

**EDITORIALS**

- Newborn Screening for Wilson Disease: Does Liquid Chromatography–Tandem Mass Spectrometry Provide the Solution?** W.A. Gahl (see article on page 1961) 1941
- What Kind of Stroke Is It?** M.D. Hill (see article on page 1969) 1943

**PERSPECTIVES**

- Genetic Variations in UDP-Glucuronosyl Transferase 2B17: Implications for Testosterone Excretion Profiling and Doping Control Programs** B. Starcevic and A.W. Butch 1945
- Molecular Genotyping in Transfusion Medicine** C.M. Westhoff and S.R. Sloan 1948

**SPECIAL REPORT**

- National Academy of Clinical Biochemistry Laboratory Medicine Practice Guidelines for Use of Tumor Markers in Testicular, Prostate, Colorectal, Breast, and Ovarian Cancers** C.M. Sturgeon, M.J. Duffy, U.-H. Stenman, H. Lilja, N. Brünner, D.W. Chan, R. Babaian, R.C. Bast, Jr., B. Dowell, F.J. Esteva, C. Haglund, N. Harbeck, D.F. Hayes, M. Holten-Andersen, G.G. Klee, R. Lamerz, L.H. Looijenga, R. Molina, H.J. Nielsen, H. Rittenhouse, A. Semjonow, I.-M. Shih, P. Sibley, G. Sölétormos, C. Stephan, L. Sokoll, B.R. Hoffman, and E.P. Diamandis e11

**REVIEW**

- Emerging Biomarkers for the Diagnosis and Prognosis of Prostate Cancer** G. Sardana, B. Dowell, and E.P. Diamandis 1951

**ARTICLES**

**PROTEOMICS AND PROTEIN MARKERS**

- Tryptic Peptide Analysis of Ceruloplasmin in Dried Blood Spots Using Liquid Chromatography–Tandem Mass Spectrometry: Application to Newborn Screening** A. deWilde, K. Sadilkova, M. Sadilek, V. Vasta, and S.H. Hahn (see editorial on page 1941) 1961

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

- Lack of Observed Association between High Plasma Osteoprotegerin Concentrations and Ischemic Stroke Risk in a Healthy Population** M. Nybo, S.P. Johnsen, C. Dethlefsen, K. Overvad, A. Tjønneland, J.O.L. Jørgensen, and L.M. Rasmussen (see editorial on page 1943) 1969

- Association of Lipoprotein-Associated Phospholipase A<sub>2</sub> Mass and Activity with Coronary and Aortic Atherosclerosis: Findings from the Dallas Heart Study** E.S. Brilakis, A. Khera, B. Saeed, S. Banerjee, D.K. McGuire, S.A. Murphy, and J.A. de Lemos 1975

**ANIMAL CLINICAL CHEMISTRY**

- Analytical Characteristics of Commercial Cardiac Troponin I and T Immunoassays in Serum from Rats, Dogs, and Monkeys with Induced Acute Myocardial Injury** F.S. Apple, M.M. Murakami, R. Ler, D. Walker, and M. York, for the HESI Technical Committee of Biomarkers Working Group on Cardiac Troponins 1982

**AUTOMATION AND ANALYTICAL TECHNIQUES**

- Simultaneous Measurement of Plasma Concentrations of Proinsulin and C-Peptide and Their Ratio with a Trefoil-Type Time-Resolved Fluorescence Immunoassay** P.E.M. De Pauw, I. Vermeulen, O.C. Ubani, I. Truyen, E.M.F. Vekens, F.T. van Genderen, J.W. De Grijse, D.G. Pipeleers, C. Van Schravendijk, and F.K. Gorus 1990

**CANCER DIAGNOSTICS**

- Clinical Impact of New Prostate-Specific Antigen WHO Standardization on Biopsy Rates and Cancer Detection** F.H. Jansen, M. Roobol, C.H. Bangma, and R.H.N. van Schaik 1999

- Performance of a Single Assay for Both Type III and Type VI *TMPRSS2:ERG* Fusions in Noninvasive Prediction of Prostate Biopsy Outcome** J.P. Clark, K.W. Munson, J.W. Gu, K. Lamparska-Kupsik, K.G. Chan, J.S. Yoshida, M.H. Kawachi, L.E. Crocitto, T.G. Wilson, Z. Feng, and S.S. Smith 2007

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**ARTICLES, continued**

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**DRUG MONITORING AND TOXICOLOGY**

- Meconium Nicotine and Metabolites by Liquid Chromatography–Tandem Mass Spectrometry: Differentiation of Passive and Nonexposure and Correlation with Neonatal Outcome Measures** T.R. Gray, R. Magri, D.M. Shakleya, and M.A. Huestis 2018

**GENERAL CLINICAL CHEMISTRY**

- Quantification of Methylmalonic Acid in Human Plasma with Hydrophilic Interaction Liquid Chromatography Separation and Mass Spectrometric Detection** H.-Å. Lakso, P. Appelblad, and J. Schneede 2028

