EDITORIALS

Performance Requirements for Glucose Assays in Intensive Care Units  J.C. Boyd and D.E. Bruns (see articles on pages 1500 and 1510)  1463

Measuring LDL Cholesterol: for Old and New Calculations, Is There an Optimal Formula?  E.A. Stein (see article on page 1519)  1466

Platelet Function Assays—Not All Are Created Equal  W.L. Chandler (see article on page 1524)  1469

PERSPECTIVE

Breaking the Therapeutic Drug Monitoring Logistics Barrier  M.C. Milone and L.M. Shaw  1471

Q&A


LIPIDS, LIPOPROTEINS, AND CARDIOVASCULAR RISK FACTORS


HEMOSTASIS AND THROMBOSIS

Precision and Reliability of 5 Platelet Function Tests in Healthy Volunteers and Donors on Daily Antiplatelet Agent Therapy  B.S. Karon, N.V. Tolan, C.D. Koch, A.M. Wockenfus, R.S. Miller, R.K. Lingineni, R.K. Pruthi, D. Chen, and A.S. Jaffe (see editorial on page 1469)  1524

PEDIATRIC CLINICAL CHEMISTRY


MOLECULAR DIAGNOSTICS AND GENETICS

G-Protein Receptor Kinase 4 Polymorphism and Response to Antihypertensive Therapy  A.M. Muskalla, P.M. Suter, M. Saur, A. Nowak, M. Hersberger, and P.-A. Krayenbuehl  1543


LETTERS TO THE EDITOR

Is This a Critical, Panic, Alarm, Urgent, or Markedly Abnormal Result?  G.H. White, C.A. Campbell, and A.R. Horvath  1569

continued
## LETTERS TO THE EDITOR, continued

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Variation of Hemoglobin A$_1c$: Consequences for Diagnosing Diabetes Mellitus</td>
<td>E. Lentes-Westra, T. Røraas, R.K. Schindhelm, R.J. Slingerland, and S. Sandberg</td>
<td>1570</td>
</tr>
<tr>
<td>Carcinoembryonic Antigen Monitoring to Detect Recurrence of Colorectal Cancer: How Should We Interpret the Test Results?</td>
<td>B. Shinkins, B.D. Nicholson, T.J. James, J.N. Primrose, and D. Mant</td>
<td>1572</td>
</tr>
<tr>
<td>Assessment of the 99th or 97.5th Percentile for Cardiac Troponin I in a Healthy Pediatric Cohort</td>
<td>P.A. Kavsak, A. Rezanpour, Y. Chen, and K. Adeli</td>
<td>1574</td>
</tr>
<tr>
<td>Improved Performance of Point-of-Care and Over-the-Counter Qualitative Human Chorionic Gonadotropin Measurement Devices</td>
<td>R.D. Nerenz and A.M. Gronowski</td>
<td>1576</td>
</tr>
<tr>
<td>Evaluation of the CLINITEST® Human Chorionic Gonadotropin (hCG) Pregnancy Test for Susceptibility to the Hook Effect by the hCG β Core Fragment</td>
<td>D.J. Ledden, A.K. Novamo, and L.S. Schulman</td>
<td>1578</td>
</tr>
<tr>
<td>In Reply</td>
<td>R.D. Nerenz and A.M. Gronowski</td>
<td>1580</td>
</tr>
</tbody>
</table>

## THE BEST OF CLINICAL CHEMISTRY

The Top 5 Most Cited Articles on Molecular Diagnostics 1592

## TECHNOLOGY CORNER

Finding Waldo: The Emerging Field of Circulating Tumor Cells | V.S. Kumar and M. Webster 1593

## SCIENCE IN THE ARTS

Clinician Teachers: Formulating an Intellectual Framework for Modern Medical Education | M.H. Dominiczak 1596

## ONLINE CONTENT

### JOURNAL CLUB

Selected articles made freely available, including helpful slides and key points for discussion in your Journal Club. The article link below provides free access to both the article and Journal Club content.

Association of 1,5-Anhydroglucitol with Diabetes and Microvascular Conditions
E. Selvin, A.M. Rawlings, M. Grams, R. Klein, M. Steffes, and J. Coresh
www.clinchem.org/content/60/11/1409.full

### WHAT IS YOUR GUESS?

Multiple Cerebrospinal Fluid Bands with Accompanying Serum Bands | Y. Chen 1582
A Lipemic Sample? | J.A. Hayden and G. Baird 1584

### NEWS & VIEWS

Predictive Testing and Alzheimer Disease | N.E. Heger 1585
Diagnostics in the Front Line against Infectious Disease | R.W.A. Peake 1586
Clinical Chemistry’s 2015 Special Issue: Molecular Diagnostics—A Revolution in Progress | 1588
Clinical Chemistry’s Invited Reviewers 2014 | 1588
“Reaching Out to the World” Appreciation | 1590

---

continued
ON THE COVER  Rat. Imagine the next time you visit a clinic and your physician enters the room accompanied by a rat, dog, or a box containing honeybees and fruit flies. Is this really that far-fetched? Perhaps not. The olfactory senses of animals are proving to be as accurate in diagnosing diseases as are current screening tests performed in clinical laboratories. This issue of Clinical Chemistry contains a Q&A article in which experts from the field of olfactory detection of disease discuss the successes of this research field, pitfalls to avoid in the future, and future applications such as the “electronic nose.” (See page 1473.) ©Reproduced with permission from istockphoto. Contributor: wildcat78.

Technology Corner, podcasts, and color figures for Reviews sponsored by Department of Laboratory Medicine, Boston Children’s Hospital.


Individual articles may be selected to be a part of the Fast Track Program. Articles receive an expedited review, decision, and, if accepted, online publication.