

The Official Publication of the AACC Annual Scientific Meeting & Clinical Lab Expo

Better Outcomes for Young Women Surviving Cancer

By Sarah Wheeler, PhD, NRCC

Reproductive health is not the same as sex ed,” Teresa K. Woodruff, PhD, from the Feinberg School of Medicine, Northwestern University, reminded us in yesterday’s plenary session, “Oncofertility: From Bench to Bedside to

Babies.” The war on cancer has been hard fought, with more young women than ever now surviving cancer but being faced with the possibility of infertility.

We often think of fertility management as an elective treatment for those with the means to seek it, rather than understanding the health risks associated with loss of this

important endocrine function. Infertility sometimes leads to premature menopause, which is associated with many long-term health risks including premature death, cardiovascular disease, osteoporosis, neurologic disease, and other disorders. Estrogen treatment doesn’t completely mitigate these outcomes. Children with damaged ovaries that don’t allow for a normal pubertal transition face compounded risks.

Woodruff reminded the audience that clinical research is integral to improving fertility management for cancer survivors. Emerging assays provide more options for young women to manage their fertility after cancer treatment. For example, a blot-spot assay for anti-Mullerian hormone (AMH) enables patients to send in a blood spot from home to assess their ovarian reserve, facilitating an estimate of the reserve of growing follicles each month. This knowledge enables physicians and patients to make timely, educated decisions about fertility options that can include embryo or egg banking, surrogacy, and ovarian cryopreservation.

Beyond assessing fertility status, Woodruff’s laboratory is working to provide solutions for endocrine and fertility

loss in cancer survivors. With a complete understanding of what makes a healthy egg and microenvironment, and how somatic cells and oocytes communicate, the aim of these efforts is to better inform testing, treatment, and functional restoration—and Woodruff and her colleagues are closer to doing so than we might have imagined. She described an in vitro microfluidic system that produced a 28-day menstrual cycle hormone profile in murine ovarian follicles. This technology, named EVATAR, mimics the complex endocrine loops between ovary, fallopian tube, uterus, cervix, and liver by circulating fluidics between each of these tissues. This phenocopy of the female reproductive system provides an accessible system for evaluating the effects of certain treatments on the reproductive system at a personal level.

The introduction of the EVATAR is also opening a new era in reproductive health research where microfluidics carry signals between organs, bring fresh nutrients, and remove metabolic waste products. This seemingly small difference allows researchers to study cycling hormones and

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Teresa Woodruff delivers the plenary session “Oncofertility: From Bench to Bedside to Babies.”

Is Laboratory Medicine Ready for Artificial Intelligence?

By Adil Khan, PhD

Some say that the invention of the abacus more than 2,500 years ago was the first step on the long road to artificial intelligence (AI). The reason why this simple calculator made of beads and wires is often called the precursor to the modern computer is because the principle—performing repeated calculations faster than the human brain—is the same. Now scientists are harnessing the speed of modern computers and programming them with cognitive algorithms and sophisticated decision trees to help solve complex medical problems. This rapidly advancing science was the focus yesterday

of the Chair’s Invited Session, “Is Artificial Intelligence in Genomics Ready for Prime Time?”

Stanley Lo, PhD, chair of the 2017 AACC Annual Meeting Organizing Committee, said he selected the topic because “AI can be considered disruptive technology that significantly changes how we perform laboratory medicine.”

The first of three distinguished speakers, Michael Berger, PhD, examined the use of the MSK-IMPACT (Integrated Mutation Profiling of Actionable Cancer Targets) assay to look for mutations in some 468 cancer genes. Gene mutations associated with a particular cancer can sometimes be found in other cancers

too, sometimes making it amenable to the same treatment. Berger’s team takes DNA samples from the tumor and the patient’s blood to help differentiate between germline and somatic mutations and identify the genes causing the cancer. Their technique can more easily identify clinically relevant gene mutations and also pinpoint the pathways affected by the altered gene(s). This targeted gene therapy can potentially cure the cancer and opens up exciting possibilities.

Next, Patrick McNeillie, MD, clinical lead and senior architect of IBM’s Watson Health project, discussed how advanced clinical diagnostics algorithms can allow computers to relate diverse clinical

literature with patient data to generate an “outcome report.” To achieve this, AI systems need to “see” unstructured data, such as radiologic images, graphs, slide

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Expert Advice on Picking the Correct Genetic Test

By Angela Ferguson, PhD, DABCC, FACB

The amount of information gathered via next-generation sequencing has made the diagnosis of genetic disorders quicker and more accessible to clinicians than ever before, but with expanded testing options come questions about ordering the correct type of testing. Each patient's particular clinical situation is really the most important driver when deciding which type of genetic testing to order, according to experts who spoke during Monday's morning symposium, "Is Bigger Always Better? Pros and Cons of Targeted vs. Comprehensive Genetic Testing."

Linnea Baudhuin, PhD, and Carol Saunders, PhD, led an interactive session that sought to take some of the guesswork out of ordering complex genetic tests by outlining the pros and cons of ordering gene panels, whole-exome, and whole-genome testing. The speakers queried session attendees about the types of genetic testing offered at their institutions and quizzed them on which test should be ordered after learning details of several case studies.

"People should realize that there are benefits to both whole-genome and targeted analyses, and it comes down to ordering the appropriate test in the

appropriate clinical setting," Baudhuin said. There are many differences between the two types of tests that people are unaware of, she continued. In reality, whole-exome and whole-genome testing really are more like screening tests, due to limits of sensitivity—a fact not well understood outside clinical laboratories. However, in cases where a patient has a very non-specific phenotype, this type of testing makes more sense, she explained.

Another common misconception about this type of analysis is that it tests for "everything." The truth is, current technologies miss a lot in the genome. "Hopefully most people realize by now that there are poorly covered or under-represented regions," Saunders said. "As with any test, it's important to realize the limitations."

In spite of these constraints, the information clinicians gain can be very impactful. Saunders discussed several studies that emphasized the utility of rapid whole-genome sequencing. Almost half of the patients in each study had a change in clinical care based on the sequencing results and a similar number of patients received a final diagnosis that had not been considered by the clinical team initially.

