New BD™ P100 Blood Collection System
Setting the Standard in Plasma Proteomics

BD™ P100 enables greater recovery and preservation of plasma proteins:

On-board stabilizers provide immediate protection, and an innovative mechanical separator* minimizes cellular contamination.

Ideal for clinical research, drug discovery, and diagnostic assay development.

* Patented

For Research Use Only - Not for Use in Diagnostic Procedures

BD, BD Logo, and all other trademarks are the property of Becton, Dickinson and Company. ©2006 BD
Information for Authors

Clinical Chemistry is published by the American Association for Clinical Chemistry (AACC). The journal welcomes contributions of original information, experimental or theoretical, that advance the science of clinical chemistry. Submissions should adhere to the “Uniform Requirements for Manuscripts Submitted to Biomedical Journals” (N Engl J Med 1991;324:424–8).

Manuscript Review. Manuscripts are evaluated by anonymous peer reviewers. Authors are usually notified of the disposition of a manuscript within three to four weeks of its receipt. Equal consideration is given to manuscripts in English from any country, whether or not the author is a member of the AACC.

Copyright. Manuscripts are considered with the understanding that each author has participated in the work and assumes responsibility for the content; that the authors have disclosed any potential conflicts of interest; that the same information has not been and will not be submitted for concurrent review, nor published elsewhere (other than as an abstract, preliminary report, or poster cited in the manuscript); that unique materials necessary to reproduce the results are available to readers; and that if the manuscript is accepted, copyright will be transferred to the publisher. To convey these assurances, all authors must sign the copyright form (available on the AACC web site at http://www.clinchem.org/info_ar/info_a_outline.shtml).

Unpublished Work. When citing unpublished work or opinions of others, provide a permission letter from them.

Manuscript Preparation. Text: Most common word-processing software formats are accepted; Microsoft Word is preferred. Use 12-point font, 1-inch margins, and double spacing throughout. Do not use headers or footers, but do number the pages, starting with the title page as page 1. For guidance on manuscript preparation and style, consult our Information for Authors at http://www.clinchem.org/info_ar/info_a_outline.shtml.

Images: The acceptable image file formats for print publication are TIFF (tagged image file format) and EPS (encapsulated postscript) both at 600 dpi resolution. The figures must be submitted as independent files, not embedded within a word processing document. Microsoft PowerPoint (PPT) files are also acceptable, but each file must have embedded fonts and only one image per slide, one slide per file. Verify that symbols and lettering will be legible when reduced to publication size. Figures should be redesigned or recreated if they do not appear sharp and clear on paper. Authors are advised to use our online Digital Expert evaluation tool to test print figures before submitting them.

The author will be required to bear the full cost of the preparation and publication of color illustrations, invited contributions excepted. The charge for the first color figure is $1500. Subsequent color figures or parts of figures are $500 each.

Tables: Tables should be created in a common word-processing format. Spreadsheet-generated or embedded image tables should be recreated in the word-processing document and included with the text of the manuscript.


The complete Information for Authors is available at http://www.clinchem.org/info_ar/info_a_outline.shtml.

Clinical Chemistry (ISSN 0009-9147) is published monthly by the American Association for Clinical Chemistry, 1850 K Street, NW, Suite 625, Washington, DC 20006.

© 2009 The American Association for Clinical Chemistry

www.clinchem.org

AACC Officers
Barbara M. Goldsmith, President
Catherine A. Hammett-Stabler, President-Elect
Larry A. Broussard, Past-President
Anthony W. Butch, Secretary
Ann Gronowski, Treasurer

AACC Board of Directors
David Bruns
Elizabeth L. Frank
Daniel H. Farkas
Greg Miller
Robert Murray
Gary L. Myer

The National Academy of Clinical Biochemistry is the Academy of AACC.
The following information is meant to be a guide for submission to Clinical Chemistry. It is for reference purposes only. Please see the Information for Authors webpage for more detailed instruction; http://www.clinchem.org/info_ar/info_a_outline.shtml

Note: Manuscripts will be returned that do not adhere to the Journal’s instructions for authors.

