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The purpose of this issue is to highlight recent advances in diagnosis and therapy of cancer and will include diverse themes such as cancer genomics, proteomics, chemoprevention, early diagnosis, biomarker discovery and validation, drug resistance, cancer stem cells, cancer epigenetics, antiangiogenic therapies, mechanisms of cancer metastasis, and the tumor microenvironment.

Potential topics of interest include:

- Discovery and validation on novel biomarkers for early diagnosis, prognosis, and monitoring of cancer therapies
- Role of cancer genomics, proteomics, and epigenetics in personalized medicine
- Mechanisms of cancer metastasis and the tumor microenvironment
- Cancer chemoprevention
- Drug resistance and how it can be overcome
- The cancer stem cell hypothesis and its application to diagnostics and therapeutics
- Cancer subclassification by using genomics, proteomics, metabolomics, and other omics
- Novel approaches for therapeutics, diagnosis and monitoring, such as circulating cancer cells, and circulating free DNA and micro-RNAs

Clinical Chemistry invites authors to submit original articles for this Special Issue on Cancer at http://submit.clinchem.org by July 1, 2012.

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You can be a part of this highly regarded conference by submitting an abstract for the poster session. Last year, the conference attracted more than 60 abstracts. The organizing committee selects the most novel abstracts for brief oral presentations.

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- Addition of reference intervals for steroids, free thyroxine, and free triiodothyronine measured by tandem mass spectrometry; and
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Authors: Berndt Zur¹, Bernd Mayer-Hubner², Michael Ludwig¹ and Birgit Stoffel-Wagner¹
¹Department of Clinical Chemistry and Clinical Pharmacology, University of Bonn, Bonn, Germany
²Medical Practice for Internal Medicine, Hausham, Germany

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Edited by Dennis J. Dietzen, Michael J. Bennett, and Edward C. C. Wong

2010, 660 pages, softcover
ISBN 978-1-59425-100-9, Product # 6114
Price only $124; AACC Member $99

For many years Biochemical Basis of Pediatric Disease, 3rd Edition, edited by Drs. Soldin, Rifai, and Hicks, has served as the critical standard for pediatric clinical laboratory medicine. This new edition, retitled Biochemical and Molecular Basis of Pediatric Disease, 4th Edition, continues the previous edition’s strong focus on understanding the pathogenesis of pediatric disease, emphasizing not only the important role of the clinical laboratory in defining parameters that change with the disease process, but also the molecular basis of many pediatric diseases.

Biochemical and Molecular Basis of Pediatric Disease, 4th Edition, includes new chapters in the areas of neonatology, iron metabolism, coagulation, endocrinology, and allergy. All other chapters have been extensively updated, covering nearly all aspects of pediatric disease and the many advances that have been made in recent years. Fifty-two pediatric academic faculty, all nationally known for their pediatric clinical and laboratory expertise, have contributed to this new edition, designed not only for trainees in pediatrics and laboratory medicine, but also for well-established practitioners who wish to keep up with advances in the field and those who would like to better understand the unique aspects of pediatric disease and the clinical laboratory.

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University of California-Santa Cruz

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Bradley Stone
San José State University

Integrated Device for Molecular Detection of Pathogens
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Integration of Automated Biosensor Systems for Point-of-Use
Francis S. Ligler
The Center for Bio/Molecular Science and Engineering Naval Research Laboratory, Washington, D.C.

A highly regard expert in biosensors and microfluidics, Dr. Ligler has published extensively and hold numerous patents. She is currently the Navy’s Senior Scientist for Biosensors and Biomaterials and the current Chair of the Bioengineering Section of the National Academy of Engineering. In her keynote address, Dr. Ligler will present her unique and lively perspective of optical biosensor technology as it applies to homeland security and clinical diagnostics.

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- **CARDIAC DISEASE 3-PACK**—January, February and March webinars cover topics related to the use of high-sensitivity troponin I, new heart failure biomarkers, and markers of inflammation.

