

Cover Figure

The cover image is a part of the figure from the review article by Aronson and Davies on page 1119. It shows an endoplasmic reticulum (ER) stress sensor molecule in the membrane of the ER and the GRP78 protein as part of the machinery sensing unfolded proteins.

Hematology News

- 1117** Heightened DNA damage response impairs hematopoiesis in Fanconi anemia
Inderjeet Dokal
- 1118** Ligand-induced MET signaling as targetable codependence in acute myeloid leukemia
Stefan Fröhling

Review Articles

- 1119** DangER: protein overload. Targeting protein degradation to treat myeloma
Lauren I. Aronson and Faith E. Davies

Original Articles and Brief Reports

Hematopoiesis & Hematopoietic Stem Cells

- 1131** Estradiol increases hematopoietic stem and progenitor cells independent of its actions on bone
Anett Illing, Peng Liu, Susanne Ostermay, Arndt Schilling, Gerald de Haan, Andree Krust, Michael Amling, Pierre Chambon, Thorsten Schinke, and Jan P. Tuckermann

Red Cell Disorders

- 1136** Hemoglobin sickle cell disease complications: a clinical study of 179 cases
François Lionnet, Nadjib Hammoudi, Katia Stankovic Stojanovic, Virginie Avellino, Gilles Grateau, Robert Girot, and Jean-Philippe Haymann

Aplastic Anemia

- 1142** Bone marrow versus peripheral blood as the stem cell source for sibling transplants in acquired aplastic anemia: survival advantage for bone marrow in all age groups
Andrea Bacigalupo, Gérard Socié, Hubert Schrezenmeier, Andre Tichelli, Anna Locasciulli, Monika Fuehrer, Antonio M. Risitano, Carlo Dufour, Jakob R. Passweg, Rosi Oneto, Mahmoud Aljurf, Catherine Flynn, Valerie Mialou, Rose Marie Hamladji, and Judith C. W. Marsh for the Aplastic Anemia Working Party of the European Group for Blood and Marrow Transplantation (WPSAA-EBMT)

Thrombopoiesis & Its Disorders

- 1149** Induction of insulin resistance by the adipokines resistin, leptin, plasminogen activator inhibitor-1 and retinol binding protein 4 in human megakaryocytes
Anja J. Gerrits, Eelo Gitz, Cornelis A. Koekman, Frank L. Visseren, Timon W. van Haefen, and Jan Willem N. Akkerman

Blood Coagulation

- 1158** High D-dimer levels are associated with poor prognosis in cancer patients
Cihan Ay, Daniela Dunkler, Robert Pirker, Johannes Thaler, Peter Quehenberger, Oswald Wagner, Christoph Zielinski, and Ingrid Pabinger
- 1165** Gla-domainless factor Xa: molecular bait to bypass a blocked tenase complex
Raphaël Marlu and Benoît Polack

Thrombosis

- 1173** Characterization of the thrombin generation potential of leukemic and solid tumor cells by calibrated automated thrombography
Marina Marchetti, Erika Diani, Hugo ten Cate, and Anna Falanga



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- 1181** Development and validation of a predictive model for death in acquired severe ADAMTS13 deficiency-associated idiopathic thrombotic thrombocytopenic purpura: the French TMA Reference Center experience
Ygal Benhamou, Cyrielle Assié, Pierre-Yves Boelle, Marc Buffet, Rana Grillberger, Sandrine Malot, Alain Wynckel, Claire Presne, Gabriel Choukroun, Pascale Poullin, François Provôt, Didier Gruson, Mohamed Hamidou, Dominique Bordessoule, Jacques Pourrat, Jean-Paul Mira, Véronique Le Guern, Claire Pouteil-Noble, Cédric Daubin, Philippe Vanhille, Eric Rondeau, Jean-Bernard Palcoux, Christiane Mousson, Cécile Vigneau, Guy Bonmarchand, Bertrand Guidet, Lionel Galicier, Elie Azoulay, Hanspeter Rottensteiner, Agnès Veyradier, and Paul Coppo for the Thrombotic Microangiopathies Reference Center

Graft-Versus-Host Disease

- 1187** Evaluation of prognostic factors among patients with chronic graft-versus-host disease
Jose A. Pérez-Simón, Gabriel Afram, Rodrigo Martino, Jose L Piñana, Teresa Caballero-Velazquez, Olle Ringden, David Valcarcel, Dolores Caballero, Mats Remberger, Yanira de Paz, Jordi Sierra, Jesús San Miguel, and Hans Haglund

Cell Therapy and Immunotherapy

- 1196** Identification of four novel HLA-B*40:01 restricted minor histocompatibility antigens and their potential as targets for graft-versus-leukemia reactivity
Marieke Griffioen, M. Willy Honders, Edith D. van der Meijden, Simone A.P. van Luxemburg-Heijs, Ellie G.A. Lurvink, Michel G.D. Kester, Cornelis A.M. van Bergen, and J.H. Frederik Falkenburg

- 1205** Generation and administration of HA-1-specific T-cell lines for the treatment of patients with relapsed leukemia after allogeneic stem cell transplantation: a pilot study
Pauline Meij, Inge Jedema, Menno A.W.G. van der Hoorn, Rian Bongaerts, Linda Cox, Amon R. Wafelman, Erik W.A. Marijt, Roel Willemze, and J.H. Frederik Falkenburg