Educating clinicians is a key element in effectively utilizing genetic testing. Both speakers also emphasized the importance of genetic counselors in this

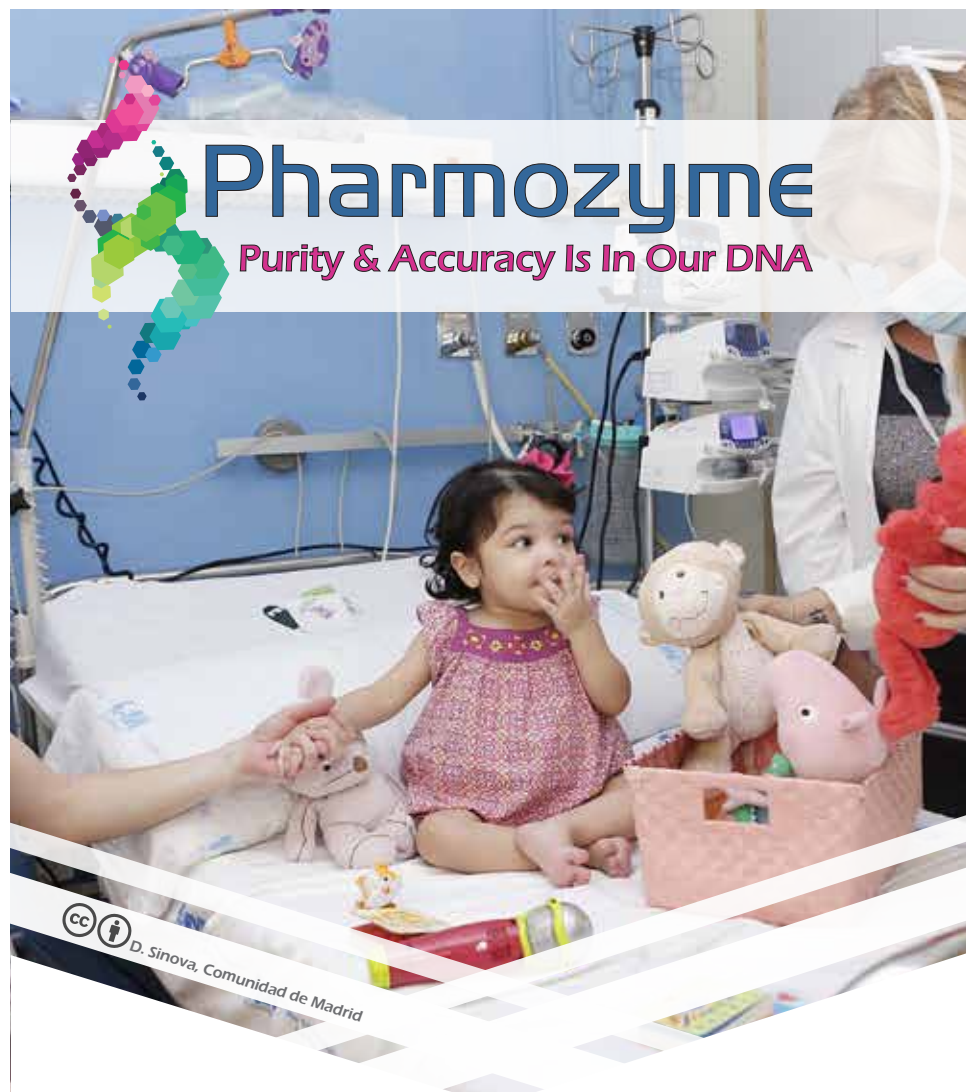


Speakers Carol Saunders (left) and Linnea Baudhuin prepare to present during "Pros and Cons of Targeted vs Comprehensive Genetic Testing."

process. These key players serve as the face of the laboratory, gather additional clinical information about patients, and guide ordering of correct tests or offer alternatives when appropriate. The need for clinician education does not stop once the correct test is ordered. Any type of genetic testing still needs to be interpreted correctly, a challenge that laboratories handle differently. The variant interpretation process is the main bottleneck of the testing process and also factors into the variable quality of results from different laboratories. Clinicians often don't understand these factors, presenting still more

opportunities for genetic testing results to be misinterpreted.

Analytics aside, whole-genome sequencing is more expensive to perform than targeted panels and whole-exome sequencing, with low reimbursement. In spite of this, in cases where the sequencing results are able to give a family an answer and halt a diagnostic odyssey, the cost savings could equal years of testing and treatments. "Whole-genome sequencing is an effective, albeit expensive, tool; until sequencing costs decrease, whole-exome sequencing is a good bet for most situations," suggested Saunders.



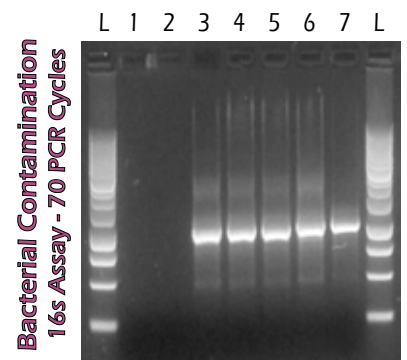
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Order This, Not That

By Allison Chambliss, PhD, DABCC

Ambiguity about healthcare reform saturates the news media and is creating a buzz in hospitals. In an age of great expectations for patient satisfaction on top of decreasing reimbursement for laboratory tests, clinical laboratories are forced to cut costs while maintaining overall quality. Some facilities have responded by launching laboratory stewardship programs that seek to ensure appropriate lab test utilization through evidence-based approaches. By eliminating redundant or unnecessary test orders, such programs have the potential to both save money and improve patient care.

Julia Drees, PhD, recognizes that laboratory stewardship programs can be challenging to develop and uphold. In Sunday's AACC University session, "Systems, Stakeholders, and Sustaining: Successful Strategies for Improving Laboratory Stewardship," Drees shared her own experiences from implementing test utilization tools at her regional reference laboratory at Kaiser Permanente. Examples included successful efforts to curb unnecessary vitamin D screening in healthy patients as well as the implementation of a testosterone testing algorithm to ensure that the correct type of testosterone test was ordered depending on patient demographics and the clinical scenario.