<table>
<thead>
<tr>
<th>Type of Submission</th>
<th>Word Limit</th>
<th>Structured (S) or Unstructured (U) Abstract: Word Limit</th>
<th>Maximum Number of References</th>
<th>Total Number of Tables/Figures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article</td>
<td>3,500 S: 250</td>
<td>40</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Bookshelf</td>
<td>500 Non Applicable</td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Brief Communication</td>
<td>1,500 S: 250</td>
<td>20</td>
<td>1 each</td>
<td></td>
</tr>
<tr>
<td>Citation Classics</td>
<td>700 Non Applicable</td>
<td>6</td>
<td>Non Applicable</td>
<td></td>
</tr>
<tr>
<td>Clinical Case Studies (Case description) w/ 3-5 questions</td>
<td>1,500 S: 100</td>
<td>10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Clinical Case Study Commentary</td>
<td>300 Non Applicable</td>
<td>Non Applicable</td>
<td>Non Applicable</td>
<td>Non Applicable</td>
</tr>
<tr>
<td>Editorial</td>
<td>1,500 Non Applicable</td>
<td>15</td>
<td>Non Applicable</td>
<td></td>
</tr>
<tr>
<td>Inspiring Minds</td>
<td>650 Non Applicable</td>
<td>Non Applicable</td>
<td>Non Applicable</td>
<td>Non Applicable</td>
</tr>
<tr>
<td>Letters to the Editor / Reply</td>
<td>750 Non Applicable</td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Mini-Review Article</td>
<td>3,500 S: 250</td>
<td>40</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Obituary</td>
<td>600 Non Applicable</td>
<td>Non Applicable</td>
<td>Non Applicable</td>
<td>1</td>
</tr>
<tr>
<td>Opinion</td>
<td>1,500 U: 200</td>
<td>15</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Perspective</td>
<td>1,500 Non Applicable</td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Point/Counterpoint</td>
<td>1,000 U: 200</td>
<td>10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Review Article</td>
<td>5,000 S: 250</td>
<td>75</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Special Report</td>
<td>3,500 S or U: 250</td>
<td>40</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Manuscript Formatting**
- Double-spaced text, 1 inch margin, twelve-point font size in Arial, Helvetica or Times New Roman
- Numbered pages
- Title page listing title, authors (first name, middle initial, last name), each author’s affiliation during the study, corresponding author’s contact information, running title, keywords, list of any previous presentation of manuscript and any disclaimers
- Number references sequentially in main text
- Reference list formatted according to Information for Authors
- Accuracy of journal abbreviations in the reference list checked against the National Center for Biotechnology Information database (http://www.ncbi.nlm.nih.gov/entrez/linkout/journals/journalists.cgi)
- SI Units used throughout manuscript according to Information for Authors

**Metadata (to be entered online)**
- A valid and unique e-mail for each author
- Authors’ current institutions, address, telephone and fax
- Forms to be completed online
  - Author Disclosure Forms
  - Author Contribution Forms
- Have available the number of references, tables, figures, and supplemental data files
- Clinical Chemistry manuscript number of any companion papers (if applicable)

**Compliance with Guidelines**
- A STARD checklist is required for all studies or trials of the diagnostic accuracy or performance of a diagnostic test, a CONSORT diagram is required for all randomized and Phase III trials, a MIAME checklist is required for all studies that present data for microarray experiments.
- All studies involving human subjects must indicate that they are in compliance with the Declaration of Helsinki ethical principles for medical research involving human subjects.
  - A statement must be included in the text that Institutional Review Board approval was obtained and written informed consent obtained from study subjects.

