



## EDITORIAL

- Point-of-Care Testing Quality: Some Positives but Also Some Negatives** S.C. Kazmierczak  
(see article on page 1267) 1219

## PERSPECTIVES

-  **I Detected My Cancer with My Smart Phone**  
M. Pavlou and E.P. Diamandis 1221
- Metabolic Profiling of Diabetes: From Black-Box Epidemiology to Systems Epidemiology** F.B. Hu 1224

## Q&A

-  **Clinical Applications for Vitamin D Assays: What Is Known and What Is Wished for**  
Moderator: M. Kleerekoper; Experts: R.L. Schleicher, J. Eisman, R. Bouillon, R.J. Singh, and M.F. Holick 1227

## CLINICAL CASE STUDY

- The Consequences of Valproate Overdose**  
A.S. Davison, A.M. Milan, and N.B. Roberts 1233

## COMMENTARIES

- J.H. Pincus 1237
- R.L. Bertholf 1238


## CLINICAL CHEMISTRY GUIDE TO SCIENTIFIC WRITING

- Passing the Paternité Test** T.M. Annesley 1239

## REVIEWS

- Circulating Tumor Cells in Breast Cancer: Detection Systems, Molecular Characterization, and Future Challenges** E.S. Lianidou and A. Markou 1242
- d-Dimer Testing in Laboratory Practice** A. Tripodi 1256

## OPINION

-  **Heritability, Weak Effects, and Rare Variants in Genomewide Association Studies** F. Cambien 1263


## ARTICLES

### POINT-OF-CARE TESTING

- Quality Error Rates in Point-of-Care Testing**  
M.J. O’Kane, P. McManus, N. McGowan, and P.L.M. Lynch (see editorial on page 1219) 1267

### ENDOCRINOLOGY AND METABOLISM

- ProBNP<sub>1–108</sub> Is Resistant to Degradation and Activates Guanylyl Cyclase-A with Reduced Potency**  
D.M. Dickey and L.R. Potter 1272

- Quantification of 1 $\alpha$ ,25-Dihydroxy Vitamin D by Immunoextraction and Liquid Chromatography–Tandem Mass Spectrometry** F.G. Strathmann, T.J. Laha, and A.N. Hoofnagle  1279

### AUTOMATION AND ANALYTICAL TECHNIQUES

- Simplified Newborn Screening Protocol for Lysosomal Storage Disorders** T.F. Metz, T.P. Mechtler, J.J. Orsini, M. Martin, B. Shushan, J.L. Herman, R. Ratschmann, C.B. Item, B. Streubel, K.R. Herkner, and D.C. Kasper 1286

- Direct Saliva Transcriptome Analysis** Y.-H. Lee, H. Zhou, J.K. Reiss, X. Yan, L. Zhang, D. Chia, and D.T.W. Wong 1295

### MOLECULAR DIAGNOSTICS AND GENETICS

- Snapback Primer Genotyping of the Gilbert Syndrome *UGT1A1* (TA)<sub>n</sub> Promoter Polymorphism by High-Resolution Melting** J.S. Farrar, R.A. Palais, and C.T. Wittwer 1303

### PROTEOMICS AND PROTEIN MARKERS

- Prognostic Utility of Secretory Phospholipase A<sub>2</sub> in Patients with Stable Coronary Artery Disease**  
M.L. O’Donoghue, Z. Mallat, D.A. Morrow, J. Benessiano, S. Sloan, T. Omland, S.D. Solomon, E. Braunwald, A. Tedgui, and M.S. Sabatine 1311

- Incremental Value of High-Sensitivity Cardiac Troponin T for Risk Prediction in Patients with Suspected Acute Myocardial Infarction**  
W. Hochholzer, T. Reichlin, R. Twerenbold, C. Stelzig, K. Hochholzer, J. Meissner, P. Haaf, N. Schaub, S. Steuer, S. Bassetti, M. Reiter, K. Roost, H. Freidank, K. Winkler, and C. Mueller 1318

continued

**BRIEF COMMUNICATION**

**N-Terminal Pro-Atrial Natriuretic Peptide Measurement in Plasma Suggests Covalent Modification** I. Hunter, U. Alehagen, U. Dahlström, J.F. Rehfeld, D.L. Crimmins, and J.P. Goetze 1327

**CITATION CLASSIC**

**Detecting a Bacterial Protein to Understand Cancer Risk** M.J. Blaser 1331

**LETTERS TO THE EDITOR**

**Point-of-Care Assays for Hemoglobin A<sub>1c</sub>: Is Performance Adequate?** R.R. Little, E. Lenters-Westra, C.L. Rohlfing, and R. Slingerland 1333

**Gross Overestimation of Total Allowable Error Based on Biological Variation** W.P. Oosterhuis 1334

**Using Nonfasting Lipids—Hemodilution or Convenience?** S.S. Lund and T. Jensen 1336

**In Reply** A. Langsted and B.G. Nordestgaard 1338

**CLINICAL CHEMIST**

**WHAT IS YOUR GUESS?**

**A 42-Year-Old Woman with Fever after a Trip to Africa** H. Delacour, C. Rapp, and A. Merens 1341

**NEWS & VIEWS**

**2010 *Clinical Chemistry* Impact Factor** 1342

***Clinical Chemistry*: 2011 APEX Award Winner** 1343

**Dennis Lo Receives High Honors: A Fellowship to the Royal Society** 1343

**UNVEILING THE RIGHT SIDE**

**Scene from Centennial Ridges** M. Diamandis Pasic 1344

**INTERNATIONAL YEAR OF CHEMISTRY 2011**

 **All Our Yesterdays** L.J. Kricka, E. Neren, and P. Wilding 1345

**Laboratory—Its Meaning in Science and Culture** M.H. Dominiczak 1346

**ACCENT®—CONTINUING EDUCATION CREDIT FOR READERS OF *CLINICAL CHEMISTRY***

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



**ON THE COVER** *Woman with Raised Arm*, by Diana Ong (b. 1940). This image reminds us of the importance of self-examination in the detection of breast cancer, the most common cancer in women. While the ability to detect and treat breast cancer is improving, estimating the risk for metastatic relapse or progression in patients with cancer is difficult to achieve. This issue of *Clinical Chemistry* contains a comprehensive review of circulating tumor cell analysis as a promising diagnostic field for aiding in the identification of therapeutic targets, as well as our understanding of the biology of metastatic development in patients with cancer. (See page 1242.) Reproduced with permission. ©Getty Images, SuperStock Collection. Artist, Diana Ong.



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.

**Oral Fluid Cannabinoids in Chronic, Daily Cannabis Smokers during Sustained, Monitored Abstinence** D. Lee, G. Milman, A.J. Barnes, R.S. Goodwin, J. Hirvonen, and M.A. Huestis

<http://www.clinchem.org/cgi/content/article/57/8/1127>

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! **Follow or friend us today for a chance to win an iPod nano™.**