Having provided these examples, Drees cautioned that each lab must customize its strategy. "The type of lab and the population it serves, among other variables, dictate which strategies will work best," Drees said. She introduced Patrick Mathias, MD, PhD to provide his perspective from a large academic hospital. Mathias has a background in clinical informatics and spoke about effective tools that labs can build within electronic ordering systems to manage test utilization. Noting that outdated provider order sets can be major drivers of unnecessary ordering patterns, he demonstrated how the revision of combined hepatitis testing panels at the University of Washington proved to be an effective way to decrease redundancy in hepatitis A orders. Additionally, Mathias discussed the value of providing feedback to providers about their lab ordering patterns via "report cards." Such report cards may trend the number of tests ordered per inpatient per day for various locations of the hospital to give providers an idea of how their ordering patterns stack up against those of the other hospital services.

The final speaker, Jane Dickerson, PhD, offered her expertise from a laboratory in a children's hospital. Dickerson discussed a highly-successful program she implemented at Seattle Children's Hospital for high-level laboratory review of complex tests requests. She noted that as many

as one-third of genetic send-out tests, in particular, may be inappropriate. Initiatives within her laboratory have included implementing an electronic ordering and tracking system for preauthorization requests for genetic testing as well as case review by expert genetic counselors. Through real clinical case studies, Dickerson illustrated how such laboratory-driven systems can prevent unnecessary orders, provide modifications

to semi-appropriate orders, and even elicit a high degree of clinician satisfaction.

Attendees left the session feeling empowered with a better understanding of how test utilization is a critical responsibility of clinical laboratorians. With the variety of perspectives provided at the session, all attendees are likely to identify strategies to help optimize test utilization in their own institutions.

Data-Mining, Machine Learning, and the Holy Grail of Clinically Actionable Information

By Mark Kellogg, PhD, DABCC, FACB, MT (ASCP)

Clinical laboratories are teaming with data, but transforming that data into information usable by clinicians has been a difficult endeavor. In tomorrow's afternoon short course, "Enhancing the Diagnostic Value of Clinical Laboratory Testing using Data Mining, Machine Learning, Informatics and Clinical Decision Support," attendees will hear success stories from four experts in computational pathology on how they have harnessed data into clinically actionable information.

Clinical laboratories have traditionally focused largely on robust data production, often going to painstaking lengths to ensure accurate test results. However, this leaves the equally important step of transforming this data into clinically actionable information to manual decision-making processes downstream from the laboratory. Now, an ever-growing group of pathologists and laboratorians argue that this traditional approach may fail to extract key diagnostic information.

"In this era in which machine learning and big-data analytics have permeated industries ranging from manufacturing and drug discovery to weather forecasting and computer vision, it is quite likely that computational approaches can add considerable value to laboratory diagnosis as well," explains Jason Baron, MD, a pathologist and computational pathology researcher who will speak at the session. "One goal of computational pathology is to increasingly integrate these computational approaches into the clinical laboratory to augment traditional laboratory test reports with predictive and prescriptive information."

Leaders from Massachusetts General Hospital, Medical College of Wisconsin, University of Washington, and the University of Michigan will describe opportunities to incorporate machine learning into clinical laboratory practice, discussing fundamentals of clinical analytics as well as practical considerations such as regulation and machine learning's important limitations.

The course moderator, Jason Baron, MD, will lead off by providing an overview of machine learning and key targets for computational pathology. He will describe efforts from his personal experience at Massachusetts General Hospital, including to identify acute kidney injury using a machine learning algorithm. He also will describe an algorithm to detect preanalytical errors associated with improper usage of line draws, and another to predict ferritin test results that he hopes may facilitate iron deficiency diagnosis.

Baron will be followed by Lee Schroeder, MD, PhD. Schroeder's talk will look at processes to mine electronic health records to derive new knowledge. Schroeder will share examples such as an effort to use analytics to derive better personalized reference ranges. He will also discuss a multi-analyte assay with algorithmic analysis that uses routine laboratory test results to monitor the response to treatment with thiopurine analogs in patients with inflammatory bowel disease.

Decision support and image analysis in anatomic pathology will be the focus of Christopher Garcia, MD. Garcia will discuss applications of analytics to anatomic pathology including automated image analysis. He will also cover regulatory considerations related to predictive algorithms.

Wrapping up the short course will be Brian Shirts PhD, who will explore the use of clinical decision support in genomics and molecular pathology. Shirts will include several cautionary tales designed to illustrate pitfalls and the importance of proper validation, as well as end-user strategies for the critical assessment of clinical algorithms.

Clinical laboratorians sit at a key interface between data and reporting. Taking this information and making it easy for clinicians to do the right thing and difficult to do the wrong thing is the driving motivation of these speakers. "We want to convey some practical knowledge that participants can take home and use right away along with some ideas and insights about evolving opportunities," Baron says. "Perhaps we can even get some laboratorians newly interested in computational pathology."



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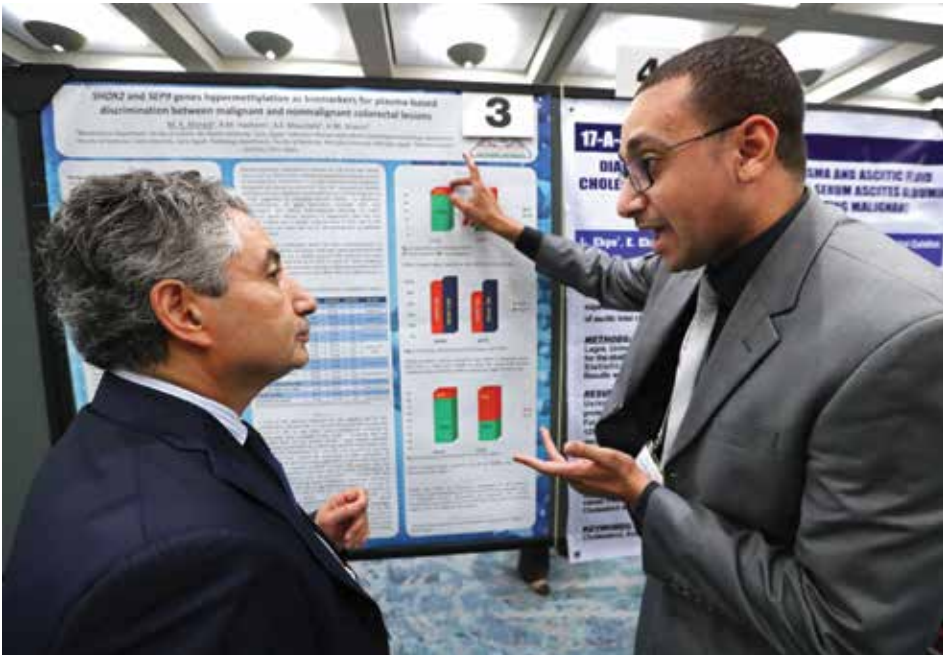