**Permissions**
- Copyright forms to be supplied by each author upon acceptance prior to publication
- Written permission from the copyright holder is required to reproduce any copyrighted material
CALL FOR PAPERS

Proteomics: Advances in Protein Analysis for the Clinical Laboratory

Clinical Chemistry is pleased to announce a special upcoming theme issue on Proteomics edited by Drs. Leigh Anderson, Steven Carr, and Glen Hortin entitled, Proteomics: Advances in Protein Analysis for the Clinical Laboratory. Clinical Chemistry, published by the American Association for Clinical Chemistry, is the most widely cited forum for peer-reviewed, original research in the fields of Clinical Chemistry and Laboratory Medicine.

The purpose of this issue is to highlight recent technological advances and potential new clinical applications of diagnostic evaluation of proteins. Advances in mass spectrometry and analytical separations of proteins offer new capabilities in the qualitative and quantitative analysis of proteins and the discovery of new markers for disease. Microarrays and nanotechnology offer opportunities for multiplex analysis and enhanced detection sensitivity.

Clinical Chemistry invites authors to submit original articles related to proteomics to be considered for publication in this special issue. Manuscripts are most likely to be favorably received if they address clinical use or late-stage validation of new technologies or markers. Studies generally should identify the components under analysis and provide information expected for any test applied to clinical use regarding preanalytical factors, calibration, precision, limits of detection and linearity, reference intervals, methods for quality assurance, and interpretation of results as described in Instructions for Authors and in Clinical Chemistry 2005;51:3-5.

Potential topics of interest include:

- Preanalytical variables in protein analysis
- Clinical application of mass spectrometric analyses of proteins and peptides
- Multiplex immunoassay and immunomics
- Clinical validation of new protein or peptide markers for disease
- Quality control of multivariate assays
- Standardization and calibration of proteomic analyses

Be a part of this exciting issue!

Submissions must be received through our online submission system at http://submit.clinchem.org no later than August 1, 2009. Your cover letter should express your interest in submitting your paper for consideration for the proteomics theme issue. Journal guidelines for submission apply as described at the submission website in Information for Authors.
Differentiated LC/MS workflow solutions.

The Thermo Scientific LC/MS product line sets new standards for accuracy, efficiency, and reliability.

Our benchtop solutions increase throughput, reduce costs, and serve as the foundation of a sustainable analytical platform today and into the future.

With the sensitivity and specificity to identify an expanding universe of substances, we can tailor a solution to meet your most rigorous testing requirements, whether your focus is clinical research or forensic toxicology.

Learn more about our differentiated LC/MS workflow solutions with our Free Resources Kit at www.thermo.com/clintox.

Tel: 1-800-532-4752  •  Email: analyze@thermo.com

The Thermo Scientific Transcend system powered by Thermo Scientific TurboFlow technology
Reduce sample prep up to 90% while increasing mass spec efficiency up to 4 times

Moving science forward

Part of Thermo Fisher Scientific
Personalized Medicine in Oncology and the Management of Chemotherapeutics

September 23-24, 2009
Sheraton Baltimore City Center, Baltimore, Maryland

Designed by the AACC Therapeutic Drug Monitoring and Toxicology Division, in cooperation with the American Society of Clinical Oncology®, this meeting reviews current approaches to personalized medicine in oncology, and discusses new and promising developments in this area. In addition to case-based discussions from experts, participants will hear regulatory and payer perspectives on personalized medicine.

Why you should attend this conference

Created with physicians, clinicians, and health care researchers in the field of oncology in mind, this meeting discusses the role of therapeutic drug monitoring and pharmacogenomics in management of chemotherapy as well as the current obstacles for implementation of personalized medicine in oncology. It also identifies opportunities for utilization of laboratory support in optimization of chemotherapeutic regimens and addresses the need for multidisciplinary support (laboratorian, clinician, pharmacist) to achieve personalized medicine in oncology.

Five conference sessions:
- 5-Fluorouracil and Capecitabine
- Tyrosine Kinase Inhibitors and CML
- Therapeutic Antibodies in Cancer Treatment
- Adjuvant Chemotherapy in Breast Cancer
- EGFR Inhibitors

Each session discusses case studies, current treatment paradigms, and how to improve tools for personalized medicine.

