

Cover Figure

Artistic impression of a blood clot: image created by somersault18:24 (www.somersault1824.com)

Editorials and Perspectives

- 1819** What lies beyond del(5q) in myelodysplastic syndrome?
Vera Adema and Rafael Bejar
- 1821** The role of antibiotic stewardship in limiting anti-bacterial resistance among hematology patients
Inge C. Gyssens, Winfried V. Kern, and David M. Livermore; on behalf of ECIL-4, a joint venture of EBMT, EORTC, ICHS and ESGICH of ESCMID

Guideline Articles

- 1826** European guidelines for empirical antibacterial therapy for febrile neutropenic patients in the era of growing resistance: summary of the 2011 4th European Conference on Infections in Leukemia
Diana Averbuch, Christina Orasch, Catherine Cordonnier, David M. Livermore, Małgorzata Mikulska, Claudio Viscoli, Inge C. Gyssens, Winfried V. Kern, Galina Klyasova, Oscar Marchetti, Dan Engelhard, and Murat Akova; on behalf of ECIL4, a joint venture of EBMT, EORTC, ICHS, ESGICH/ESCMID and ELN
- 1836** Targeted therapy against multi-resistant bacteria in leukemic and hematopoietic stem cell transplant recipients: guidelines of the 4th European Conference on Infections in Leukemia (ECIL-4, 2011)
Diana Averbuch, Catherine Cordonnier, David M. Livermore, Małgorzata Mikulska, Christina Orasch, Claudio Viscoli, Inge C. Gyssens, Winfried V. Kern, Galina Klyasova, Oscar Marchetti, Dan Engelhard, and Murat Akova on behalf of ECIL4, a joint venture of EBMT, EORTC, ICHS, ESGICH/ESCMID and ELN

Articles

Hematopoiesis & Hematopoietic Stem Cells

- 1848** Osteoclasts are not crucial for hematopoietic stem cell maintenance in adult mice

Carmen Flores, Ilana Moscatelli, Christian S. Thudium, Natasja Stæhr Gudmann, Jesper S. Thomsen, Annemarie Brüel, Morten A. Karsdal, Kim Henriksen, and Johan Richter

Myelodysplastic Syndromes

- 1856** Targeted re-sequencing analysis of 25 genes commonly mutated in myeloid disorders in del(5q) myelodysplastic syndromes
Marta Fernandez-Mercado, Adam Burns, Andrea Pellagatti, Aristoteles Giagounidis, Ulrich Germing, Xabier Agirre, Felipe Prosper, Carlo Aul, Sally Killick, James S. Wainscoat, Anna Schuh, and Jacqueline Boulwood

Chronic Myeloproliferative Disorders

- 1865** Efficacy, safety and survival with ruxolitinib in patients with myelofibrosis: results of a median 2-year follow-up of COMFORT-I
Srdan Verstovsek, Ruben A. Mesa, Jason Gotlib, Richard S. Levy, Vikas Gupta, John F. DiPersio, John V. Catalano, Michael W.N. Deininger, Carole B. Miller, Richard T. Silver, Moshe Talpaz, Elliott F. Winton, Jimmie H. Harvey Jr., Murat O. Arcasoy, Elizabeth O. Hexner, Roger M. Lyons, Ronald Paquette, Azra Raza, Kris Vaddi, Susan Erickson-Viitanen, William Sun, Victor Sandor, and Hagop M. Kantarjian
- 1872** Resolution of bone marrow fibrosis in a patient receiving JAK1/JAK2 inhibitor treatment with ruxolitinib
Bridget S. Wilkins, Deepti Radia, Claire Woodley, Sarah El Farhi, Clodagh Keohane, and Claire N. Harrison

Acute Myeloid Leukemia

- 1877** Cytoplasmic localization of wild-type survivin is associated with constitutive activation of the PI3K/Akt signaling pathway and represents a favorable prognostic factor in patients with acute myeloid leukemia
Juana Serrano-López, Josefina Serrano, Vianihuini Figueroa, Antonio Torres-Gomez, Salvador Tabares, Javier Casaña, Noemi Fernandez-Escalada, and Joaquín Sánchez-García

- 1886** BUBR1 is frequently repressed in acute myeloid leukemia and its re-expression sensitizes cells to antimetabolic therapy
Dominik Schnerch, Andrea Schmidts, Marie Follo, Josefina Udi, Julia Felthaus, Dietmar Pfeifer, Monika Engelhardt, and Ralph Wäsche