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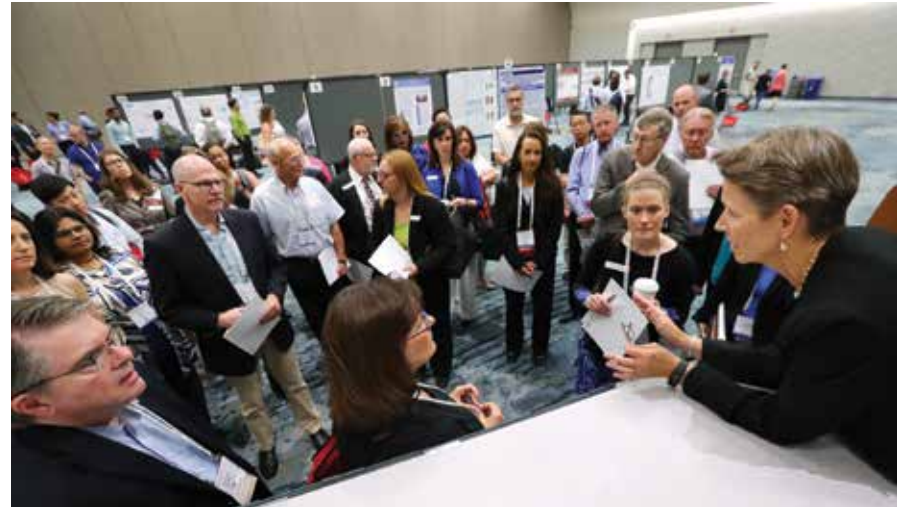
AACC President Michael Bennett presents 2016 AACC President Patricia Jones with the AACC traditional red jacket.



Moustafa Kamel Hassan Abozeid (right) discusses his findings with judge Khosrow Adeli during the student poster contest.



AACC Academy Fellows James Wesenberg (from left) and Kent Dooley visit with Chris Perigard during the AACC Community Opening Mixer.



Contest moderator Ann Gronowski confers with the judges as they prepare to meet with their student poster presenters.

AACC Student Poster Contest Winners

Oral Presentations

- 1st Place: Lusia Sepiashvili
- 2nd Place: Melanie Yarbrough
- Honorable Mentions: Sarah Delaney and Carmen Ghersaim

Poster Presentations

- 1st Place: Felix Leung
- 2nd Place: Uvaraj Uddayasankar
- Honorable Mentions: Victoria Higgins and Shaw Li Chaw



Frontier Medical Devices—the winner of the Qualcomm Tricorder XPRIZE competition—showed off DxtER, a real-life tricorder, during the Q&A session with XPRIZE finalists.



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Octavia Peck-Palmer, PhD

Dr. Peck-Palmer is a board certified clinical chemist and associate professor at the University of Pittsburgh School of Medicine. She directs three automated testing laboratories and is a member of the AACC Academy, Secretary of the AACC Clinical Translational Science Division, and the AACC Philadelphia Local Section. Her interests include racial disparity in sepsis/infection biomarkers, automation, and test utilization.



Allison Chambliss, PhD

Dr. Chambliss is an assistant professor of clinical pathology at the Keck School of Medicine of the University of Southern California in Los Angeles, CA. She is the director of clinical chemistry and point-of-care testing at the Los Angeles County and USC Medical Center. Her current professional interests include clinical lab standardization and fostering clinical collaborations outside of the laboratory.



Angela Ferguson, PhD

Dr. Ferguson is the co-director of clinical chemistry at Children's Mercy Hospital in Kansas City, Missouri and an assistant professor of pathology at the University of Missouri-Kansas City. She is a diplomate of the American Board of Clinical Chemistry and serves as a member of its board of directors, and is a Fellow of the AACC Academy, serving as Secretary/Treasurer. She is actively involved in AACC and is currently the Treasurer for the AACC Pediatric and Maternal-Fetal Division.



Kamisha Johnson-Davis, PhD

Dr. Johnson-Davis is an associate professor (clinical) at the University of Utah in the department of pathology and medical director for clinical toxicology at ARUP Laboratories in Salt Lake City. She is board certified in clinical chemistry and toxicological chemistry, a diplomate of the American Board of Clinical Chemistry and a fellow of the National Association of Clinical Biochemistry and the Association of Clinical Scientists.



Mark Kellogg, PhD, MT(ASCP)

Dr. Kellogg is the associate director of chemistry and director of quality systems in the department of laboratory medicine at Boston Children's Hospital and an assistant professor of pathology at Harvard Medical School in Boston. He is a native of Battle Creek, Michigan, where all good Kelloggs come from.



Adil I. Khan, MSc, PhD

Dr. Kahn is an assistant professor at Temple University Lewis Katz School of Medicine in Philadelphia and Director of Point of Care Testing at Temple University and Episcopal Hospitals. He is also director of the Clinical Chemistry Laboratories at Temple University, Episcopal Hospitals, and the Northeastern Ambulatory Care Center. He is a member of the IFCC and Laboratory Medicine Task Force on Point of Care Testing. His research interests include understanding the role of adhesion molecules in leukocyte recruitment in health and disease; novel markers of inflammation; clinical trials of point-of-care testing devices and clinical laboratory instruments; and assay development.



