

Cover Figure

Molecular structure of the major histocompatibility complex - created by somersault18:24 (www.somersault1824.com)

Editorials and Perspectives

- 1487** **BLUEPRINT: mapping human blood cell epigenomes**
Joost H.A. Martens, and Hendrik G. Stunnenberg
- 1490** **Severe congenital neutropenia and chronic neutrophilic leukemia: an intriguing molecular connection unveiled by oncogenic mutations in CSF3R**
Ivo P. Touw, and Renée Beekman
- 1492** **Light chain amyloidosis: the heart of the problem**
Giampaolo Merlini, and Giovanni Palladini
- 1495** **Pathogen safety of long-term treatments for bleeding disorders: still relevant to current practice**
Giovanni Di Minno, Mariana Canaro, James W. Ironside, David Navarro, Carlo Federico Perno, Andreas Tiede, and Lutz Gürtler

Review Articles

- 1499** **Advances in myelofibrosis: a clinical case approach**
John O. Mascarenhas, Attilio Orazi, Kapil N. Bhatta, Richard E. Champlin, Claire Harrison, and Ronald Hoffman

Articles

Chronic Myeloid Leukemia

- 1510** **The BCR-ABL1 T315I mutation compromises survival in chronic phase chronic myelogenous leukemia patients resistant to tyrosine kinase inhibitors, in a matched pair analysis**
Franck E. Nicolini, Amr R. Ibrahim, Simona Soverini, Giovanni Martinelli, Martin C. Müller, Andreas Hochhaus, Inge H. Dufva, Dong-Wook Kim, Jorge Cortes, Michael J. Mauro, Charles Chuah, Hélène Labussière, Stéphane Morisset, Catherine Roche-Lestienne, Eric Lippert, Sandrine Hayette, Senaka Peter, Wei Zhou, Véronique Maguer-Satta, Mauricette Michallet, John Goldman, Jane F. Apperley, François-Xavier Mahon, David Marin, and Gabriel Etienne

Chronic Myeloproliferative Disorders

- 1517** **Increased reactive oxygen species production and p47phox phosphorylation in neutrophils from myeloproliferative disorders patients with JAK2 (V617F) mutation**
Margarita Hurtado-Nedelec, Marie-José Csillag-Grange, Tarek Boussetta, Sahra Amel Belambri, Michèle Fay, Bruno Cassinat, Marie-Anne Gougerot-Pocidallo, Pham My-Chan Dang, and Jamel El-Benna

Acute Myeloid Leukemia

- 1525** **Prognosis of patients with core binding factor acute myeloid leukemia after first relapse**
Saiko Kurosawa, Shuichi Miyawaki, Takuhiro Yamaguchi, Heiwa Kanamori, Toru Sakura, Yukiyoshi Moriuchi, Fumiaki Sano, Takeshi Kobayashi, Atsushi Yasumoto, Kazuo Hatanaka, Masamitsu Yanada, Yuichiro Nawa, Jin Takeuchi, Yukinori Nakamura, Shin Fujisawa, Hirohiko Shibayama, Ikuo Miura, and Takahiro Fukuda

- 1532** **A single center analysis of nucleophosmin in acute myeloid leukemia: value of combining immunohistochemistry with molecular mutation analysis**
Carolien M. Woolthuis, André B. Mulder, Rikst Nynke Verkaik-Schakel, Stefano Rosati, Arjan Diepstra, Eva van den Berg, Jan Jacob Schuringa, Edo Vellenga, Philip M. Kluin, and Gerwin Huls

Acute Lymphoblastic Leukemia

- 1539** **Inhibiting Polo-like kinase 1 causes growth reduction and apoptosis in pediatric acute lymphoblastic leukemia cells**
Stefanie A. Hartsink-Segers, Carla Exalto, Matthew Allen, Daniel Williamson, Steven C. Clifford, Martin Horstmann, Huib N. Caron, Rob Pieters, and Monique L. Den Boer

Non-Hodgkin's Lymphoma

- 1547** **Expression of CD8 is associated with non-common type morphology and outcome in pediatric anaplastic lymphoma kinase-positive anaplastic large cell lymphoma**
Dmitriy Abramov, Ilske Oschlies, Martin Zimmermann, Dmitriy Kononov, Christine Damm-Welk, Wilhelm Wössmann, and Wolfram Klapper