Myelodysplastic Syndromes

- 1209** Multicenter validation of a reproducible flow cytometric score for the diagnosis of low-grade myelodysplastic syndromes: results of a European LeukemiaNET study
Matteo G. Della Porta, Cristina Picone, Cristiana Pascutto, Luca Malcovati, Hideto Tamura, Hiroshi Handa, Magdalena Czader, Sylvie Freeman, Paresh Vyas, Anna Porwit, Leonie Saft, Theresia M. Westers, Canan Alhan, Claudia Cali, Arjan A. van de Loosdrecht, and Kiyoyuki Ogata

- 1218** Impaired expression of DICER, DROSHA, SBDS and some microRNAs in mesenchymal stromal cells from myelodysplastic syndrome patients
Carlos Santamaria, Sandra Muntión, Beatriz Rosón, Belén Blanco, Olga López-Villar, Soraya Carrancio, Fermín M. Sánchez-Guijo, María Diez-Campelo, Stela Alvarez-Fernández, María E. Sarasquete, Javier de las Rivas, Marcos González, Jesús F. San Miguel, and María Consuelo del Cañizo

- 1225** The small population of PIG-A mutant cells in myelodysplastic syndromes do not arise from multipotent hematopoietic stem cells
Jeffrey J. Pu, Rong Hu, Galina L. Mukhina, Hetty E. Carraway, Michael A. McDevitt, and Robert A. Brodsky

Chronic Myeloproliferative Disorders

- 1234** CBL mutations in myeloproliferative neoplasms are also found in the gene's proline-rich domain and in patients with the V617FJAK2
Paula Aranaz, Cristina Hurtado, Ignacio Erquiaga, Itziar Miguélez, Cristina Ormazábal, Ion Cristobal, Marina García-Delgado, Francisco Javier Novo, and José Luis Vizmanos

Acute Myeloid Leukemia

- 1242** Activating internal tandem duplication mutations of the fms-like tyrosine kinase-3 (FLT3-ITD) at complete response and relapse in patients with acute myeloid leukemia
Aziz Nazha, Jorge Cortes, Stefan Faderl, Sherry Pierce, Naval Daver, Tapan Kadia, Gautam Borthakur, Raja Luthra, Hagop Kantarjian, and Farhad Ravandi



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Chronic Lymphocytic Leukemia

- 1246** **The Aurora A and B kinases are up-regulated in bone marrow-derived chronic lymphocytic leukemia cells and represent potential therapeutic targets**
Francisco de Paula Careta, Stefania Gobessi, Rodrigo Alexandre Panepucci, Engin Bojnuk, Fabio Morato de Oliveira, Daniel Mazza Matos, Roberto P. Falcão, Luca Laurenti, Marco A. Zago, and Dimitar G. Efremov

Non-Hodgkin's Lymphomas

- 1255** **Mesenchymal stromal cells protect mantle cell lymphoma cells from spontaneous and drug-induced apoptosis through secretion of B-cell activating factor and activation of the canonical and non-canonical nuclear factor κ B pathways**
Daniel J. Medina, Lauri Goodell, John Glod, Céline Gélinas, Arnold B. Rabson, and Roger K. Strair

Multiple Myeloma

- 1264** **Myeloma cells contain high levels of inorganic polyphosphate which is associated with nucleolar transcription**
Maria D. Jimenez-Nuñez, David Moreno-Sanchez, Laura Hernandez-Ruiz, Alicia Benítez-Rondán, Ana Ramos-Amaya, Beatriz Rodríguez-Bayona, Francisco Medina, José Antonio Brieva, and Felix A. Ruiz
- 1272** **Report from the European Myeloma Network on interphase FISH in multiple myeloma and related disorders**
Fiona M. Ross, Hervé Avet-Loiseau, Geneviève Ameje, Norma C. Gutiérrez, Peter Liebisch, Sheila O'Connor, Klara Dalva, Sonia Fabris, Adele M. Testi, Marie Jarosova, Anna Collin, Gitte Kernstrup, Petr Kuglik, Dariusz Ladon, Paolo Bernasconi, Brigitte Maes, Zuzana Zemanova, Kyra Michalova, Lucienne Michau, Kai Neben, N. Emil U. Hermansen, Katrina Rack, Alberto Rocci, Rebecca Protheroe, Laura Chiecchio, Hélène A Poirel, Pieter Sonneveld, Mette Nyegaard, and Hans E. Johnsen on behalf of the European Myeloma Network

Letters

- 1278** **Chimeric antisense RNA derived from chromosomal translocation modulates target gene expression**
Takumi Sugimoto, Akihiro Tomita, Akihiro Abe, Chisako Iriyama, Hitoshi Kiyoi, and Tomoki Naoe

Online-Only Articles

- e26** **Infliximab therapy in hematologic malignancies: handle with care (Comment)**
Fabio Stagno, Paolo Vigneri, Alessandra Cupri, Silvia Rita Vitale, and Francesco Di Raimondo
- e27** **Reply to "Infliximab therapy in hematologic malignancies: handle with care" 2012;97(8):e26.**
Frédéric Baron and Theo de Witte
- e28** **Acute leukemia arising after radioiodine treatment for thyroid cancer**
Marine Gilibert and Thomas Prebet
- e30** **Reply to "Acute leukemia arising after radioiodine treatment for thyroid cancer" Haematologica 2012;97(8):e28-29.**
Thomas Schroeder and Ulrich Germing

Continuing Medical Education

Marrow *versus* blood transplants in aplastic anemia

D-dimer levels in cancer patients

Predicting mortality in ADAMTS13 deficiency-associated thrombotic thrombocytopenic purpura

Complications of hemoglobin SC disease