



### Cover Figure

*Electron microscopy image of microvesicles from the cell-free fraction of a G-CSF mobilized bone marrow. Taken from the article by Salvucci and colleagues, pages 818-826.*

### Hematology News

- 795** Novel insights on TLX1 function in T-ALL pave the way towards differentiation therapy  
*Kim De Keersmaecker*
- 796** New opportunities and new problems for acute myeloid leukemia treatment  
*Idoya Lahortiga and Jan Cools*

### Editorials and Perspectives

- 797** Positron emission tomography/computed tomography surveillance in patients with lymphoma: a fox hunt?  
*Andrea Gallamini and Lale Kostakoglu*
- 800** Optimizing investigator-led oncology research in Europe  
*Tiziano Barbui, Magnus Björkholm, Alois Gratwohl*

### Review Articles

- 805** Acute myeloid leukemia developing in patients with autoimmune diseases  
*Safaa M. Ramadan, Tamer M Fouad, Valentina Summa, Syed KH Hasan, and Francesco Lo-Coco*

### Original Articles and Brief Reports

#### Hematopoiesis & Hematopoietic Stem Cells

- 818** MicroRNA126 contributes to granulocyte colony-stimulating factor-induced hematopoietic progenitor cell mobilization by reducing the expression of vascular cell adhesion molecule 1  
*Ombretta Salvucci, Kan Jiang, Paola Gasperini, Dragan Maric, Jinfang Zhu, Shuhei Sakakibara, Georgina Espigol-Frigole, Shushang Wang, and Giovanna Tosato*

June 2012

### Table of Contents

#### Iron Metabolism & Its Disorders

- 827** Hepatic hypoxia-inducible factor-2 down-regulates hepcidin expression in mice through an erythropoietin-mediated increase in erythropoiesis  
*Maria Mastrogianaki, Pavle Matak, Jacques R.R. Mathieu, Stéphanie Delga, Patrick Mayeux, Sophie Vaulont, and Carole Peysonnaux*

#### Thalassemia Syndromes

- 835** Timed non-transferrin bound iron determinations probe the origin of chelatable iron pools during deferiprone regimens and predict chelation response  
*Yesim Aydinok, Patricia Evans, Chantal Y. Manz, and John B. Porter*

- 842** Deferasirox for up to 3 years leads to continued improvement of myocardial T2\* in patients with β-thalassemia major  
*Dudley J. Pennell, John B. Porter, Maria Domenica Cappellini, Lee Lee Chan, Amal El-Beshlawy, Yesim Aydinok, Hishamshah Ibrahim, Chi-Kong Li, Vip Viprakasit, Mohsen S. Elalfy, Antonis Kattamis, Gillian Smith, Dany Habr, Gabor Domokos, Bernard Roubert, and Ali Taher*

#### Molecular & Cellular Basis of Plasma Cell Disorders

- 849** Multiple myeloma shows no intra-disease clustering of immunoglobulin heavy chain genes  
*Simone Ferrero, Daniela Capello, Mirija Svaldi, Michela Boi, Daniela Gatti, Daniela Drandi, Davide Rossi, Sara Barbiero, Barbara Mantoan, Elisabetta Mantella, Manuela Zanni, Paola Ghione, Alessandra Larocca, Roberto Passera, Francesco Bertoni, Valter Gattei, Francesco Forconi, Luca Laurenti, Giovanni Del Poeta, Roberto Marasca, Sergio Cortelazzo, Gianluca Gaidano, Antonio Palumbo, Mario Boccadoro, and Marco Ladetto*

#### Monoclonal Gammopathy of Undetermined Significance

- 854** Monoclonal gammopathy of undetermined significance and risk of infections: a population-based study  
*Sigurdur Y. Kristinsson, Min Tang, Ruth M Pfeiffer, Magnus Björkholm, Lynn R. Goldin, Cecilie Blimark, Ulf-Henrik Mellqvist, Anders Wahlin, Ingemar Turesson, and Ola Landgren*

Hemostasis

859

**Biogenesis of Weibel-Palade bodies in von Willebrand's disease variants with impaired von Willebrand factor intrachain or interchain disulfide bond formation**

