




EDITORIAL

-  **Newer Fecal Tests: Opportunities for Professionals in Laboratory Medicine** C.G. Fraser, J.E. Allison, G.P. Young, and S.P. Halloran (see article on page 989) 963

PERSPECTIVE

-  **Unraveling the Transcriptional Heterogeneity in Human Colon Cancer: Potential New Insights regarding Pathobiology and Treatment** M. Nilsson 966

Q&A

-  **The Obesity Epidemic** Moderators: J. Shea and E.P. Diamandis; Experts: A.M. Sharma, J.-P. Després, S. Ezzat, and F. Greenway 968

CLINICAL CASE STUDY

- Persistent Hemolysis in a Patient with Pancreatitis** S.L. Cook and D.E. Bruns 974

COMMENTARIES

- G.P. Schechter 977
N.S. Harris, L.A.L. Bazydlo, and W.E. Winter 978

SPECIAL REPORT


- Scientific Expertise and the Athlete Biological Passport: 3 Years of Experience** Y.O. Schumacher and G. d'Onofrio 979

OPINION

-  **Elementary, My Dear Doctor Watson** R. Arnaout 986

ARTICLES

POINT-OF-CARE TESTING

-  **Diagnostic Accuracy of Point-of-Care Fecal Calprotectin and Immunochemical Occult Blood Tests for Diagnosis of Organic Bowel Disease in Primary Care: The Cost-Effectiveness of a Decision Rule for Abdominal Complaints in Primary Care (CEDAR) Study** L. Kok, S.G. Elias, B.J.M. Witteman, J.G. Goedhard, J.W.M. Muris, K.G.M. Moons, and N.J. de Wit (see editorial on page 963) 989

ENDOCRINOLOGY AND METABOLISM

- Metabolic Heterogeneity in Polycystic Ovary Syndrome Is Determined by Obesity: Plasma Metabolomic Approach Using GC-MS** H.F. Escobar-Morreale, S. Samino, M. Insenser, M. Vinaixa, M. Luque-Ramírez, M.A. Lasunción, and X. Correig 999

HEMOSTASIS AND THROMBOSIS

- Clinical Measurement of von Willebrand Factor by Fluorescence Correlation Spectroscopy** R. Torres, J.R. Genzen, and M.J. Levene 1010

MOLECULAR DIAGNOSTICS AND GENETICS

- Rapid Diagnosis of Aneuploidy by High-Resolution Melting Analysis of Segmental Duplications** Q. Guo, L. Xiao, and Y. Zhou 1019

- Digital PCR Analysis of Maternal Plasma for Noninvasive Detection of Sickle Cell Anemia** A.N. Barrett, T.C.R. McDonnell, K.C.A. Chan, and L.S. Chitty 1026

- Newborn Screening for Spinal Muscular Atrophy by Calibrated Short-Amplicon Melt Profiling** S.F. Dobrowolski, H.T. Pham, F.P. Downes, T.W. Prior, E.W. Naylor, and K.J. Swoboda 1033

PROTEOMICS AND PROTEIN MARKERS

- Troponin-Specific Autoantibody Interference in Different Cardiac Troponin I Assay Configurations** T. Savukoski, E. Engström, J. Engblom, N. Ristiniemi, S. Wittfooth, B. Lindahl, K.M. Eggers, P. Venge, and K. Pettersson 1040

- Release Kinetics of Cardiac Biomarkers in Patients Undergoing Transcatheter Ablation of Septal Hypertrophy** C. Liebetrau, H. Möllmann, H. Nef, S. Szardien, J. Rixe, C. Troidl, M. Willmer, J. Hoffmann, M. Weber, A. Rolf, and C. Hamm 1049

BRIEF COMMUNICATION

- Butyrylcholinesterase Activity Predicts Long-Term Survival in Patients with Coronary Artery Disease** G. Goliasch, A. Haschemi, R. Marculescu, G. Endler, G. Maurer, O. Wagner, K. Huber, C. Mannhalter, and A. Niessner 1055

continued

CITATION CLASSIC

- Homocysteine and the Risk of Dementia
S. Seshadri 1059

LETTERS TO THE EDITOR

- Plasma Kisspeptin: A Potential Biomarker of Tumor Metastasis in Patients with Ovarian Carcinoma
C.N. Jayasena, A.N. Comninos, A. Januszewski, H. Gabra, A. Taylor, R.A. Harvey, M.A. Ghatei, S.R. Bloom, and W.S. Dhillon 1061

- Survival of Patients after ST-Elevation Myocardial Infarction: External Validation of a Predictive Biomarker Model
M.A. Kampinga, P. Damman, I.C.C. van der Horst, P. Woudstra, W.J. Kuijt, M.W.N. Nijsten, F. Zijlstra, J.G.P. Tijssen, R.J. de Winter, and B.J.G.L. de Smet 1063

- The Impact of Analytical Sensitivity on Screening Algorithms for Syphilis
W. Zhang, B. Yen-Lieberman, C. Means, R. Kreller, J. Waletzky, and T.M. Daly 1065

CLINICAL CHEMIST

WHAT IS YOUR GUESS?

- Cookie Lover's Crash
J.M. Kelley, J. Watkins, and P. Jarolim 1067

NEWS & VIEWS

- Direct-to-Consumer Cardiac Screening Tests: User Beware
C.M. Lockwood 1068

-  A New Era of Genetic Testing and Its Impact on Research and Clinical Care
L.M. Baudhuin 1070

- Tackling Neglected Areas of Oncology with Provocative Questions
M.P. Estey 1071

UNVEILING THE RIGHT SIDE

- Interpretation of Man Ray's *Portrait of a Poet* in Pen and Ink
N. Rifai 1073

QUO VADIS?

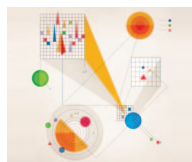
- Quo Vadis?* 1074

SCIENCE IN THE ARTS

- Translational Art: The Bauhaus
M.H. Dominiczak 1075

ACCENT®—CONTINUING EDUCATION CREDIT FOR READERS OF CLINICAL CHEMISTRY

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



ON THE COVER *Fig. 1-a*, by Chad Hagen. It has been estimated that the amount of data being generated worldwide doubles every 2 years. We selected this image because it is meant to reflect this explosion of data, which must be interpreted, categorized, stored, retrieved, and logically assembled billions of times each day. So how are medicine and science going to harness the available knowledge contained in all of these data for the betterment of patients? This issue of *Clinical Chemistry* contains an Opinion piece by Ramy Arnaout, who discusses the fascinating potential (and obstacles) of using IBM's Watson computer to help doctors diagnose and treat patients. Or maybe replace doctors? (See page 986.) ©Reproduced with permission. Chad Hagen, artist. Chad Hagen Art & Design, LLC.



Technology Corner and 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.

Microtube Device for Selectin-Mediated Capture of Viable Circulating Tumor Cells from Blood A.D. Hughes, J. Mattison, L.T. Western, J.D. Powderly, B.T. Greene, and M.R. King

<http://www.clinchem.org/content/58/5/846.full>

Inappropriate Requesting of Glycated Hemoglobin (Hb A_{1c}) Is Widespread: Assessment of Prevalence, Impact of National Guidance, and Practice-to-Practice Variability O.J. Driskell, D. Holland, F.W. Hanna, P.W. Jones, R.J. Pemberton, M. Tran, and A.A. Fryer

<http://www.clinchem.org/content/58/5/906.full>

Access the article by using the link above and by selecting Supplemental Data and 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!