\beta$ -thalassemia in adults**

Ali T. Taher and Maria Domenica Cappellini

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**IMMUNOBIOLOGY AND IMMUNOTHERAPY**

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**1792 | Human AML activates the aryl hydrocarbon receptor pathway to impair NK cell development and function**

Steven D. Scoville, Ansel P. Nalin, Luxi Chen, Li Chen, Michael H. Zhang, Kathleen McConnell, Susana Beceiro Casas, Gabrielle Ernst, Abd Al-Rahman Traboulsi, Naima Hashi, Monica Williams, Xiaoli Zhang, Tiffany Hughes, Anjali Mishra, Don M. Benson, Jennifer N. Saultz, Jianhua Yu, Aharon G. Freud, Michael A. Caligiuri, and Bethany L. Mundy-Bosse

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**LYMPHOID NEOPLASIA**

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**1805 | B-cell receptor-mediated NFATc1 activation induces IL-10/STAT3/PD-L1 signaling in diffuse large B-cell lymphoma**

Li Li, Jun Zhang, Juan Chen, Zijun Y. Xu-Monette, Yi Miao, Min Xiao, Ken H. Young, Sa Wang, L. Jeffrey Medeiros, Michael Wang, Richard J. Ford, and Lan V. Pham

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**PHAGOCYTES, GRANULOCYTES, AND MYELOPOIESIS**

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**1818 | Interaction with an endothelial lumen increases neutrophil lifetime and motility in response to *P aeruginosa***

Laurel E. Hind, Patrick N. Ingram, David J. Beebe, and Anna Huttenlocher

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**RED CELLS, IRON, AND ERYTHROPOIESIS**

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**1829 | Hepcidin-mediated hypoferremic response to acute inflammation requires a threshold of Bmp6/Hjv/Smad signaling**

Carine Fillebeen, Nicole Wilkinson, Edouard Charlebois, Angeliki Katsarou, John Wagner, and Kostas Pantopoulos

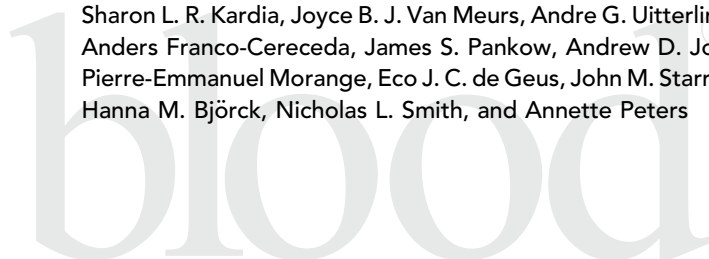
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**THROMBOSIS AND HEMOSTASIS**

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**1842 | DNA methylation age is associated with an altered hemostatic profile in a multiethnic meta-analysis**

Cavin K. Ward-Caviness, Jennifer E. Huffman, Karl Everett, Marine Germain, Jenny van Dongen, W. David Hill, Min A. Jhun, Jennifer A. Brody, Mohsen Ghanbari, Lei Du, Nicholas S. Roetker, Paul S. de Vries, Melanie Waldenberger, Christian Gieger, Petra Wolf, Holger Prokisch, Wolfgang Koenig, Christopher J. O'Donnell, Daniel Levy, Chunyu Liu, Vinh Truong, Philip S. Wells, David-Alexandre Trégouët, Weihong Tang, Alanna C. Morrison, Eric Boerwinkle, Kerri L. Wiggins, Barbara McKnight, Xiuqing Guo, Bruce M. Psaty, Nona Sotoodena, Dorret I. Boomsma, Gonneke Willemsen, Lannie Ligthart, Ian J. Deary, Wei Zhao, Erin B. Ware, Sharon L. R. Kardia, Joyce B. J. Van Meurs, Andre G. Uitterlinden, Oscar H. Franco, Per Eriksson, Anders Franco-Cereceda, James S. Pankow, Andrew D. Johnson, France Gagnon, Pierre-Emmanuel Morange, Eco J. C. de Geus, John M. Starr, Jennifer A. Smith, Abbas Dehghan, Hanna M. Björck, Nicholas L. Smith, and Annette Peters



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## LETTERS TO BLOOD

**1851 | *GNE* variants causing autosomal recessive macrothrombocytopenia without associated muscle wasting**

Shoshana Revel-Vilk, Ela Shai, Ernest Turro, Nivin Jahshan, Esti Hi-Am, Galia Spectre, Hagit Daum, Yossef Kalish, Karina Althaus, Andreas Greinacher, Chaim Kaplinsky, Shai Izraeli, Rutendo Mapeta, Sri V. V. Deevi, Danuta Jarocho, Willem H. Ouwehand, Kate Downes, Mortimer Poncz, David Varon, and Michele P. Lambert

**1855 | Mutation in *GNE* is associated with severe congenital thrombocytopenia**

Jane Futterer, Amanda Dalby, Gillian C. Lowe, Ben Johnson, Michael A. Simpson, Jayashree Motwani, Mike Williams, Steve P. Watson, and Neil V. Morgan, on behalf of the UK GAPP Study Group

## BLOOD WORK

**1859 | Cutaneous intralymphatic CD30<sup>+</sup> pseudolymphoma: a reactive condition mimicking lymphoma**

Jonathon Gralewski and Ginell R. Post

## OTHER DEPARTMENTS

**ivb | Classifieds**



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