ASC® is a registered trademark of the American Society of Clinical Oncology®. Used with permission. This is not an ASC® sponsored event.

For online registration, visit www.aacc.org/events/meetings
Clinical Analyzers that provide Time savings, Cost savings and increase your test Menu

The FXimola™ and FXdaytona™ are fully automated clinical chemistry analyzers with a wide test menu, high throughput, integrated ISE units, an easy to use interface, low consumables and many labor saving features such as primary cup sampling, bar-coded reagents, auto start-up, over 500 pre-programmed tests...

The FXmonza™ is a semi-automated clinical analyzer offering all the benefits of the RX series on a smaller scale.

THE TEST MENU INCLUDES:
- Routine clinical chemistry
- Trace metals
- Lipids
- Veterinary parameters
- Enzymes
- Food and wine testing
- Therapeutic drugs
- Open channel methods
- Special chemistry
- New tests, for example sLDL for improved cardiovascular risk assessment
- Proteins
- Antioxidants

A comprehensive range of high-quality controls and calibrators complement the range of analytes. A peer group QC scheme, 247, offers a great tool for extended internal Quality Control with daily updates. RIQAS, an international EQA scheme, can present you with a perfect means of assurance.

Randox Laboratories Ltd, 4065 Oceanside Blvd, Suite Q, Oceanside, CA 92056
T: +1 760-639-1500 F: +1 760-639-1509 e: marketing@randox.com www.randox.com
Laboratory Automation: Integrating Quality with Efficiency
Shangri-La Hotel, Kuala Lumpur, Malaysia
October 22-23, 2009

The third edition of this information packed meeting is where you will find everything you need to know to keep your lab automation projects on the road to success.

The previous conferences, which took place in Singapore, attracted more than 200 people from over 25 different countries. Attend and know why.

Leading experts will share key challenges and pitfalls of automation and present practical solutions that you can apply to your projects. Areas covered include system selection, implementation, optimization, pre-analytical concerns, improved specimen id, open systems and much more.

Best of all, you will have access to all of the leading automation vendors in one place. Through industry workshops you will hear from fellow laboratorys how they were able to successfully improve laboratory operations by implementing automation technologies.

Attend this information rich conference and make the most of your education investment.

This program is offered under the auspices of the IFCC.

Sponsored by
American Association for Clinical Chemistry (AACC), Asian and Pacific Federation of Clinical Chemistry (APFCB) and the Malaysian Association of Clinical Biochemistry (MACB).

Supported by
Abbott, Beckman Coulter, Siemens Healthcare Solutions, Sysmex Asia Pacific Pte Ltd and Techno Medica Co., Ltd.

If you would like to be a supporter and offer workshops or other activities during the conference, or if you would like more information about this opportunity, please contact Jean Rhame at jrhame@aacc.org
AACC, ACB, AMP and DSKB Present

Molecular Pathology Essentials: Diagnosis and Targeted Therapy

October 1-2, 2009
Scandic Copenhagen Hotel
Copenhagen, Denmark

This course will feature presentations on the essential knowledge and current practice of clinical molecular pathology, with an emphasis on diagnosis and targeted therapy.

Those who “must attend” this program include laboratory medicine doctors, clinical chemists, clinical pathologists, anatomic pathologists, geneticists, industry professionals, and others who seek a better understanding of molecular testing methods and their clinical applications.

The Scandic Copenhagen Hotel is conveniently located to several of Copenhagen’s main attractions, including Tivoli Gardens, the old port of Nyhavn, and the Little Mermaid statue. The Copenhagen Airport is just 10.0 kilometers (approx, 6 miles) from the hotel.

