

## Cover Figure

ETV6-JAK2 fusion gene expression results in perturbed lymphopoiesis and myelopoiesis in zebrafish embryos. Taken from the article by Onnebo et al. Page 1895.

## Hematology News

- 1775 **Primetime for chemotherapy in acute myeloid leukemia**  
*Jan Cools*

## Editorials and Perspectives

- 1776 **H-Net, the European Network for Harmonization of Training in Hematology, and its policy**  
*Thom Duyvené de Wit, Eva Hellström-Lindberg, Ulrich Jäger, Gareth Evans-Jones, and Carin Smand*
- 1779 **Towards rational graft-versus-host disease prophylaxis**  
*Christoph M. Bucher and Jakob R. Passweg*
- 1781 **The benefit of population-based studies for older patients with acute myeloid leukemia**  
*Ulrike Bacher and Torsten Haferlach*
- 1783 **Modeling ETV6-JAK2-induced leukemia: insights from the zebrafish**  
*Jürg Schwaller*

## Review Articles

- 1786 **Clinical aspects and pathogenesis of congenital dyserythropoietic anemias: from morphology to molecular approach**  
*Achille Iolascon, Maria Rosaria Esposito, and Roberta Russo*

## Original Articles and Brief Reports

### Hematopoiesis & Hematopoietic Stem Cells

- 1795 **Human induced pluripotent stem cells can reach complete terminal maturation: *in vivo* and *in vitro* evidence in the erythropoietic differentiation model**  
*Ladan Kobari, Frank Yates, Noufissa Oudrhiri, Alain Francina, Laurent Kiger, Christelle Mazurier, Shaghayegh Rouzbeh, Wassim EL-Nemer, Nicolas Hebert, Marie-Catherine Giarratana, Sabine François, Alain Chapel, Hélène Lapillonne, Dominique Luton, Annelise Bennaceur-Griscelli, and Luc Douay*

### Cytogenetics and Molecular Genetics

- 1804 **Genetic variations in T-cell activation and effector pathways modulate alloimmune responses after allogeneic hematopoietic stem cell transplantation in patients with hematologic malignancies**  
*Haowen Xiao, Yi Luo, Xiaoyu Lai, Shan Fu, Jimin Shi, Yamin Tan, Jingsong He, Wanzhuo Xie, Weiyan Zheng, Li-Mengmeng Wang, Lifei Zhang, Lizhen Liu, Xiujin Ye, Xiaohong Yu, Zhen Cai, Maofang Lin, and He Huang*

### Erythropoiesis & Its Disorders

- 1813 **High frequency of ribosomal protein gene deletions in Italian Diamond-Blackfan anemia patients detected by multiplex ligation-dependent probe amplification assay**  
*Paola Quarello, Emanuela Garelli, Alfredo Brusco, Adriana Carando, Cecilia Mancini, Patrizia Pappi, Luciana Vinti, Johanna Svahn, Irma Dianzani, and Ugo Ramenghi*

### Iron Metabolism & Its Disorders

- 1818 **CYBRD1 as a modifier gene that modulates iron phenotype in HFE p.C282Y homozygous patients**  
*Sara Pelucchi, Raffaella Mariani, Stefano Calza, Anna Ludovica Fracanzani, Giulia Litta Modignani, Francesca Bertola, Fabiana Busti, Paola Trombini, Mirella Fraquelli, Gian Luca Forni, Domenico Girelli, Silvia Fargion, Claudia Specchia, and Alberto Piperno*
- 1826 **Metalloreductase Steap3 coordinates the regulation of iron homeostasis and inflammatory responses**  
*Fan Zhang, Yunlong Tao, Zhuzhen Zhang, Xin Guo, Peng An, Yuanyuan Shen, Qian Wu, Yu Yu, and Fudi Wang*



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Red Cell Disorders

- 1836** Partial tolerance of autoreactive B and T cells to erythrocyte-specific self-antigens in mice  
*Krystalyn E. Hudson, Jeanne E. Hendrickson, Chantel M. Cadwell, Neal N. Iwakoshi, and James C. Zimring*

Aplastic Anemia

- 1845** Favorable outcome of patients who have 13q deletion: a suggestion for revision of the WHO 'MDS-U' designation  
*Kohei Hosokawa, Takamasa Katagiri, Naomi Sugimori, Ken Ishiyama, Yumi Sasaki, Yu Seiki, Aiko Sato-Otsubo, Masashi Sanada, Seishi Ogawa, and Shinji Nakao*

Inborn errors of metabolism

- 1850** Effects of switching from a reduced dose imiglucerase to velaglucerase in type 1 Gaucher disease: clinical and biochemical outcomes  
*Laura van Dussen, Timothy M. Cox, Erik J. Hendriks, Elizabeth Morris, Erik M. Akkerman, Mario Maas, Johanna E. M. Groener, Johannes M.F.G. Aerts, Patrick B. Deegan, and Carla E. M. Hollak*

Hemostasis

- 1855** Factor VIII and von Willebrand factor are ligands for the carbohydrate-receptor Siglec-5  
*Julie N. Pegon, Mohamad Kurdi, Caterina Casari, Soline Odouard, Cécile V. Denis, Olivier D. Christophe, and Peter J. Lenting*
- 1864** Leukocyte- and endothelial-derived microparticles: a circulating source for fibrinolysis  
*Romarc Lacroix, Laurent Plawinski, Stéphane Robert, Loïc Doeuve, Florence Sabatier, Sara Martinez de Lizarrondo, Anna Mezzapesa, Francine Anfosso, Aurelie S. Leroyer, Pascale Poullin, Noémie Jourde, Makon-Sébastien Njock, Chantal M. Boulanger, Eduardo Anglés-Cano, and Françoise Dignat-George*