Veronica Luzzi, PhD

Dr. Luzzi is the medical director at Providence Health and Services Regional Laboratory in Portland, Oregon. She is also the director of Chemistry at the same institution. Dr. Luzzi supports laboratory stewardship and acts as a liaison between healthcare providers and the clinical laboratory. She is a faculty member for the AACC Global Lab Quality Initiative and often shares her expertise through the Latin-American Working group.



Sarah Wheeler, PhD

Dr. Wheeler is an assistant professor of pathology at the University of Pittsburgh School of Medicine. She is also director of UPMC Mercy Clinical Laboratory, Children's Hospital of Pittsburgh Automated Testing Laboratory, and associate director of clinical immunopathology at UPMC Central Laboratory. Her research interests include improving testing for multiple myeloma and HIV, as well as developing assays for novel investigational transplant specimens.



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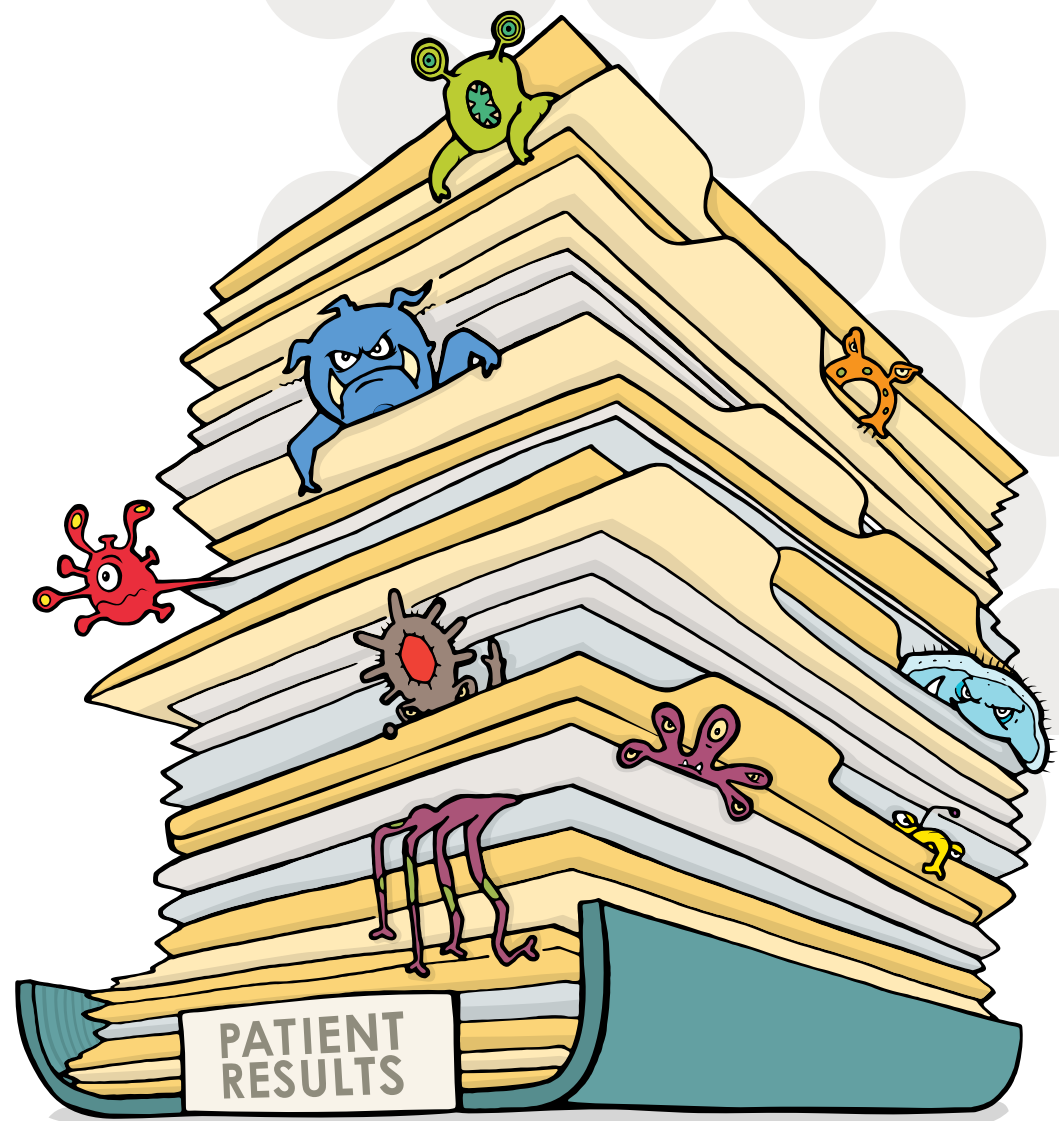
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The Life Cycle of a Lab Developed Test

By Veronica Luzzi, PhD

If you think you are alone in trying to figure out how to create, validate and verify performance specifications of a laboratory developed test (LDT), think again. Clinical laboratories have struggled to understand the best approach for establishing LDT performance for some time. In fact, understanding the different terminology is a big part of that struggle. In the U.S., clinical laboratories that use LDTs are required by CLIA to establish performance specifications of a newly introduced test system, specifically those that are not subject to the U.S. Food and

Drug Administration (FDA) clearance or approval. Laboratories must do the same for any approved/cleared assay that the lab modifies.

While CLIA requires that labs establish these performance specifications, it leaves the "how" up to labs. LDTs have evolved from home-brew tests to more complex assays being manufactured by corporations for the screening of life-changing diseases. Navigating the regulatory terminology and the complexity of the different evaluations required for LDTs can be daunting.

In 2015, stakeholders representing lab professionals, the in vitro diagnostic (IVD) industry, and government, including

FDA and the Centers for Disease Control and Prevention, collaboratively created the CLSI Evaluation Protocol 19: "A Framework for Utilizing CLSI Guidelines to Evaluate Clinical Laboratory Assays." This guideline uses standardized terminology that is useful, clear, and consistent with FDA usage.

