

Table of Contents

Volume 104, Issue 4: April 2019

Cover Figure

Bone marrow smear from a patient with atypical chronic myeloid leukemia, BCR-ABL1 negative, showing abnormal chromatin clumping, hyosegmented nuclei, and agranular cytoplasm in late granulocytic cells. Courtesy of Prof. Rosangela Invernizzi.

Editorials

- 639** Exploitation of the neural-hematopoietic stem cell niche axis to treat myeloproliferative neoplasms
Naoimh Herlihy et al.
- 642** Expounding on the essence of epigenetic and genetic abnormalities in blastic plasmacytoid dendritic cell neoplasms
Lhara Lezama et al.
- 644** THROMBOTECT takes the lead
Christoph Male et al.
- 646** Asymmetric dimethylarginine – a prognostic marker for transplant outcome?
Janghee Woo and H. Joachim Deeg

Perspective Article

- 648** Liquid biopsy in lymphoma
Davide Rossi et al.

Review Articles

- 653** Re-evaluation of hematocrit as a determinant of thrombotic risk in erythrocytosis
Victor R. Gordeuk et al.
- 659** State-of-the-art review: allogeneic stem cell transplantation for myelofibrosis in 2019
Donal P. McLornan et al.

Articles

Hematopoiesis

- 669** *In vitro* and *in vivo* evaluation of possible pro-survival activities of PGE₂, EGF, TPO and FLT3L on human hematopoiesis
Eva-Maria Demmerath et al.

Iron Metabolism & its Disorders

- 678** Gastrointestinal iron excretion and reversal of iron excess in a mouse model of inherited iron excess
Courtney J. Mercadante et al.

Red Cell Biology & its Disorders

- 690** Hemodynamic provocation with acetazolamide shows impaired cerebrovascular reserve in adults with sickle cell disease
Lena Václavů et al.

Myelodysplastic Syndromes

- 700** Azacitidine with or without lenalidomide in higher risk myelodysplastic syndrome & low blast acute myeloid leukemia
Melita Kenealy et al.

Myeloproliferative Neoplasms

- 710** The sympathomimetic agonist mirabegron did not lower *JAK2-V617F* allele burden, but restored nestin-positive cells and reduced reticulin fibrosis in patients with myeloproliferative neoplasms: results of phase II study SAKK 33/14
Beatrice Drexler et al.

Chronic Myeloid Leukemia

- 717** A new BCR-ABL1 *Drosophila* model as a powerful tool to elucidate the pathogenesis and progression of chronic myeloid leukemia
Roberto Bernardoni et al.

- 729** Blastic plasmacytoid dendritic cell neoplasm: genomics mark epigenetic dysregulation as a primary therapeutic target
Maria Rosaria Sapienza et al.

Acute Lymphoblastic Leukemia

- 738** Autophagy inhibition as a potential future targeted therapy for ETV6-RUNX1-driven B-cell precursor acute lymphoblastic leukemia
Roel Polak et al.
- 749** CD123 expression patterns and selective targeting with a CD123-targeted antibody-drug conjugate (IMGN632) in acute lymphoblastic leukemia
Evgeniya Angelova et al.
- 756** THROMBOTECT – a randomized study comparing low molecular weight heparin, antithrombin and unfractionated heparin for thromboprophylaxis during induction therapy of acute lymphoblastic leukemia in children and adolescents
Jeanette Greiner et al.

Non-Hodgkin Lymphoma

- 766** TIRAP p.R81C is a novel lymphoma risk variant which enhances cell proliferation via NF- κ B mediated signaling in B-cells
Regula Burkhard et al.
- 778** Pharmacological modulation of CXCR4 cooperates with BET bromodomain inhibition in diffuse large B-cell lymphoma
Clara Recasens-Zorzo et al.

Chronic Lymphocytic Leukemia

- 789** Deep targeted sequencing of *TP53* in chronic lymphocytic leukemia: clinical impact at diagnosis and at time of treatment
Christian Brieghel et al.
- 797** First-line therapy in chronic lymphocytic leukemia: a Swedish nation-wide real-world study on 1053 consecutive patients treated between 2007 and 2013
Sandra Eketorp Sylvan et al.

Platelet Biology & its Disorders

- 806** Aerobic glycolysis fuels platelet activation: small-molecule modulators of platelet metabolism as anti-thrombotic agents
Paresh P. Kulkarni et al.

Coagulation & its Disorders

- 819** New insight into antiphospholipid syndrome: antibodies to β_2 glycoprotein I-domain 5 fail to induce thrombi in rats
Paolo Durigutto et al.

