

EDITORIALS

Impact of Second-Tier Testing on the Effectiveness of Newborn Screening D.H. Chace and W.H. Hannon (see article on page 1686) 1653

Pregnancy-Associated MicroRNAs in Maternal Plasma: A Channel for Fetal–Maternal Communication? R.W.K. Chiu and Y.M.D. Lo (see brief communication on page 1767) 1656

PERSPECTIVE

How Do We Find the Best Biomarkers for Cardiovascular Disease? N.-A. Le and P.W.F. Wilson 1658

Q&A

Cancer Genomes E.P. Diamandis, T. Hudson, O. Kallioniemi, E.T. Liu, and C. López-Otín 1660

CLINICAL CASE STUDY

Increased Homocysteine in a Patient Diagnosed with Marfan Syndrome O. Oladipo, L. Spreitsma, D.J. Dietzen, and M. Shinawi 1665

COMMENTARIES

G. Berry and H. Levy 1669

M.J. Bennett 1669

CLINICAL CHEMISTRY GUIDE TO SCIENTIFIC WRITING

The Discussion Section: Your Closing Argument T.M. Annesley 1671

REVIEW


Human Tissue Ownership and Use in Research: What Laboratorians and Researchers Should Know M.J. Allen, M.L.E. Powers, K.S. Gronowski, and A.M. Gronowski 1675

OPINION

The Tragedy of the Microarray Anticommons J.Y. Park 1683

ARTICLES

ENDOCRINOLOGY AND METABOLISM

Determination of Total Homocysteine, Methylmalonic Acid, and 2-Methylcitric Acid in Dried Blood Spots by Tandem Mass Spectrometry C.T. Turgeon, M.J. Magera, C.D. Cuthbert, P.R. Loken, D.K. Gavrilov, S. Tortorelli, K.M. Raymond, D. Oglesbee, P. Rinaldo, and D. Matern (see editorial on page 1653) 1686 

Atorvastatin Increases 25-Hydroxy Vitamin D Concentrations in Patients with Polycystic Ovary Syndrome T. Sathyapalan, J. Shepherd, C. Arnett, A.-M. Coady, E.S. Kilpatrick, and S.L. Atkin 1696

AUTOMATION AND ANALYTICAL TECHNIQUES

Electrochemical Immunosensor for Simultaneous Detection of Dual Cardiac Markers Based on a Poly(Dimethylsiloxane)-Gold Nanoparticles Composite Microfluidic Chip: A Proof of Principle F. Zhou, M. Lu, W. Wang, Z.-P. Bian, J.-R. Zhang, and J.-J. Zhu 1701

PROTEOMICS AND PROTEIN MARKERS

Midregional Pro–Atrial Natriuretic Peptide for the Diagnosis of Cardiac-Related Dyspnea according to Renal Function in the Emergency Department: A Comparison with B-Type Natriuretic Peptide (BNP) and N-Terminal ProBNP C. Chenevier-Gobeaux, S. Guerin, S. André, P. Ray, L. Cynober, S. Gestin, J.-L. Pourriat, and Y.-E. Claessens 1708

Prognostic Assessment of Elderly Patients with Symptoms of Heart Failure by Combining High-Sensitivity Troponin T and N-Terminal Pro–B-Type Natriuretic Peptide Measurements U. Alehagen, U. Dahlström, J.F. Rehfeld, and J.P. Goetze 1718

A Dual-Monoclonal Sandwich ELISA Specific for Hepcidin-25 A.M. Butterfield, P. Luan, D.R. Witcher, J. Manetta, A.T. Murphy, V.J. Wroblewski, and R.J. Konrad 1725

MOLECULAR DIAGNOSTICS AND GENETICS

The MicroRNA Spectrum in 12 Body Fluids J.A. Weber, D.H. Baxter, S. Zhang, D.Y. Huang, K.H. Huang, M.J. Lee, D.J. Galas, and K. Wang 1733

continued

ARTICLES, continued

Association of *SRD5A2* Variants and Serum Androstane-3 α ,17 β -Diol Glucuronide Concentration in Chinese Elderly Men J. Jiang, N.L.S. Tang, C. Ohlsson, A.L. Eriksson, L. Vandenput, C. Liao, X. Wang, F.W.K. Chan, A. Kwok, E. Orwoll, T.C.Y. Kwok, J. Woo, and P.C. Leung **1742**

Microsatellite Instability Detection by High-Resolution Melting Analysis R. Janavicius, D. Matiukaite, A. Jakubauskas, and L. Griskevicius **1750**

POINT-OF-CARE TESTING

Diagnostic Accuracy and User-Friendliness of 5 Point-of-Care D-Dimer Tests for the Exclusion of Deep Vein Thrombosis G.-J. Geersing, D.B. Toll, K.J.M. Janssen, R. Oudega, M.J.C. Blikman, R. Wijland, K.M.K. de Vooght, A.W. Hoes, and K.G.M. Moons **1758**

BRIEF COMMUNICATION

Identification of Pregnancy-Associated MicroRNAs in Maternal Plasma K. Miura, S. Miura, K. Yamasaki, A. Higashijima, A. Kinoshita, K. Yoshiura, and H. Masuzaki (see editorial on page 1656) **1767**

INSPIRING MINDS

Larry Kricka M. Landau **1772**

CITATION CLASSIC

Counting the Proteins in Plasma N.L. Anderson **1775**

CLINICAL CHEMIST

WHAT IS YOUR GUESS?

Conflicting Calcium Concentrations in the Presence of Low Albumin after Bone Marrow Transplantation H.-Y.E. Yu, J.J. O'Brien, and B. Magnani **1777**

NEWS & VIEWS

Don't Throw It Away—Send It to Me!! L.J. Kricka, K. Imai, and P. Wilding **1778**

UNVEILING THE RIGHT SIDE

The Special Metabolic Profile of the Erythrocytes U. Anand **1780**

ACCENT®—CONTINUING EDUCATION CREDIT FOR READERS OF CLINICAL CHEMISTRY

For more information go to <http://www.aacc.org/applications/ccjaccent>



ON THE COVER Larry Kricka. If you are not familiar with “alliteration,” you will certainly have an appreciation for it after you learn about Larry Kricka in this issue’s Inspiring Minds article. Although many individuals consider Larry

a pioneer in the field of nanotechnology, he is also known for his groundbreaking work on luminescence, which earned him a Queen’s Award and numerous patents. And then there is the Screw Top Wine Club, which you will have to read about to fully appreciate the British charm and wit of this internationally known clinical chemist. (See page 1772.) ©Image reproduced with permission. Artist, Martin A. Knapp.

Color figures for Reviews sponsored by Department of Laboratory Medicine, Children’s Hospital Boston.



Clinical Chemistry podcast available at <http://www.clinchem.org/>

Clinical Chemistry Journal Club

Selected articles made freely available, including helpful slides and key points for discussion in your Journal Club.

Glucose Meter Performance Criteria for Tight Glycemic Control Estimated by Simulation Modeling B.S. Karon, J.C. Boyd, and G.G. Klee
<http://www.clinchem.org/cgi/reprint/56/7/1091>

Patient Misidentification Caused by Errors in Standard Bar Code Technology M.L. Snyder, A. Carter, K. Jenkins, and C.R. Fantz
<http://www.clinchem.org/cgi/reprint/56/10/1554>

Access the article by using the links above and by selecting Journal Club in the right-hand column.



Clinical Chemistry is now on Twitter, Facebook, and LinkedIn. Be a part of our community and receive updates on the latest issues, upcoming articles, podcasts, and more!