In the session "Laboratory Developed Tests - What's a Laboratory to Do?" Paula Ladwig, MS, MT(ASCP), Luann Ochs, MS, and Lucia Berte, MA, MT(ASCP), shared their expertise on how and when to establish and implement an LDT using the CLSI EP 19, the FDA's Quality Systems Regulations, and ISO standards for vali-

dation and verification of LDTs. Ladwig introduced the idea of the assay life cycle paradigm and discussed its two main stages: establishment and implementation. She clarified the requirements for establishing performance of an LDT, and the steps required for implementation so that laboratories can routinely perform the LDT. She emphasized the milestones common to LDTs and commercially-manufactured assays. She used hypothetical LDT examples to illustrate how CLSI guidelines are used to establish performance claims and illustrated how decisions are made and supporting data documented.

Using the checklists provided in the EP19 labs can strengthen the validation through documenting the work done, Ladwig said. She also mentioned that one important part of establishing method performance is to define acceptability criteria at the beginning before validation begins.

Ochs is currently the senior vice president of operations for CLSI and had a key role in shepherding the EP19 guideline to completion. She has vast experience in the IVD industry and explained the importance of FDA's Quality System Regulation 21CFR820 (QSR) and future expectations.

Ochs introduced the concept of design control or what labs need to do to meet FDA requirements on top of what they need to do to comply with CLIA. Design control is a term that may be unknown to labs but is already frequently practiced by many labs that create LDTs. When LDT requirements are understood before an LDT is developed, the development occurs in a controlled manner, changes are deliberate and controlled, and every step is reviewed and documented, Ochs said.

Finally, Berte demonstrated how useful the CLSI guidelines and the International Organization for Standardization (ISO) 15189 can be for clinical laboratories. Specifically, she used graphics to explain how the plan-do-check-act paradigm applies to ISO standards and to LDTs. Berte emphasized using terminology and steps as described in EP19 and ISO 15189 to facilitate documenting, establishing performance characteristics, and implementing an LDT. She used a picture to describe the life cycle of a test and overlaid the ISO clauses corresponding to each of the steps of test life cycle. The session moderator, Rex Astles, PhD, facilitated lively interactive exchanges between the speakers and attendees.

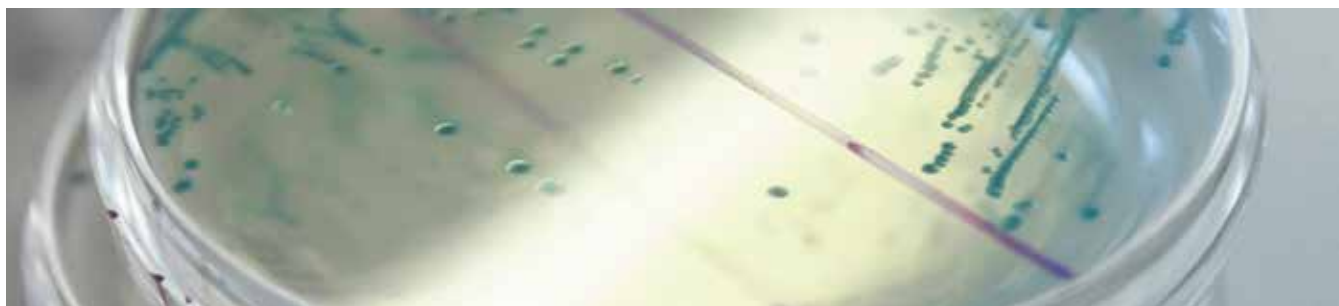


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Important Correction

Please note that in the Product Showcase section of the *CLN Daily*, on page B-28, the article about the product called ADVIA Centaur® Zika IgM Assay was printed in error. We regret this mistake and apologize for the error.

Common Rule Changes Favor Researchers

By Angela Ferguson, PhD, DABCC, FACB

The biggest news about changes made to the Common Rule in the federal regulations governing research was in regard to the proposed change that wasn't made. This is the consensus opinion of the experts speaking in a morning symposia today at 10:30 a.m., "Changing the Rules of the Game: Multi-Disciplinary Stakeholder Perspectives on the New 2017 Federal Regulations for Research." Erin Paquette, MD, JD, Danelle Miller, and Mark Sobel, PhD, MD will discuss the proposed changes to the rule, the changes that were put in place in the final version of the Common Rule, and how these changes will affect both academic and industry-based research.

The Common Rule provides protection to human research subjects and had not been updated since 1991. Proposed changes released to the public in 2015 included a provision that would have redefined the term "human subject" to include the unidentified biospecimens found in clinical laboratories. Miller, vice president of global regulatory policy and intelligence with Roche Diagnostics, states, "The final rule maintained the current [Food and Drug Administration] policy allowing the use of biospecimens that are deidentified, but there is a provision requiring review of the policy after one year." She explains that the definition of an identifiable biospecimen will be reevaluated to keep up with advances in technology, which, if changed, could impact researchers in industry and academics.

The panel will discuss the changes that made it into the final rule, including allowing a single institution's Institutional

Review Board (IRB) to approve a multi-site research study, and requiring informed consent forms for research studies to state clearly and concisely at the front of the document the risks to study participants. They also will highlight how regulations have the potential to thwart clinical research.

Overall, the changes that were made will be good for research. "From an investigator's standpoint, a number of the changes were aimed to reduce burden," says Paquette, assistant professor of pediatrics at Northwestern University and associate chair of the ethics committee at Ann and Robert H. Lurie Children's Hospital of

Chicago. "There are some additional responsibilities placed on IRBs that they will have to work out how to implement." She adds that the informed consent requirement will be the trickiest to implement. It could lead to some misunderstanding about the benefits of participating in a research study. However, as imperfect as this new requirement might be, it is time for an overhaul of the consent process due to research participants' historically poor understanding of giving consent. By the end of the session, Paquette hopes attendees understand that Federal oversight for research balances two priorities: conducting research that is meaningful for

the scientific community, and protecting patient autonomy and privacy. Changes to the rule achieved those aims, but time will tell if more tweaks are needed.

