

Cover Figure

Hematoxylin-eosin staining of femoral section from an aged mouse lacking the transcription factor NFATc2. This figure is taken from the original article by Bauer et al on page 1580.

Editorials and Perspectives

- 1571 **As iron goes, so goes disease?**
Susan J. Hayflick and Penelope Hogarth
- 1573 **Beta-thalassemia: from genotype to phenotype**
Fabrice Danjou, Franco Anni, and Renzo Galanello
- 1575 **The JAK2 46/1 haplotype: a marker of inappropriate myelomonocytic response to stimulation, leading to increased risk of inflammation, myeloid neoplasm, and impaired defense against infection?**
Sylvie Hermouet and Mathias Vilaine

Original Articles

- 1580 **Hematopoiesis**
Osteomyelosclerosis, anemia and extramedullary hematopoiesis in mice lacking the transcription factor NFATc2
Wolfgang Bauer, Martina Rauner, Michael Haase, Satu Kujawski, Laleh S. Arabanian, Ivonne Habermann, Lorenz C. Hofbauer, Gerhard Ehninger, and Alexander Kiani
- 1589 **Sickle Cell Disease**
Frequency of pain crises in sickle cell anemia and its relationship with the sympatho-vagal balance, blood viscosity and inflammation
Danitza Nebor, Andre Bowers, Marie-Dominique Hardy-Dessources, Jennifer Knight-Madden, Marc Romana, Harvey Reid, Jean-Claude Barthélémy, Vanessa Cumming, Olivier Hue, Jacques Elion, Marvin Reid, and Philippe Connes; CAREST study group
- 1595 **Thalassemia Syndromes**
Oxidative stress modulates heme synthesis and induces peroxiredoxin-2 as a novel cytoprotective response in β thalassemic erythropoiesis
Lucia De Franceschi, Mariarita Bertoldi, Luigia De Falco, Sara Santos Franco, Luisa Ronzoni, Franco Turrini, Alessandra Colancecco, Clara Camaschella, Maria Domenica Cappellini, and Achille Iolascon

- 1605 **Thalassemia Syndromes**
Elevated liver iron concentration is a marker of increased morbidity in patients with β thalassemia intermedia
Khaled M. Musallam, Maria Domenica Cappellini, John C. Wood, Irene Motta, Giovanna Graziadei, Hani Tamim, and Ali T. Taher

- 1613 **Acute Myeloid Leukemia**
The prognostic impact of germline 46/1 haplotype of Janus kinase 2 in cytogenetically normal acute myeloid leukemia
Sarolta Nahajevszky, Hajnalka Andrikovics, Arpad Batai, Emma Adam, Andras Bors, Judit Csomor, Laszlo Gopcsa, Magdalena Koszarska, Andras Kozma, Nora Lovas, Sandor Lueffz, Zoltan Matrai, Nora Meggyesi, Janos Sinko, Andrea Sipos, Andrea Varkonyi, Sandor Fekete, Attila Tordai, and Tamas Masszi

- 1619 **Acute Myeloid Leukemia**
Phase I and pharmacological study of cytarabine and tanespimycin in relapsed and refractory acute leukemia
Scott H. Kaufmann, Judith E. Karp, Mark R. Litzow, Ruben A. Mesa, William Hogan, David P. Steensma, Karen S. Flatten, David A. Loegering, Paula A. Schneider, Kevin L. Peterson, Matthew J. Maurer, B. Douglas Smith, Jacqueline Greer, Yuhong Chen, Joel M. Reid, S. Percy Ivy, Matthew M. Ames, Alex A. Adjei, Charles Erlichman, and Larry M. Karnitz

- 1627 **Acute Lymphoblastic Leukemia**
High VLA-4 expression is associated with adverse outcome and distinct gene expression changes in childhood B-cell precursor acute lymphoblastic leukemia at first relapse
Shabnam Shalapour, Jana Hof, Renate Kirschner-Schwabe, Lorenz Bastian, Cornelia Eckert, Javier Prada, Günter Henze, Arend von Stackelberg, and Karl Seeger

- 1636 **Hodgkin's Lymphoma**
Cytotoxic molecule-positive classical Hodgkin's lymphoma: a clinicopathological comparison with cytotoxic molecule-positive peripheral T-cell lymphoma of not otherwise specified type
Naoko Asano, Tomohiro Kinoshita, Jun-Ichi Tamaru, Koichi Ohshima, Tadashi Yoshino, Nozomi Niitsu, Norifumi Tsukamoto, Kaoru Hirabayashi, Koji Izutsu, Masafumi Taniwaki, Yasuo Morishima, and Shigeo Nakamura



Official Organ of the
European Hematology Association

1644

Chronic Lymphocytic Leukemia

Toll-like receptor signaling pathway in chronic lymphocytic leukemia: distinct gene expression profiles of potential pathogenic significance in specific subsets of patients

Eleni Arvaniti, Stavroula Ntoufa, Nikos Papakonstantinou, Tasoula Touloumenidou, Nikolaos Laoutaris, Achilles Anagnostopoulos, Klea Lamnissou, Federico Caligaris-Cappio, Kostas Stamatopoulos, Paolo Ghia, Marta Muzio, and Chrysoula Belessi

1653

Multiple Myeloma

N-cadherin-mediated interaction with multiple myeloma cells inhibits osteoblast differentiation

Richard W.J. Groen, Martin F.M. de Rooij, Kinga A. Kocemba, Rogier M. Reijmers, Anneke de Haan-Kramer, Marije B. Overdijk, Linda Aalders, Henk Rozemuller, Anton C.M. Martens, P. Leif Bergsagel, Marie José Kersten, Steven T. Pals, and Marcel Spaargaren