**HEMATOLOGY**

- Newborn Screening for Sickle Cell Disease Using Tandem Mass Spectrometry** F. Boemer, O. Ketelslegers, J.-M. Minon, V. Bours, and R. Schoos 2036

**HEMOSTASIS AND THROMBOSIS**

- Prediction of Recurrent Venous Thromboembolism by Endogenous Thrombin Potential and D-Dimer** S. Eichinger, G. Hron, M. Kollars, and P.A. Kyrle 2042

**LABORATORY MANAGEMENT**

- Assessing the Impact of the Frequency of Quality Control Testing on the Quality of Reported Patient Results** C.A. Parvin 2049

**BRIEF COMMUNICATIONS**

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- High-Resolution Melting Curve Analysis of Genomic and Whole-Genome Amplified DNA** M.H. Cho, D. Ciulla, B.J. Klanderma, B.A. Raby, and E.K. Silverman 2055

- Automated Measurement of 25-OH Vitamin D<sub>3</sub> on the Roche Modular E170 Analyzer** A. Leino, U. Turpeinen, and P. Koskinen 2059

- Seminal Oligouridinosis: Low Uridine Secretion as a Biomarker for Infertility in Spinal Neurotrauma** A.D. Maher, P. Patki, J.C. Lindon, E.J. Want, E. Holmes, M. Craggs, and J.K. Nicholson 2063

- Tandem Mass Spectrometry for the Direct Assay of Lysosomal Enzymes in Dried Blood Spots: Application to Screening Newborns for Mucopolysaccharidosis I** S. Blanchard, M. Sadilek, C.R. Scott, F. Turecek, and M.H. Gelb 2067

**CLINICAL CASE STUDY**

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- Hemolytic Anemia Following Attempted Suicide** N.L. Korpi-Steiner, J.B. Hoyne, J.D. Hoyer, and A.K. Saenger 2071

**COMMENTARIES**

- E. Beutler 2074  
I.D. Watson 2075

**CITATION CLASSIC**

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- Liquid-Chromatographic Determination of Cyclosporin A in Blood and Plasma** R.J. Sawchuk 2076

**LETTERS TO THE EDITOR**

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- Time-Dependent Instability of Cardiac Troponins in Human Plasma Spiked with NIST Reference Material 2921** C.M. Cobbaert, C.W. Weykamp, E.C.H.J. Michielsen, H. Baadenhuijsen, and M.P. van Diejen-Visser 2078

- Galactosemia Screening by Simultaneous Blood Spot Quantification of Galactose and Galactose 1-Phosphate** J.-S. Jeong, H.-J. Kwon, Y.-M. Lee, H.-R. Yoon, and S.-P. Hong 2080

- Interlaboratory Variation in 25-Hydroxyvitamin D<sub>2</sub> and 25-Hydroxyvitamin D<sub>3</sub> Is Significantly Improved If Common Calibration Material Is Used** A.M. Yates, A. Bowron, L. Calton, J. Heynes, H. Field, S. Rainbow, and B. Keevil 2082

- Potential Interference by Antineutrophil Cytoplasmic Autoantibodies in Myeloperoxidase Immunoassays** S.A. Datwyler, S.C. Hsu, M.S. Matias, D.P. Pacenti, and J. Shih 2084

- Concerns Regarding Lipoprotein Particle Measurement by Ion Mobility Analysis** J.D. Otvos, L.L. Rudel, and J.P. McConnell 2086

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## LETTERS TO THE EDITOR, *continued*

**Protein Microarrays: Before the Elephant Got in the Room** J. Gordon 2087

**In Reply** M.P. Caulfield, S. Li, G. Lee, P.A. Blanche, W.A. Salameh, W.H. Benner, R.E. Reitz, and R.M. Krauss 2088

## BOOKSHELF

**Markers in Cardiology: A Case-Oriented Approach.** Jesse E. Adams, Fred S. Apple, and Allan S. Jaffe, Editors. J. Ravkilde 2090

## CLINICAL CHEMIST

**The Death of Napoleon, Cancer or Arsenic?** J.T. Hindmarsh and J. Savory 2092

**Who Says Learning Toxicology Can't Be Fun?** 2094

## INVITED REVIEWERS 2008 2095

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**ON THE COVER** Dr. Roussell of Geneva shown here giving a woman a direct blood transfusion from a volunteer, 1882. With the many advances in modern medicine, it is easy to forget how transfusion medicine was performed prior to 1900. When Land-

steiner published his Nobel Prize winning work on the major ABO blood groups in 1901, it became possible to cross match donors and recipients, thus greatly reducing transfusion reactions. Since that time surface antigen systems such as Rh, Lutheran, Kell, Lewis, Duffy, and Kidd have been described. Antibody-based methods traditionally have been the primary approach to blood group testing. However, with the availability of genotyping technologies, Westhoff and Sloan describe in this issue of *Clinical Chemistry* how transfusion medicine is poised to benefit from the PCR revolution (see page 1948). Reprinted with permission © The Print Collector/Heritage-Images/Imagestate.

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