Miller believes that the changes to the Common Rule, and the provisions in the 21st Century Cures Act, have created a positive environment for doing clinical research in the U.S. that still protects both patients and the privacy of human research subjects. She hopes audience members involved in research will continue to consider and advocate for policies that assist researchers so that healthcare moves forward with new and innovative products to benefit patients.



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Woodruff

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tease out nuances in signaling that are lost in static culture models.

Woodruff and her colleagues are pursuing possible interventions, including engineering an ovarian bioprosthesis, that will maintain and restore normal autonomous function to follicles. Already, her lab has restored ovarian function in sterilized mice using 3D printed microporous scaffolds to create a bioprosthesis ovary that allowed for pups born through natural mating. This important breakthrough provides new treatment possibilities for endocrine support and infertility in the many premenopausal and prepubertal cancer survivors.

In Woodruff's experience, many oncologists tend to be uninformed about reproductive health. This is an area in which more education about the role of hormones in fertility and endocrine support could produce healthier lives. This rapidly advancing frontier will require our close attention to ensure that cancer survivors achieve the best possible long-term health outcomes. Woodruff closed with a reminder that "when grants and papers meet clinical problems, patient needs are met and we can change a devastating diagnosis into hope for the future."

New Psychoactive Substances Challenge Detection

By Kamisha Johnson-Davis, PhD,
DABCC (CC,TC)

Anyone who walked into Monday's morning symposium, "Novel Psychoactive Substances (NPS) in Emergency Toxicology" thinking that NPS are not a growing threat to public health were quickly disavowed of that notion. Speakers Jennifer Colby, PhD, and Kai Li, MD, described various compounds, including the drug U-47700, which is a synthetic super-opioid that causes extreme euphoria and respiratory depression, frequently leading to adverse effects, including death.

U-47700 is just one of many new psychoactive substances being sold on the street as counterfeit prescription drugs or in combination with prescription and illicit drugs. Various monikers like "legal highs," "research chemicals," and "synthetic drugs" have been applied to NPS owing to the compounds being structural analogs of target drugs that imitate the pharmacological effects of these drugs. However, NPS are structurally unique from target drugs, in order to evade identification and scheduling by the Drug Enforcement Agency, as well as detection in drug testing laboratories.

As Colby explained, "trends in NPS use change quickly and vary in different parts of the country." Some of these compounds were synthesized more than

40 years ago but now have re-emerged and made their way into use. With no regulatory oversight on the manufacturing and purity of these products, consuming them poses grave risks. Colby and Li emphasized that use of NPS in the form of cannabinoids, cathinones, benzodiazepines, opioids, phenethylamines, and more, has led to world-wide adverse drug reactions, hospitalizations, and fatalities. Laboratories face challenges in detecting these compounds because NPS have variable cross-reactivity with existing immunoassays and because laboratories lack access to analytical methods capable of detecting all of the variations of these designer drugs.

Li described the commonality of designer drug intoxications as well as the toxidromes associated with NPS ingestion. "Toxidromes are important symptoms to recognize early in the care of the poisoned patient," Li, noted. The speakers underscored the need for teamwork between medical and clinical toxicologists and clinical laboratories to identify drug compounds in intoxication or poisoning cases. They also described methods that were developed to test for NPS to support patient care. Colby and Li elaborated, through case reports, their success in using broad-spectrum drug screening via high-resolution mass spectrometry to identify the compounds intoxicated patients had



Speakers Kai Li (left) and Jennifer Colby present at Monday's "Novel Psychoactive Substances in Emergency Toxicology."

ingested. The session was interactive, using the FXP | touch app, and the speakers quizzed the audience on drugs that corresponded to the toxidrome symptoms in the case reports. They also polled attendees to determine which instruments were being used to support testing in attendees' emergency departments.

"These drugs are not going away. In fact, the number of new drugs continues to increase," Colby said. "Outbreaks of

drug substitutions, where users ingest something other than what they expected, continue all across the country. Poison control centers are often the first to hear of these epidemics, yet lack close laboratory collaborators to rapidly identify the causative drug. I think that by working with our medical toxicology colleagues, clinical toxicologists can play an important role in patient care and potentially even in public health."



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Interesting Findings: Unexpected Discoveries Among the Posters

By Octavia Peck Palmer, PhD

The 2017 AACC Annual Meeting Organizing Committee accepted 740 abstracts representing innovative scientific work from more than a dozen countries. Although every abstract will not receive distinguished recognition from the AACC Academy or the various AACC Divisions, highlighted here are several interesting studies that you may want to visit during this year's poster sessions. Posters are located in the upper level of the Sails Pavilion in the San Diego Convention Center.

Analytical Evaluation of Soluble fms-like Tyrosine Kinase 1 (sFlt-1) and Placental Growth Factor (PlGF) on Brahms Kryptor Automated Immunoassay for the Diagnosis of Preeclampsia (Poster B-017) presented by S. Chan et al. Although preeclampsia was described more than 2,000 years ago, the etiology of this hypertensive disorder is not clear. Moreover, the diagnosis of preeclampsia has been modified over time and includes factors such as hypertension, proteinuria, impaired liver function, and low platelet count. The acute onset of preeclampsia and delayed detection can lead to both maternal and fetal mortality. Chan et al. examined the analytical performance of the Brahms Kryptor automated immunoassay for measurement of two potential preeclampsia biomarkers, sFlt-1 and PlGF. The assay demonstrated acceptable analytical performance needed to further delineate the diagnostic utility of sFlt-1 and PlGF.

Changes in Laboratory Testing Turnaround Times at a Major Academic Medical Center After Converting to a Total Laboratory Automation System for Chemistry and Hematology (Poster B-024) presented by M. R. McGill et al. If you have not already, it's highly likely that in the near future you will experience implementing total laboratory automation (TLA) in your institution, so why not visit a group of colleagues who just completed this arduous task in 2016? McGill et al. focused specifically on the effect of TLA on test turnaround time (TAT). They reported an initial increase in TAT after the implementation of TLA that was reversed after key collaborative efforts with the manufacturer, including hardware and software adjustments. After these changes, TLA significantly decreased TAT for BMP, CMP, CBC, and cTnI.