Jiong-Wei Wang, Dafna J. Groeneveld, Guy Cosemans, Richard J. Dirven, Karine M. Valenijn, Jan Voorberg, Pieter H. Reitsma, and Jeroen Eikenboom

Stem Cell Transplantation

867

**Cytopenia and leukocyte recovery shape cytokine fluctuations after myeloablative allogeneic hematopoietic stem cell transplantation**

Jan Joseph Melenhorst, Xin Tian, Dihua Xu, Netanya G. Sandler, Philip Scheinberg, Angelique Biancotto, Priscila Scheinberg, John Phil McCoy Jr, Nancy F. Hensel, Zach McIver, Daniel C Douek, and Austin John Barrett

Cell Therapy and Immunotherapy

874

**Varicella-zoster virus glycoproteins B and E are major targets of CD4<sup>+</sup> and CD8<sup>+</sup> T cells reconstituting during zoster after allogeneic transplantation**

Patrick Kleemann, Eva Distler, Eva M. Wagner, Simone Thomas, Sebastian Klobuch, Steffi Aue, Elke Schnürer, Hansjörg Schild, Matthias Theobald, Bodo Plachter, Stefan Tenzer, Ralf G. Meyer, and Wolfgang Herr

Chemotherapy Toxicities and Complications

883

**Clinical cardiac safety profile of nilotinib**

Theo D. Kim, Philipp le Coutre, Michaela Schwarz, Peggy Grille, Michal Levitin, Suzanne Fateh-Moghadam, Francis J. Giles, Bernd Dörken, Wilhelm Haverkamp, and Clemens Köhncke

Myelodysplastic Syndromes

890

**Germ-line GATA2 p.THR354MET mutation in familial myelodysplastic syndrome with acquired monosomy 7 and ASXL1 mutation demonstrating rapid onset and poor survival**

Csaba Bödör, Aline Renneville, Matthew Smith, Aurélie Charazac, Sameena Iqbal, Pascaline Étancelin, Jamie Cavenagh, Michael J Barnett, Karolina Kramarzová, Biju Krishnan, András Matolcsy, Claude Preudhomme, Jude Fitzgibbon, and Carolyn Owen

895

**Altered immunophenotypic features of peripheral blood platelets in myelodysplastic syndromes**

Alex F. Sandes, Mihoko Yamamoto, Sergio Matarraz, María de Lourdes L.F. Chauffaille, Sandra Quijano, Antonio López, Tsutomu Oguro, Eliza Y. S. Kimura, and Alberto Orfao

Chronic Myeloid Leukemia

903

**Discontinuation of imatinib in Japanese patients with chronic myeloid leukemia**

Naoto Takahashi, Taiichi Kyo, Yasuhiro Maeda, Takashi Sugihara, Kensuke Usuki, Tatsuya Kawaguchi, Noriko Usui, Shinichiro Okamoto, Yokiko Ohe, Shigeaki Ohtake, Kunio Kitamura, Masahide Yamamoto, Hirofumi Teshima, Toshiko Motoji, Toshiharu Tamaki, Kenichi Sawada, and Kazuma Ohiyashiki

907

**Chronic phase chronic myeloid leukemia patients with low OCT-1 activity randomized to high-dose imatinib achieve better responses and have lower failure rates than those randomized to standard-dose imatinib**

Deborah L. White, Jerald Radich, Simona Soverini, Verity A Saunders, Amity K. Frede, Phuong Dang, Daniela Cilloni, Peter Lin, Lidia Mongay, Richard Woodman, Paul Manley, Cassandra Slader, Dong Wook Kim, Fabrizio Pane, Giovanni Martinelli, Giuseppe Saglio, and Timothy P. Hughes

Acute Myeloid Leukemia

915

**Prognosis of acute myeloid leukemia harboring monosomal karyotype in patients treated with or without allogeneic hematopoietic cell transplantation after achieving complete remission**

Masamitsu Yanada, Saiko Kurosawa, Takehiro Yamaguchi, Takeya Yamashita, Yukiyoshi Moriuchi, Hiroatsu Ago, Jin Takeuchi, Hirohisa Nakamae, Jun Taguchi, Toru Sakura, Yasushi Takamatsu, Fusako Waki, Hiroki Yokoyama, Masato Watanabe, Nobuhiko Emi, and Takehiro Fukuda

