

EDITORIAL

- Humanized Animal Models to Study Drug Metabolism: No Longer a “Chimera”?** F. Botrè (see article on page 1783) 1763

CLINICAL CASE STUDY

- Unexpected Urine Drug Testing Results in a Hospice Patient on High-Dose Morphine Therapy** G.M. Reisfield, C.W. Chronister, B.A. Goldberger, and R.L. Bertholf 1765

COMMENTARIES

- L.A. Broussard 1768
D. Gourlay and H.A. Heit 1769

REVIEW

- Pharmacogenomics of Tamoxifen Therapy** H. Brauch, T.E. Mürdter, M. Eichelbaum, and M. Schwab 1770

ARTICLES

ENDOCRINOLOGY AND METABOLISM

- uPA^{+/+}-SCID Mouse with Humanized Liver as a Model for In Vivo Metabolism of Exogenous Steroids: Methandienone as a Case Study** L. Lootens, P. Meuleman, O.J. Pozo, P. Van Eenoo, G. Leroux-Roels, and F.T. Delbeke (see editorial on page 1763) 1783

- Circulating Concentrations of Follistatin-Like 1 in Healthy Individuals and Patients with Acute Coronary Syndrome as Assessed by an Immunoluminometric Sandwich Assay** C. Widera, R. Horn-Wichmann, T. Kempf, K. Bethmann, B. Fiedler, S. Sharma, R. Lichtinghagen, H. Leitolf, B. Ivandic, H.A. Katus, E. Giannitsis, and K.C. Wollert 1794

PROTEOMICS AND PROTEIN MARKERS

- Development of an Immunoassay for the Quantification of Soluble LR11, a Circulating Marker of Atherosclerosis** M. Matsuo, H. Ebinuma, I. Fukamachi, M. Jiang, H. Bujo, and Y. Saito 1801

- Short- and Long-Term Risk Stratification Using a Next-Generation, High-Sensitivity Research Cardiac Troponin I (hs-cTnI) Assay in an Emergency Department Chest Pain Population** P.A. Kavsak, X. Wang, D.T. Ko, A.R. MacRae, and A.S. Jaffe 1809

MOLECULAR DIAGNOSTICS AND GENETICS

- Design and Optimization of Reverse-Transcription Quantitative PCR Experiments** A. Tichopad, R. Kitchen, I. Riedmaier, C. Becker, A. Ståhlberg, and M. Kubista 1816

AUTOMATION AND ANALYTICAL TECHNIQUES

- Measurement of Ribosomal RNA Turnover In Vivo by Use of Deuterium-Labeled Glucose** J. Defoiche, Y. Zhang, L. Lagneaux, R. Pettengell, A. Hegedus, L. Willems, and D.C. Macallan 1824

CANCER DIAGNOSTICS

- Increased Tissue Factor Expression Is Associated with Reduced Survival in Non-Small Cell Lung Cancer and with Mutations of *TP53* and *PTEN*** S. Regina, J.-B. Valentin, S. Lachot, E. Lemarié, J. Rollin, and Y. Gruel 1834

CLINICAL IMMUNOLOGY

- New ELISA for B Cell-Activating Factor** L. Le Pottier, B. Bendaoud, Y. Renaudineau, P. Youinou, J.-O. Pers, and C. Daridon 1843

GENERAL CLINICAL CHEMISTRY

- Methylation Status and Neurodegenerative Markers in Parkinson Disease** R. Obeid, A. Schadt, U. Dillmann, P. Kostopoulos, K. Fassbender, and W. Herrmann 1852

HEMOSTASIS AND THROMBOSIS

- Interactive Modeling for Ongoing Utility of Pharmacogenetic Diagnostic Testing: Application for Warfarin Therapy** M.W. Linder, M. Bon Homme, K.K. Reynolds, B.F. Gage, C. Eby, N. Silvestrov, and R. Valdes, Jr. 1861

continued

ARTICLES, *continued*

PEDIATRIC CLINICAL CHEMISTRY

- Pediatric Brain Natriuretic Peptide Concentrations Vary with Age and Sex and Appear to Be Modulated by Testosterone** A.K. Saenger, D.A. Dalenberg, S.C. Bryant, S.K. Grebe, and A.S. Jaffe 1869

BRIEF COMMUNICATION

- Proficiency Testing of Hb A_{1c}: A 4-Year Experience in Taiwan and the Asian Pacific Region** S.-C. Shiesh, H.-M. Wiedmeyer, J.-T. Kao, S.D. Vasikaran, J.B. Lopez, and the Laboratory Management Committee for the Asian-Pacific Federation of Clinical Biochemistry 1876

CITATION CLASSIC

- Simple and Reliable Measurement of Nitric Oxide Metabolites in Plasma** H. Moshage 1881

LETTERS TO THE EDITOR

- Nonylphenol Ethoxylate Plastic Additives Inhibit Mitochondrial Respiratory Chain Complex I** C. Belaiche, A. Holt, and A. Saada 1883
- False-Negative Results from Point-of-Care Qualitative Human Chorionic Gonadotropin (hCG) Devices Caused by Excess hCG β Core Fragment Vary with Device Lot Number** A.M. Gronowski, M. Powers, U.H. Stenman, L. Ashby, and M.G. Scott 1885
- Use of Likelihood Ratios Can Improve the Clinical Usefulness of Enzyme Immunoassays for the Diagnosis of Small-Vessel Vasculitis** P. Vermeersch, D. Blockmans, and X. Bossuyt 1886
- Increased Plasma Lipoprotein(a) Found in Large-Artery Atherosclerotic, but Not Small-Artery Occlusive, Stroke** G.T. Jones, M. Deng, G.D. Hammond-Tookey, S.P.A. McCormick, and A.M. van Rij 1888

OAK RIDGE CONFERENCE

- Oak Ridge Conference Poster Abstracts 1891

CLINICAL CHEMIST

- Lily Robinson and an Assassin's Tracks 1892
- Kudos to Chad Mirkin 1894
- What Is Your Guess?**
The Case of a Bow Legged Toddler
A.D. Tatsas and A. Woodworth 1895
- Unveiling the Right Side**
The Special Sticky Hemoglobin
U. Anand 1896

ACCENT®—CONTINUING EDUCATION CREDIT FOR READERS OF CLINICAL CHEMISTRY

For more information go to
<http://apps.aacc.org/ccj/accent>



ON THE COVER The James Parkinson Tulip. In 1980, J.W.S. Van der Wereld, a Dutch horticulturalist, developed a cardinal red and white feather edged tulip that received both the Award of Merit from the Royal Horticultural Society in London and the Trial Garden Award from the Royal General Bulb Growers of Holland. Van der Wereld, who was afflicted with Parkinson disease, named his prize cultivar for Dr. James Parkinson, an English doctor who in 1817 first described the condition in *An Essay on the Shaking Palsy*. The tulip was introduced on April 11, 2005 at the ninth World Parkinson's Disease Day Conference in Luxembourg as the worldwide symbol of this disease. This issue of *Clinical Chemistry* contains a study of the relationship of methylation status and neurodegenerative markers in Parkinson disease, in which better cognitive function in patients was related to a higher methylation potential and a higher plasma vitamin B₆. (See page 1852.) ©Reproduced with permission by artist, Barbara Bagan.

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