- **DIABETES/GLUCOSE CONTROL 3-PACK**—April, May and June programs address using Hba1c for diabetes diagnosis, glucose in tight glycemic control and lab testing for gestational diabetes.

- **KIDNEY DISEASE/AKI 3-PACK**—July, August and September webinars examine biomarkers for GFR, urinary albumin, and laboratory test strategies for diagnosing acute kidney injury (AKI).

- **THYROID DISEASE 3-PACK**—October, November and December programs focus on evaluating immunoassays and mass spec platforms for thyroid testing, thyroid testing in pregnancy, and the lab’s role in diagnosing and managing thyroid cancer.

View the complete series of High-Value Test webinars at www.aacc.org>Events>Conference and Event Calendar.

*Each of the 12 programs is approved by AACC for 1.0 Category 1 ACCENT credit hour.*
Molecular Pathology: Principles in Clinical Practice

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Chicago Marriott O’Hare

Register today for this highly engaging course which will focus on current practices in molecular pathology testing, with an emphasis on technologies, clinical applications, and case-based examples.

Designed at the intermediate to advanced level, this course is intended for professionals who are presently working in or have prior experience and/or education in the field of molecular pathology testing.

Target Audience:
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Body Fluid Testing in the Clinical Laboratory: 
Providing High Quality Service & Maintaining Regulatory Compliance

Wednesday, February 8, 2012  ~  2:00-3:30 pm Eastern U.S. Time

Body fluid analysis has very unique and complicated challenges. Samples can come into the lab from a wide variety of sources and the analytical process is often not standardized to the sample source and matrix. To further complicate the issue the clinical utility of the test requests are often uncertain.

This program will answer all of your questions about body fluid analysis, particularly focusing on non-standard sources of body fluid. Experts will review the first step in body fluid analysis - understanding why the test was ordered, as well as its clinical utility and significance. Practical approaches to performing body fluid testing will be shared so that you can be confident that results are validated, despite the non-standard specimen source.

You will know:

- The pathogenesis of fluid accumulation and the clinical significance of testing chemistry analytes in non-standard body fluids
- How to identify the potential barriers and regulatory requirements for non-standard body fluid testing
- Strategies to validate body fluid testing and maintain regulatory compliance

The Experts:

David Grenache, PhD, MT, (Moderator), Associate Professor of Pathology, University of Utah; Medical Director, Special Chemistry, ARUP Laboratories, Salt Lake City, UT

Deanna Franke, PhD, Clinical Scientist, Core Laboratory and Toxicology, Pathology Consultants of South Broward, LLP, Memorial Healthcare System, Hollywood, FL

Darci Block, PhD, Co-Director, Central Clinical Laboratory and Central Processing, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN

Target Audience: This program is designed for laboratory administrators, directors and managers; pathologists; and anyone facing the challenges of body fluid analysis.

This program is approved by AACC for 1.5 Category 1 ACCENT credit hours.

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Critical Issues in Alcohol and Drugs of Abuse Testing

Edited by Amitava Dasgupta

2009, 319 pages, softcover
ISBN 9781594250934
Product # 5629
Price only $90; AACC Member $75

Critical Issues in Alcohol and Drugs of Abuse Testing addresses problems encountered in workplace alcohol and drug testing and how to resolve such problems. People try to pass drug tests by using a variety of urinary adulterants, and this book reviews, in detail, how to catch these cheaters. Ingestion of certain prescription medications or poppy seed-containing food, however, may also cause positive results in drug testing. Two chapters are devoted to reviewing true analytical positive results in drugs of abuse testing. In addition, drug testing using alternative specimens such as hair, saliva, and sweat is also addressed. Additional chapters review the following:

- Pharmacogenomics of alcohol abuse
- Pharmacogenomics of drugs of abuse
- Abuse of magic mushrooms, peyote cactus, khat, and volatiles
- Sports drug testing

Critical Issues in Alcohol and Drugs of Abuse Testing will be helpful to toxicologists, medical review officers, pathologists, and medical technologists as a quick handbook and reference book to address problems encountered in alcohol and drugs of abuse testing.

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