### Clinical Chemistry Contents

**Volume 58, Number 2, Pages 319–482  FEBRUARY 2012**

#### EDITORIAL

**A Strong Start: Plasma Glial Fibrillary Acidic Protein and Stroke Differential Diagnosis** J.P. Mohr and J. Kejda-Scharler (see article on page 237, January 2012) 319

#### PERSPECTIVE

**Breaking the Bottleneck in the Protein Biomarker Pipeline** H.E. Witkowska, S.C. Hall, and S.J. Fisher 321

#### Q&A

**Newborn Screening for Metabolic Disorders: How Are We Doing, and Where Are We Going?**
Moderator: M.J. Bennett; Experts: P. Rinaldo, B. Wilcken, K.A. Pass, M.S. Watson, and R.J.A. Wanders 324

#### CLINICAL CASE STUDY


#### COMMENTARIES

**M.F. McMullin** 335

**A.M. Agarwal and R. Nussenzveig** 335

#### REVIEWS

**Fetal Laboratory Medicine: On the Frontier of Maternal–Fetal Medicine** S.M. Geaghan 337

**Searching for New Biomarkers of Renal Diseases through Proteomics** A. Konvalinka, J.W. Scholey, and E.P. Diamandis 353

#### ARTICLES

**CANCER DIAGNOSTICS**


**AUTOMATION AND ANALYTICAL TECHNIQUES**

**Aptamer Molecular Switch for Cascade Signal Amplification** C. Ma, C. Zhao, Y. Ge, and C. Shi 384

**GENERAL CLINICAL CHEMISTRY**


**Kinetic Modeling of Storage Effects on Biomarkers Related to B Vitamin Status and One-Carbon Metabolism** S. Hustad, S. Eussen, Ø. Midttun, A. Ulvik, P.M. van de Kant, L. Mørkrid, R. Gislefoss, and P.M. Ueland 402

**LIPIDS, LIPOPROTEINS, AND CARDIOVASCULAR RISK FACTORS**


**MOLECULAR DIAGNOSTICS AND GENETICS**


**PROTEOMICS AND PROTEIN MARKERS**

**Exhaled Endogenous Particles Contain Lung Proteins** A. Bredberg, J. Gobom, A.-C. Olin, and E. Mirgorodskaya 431


*continued*
ARTICLES, continued

EVIDENCE-BASED MEDICINE AND TEST UTILIZATION

Estimating Glomerular Filtration Rates by Use of Both Cystatin C and Standardized Serum Creatinine Avoids Ethnicity Coefficients in Asian Patients with Chronic Kidney Disease B.W. Teo, H. Xu, D. Wang, J. Li, A.K. Sinha, B. Shuter, S. Sethi, and E.J.C. Lee 450

Comparison of Serum Creatinine and Cystatin C for Early Diagnosis of Contrast-Induced Nephropathy after Coronary Angiography and Interventions F. Ribichini, G. Gambaro, M.S. Graziani, M. Pighi, G. Pesarini, P. Pasoli, M. Anselmi, V. Ferrero, T. Yabarek, A. Sorio, P. Rizzotti, A. Lupo, and C. Vassanelli 458

BRIEF COMMUNICATION


LETTERS TO THE EDITOR


In Reply J. Weber, D.J. Galas, and K. Wang 474

CORRECTION


CLINICAL CHEMIST

WHAT IS YOUR GUESS?

Sinusitis or Something Worse?
A.O. Fisher-Hubbard, T.M. Annesley, and J. Warren 477

UNVEILING THE RIGHT SIDE

Diary S. Cacciatorre 479

SCIENCE IN THE ARTS

American Old Master: The Art and Science of Thomas Eakins M.H. Dominiczak 480

ON THE COVER Fetus in utero, week 15. Testing for fetal health is not new to clinical laboratories. First trimester risk assessment, quad tests, and other biochemical screens are offered to pregnant women. However, fetal laboratory medicine offers many untapped opportunities for diagnostic testing. A comprehensive review article in this issue of Clinical Chemistry assesses the current scope and contributions of fetal laboratory testing. In addition, this issue also contains an article describing an improvement in quantifying male fetal DNA in maternal plasma via a Y-chromosome repetitive sequence assay. (See pages 337 and 465.) ©Science Picture Co/Science Faction/Corbis. Reproduced with permission.

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.

Rosuvastatin, Proprotein Convertase Subtilisin/Kexin Type 9 Concentrations, and LDL Cholesterol Response: the JUPITER Trial

http://www.clinchem.org/content/58/1/183.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!