Adult Acute Lymphoblastic Leukemia

919

**Precursor B-acute lymphoblastic leukemia occurring in patients with a history of prior malignancies: is it therapy-related?**

Guilin Tang, Zhuang Zuo, Deborah A. Thomas, Pei Lin, Dingsheng Liu, Ying Hu, Hagop M. Kantarjian, Carlos Bueso-Ramos, L. Jeffrey Medeiros, and Sa A. Wang

926

### A20 inactivation in ocular adnexal MALT lymphoma

*Yingwen Bi, Naiyan Zeng, Estelle Chanudet, Yuanxue Huang, Rifat A. Hamoudi, Hongxiang Liu, Gehong Dong, A James Watkins, Steven C. Ley, Lifen Zou, Rongjia Chen, Xiongzeng Zhu, and Ming-Qing Du*

#### Hodgkin's Lymphoma

931

### Positron emission tomography/computed tomography surveillance in patients with Hodgkin lymphoma in first remission has a low positive predictive value and high costs

*Tarec Christoffer El-Galaly, Karen Juul Mylam, Peter Brown, Lena Specht, Ilse Christiansen, Lars Munksgaard, Hans Erik Johnsen, Annika Loft, Anne Bukh, Victor Iyer, Anne Lerberg Nielsen, and Martin Hutchings*

#### Non-Hodgkin's Lymphomas

937

### Fc gamma receptor 3a genotype predicts overall survival in follicular lymphoma patients treated on SWOG trials with combined monoclonal antibody plus chemotherapy but not chemotherapy alone

*Daniel O. Persky, David Dornan, Bryan H. Goldman, Rita M. Braziel, Richard I. Fisher, Michael LeBlanc, David G. Maloney, Oliver W. Press, Thomas P. Miller, and Lisa M. Rimsza*

#### Chronic Lymphocytic Leukemia

943

### Enhancement of fludarabine sensitivity by all-trans-retinoic acid in chronic lymphocytic leukemia cells

*Paula X. Fernández-Calotti, Mónica Lopez-Guerra, Dolors Colomer, and Marçal Pastor-Anglada*

952

### Physical contact with endothelial cells through $\beta_1$ - and $\beta_2$ -integrins rescues chronic lymphocytic leukemia cells from spontaneous and drug-induced apoptosis and induces a peculiar gene expression profile in leukemic cells

*Rossana Maffei, Stefania Fiorcari, Jenny Bulgarelli, Silvia Martinelli, Ilaria Castelli, Silvia Deaglio, Giulia Debbia, Marcella Fontana, Valeria Coluccio, Goretti Bonacorsi, Patrizia Zucchini, Franco Narni, Giuseppe Torelli, Mario Luppi, and Roberto Marasca*

June 2012

#### Table of Contents

#### Online-Only Articles

e18

### Characterization of potential CD138 negative myeloma "stem cells"

*Jacob H. Christensen, Pia V. Jensen, Ida B. Kristensen, Niels Abildgaard, Marianne Lodahl, and Thomas Rasmussen*

e21

### Early interim 2-(1)fluoro-2-deoxy-D-glucose positron emission tomography is prognostically superior to peripheral blood lymphocyte/monocyte ratio at diagnosis in classical Hodgkin's lymphoma

*Alessandra Romano, Calogero Vetro, Daniela Donnarumma, Stefano Forte, Massimo Ippolito, and Francesco Di Raimondo*

e24

### Reply to "Early interim 2-(1)fluoro-2-deoxy-D-glucose positron emission tomography is prognostically superior to peripheral blood lymphocyte/monocyte ratio at diagnosis in classical Hodgkin's lymphoma" Haematologica 2012;97(6):e21-3 Luis F. Porrata and Svetomir N. Markovic

#### Continuing Medical Education

### Enhancement of fludarabine sensitivity by all-trans retinoic acid in chronic lymphocytic leukemia cells

### Immunophenotypic features of peripheral blood platelets in myelodysplastic syndromes

### Long-term iron chelation with in patients with beta-thalassemia major

### Therapy-related precursor B-acute lymphoblastic leukemia