Program Schedule*
Thursday, October 1:
- Genetic Principles
- Genetic Testing
- Genetics of complex diseases
- Pharmacogenetics
- Laboratory management and regulatory issues

Friday, October 2:
- Molecular pathology of cancers
- Lymphoid and myeloid neoplasms
- Markers for targeted therapy
- Circulating tumor cells and nucleic acids
- Future trends in molecular diagnostics

*Program is subject to change

This program is being presented by:
The American Association for Clinical Chemistry (AACC)
The Association for Clinical Biochemistry (ACB)
The Association for Molecular Pathology (AMP)
The Danish Society for Clinical Biochemistry (DSKB)

For additional information or to register, visit www.aacc.org/events/meetings/
or call the AACC Customer Service Department at 1-800-892-1400 or 202-857-0717
Applying Evidence-Based Laboratory Medicine: A Step-by-Step Guide

Christopher P. Price, Joanne Lozar Glenn, and Robert H. Christenson

Published 2009, 270 pages, softcover, ISBN 9781594250897, Product #5175
Price only $70; AACC Member $58

This workbook offers a step-by-step guide to applying the principles of evidence-based laboratory medicine (EBLM) in routine practice.

The term “evidence-based” is increasingly becoming part of the language in the practice of clinical medicine, and in laboratory medicine. In laboratory medicine, it is also becoming clear that the “evidence” differs somewhat from that on which the specialty was founded. The foundation of laboratory medicine is an understanding of the molecular mechanisms that describe the pathology of disease, but in applying this knowledge to patient care, the emphasis moves from understanding disease mechanisms to improving health outcomes.

By applying EBLM to daily practice, laboratory professionals can
• Ensure appropriate use of tests at the requesting, decision-making, and application phases.
• Make the business case for implementing new diagnostic tools and strategies that meet clinical needs.
• Become full members of the clinical team and take an important role in implementing change.

The key is understanding the question being asked—and then applying the EBLM A5 Cycle: Ask, Acquire, Appraise, Apply, Assess.

This workbook walks readers through this process by providing a wide range of case studies that illustrate applications of EBLM in routine laboratory practice. Readers are then encouraged to record their own examples, consider how they might be addressed using the principles of EBLM, formulate research questions, and then follow those questions to their evidence-based solutions.

Throughout the text, sidebars and exercises offer additional helpful information and highlight key concepts. Whether used alone or with colleagues, this workbook provides the knowledge and practice that will give readers confidence that they are indeed learning how to apply the best available scientific evidence to diagnostic challenges, and in the process, playing a central role in patient care.

www.aacc.org
**DNA from A to Z & Back Again**

Carol A. Holland and Daniel H. Farkas

Published 2008, 191 pages, softcover, ISBN 9781594250880, Product #5104
Price only $30; AACC Member $24

**DNA from A to Z & Back Again** is a romp through the past, present, and future of molecular diagnostics, personalized medicine, and genomics. This book’s broad appeal is a jumping-off point for anyone who wants to learn more about genetics. “Google” any term inside and you’ll get thousands of hits. This book will serve as a guide and foundation for your search and help you understand what you uncover on the Web; what you need to know about your own health; what you need to explain to your loved ones. After all, it’s your DNA, your health, your most personal questions you’re seeking to investigate—why not have a solid foundational understanding of the terminology?

Buy this book if you are
- A medical school student…or a high school student
- A Wall Street biotech analyst…or a diagnostics company sales rep
- A patient trying to figure out where to start…or a healthy individual who wants to stay that way—you’ll particularly appreciate the point/counterpoint on Direct-to-Consumer Genetic Testing
- A hospital administrator interested in what’s going on in the DNA lab…or trying to identify sources of new revenue opportunities
- A Congressional aide seeking a handle on the hottest new area of healthcare…or an insurance executive seeking clarification on new and seemingly expensive healthcare solutions.