Acute Leukemia

- 1896** Higher ratio immune versus constitutive proteasome level as novel indicator of sensitivity of pediatric acute leukemia cells to proteasome inhibitors
Denise Niewerth, Niels E. Franke, Gerrit Jansen, Yehuda G. Assaraf, Johan van Meerloo, Christopher J. Kirk, Jeremiah Degenhardt, Janet Anderl, Aaron D. Schimmer, Sonja Zweegman, Valerie de Haas, Terzah M. Horton, Gertjan J.L. Kaspers, and Jacqueline Cloos

Acute Lymphoblastic Leukemia

- 1905** The synergism of MCL1 and glycolysis on pediatric acute lymphoblastic leukemia cell survival and prednisolone resistance
Ingrid M. Ariës, Bo R. Hansen, Troels Koch, Rosanna van den Dungen, William E. Evans, Rob Pieters, and Monique L. den Boer

Non-Hodgkin's Lymphomas

- 1912** Genome-wide profiling identifies a DNA methylation signature that associates with TET2 mutations in diffuse large B-cell lymphoma
Fazila Asmar, Vasu Punj, Jesper Christensen, Marianne T. Pedersen, Anja Pedersen, Anders B. Nielsen, Christoffer Hother, Ulrik Ralfkiaer, Peter Brown, Elisabeth Ralfkiaer, Kristian Helin, and Kirsten Grønbaek
- 1921** Dissecting the gray zone between follicular lymphoma and marginal zone lymphoma using morphological and genetic features
Oscar Krijgsman, Patricia Gonzalez, Olga Balagué Ponz, Margaretha G.M. Roemer, Stefanie Slot, Annegien Broeks, Linde Braaf, Ron M. Kerkhoven, Freek Bot, Krijn van Groningen, Max Beijert, Bauke Ylstra, and Daphne de Jong

Chronic Lymphocytic Leukemia

- 1930** Blinatumomab induces autologous T-cell killing of chronic lymphocytic leukemia cells
Ryan Wong, Chris Pepper, Paul Brennan, Dirk Nagorsen, Stephen Man, and Chris Fegan
- 1939** Complement factor H-derived short consensus repeat 18-20 enhanced complement-dependent cytotoxicity of ofatumumab on chronic lymphocytic leukemia cells
Susanne Hörl, Zoltan Banki, Georg Huber, Asim Ejaz, Brigitte Müllauer, Ella Willenbacher, Michael Steurer,

and Heribert Stoiber

Lymphoproliferative Disorders

- 1948** Sequential decisions on FAS sequencing guided by biomarkers in patients with lymphoproliferation and autoimmune cytopenia
Anne Rensing-Ehl, Ales Janda, Myriam R. Lorenz, Beryl P. Gladstone, Ilka Fuchs, Mario Abinun, Michael Albert, Karina Butler, Andrew Cant, Anna-Maria Cseh, Martin Ebinger, Sigune Goldacker, Sophie Hambleton, Holger Hebart, Leonora Houet, Karim Kentouche, Ingrid Kühnle, Kai Lehmborg, Ester Mejstrikova, Charlotte Niemeyer, Milen Minkov, Olaf Neth, Gregor Dückers, Stephan Owens, Joachim Rösler, Freimut H. Schilling, Volker Schuster, Markus G. Seidel, Petr Smisek, Martina Sukova, Peter Svec, Thomas Wiesel, Benjamin Gathmann, Klaus Schwarz, Werner Vach, Stephan Ehl, and Carsten Speckmann

Stem Cell Transplantation

- 1956** Subsequent donation requests among 2472 unrelated hematopoietic progenitor cell donors are associated with bone marrow harvest
Robert N. Lown, Sameer Tulpule, Nigel H. Russell, Charles F. Craddock, Rochelle Roest, J. Alejandro Madrigal, and Bronwen E. Shaw
- 1964** Loss of quiescence and impaired function of CD34⁺/CD38^{low} cells one year following autologous stem cell transplantation
Carolien M. Woolthuis, Annet Z. Brouwers-Vos, Gerwin Huls, Joost Th. M. de Wolf, Jan Jacob Schuringa, and Edo Vellenga