1662

Multiple Myeloma

Cancer testis antigens in newly diagnosed and relapse multiple myeloma: prognostic markers and potential targets for immunotherapy

Mark van Duin, Annemieke Broyl, Yvonne de Knecht, Hartmut Goldschmidt, Paul G. Richardson, Wim C. J. Hop, Bronno van der Holt, Debora Joseph-Pietras, George Mulligan, Rachel Neuwirth, Surinder S. Sahota, and Pieter Sonneveld

1670

Thrombotic Thrombocytopenic Purpura

Residues Arg568 and Phe592 contribute to an antigenic surface for anti-ADAMTS13 antibodies in the spacer domain

Wouter Pos, Nicoletta Sorvillo, Rob Fijnheer, Hendrik B. Feys, Paul H.P. Kaijen, Gestur Vidarsson, and Jan Voorberg

1678

Stem Cell Transplantation

The global severity of chronic graft-versus-host disease, determined by National Institutes of Health consensus criteria, is associated with overall survival and non-relapse mortality

Joseph Pidala, Jongphil Kim, Claudio Anasetti, Taiga Nishihori, Brian Betts, Teresa Field, and Janelle Perkins

1685

Infectious Disorders

Invasive aspergillosis in patients with hematologic malignancies: incidence and description of 127 cases enrolled in a single institution prospective survey from 2004 to 2009

Marie-Christine Nicolle, Thomas Bénet, Anne Thiebaut, Anne-Lise Bienvenu, Nicolas Voirin, Antoine Duclos, Mohamad Sobh, Giovanna Cannas, Xavier Thomas, Frank-Emmanuel Nicolini, Frédérique De Monbrison, Marie-Antoinette Piens, Stéphane Picot, Mauricette Michallet, and Philippe Vanhems

Review Article

1692

Hodgkin's Lymphoma

Management of fertility in patients treated for Hodgkin's lymphoma

Stephanie Harel, Christophe Fermé, and Catherine Poirot

Decision Making & Problem Solving

1700

Stem Cell Transplantation

Family-directed umbilical cord blood banking

Eliane Gluckman, Annalisa Ruggeri, Vanderson Rocha, Etienne Baudoux, Michael Boo, Joanne Kurtzberg, Kathy Welte, Cristina Navarrete, and Suzanna M. van Walraven for Eurocord, Netcord, World Marrow Donor Association and National Marrow Donor Program

Brief Reports

1708

Disorders of Iron Metabolism

A pilot trial of deferiprone for neurodegeneration with brain iron accumulation

Giovanni Abbruzzese, Giovanni Cossu, Manuela Balocco, Roberta Marchese, Daniela Murgia, Maurizio Melis, Renzo Galanello, Susanna Barella, Gildo Matta, Uberto Ruffinengo, Ubaldo Bonuccelli, and Gian Luca Forni

1712

Thalassemia Syndromes

Variants in genetic modifiers of β -thalassemia can help to predict the major or intermedia type of the disease

Catherine Badens, Philippe Joly, Imane Agouti, Isabelle Thuret, Katia Gonnet, Synda Fattoum, Alain Francina, Marie-Claude Simeoni, Anderson Loundou, and Serge Pissard

1715

Megaloblastic Anemia

Luminal expression of cubilin is impaired in Imlerslund-Gräsbeck syndrome with compound AMN mutations in intron 3 and exon 7

Fares Namour, Gabriele Dobrovolski, Celine Chery, Sandra Audonnet, François Feillet, Wolfgang Sperl, and Jean-Louis Gueant



Official Organ of the
European Hematology Association

haematologica

the hematology journal

November 2011

Table of Contents

1720

Chronic Myeloid Leukemia

Durable complete molecular remission of chronic myeloid leukemia following dasatinib cessation, despite adverse disease features

David M. Ross, Paul A. Bartley, Jarrad Goyne, Alexander A. Morley, John F. Seymour, and Andrew P. Grigg

1723

Malignant Lymphomas

Mutation analysis of the tyrosine phosphatase PTPN2 in Hodgkin's lymphoma and T-cell non-Hodgkin's lymphoma

Maria Kleppe, Thomas Tousseyn, Eva Geissinger, Zeynep Kalender Atak, Stein Aerts, Andreas Rosenwald, Iwona Wlodarska, and Jan Cools

1728

Multiple Myeloma

Genetic factors underlying the risk of bortezomib induced peripheral neuropathy in multiple myeloma patients

Sophie L. Corthals, Rowan Kuiper, David C. Johnson, Pieter Sonneveld, Roman Hajek, Bronno van der Holt, Florence Magrangeas, Hartmut Goldschmidt, Gareth J. Morgan, and Hervé Avet-Loiseau

Letters to the Editor

1733

Thalassemia Syndromes

Two atypical forms of HbH disease in Sardinia

Maria Elisabetta Paglietti, Maria Carla Sollaino, Daniela Loi, Francesca Sarra, Eleonora Zaccheddu, and Renzo Galanello

Online-Only Articles

e43

Red Cell Disorders

Atypical autoimmune hemolytic anemia

David Telio, David Pi, Nadia Zalunardo, Lori B. Tucker, and Luke Y.C. Chen

e44

Myelodysplastic Syndromes

If it ain't broke, don't fix it!

Anne Marie Asemissen and Aristoteles Giagounidis

Continuing Medical Education

Bortezomib-induced peripheral neuropathy in multiple myeloma patients

Cancer testis antigens in multiple myeloma

Invasive aspergillosis in patients with hematologic malignancies

Painful crises in sickle cell anemia and pathophysiological relationships