We’re all interested in DNA on one level or another—because we’re all interested in our health. So read this book. We guarantee that you or someone you know will find it useful.

www.aacc.org
Need some additional continuing education credit to meet your professional licensure requirements? (ACCENT® or CME)
You can do this by reading designated articles in Clinical Chemistry.
For more information, go to www.aacc.org/ccj/accent/

Clinical Chemistry
Reprints
Authors may order reprints of their articles by contacting Cadmus Journal Services, 1-800-407-9190 or 410-819-3967
For commercial reprints, to increase your marketing visibility, contact Heather Edwards, 1-800-257-5529 x6214 or 410-691-6214 or email: edwardsh@cadmus.com

AACC Mailing Lists
AACC Mailing Lists Are Available For:
• Access To Members
• Access To Subscriber
• Access To Meeting Attendees
AACC Mailing Lists Provide:
• An Accurate Listing of Decision Makers in the Clinical Laboratory Field
• Current and Important Information That’s Essential to Your Marketing Efforts

Call or Fax:
American Association for Clinical Chemistry, Inc.
1850 K Street, Suite 625 • Washington, DC 20006
1-800-892-1400 • 202-657-0717 • Fax 202-887-5093

Advertising Representatives
Scherago International, Inc.
Director: HERBERT L. BURKLUND
Traffic Manager: QIEN PORTER
Advertising Sales Manager: JACK RYAN
Marketing Manager: STEVEN HAMBURGER
ADVERTISING CORRESPONDENCE: 525 Washington Blvd.
Suite 3310
Jersey City, NJ 07310
Tel (201) 653-4777
Fax (201) 653-5705

ADVERTISER PAGE NO.
Applied Biosystems Inc. Cover 2
BD 2A
Immundiagnostik AG Cover 4
Randox Laboratories 11A
Thermo Scientific 9A
Now available from AACC Press!

Self-Assessment in Clinical Chemistry Science II

Edited by Alan H.B. Wu

Published 2008,
381 pages, spiral binding,
ISBN 9781594250873,
Product #5106
Price only $69; AACC Member $55

Incredibly, we have seen the first wave of retirement of the “baby boomer” generation of clinical chemists and laboratory scientists, with more to follow. This has created renewed employment opportunities in academia and clinical laboratories for our graduate students and postdoctoral fellows. Self-Assessment in Clinical Laboratory Science II was written as a supplement to Self-Assessment in Clinical Laboratory Science, Third Edition, to assist the next generation in passing certification examinations such as those offered in clinical chemistry, toxicology chemistry, and molecular diagnostics by the American Board of Clinical Chemistry.

Although it has been eight years since the publication of the third edition of Self-Assessment in Clinical Laboratory Science, the content remains relevant. This new volume includes entirely new questions, written by 47 authors who are experts in their respective fields, and as with previous editions of Self-Assessment in Clinical Laboratory Science, the scope of topics has expanded to include new sections and subsections on coagulation, infectious disease serology, molecular virology, evidence-based medicine, analysis of body fluids, fertility and pregnancy, allergy, and hemoglobinopathies.

Whether you are a student or practicing clinical scientist, this book will assist you in determining the gaps in knowledge that you may have, so that you can better study for certification examinations and remain current in this rapidly changing field.

HOW TO ORDER

ONLINE: http://www.aacc.org and click on the AACC Store button

CALL:
(800) 892-1400 or (202) 857-0717

FAX:
(202) 887-5093

MAIL:
AACC Customer Service
1850 K Street, NW, Suite 625
Washington, DC 20006

www.aacc.org
Handbook of Workplace Drug Testing, 2nd Edition

Edited by Jeri Ropero-Miller and Bruce Goldberger

Published 2008, 506 pages, softcover, ISBN 9781594250903, Product #5176
Price only $89; AACC Member $71

The Second Edition of Handbook of Workplace Drug Testing builds on the knowledge included in the first edition and offers considerable updates and enhancements. It remains a valuable resource for understanding the complexity of the science, law, and interpretation of workplace drug testing. The information that has been compiled in the second edition was obtained through extensive laboratory study and literature surveys. As leaders in their fields, the authors provide a historical perspective of workplace drug testing and an understanding of analytical procedures and theory, drug class overviews, adulteration and specimen validity testing, alternative matrices, quality assurance and quality control, result interpretation for medical review officers, and laboratory accreditation.