Red Cell Disorders

- 1972** Novel exon 2 α spectrin mutation and intragenic crossover: three morphological phenotypes associated with four distinct α spectrin defects
Sabina Swierczek, Archana M Agarwal, Kubendran Naidoo, Felipe R. Lorenzo, Jonathan Whisenant, Roberto H Nussenzveig, Neeraj Agarwal, Theresa L. Coetzer, and Josef T. Prchal

Disorders of Coagulation

- 1980** Specific and global coagulation assays in the diagnosis of discrepant mild hemophilia A
Annette E. Bowyer, Joost J. Van Veen, Anne C. Goodeve, Steve Kitchen, and Michael Makris

Obituary

- 1988 Remembering Professor Maurizio Longinotti

Continuing Medical Education

Mutational profile of del(5q) myelodysplastic syndromes

BubR1 downregulation in acute myeloid leukemia

Dissecting the gray zone between follicular lymphoma and marginal zone lymphoma using morphological and genetic features

Genome-wide profiling identifies a DNA methylation signature that associates with TET2 mutations in diffuse large B-cell lymphoma

Letters to the Editor

Letters are available online only at
www.haematologica.org/content/98/12.toc

- 151 Incidence and biological significance of IKZF1/Ikaros gene deletions in pediatric Philadelphia chromosome negative and Philadelphia chromosome positive B-cell precursor acute lymphoblastic leukemia
Sanjive Qazi, and Fatih M. Uckun
<http://www.haematologica.org/content/98/12/e151>

- 153 Impact of chemotherapy on venous thromboembolism. Comment to: Regional lymph node metastases are a strong risk factor for venous thromboembolism: results from the Vienna Cancer and Thrombosis Study
Patrizia Ferroni, Silvia Riondino, Fiorella Guadagni, and Mario Roselli
<http://www.haematologica.org/content/98/12/e153>

- 155 Immunotherapy-based regimen in anti-MAG neuropathy: results in 45 patients
Marie-Anne Hospital, Karine Viala, Sonia Dragomir, Vincent Levy, Fleur Cohen-Aubart, Jean Neil, Lucile Musset, Sylvain Choquet, Jean-Marc Leger, and Véronique Leblond
<http://www.haematologica.org/content/98/12/e155>

- 158 Mutation spectrum in Chinese patients affected by congenital sideroblastic anemia and a search for a genotype-phenotype relationship
Gang Liu, Shanshan Guo, Huiyuan Kang, Fuming Zhang, Yulin Hu, Lu Wang, Mianyang Li, Yongxin Ru, Clara Camaschella, Bing Han, and Guangjun Nie
<http://www.haematologica.org/content/98/12/e158>

- 161 FLT3-ITD internal tandem duplication confers poor prognosis in patients with acute promyelocytic leukemia treated with the AIDA protocols: long-term follow-up analysis
Massimo Breccia, Giuseppina Loglisci, Maria Giovanna Loglisci, Roberto Ricci, Daniela Diverio, Roberto Latagliata, Robin Foà, and Francesco Lo-Coco
<http://www.haematologica.org/content/98/12/e161>

- 164 Impact of IKZF1 deletions on IKZF1 expression and outcome in Philadelphia chromosome negative childhood BCP-ALL. Reply to "Incidence and biological significance of IKZF1/Ikaros gene deletions in pediatric Philadelphia chromosome negative and Philadelphia chromosome positive B-cell precursor acute lymphoblastic leukemia"
Chiara Palmi, Tobia Lana, Daniela Silvestri, Angela Savino, Geertruy Te Kronnie, Valentino Conter, Giuseppe Basso, Andrea Biondi, Maria Grazia Valsecchi, and Giovanni Cazzaniga
<http://www.haematologica.org/content/98/12/e164>

- 166 First description of the t(10;11)(q22;q23)/MLL-TET1 translocation in a T-cell lymphoblastic lymphoma, with subsequent lineage switch to acute myelomonocytic myeloid leukemia
Antoine Ittel, Eric Jeandidier, Catherine Helias, Nathalie Perrusson, Catherine Humbrecht, Bruno Lioure, Isabelle Mazurier, Caroline Mayeur-Rousse, Amandine Lavaux, Sylvie Thiebault, Felix Lerintiu, Carine Gervais, and Laurent Mauvieux
<http://www.haematologica.org/content/98/12/e166>