Transfusion Medicine and Cell Processing

- 1873** Improved platelet survival after cold storage by prevention of glycoprotein Iba clustering in lipid rafts  
*Eelo Gitz, Cornelis A Koekman, Dave J. van den Heuvel, Hans Deckmyn, Jan W. Akkerman, Hans C. Gerritsen, and Rolf T. Urbanus*

Graft-Versus-Host Disease

- 1882** A randomized phase II study to evaluate tacrolimus in combination with sirolimus or methotrexate after allogeneic hematopoietic cell transplantation  
*Joseph Pidala, Jongphil Kim, Heather Jim, Mohamed A. Kharfan-Dabaja, Taiga Nishihori, Hugo F. Fernandez, Marcie Tomblin, Lia Perez, Janelle Perkins, Mian Xu, William E. Janssen, Anandaraman Veerapathran, Brian C. Betts, Frederick L. Locke, Ernesto Ayala, Teresa Field, Leonel Ochoa, Melissa Alsina, and Claudio Anasetti*

Chronic Myeloproliferative Disorders

- 1890** Use of CBL exon 8 and 9 mutations in diagnosis of myeloproliferative neoplasms and myelodysplastic/myeloproliferative disorders: an analysis of 636 cases  
*Susanne Schmittger, Ulrike Bacher, Tamara Alpermann, Andreas Reiter, Madlen Ulke, Frank Dicker, Christiane Eder, Alexander Kohlmann, Vera Grossmann, Andreas Kowarsch, Wolfgang Kern, Claudia Haferlach, and Torsten Haferlach*

Molecular & Cellular Basis of Acute Leukemia

- 1895** Alternative TEL-JAK2 fusions associated with T-cell acute lymphoblastic leukemia and atypical chronic myelogenous leukemia dissected in zebrafish  
*Sara M. N. Onnebo, Parisa Rasighaemi, Janani Kumar, Clifford Liongue, and Alister C. Ward*

Acute Myeloid Leukemia

- 1904** Remission maintenance in acute myeloid leukemia: impact of functional histamine H<sub>2</sub> receptors expressed by leukemic cells  
*Johan Aurelius, Anna Martner, Mats Brune, Lars Palmqvist, Markus Hansson, Kristoffer Hellstrand, and Fredrik B. Thorén*
- 1909** RUNX1 mutations in cytogenetically normal acute myeloid leukemia are associated with a poor prognosis and up-regulation of lymphoid genes  
*Philipp A. Greif, Nikola P. Konstantin, Klaus H. Metzeler, Tobias Herold, Zlatana Pasalic, Bianka Ksienzyk, Annika Dufour, Friederike Schneider, Stephanie Schneider, Purvi M. Kakadia, Jan Braess, Maria Cristina Sauerland, Wolfgang E. Berdel, Thomas Büchner, Bernhard J. Woermann, Wolfgang Hiddemann, Karsten Spiekermann, and Stefan K. Bohlander*



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- 1916** **Survival for older patients with acute myeloid leukemia: a population based study**  
*Betul Oran and Daniel J. Weisdorf*

*Multiple Myeloma*

- 1925** **Updated survival analysis of a randomized phase III study of subcutaneous versus intravenous bortezomib in patients with relapsed multiple myeloma**  
*Bertrand Arnulf, Halyna Pylypenko, Sebastian Grosicki, Ievgenii Karamanesht, Xavier Leleu, Helgi van de Velde, Huaibao Feng, Andrew Cakana, William Deraedt, and Philippe Moreau*

**Letters**

- 1929** **Transfusion independence and survival in patients with acute myeloid leukemia treated with 5-azacytidine**  
*Mathilde Gavillet, Jasmine Noetzli, Sabine Blum, Michel A. Duchosal, Olivier Spertini, and Jean-Francois Lambert*
- 1931** **Clonal patterns of X-chromosome inactivation in peripheral blood cells of female patients with chronic idiopathic neutropenia**  
*Semeli Mastrodemou, Vasilios Vazgiourakis, Maria Velegraki, Konstantia Pavlaki, George N. Goulielmos, and Helen A. Papadaki*
- 1933** **ETV6 deletion is a common additional abnormality in patients with myelodysplastic syndromes or acute myeloid leukemia and monosomy 7**  
*Meaghan Wall, Kathleen C. Rayeroux, Ruth N. MacKinnon, Adrian Zordan, and Lynda J. Campbell*
- 1936** **Mutations in DNMT3A and loss of RKIP are independent events in acute monocytic leukemia**  
*Isabella Fried, Albert Wölfler, Franz Quehenberger, Gerald Hoefler, Heinz Sill, and Armin Zebisch*

**Online-Only Articles**

- e47** **Flow cytometry test for hereditary spherocytosis**  
*Géraud Mackiewicz, François Bailly, Bernardine Favre, Julien Guy, Marc Maynadié, and François Girodon*
- e48** **Testing for hereditary spherocytosis: a French experience**  
*Caroline Mayeur-Rousse, Mélanie Gentil, Jérémie Botton, Madeleine Fénéant Thibaut, Corinne Guitton, and Véronique Picard*
- e50** **Reply to “Flow cytometry test for hereditary spherocytosis”. *Haematologica*. 2012;97(12):e47.**  
*Paola Bianchi, Elisa Fermo, and Alberto Zanella*
- e51** **Reply to “Testing for hereditary spherocytosis: a French experience”. *Haematologica*. 2012;97(12):e48-9.**  
*Paola Bianchi, Elisa Fermo, and Alberto Zanella*

**Continuing Medical Education**

Older patients with acute myeloid leukemia

Tacrolimus with sirolimus or methotrexate for the prevention of graft-versus-host disease

Bone marrow failure with 13q deletion

Congenital dyserythropoietic anemias