Stem Cell Transplantation

- 827** Asymmetric dimethylarginine serum levels are associated with early mortality after allogeneic stem cell transplantation
Aleksandar Radujkovic et al.
- 835** Disability related to chronic graft-versus-host disease after alternative donor hematopoietic cell transplantation
Giancarlo Fatobene et al.

Blood Transfusion

- 844** Related peripheral blood stem cell donors experience more severe symptoms and less complete recovery at one year compared to unrelated donors
Michael A. Pulsipher et al.

Obituary

- 855** Francesco Lo Coco, a distinguished hematologist and a friend
Paolo Corradini, Pellegrino Musto and Marco Vignetti

Letters to the Editor

Letters are available online only at www.haematologica.org/content/104/4.toc

- e127** Low serum haptoglobin and blood films suggest intravascular hemolysis contributes to severe anemia in hereditary hemorrhagic telangiectasia
Lieze Thielemans et al.
<http://www.haematologica.org/content/104/4/e127>

- e131** A phase II study of the efficacy and safety of an intensified schedule of azacytidine in intermediate-2 and high-risk patients with myelodysplastic syndromes: a study by the Groupe Francophone des Myelodysplasies (GFM)
Lionel Ades et al.
<http://www.haematologica.org/content/104/4/e131>
- e134** Positive impact of molecular analysis on prognostic scores in essential thrombocythemia: a single center prospective cohort experience
Damien Luque Paz et al.
<http://www.haematologica.org/content/104/4/e134>
- e138** Antitumor synergy with SY-1425, a selective RAR α agonist, and hypomethylating agents in retinoic acid receptor pathway activated models of acute myeloid leukemia
Michael R. McKeown et al.
<http://www.haematologica.org/content/104/4/e138>
- e143** Phase I/II trial of cladribine, high-dose cytarabine, mitoxantrone, and G-CSF with dose-escalated mitoxantrone for relapsed/refractory acute myeloid leukemia and other high-grade myeloid neoplasms
Anna B. Halpern et al.
<http://www.haematologica.org/content/104/4/e143>
- e147** Extramedullary acute myeloid leukemia presenting in young adults demonstrates sensitivity to high-dose anthracycline: a subset analysis from ECOG-ACRIN 1900
Hugo F. Fernandez et al.
<http://www.haematologica.org/content/104/4/e147>
- e151** Phase I dose-escalation study of brentuximab-vedotin combined with dexamethasone, high-dose cytarabine and cisplatin, as salvage treatment in relapsed/refractory classical Hodgkin lymphoma: The HOVON/LLPC Transplant BRaVE study
Anton Hagenbeek et al.
<http://www.haematologica.org/content/104/4/e151>
- e154** Targeted next generation sequencing reveals high mutation frequency of *CREBBP*, *BCL2* and *KMT2D* in high-grade B-cell lymphoma with *MYC* and *BCL2* and/or *BCL2* rearrangements
Solène M. Evrard et al.
<http://www.haematologica.org/content/104/4/e154>
- e158** *DUSP22*-rearranged anaplastic lymphomas are characterized by specific morphological features and a lack of cytotoxic and JAK/STAT surrogate markers
Arantza Onaindia et al.
<http://www.haematologica.org/content/104/4/e158>
- e163** Clinical presentation determines selection of patients for initial observation in mantle cell lymphoma
Anita Kumar et al.
<http://www.haematologica.org/content/104/4/e163>

Case Reports

Case Reports are available online only at www.haematologica.org/content/104/4.toc

- e167** Recognition of hemophagocytic lymphohistiocytosis in sickle cell vaso-occlusive crises is a potentially lifesaving diagnosis
Orly Leiva et al.
<http://www.haematologica.org/content/104/4/e167>
- e170** Serendipity: decitabine monotherapy induced complete molecular response in a 77-year-old patient with acute promyelocytic leukemia
Ramzi Abboud et al.
<http://www.haematologica.org/content/104/4/e170>
- e174** Transmission of diffuse large B-cell lymphoma by an allogeneic stem-cell transplant
Shamzah Araf et al.
<http://www.haematologica.org/content/104/4/e174>

Comments

Comments are available online only at www.haematologica.org/content/104/4.toc

- e178** Comment to “The outcome of peripheral T-cell lymphoma patients failing first-line therapy”
Peter Dreger
<http://www.haematologica.org/content/104/4/e178>
- e179** The outcome of peripheral T-cell lymphoma patients failing first-line therapy: a report from the prospective International T-Cell Project
Monica Bellei and Massimo Federico
<http://www.haematologica.org/content/104/4/e179>