Official Organ of the
European Hematology Association

- 1554** **MYC protein expression and genetic alterations have prognostic impact in patients with diffuse large B-cell lymphoma treated with immunochemotherapy**

Alexandra Valera, Armando López-Guillermo, Teresa Cardesa-Salzmann, Fina Climent, Eva González-Barca, Santiago Mercadal, Iñigo Espinosa, Silvana Novelli, Javier Briones, José L. Mate, Olga Salamero, Juan M. Sancho, Leonor Arenillas, Sergi Serrano, Nadina Erill, Daniel Martínez, Paola Castillo, Jordina Rovira, Antonio Martínez, Elias Campo, and Luis Colomo; Grup per l'Estudi dels Limfomes de Catalunya i Balears (GELCAB)

- 1563** **First-line treatment with rituximab-hyperCVAD alternating with rituximab-methotrexate-cytarabine and followed by consolidation with ⁹⁰Y-ibritumomab-tiuxetan in patients with mantle cell lymphoma. Results of a multicenter, phase 2 pilot trial from the GELTAMO group**

Reyes Arranz, Ana García-Noblejas, Carlos Grande, Jimena Cannata-Ortiz, José J. Sánchez, José-Antonio García-Marco, Concepción Aláez, Javier Pérez-Calvo, Pilar Martínez-Sánchez, Blanca Sánchez-González, Miguel-Angel Canales, Eulogio Conde, Alejandro Martín, Eva Arranz, María-José Terol, Antonio Salar, and Dolores Caballero

- 1571** **Follicular lymphoma-like B cells of uncertain significance (in situ follicular lymphoma) may infrequently progress, but precedes follicular lymphoma, is associated with other overt lymphomas and mimics follicular lymphoma in flow cytometric studies**

Raju K. Pillai, Urvashi Surti, and Steven H. Swerdlow

Monoclonal Gammopathy of Undetermined Significance

- 1581** **Schnitzler syndrome: an under-diagnosed clinical entity**

Tania Jain, Chetan P. Offord, Robert A. Kyle, and David Dingli

Multiple Myeloma

- 1586** **Hypodiploid multiple myeloma is characterized by more aggressive molecular markers than non-hyperdiploid multiple myeloma**

Scott Van Wier, Esteban Braggio, Angela Baker, Gregory Ahmann, Joan Levy, John D. Carpten, and Rafael Fonseca

Amyloidosis

- 1593** **Lenalidomide, melphalan and dexamethasone in a population of patients with immunoglobulin light chain amyloidosis with high rates of advanced cardiac involvement**
- Shira Dinner, Wesley Witteles, Anosheh Afghahi, Ronald Witteles, Sally Arai, Richard Lafayette, Stanley L. Schrier, and Michaela Liedtke*

Stem Cell Transplantation

- 1600** **T-cell reconstitution after allogeneic stem cell transplantation: assessment by measurement of the sTREC/ β TREC ratio and thymic naïve T cells**
- Simone Ringhoffer, Markus Rojewski, Hartmut Döhner, Donald Bunjes, and Mark Ringhoffer*

Cell Therapy and Immunotherapy

- 1609** **Clonal analysis of multipotent stromal cells derived from CD271⁺ bone marrow mononuclear cells: functional heterogeneity and different mechanisms of allosuppression**
- Zyrafete Kuçi, Julia Seiberth, Hatixhe Latifi-Pupovci, Sibylle Wehner, Stefan Stein, Manuel Grez, Halvard Böniig, Ulrike Köhl, Thomas Klingebiel, Peter Bader, and Selim Kuçi*

Immunodeficiency Syndromes

- 1617** **Common variable immunodeficiency and idiopathic primary hypogammaglobulinemia: two different conditions within the same disease spectrum**
- Gertjan J. Driessen, Virgil A.S.H. Dalm, P. Martin van Hagen, H. Anne Grashoff, Nico G. Hartwig, Annemarie M. C. van Rossum, Adilia Warris, Esther de Vries, Barbara H. Barendregt, Ingrid Pico, Sandra Posthumus, Menno C. van Zelm, Jacques J.M. van Dongen, and Mirjam van der Burg*