This book is a “must have” for all workplace drug testing laboratories and practitioners in forensic toxicology, clinical toxicology, and clinical chemistry. A complete subject index is included for easy referencing of topics.

HOW TO ORDER

ONLINE: http://www.aacc.org and click on the AACC Store button

CALL: (800) 892-1400 or (202) 857-0717

FAX: (202) 887-5093

MAIL: AACC Customer Service 1850 K Street, NW, Suite 625 Washington, DC 20006
Handbook of
Diagnostic Endocrinology
2nd Edition

Edited by William E. Winter,
Lori J. Sokoll, and Ishwarlal Jialal
Published 2008,
447 pages, softcover,
ISBN 9781594250866,
Product #5105
Price only $89; AACC Member $71

The clinical laboratory plays a critical role in the diagnosis and management of endocrine and related metabolic disorders, which are leading causes of morbidity and mortality in children and adults. This eagerly awaited second edition of the Handbook of Diagnostic Endocrinology provides a ready reference for the evaluation, diagnosis, and monitoring of such disorders.

The book is written specifically for clinical chemists, chemical pathologists, endocrinologists, and senior medical technologists to aid them in the investigation of endocrine and metabolic disorders. In addition to covering the most common disorders such as diabetes, thyroid dysfunction, dyslipidemia, and metabolic bone disease, the book also addresses the less common conditions such as endocrine disorders of the gastrointestinal tract, disorders of the adrenal and pituitary glands, malignancy-associated endocrine disorders, and reproductive endocrinology. In this updated edition, the laboratory evaluations of AIDS endocrinopathies, endocrine hypertension, the metabolic syndrome and obesity, and short stature in children are also introduced.

Based on an understanding of normal physiology, each chapter focuses on the biochemical tests that are required, either in the basal state or following provocations or suppression, to assist in the diagnosis of the various disorders. Proper sample collection is also described, and relevant interpretations of laboratory tests are provided.
Accelerate Your Time to Results

Get high-quality results in weeks, not months.

Applied Biosystems/MDS Analytical Technologies LC/MS/MS Starter Packs for Clinical Research combine industry-leading mass spectrometry with easy-to-use Cliquid® Software, a portfolio of preconfigured and downloadable iMethod™ Tests from our iMethod™ Store, and a worldwide network of service and training professionals. Whether you need a cost-effective solution for investigating high-throughput therapeutic drug monitoring, the utmost in accuracy and sensitivity to study panels of steroids, or the speed and versatility to identify and quantitate hundreds of targeted drugs simultaneously, our Clinical Research Starter Packs are easy to implement and quick to deliver results. There simply isn’t an easier way to adopt LC/MS/MS for routine clinical research.

Eliminate the need for method development with downloadable iMethod™ Tests for:

- Immunosuppressants
- Mycophenolic acid
- Vitamin D
- Inborn errors of metabolism
- Amino acid analysis
- Benzodiazepines

Accelerate your lab at info.appliedbiosystems.com/accelerate
Keep up with the latest trends and advances in the profession. Meet with and learn from colleagues and peers from around the world. Stay current on continuing changes in the health care environment — changes that directly affect you.

See new science and new technology in all areas of clinical diagnostics, automation, information systems, point-of-care, OEM, and biotech at the largest Clinical Lab Exposition in the world.

The complete scientific program as well as a list of exhibitors for the 2009 AACC and CSCC Annual Meetings and Clinical Lab Expo will be available online in April, 2009 at www.aacc.org/2009am.
Vitamin D ELISA

Correlation par Excellence

25-OH Vitamin D direct ELISA

Assay with excellent correlation to LC-MS/MS

- Ready for automation
- Hands-on-Time: 45 minutes
- Ready-to-use reagents
- Excellent sensitivity
- Excellent recovery