Erythropoiesis & Its Disorders

- 1624** **Congenital erythrocytosis associated with gain-of-function HIF2A gene mutations and erythropoietin levels in the normal range**
- Silverio Perrotta, Daniel P. Stiehl, Francesca Punzo, Saverio Scianguetta, Adriana Borriello, Debora Bencivenga, Maddalena Casale, Bruno Nobili, Silvia Fasoli, Adriana Balduzzi, Lilla Cro, Katarzyna J. Nytko, Roland H. Wenger, and Fulvio Della Ragione*



Official Organ of the
European Hematology Association

Anemia of Chronic Disease

- 1633** Investigation of the role of interleukin-6 and hepcidin antimicrobial peptide in the development of anemia with age
Bryan J. McCranor, Jacqueline M. Langdon, Olivier D. Prince, Laurette K. Femnou, Alan E. Berger, Chris Cheadle, Curt I. Civin, Airie Kim, Seth Rivera, Tomas Ganz, Sophie Vaulont, Qian-Li Xue, Jeremy D. Walston, and Cindy N. Roy

Phagocyte Biology

- 1641** Heterozygosity for the Y701C STAT1 mutation in a multiplex kindred with multifocal osteomyelitis
Osamu Hirata, Satoshi Okada, Miyuki Tsumura, Reiko Kagawa, Mizuka Miki, Hiroshi Kawaguchi, Kazuhiro Nakamura, Stéphanie Boisson-Dupuis, Jean-Laurent Casanova, Yoshihiro Takihara, and Masao Kobayashi

Disorders of Coagulation

- 1650** Development of inhibitory antibodies to therapeutic factor VIII in severe hemophilia A is associated with microsatellite polymorphisms in the HMOX1 promoter
Yohann Repessé, Ivan Peyron, Jordan D Dimitrov, Suryasarathi Dasgupta, Erika Farrokhi Moshai, Catherine Costa, Annie Borel-Derlon, Benoit Guillet, Roseline D'Oiron, Achille Aouba, Chantal Rothschild, Johannes Oldenburg, Anna Pavlova, Srinivas V Kaveri, and Sébastien Lacroix-Desmazes on behalf of the ABIRISK consortium

Letters to the Editor

Letters are available online only at
www.haematologica.org/content/98/10.toc

- e124** Mechanism of impaired glucose metabolism during nilotinib therapy in patients with chronic myelogenous leukemia
Zdeněk Racil, Filip Razga, Jana Drapalova, Lucie Buresova, Daniela Zackova, Martina Palackova, Lukas Semerad, Ludmila Malaskova, Martin Haluzik, and Jiri Mayer
<http://www.haematologica.org/content/98/10/e124>

- e127** Combined antifungal approach for the treatment of invasive mucormycosis in patients with hematologic diseases: a report from the SEIFEM and FUNGISCOPE registries
Livio Pagano, Oliver A. Cornely, Alessandro Busca, Morena Caira, Simone Cesaro, Cristiana Gasbarrino, Corrado Girmenia, Werner J. Heinz, Raoul Herbrecht, Cornelia Lass-Flörl, Annamaria Nosari, Leonardo Potenza, Zdeněk Racil, Volker Rickerts, Donald C. Sheppard, Arne Simon, Andrew J. Ullmann, Caterina Giovanna Valentini, Jörg Janne Vehreschild, Anna Candoni, and Maria J.G.T. Vehreschild
<http://www.haematologica.org/content/98/10/e127>

- e131** The clinical impact of ponatinib on the risk of bleeding in patients with chronic myeloid leukemia
Aziz Nazha, Carlos G. Romo, Hagop Kantarjian, and Jorge Cortes
<http://www.haematologica.org/content/98/10/e131>

Continuing Medical Education

Therapy of immunoglobulin light chain amyloidosis

Schnitzler syndrome

Common variable immunodeficiency and idiopathic primary hypogammaglobulinemia

The BCR-ABL^{T315I} mutation and resistance to tyrosine kinase inhibitors