Testosterone Content in Hyaluronidase Powder: Evaluation of Commercially-Available Sources for the Pretreatment of Viscous Body Fluid Specimens (Poster A-272) presented by S. L. La'ulu et al. Many clinical laboratories use hyaluronidase to liquefy viscous body fluids. However, you may not have considered the purity of the hyaluronidase preparation. In this study the authors assessed the relative quantity of testosterone in three commercially available hyaluronidase preparations and the potential effects of testosterone contamination on several assays.

Unstable Trends in Metabolites Predict Mortality Within 48 Hours Among Long

Term Hospitalized Patients (Poster B-036) presented by A. Momeni Boroujeni et al. Interestingly, the authors retrospectively examined metabolite trends in deceased inpatients (n=110) in their institution over a 2-year period to "evaluate end-of-life laboratory values time trends among deceased long term inpatients." Using the ARIMA and Mann-Kendall trend test, they identified increases in BUN, AST, and ALP, all indicative of end organ damage in the 48 hours that preceded death. They also found that Na, Cl, and K vary significantly from normal values. The authors concluded that, "Perhaps early detection of these changes can allow

Posters are located in the upper level of the Sails Pavilion in the San Diego Convention Center.

for timely interventions for the patients."

Comparison of qSOFA (quick SOFA) Score, Presepsin, Procalcitonin and Lactate for Severity Assessment and Mortality Prediction in Patients with Initial Sepsis (Poster B-069)

presented by E. Spanuth et al. Sepsis is a global public health problem. In 2016, the Third International Consensus Definitions for Sepsis and Septic Shock introduced a new sepsis definition, Sepsis-3, and a new risk score, the qSOFA score, in order to predict the risk of mortality in patients with suspected infection. The authors compared the performance of presepsin and procalcitonin with the qSOFA to differentiate sepsis, severe sepsis, or septic shock and the risk of mortality prediction in a cohort of 66 patients. The authors concluded that assessing qSOFA and presepsin together was better than using qSOFA alone.

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Shedding Light on Cannabis-Impaired Driving

By Kamisha Johnson-Davis, PhD,
DABCC (CC,TC)

Public support and legislative efforts over the past few decades have led to the legalization of cannabis (marijuana) for medical and/or recreational use in 29 states and the District of Columbia. The medical use of cannabis has expanded from HIV/AIDS wasting disease and glaucoma to epilepsy, cancer, neurological disorders, and chronic pain. Despite its medical benefits, there is growing concern about the dangers of driving under the influence (DUI) of cannabis. The short-term cognitive effects of

cannabis include impairments to memory, sensory perception, psychomotor control, and reaction time. The amount of cannabis consumed and the time window relative to use influence the severity of these effects.

Today's afternoon symposia, "Cannabis Impaired Driving: Biological Markers and Behavioral Indicators of Recent Cannabis Intakes," will give attendees a comprehensive overview of cannabinoid pharmacology and cannabis markers typically found in occasional and chronic smokers from four highly regarded investigators. Marilyn Huestis, PhD, a prominent researcher who has been conducting controlled cannabis administration studies for more than 20

years, will moderate and describe the endogenous cannabinoid system, the metabolism of cannabinoids, the disposition of cannabinoids in blood, and markers of recent cannabis use.

Rebecca Hartman, PhD, of the Monroe County (New York) Office of the Medical Examiner, will present findings from studies examining cannabis driving impairment following controlled cannabis administration, while Madeleine Swortwood, PhD, of Sam Houston State University, will describe the disposition of cannabinoids in oral fluid after smoked, inhaled, and oral cannabis administration in chronic, frequent, and occasional cannabis smokers

and on-site oral fluid testing to identify recent cannabis use. Meanwhile, Barry Logan, PhD, of NMS Labs, will highlight on-site oral fluid data based on random sample collections from volunteers at a music festival, and minimum blood testing requirements to identify drug-impaired driving.

"Everyone is affected by cannabis-impaired driving, the most important short-term consequence of cannabis medicalization and legalization," says Huestis. Cannabis-related DUI automobile accidents and fatalities have been on the rise, and the general public needs to understand that "driving while under the influence of cannabis approximately doubles your risk for injury or death," she adds.

DUI means a driver is unable to drive safely due to the exposure to drug or alcohol use. The laws governing DUI vary greatly among states. Some have zero tolerance laws, which declare that any concentration of Δ^9 -tetrahydrocannabinol (THC – the main psychoactive constituent of cannabis) detected in a specimen classifies a driver as DUI. Other states stipulate a "per se" blood concentration of a drug at a specified threshold to characterize the driver as DUI, while still others require documented performance impairment. Roadside screening devices detect cannabis use in oral fluid to assess acute driving impairment. The legal consequences of a DUI violation may include monetary fines, jail time, community service, probation, license suspension, or requirement to enroll in a drug treatment program.

Clinical laboratories—should be prepared to offer blood, plasma, oral fluid, and urine cannabinoid testing for therapeutic drug monitoring of new cannabinoid therapies, to detect recent cannabis use in motor vehicle crashes, workplace or home accident investigations, to identify relapse in drug treatment programs, or to screen applicants and employees for workplace drug testing programs, according to Huestis.

This session will debate the most effective measures to document cannabis-impaired driving. Come and join in the discussion!

AI

» from page A-1

images, clinic notes, and literature texts, and then convert this to a knowledge base in a structured format. Software must also associate this with other similar "knowledge banks." For example, cortisol can be either a hormone or drug, and can be differentiated by looking at context clues. So if cortisol is associated with "secretion" it indicates a physiological process, ruling out its use in this example as a drug. This contextual information-based approach helps the system be intelligent.

Complementing these two speakers, Nirali Patel, MD, explained how IBM Watson is helping her institution to help fulfill the promise that "healthcare should be tailored to meet the needs of the individual." However, Patel noted that "AI can be used to aid physicians in making their diagnosis, but not replace them entirely."

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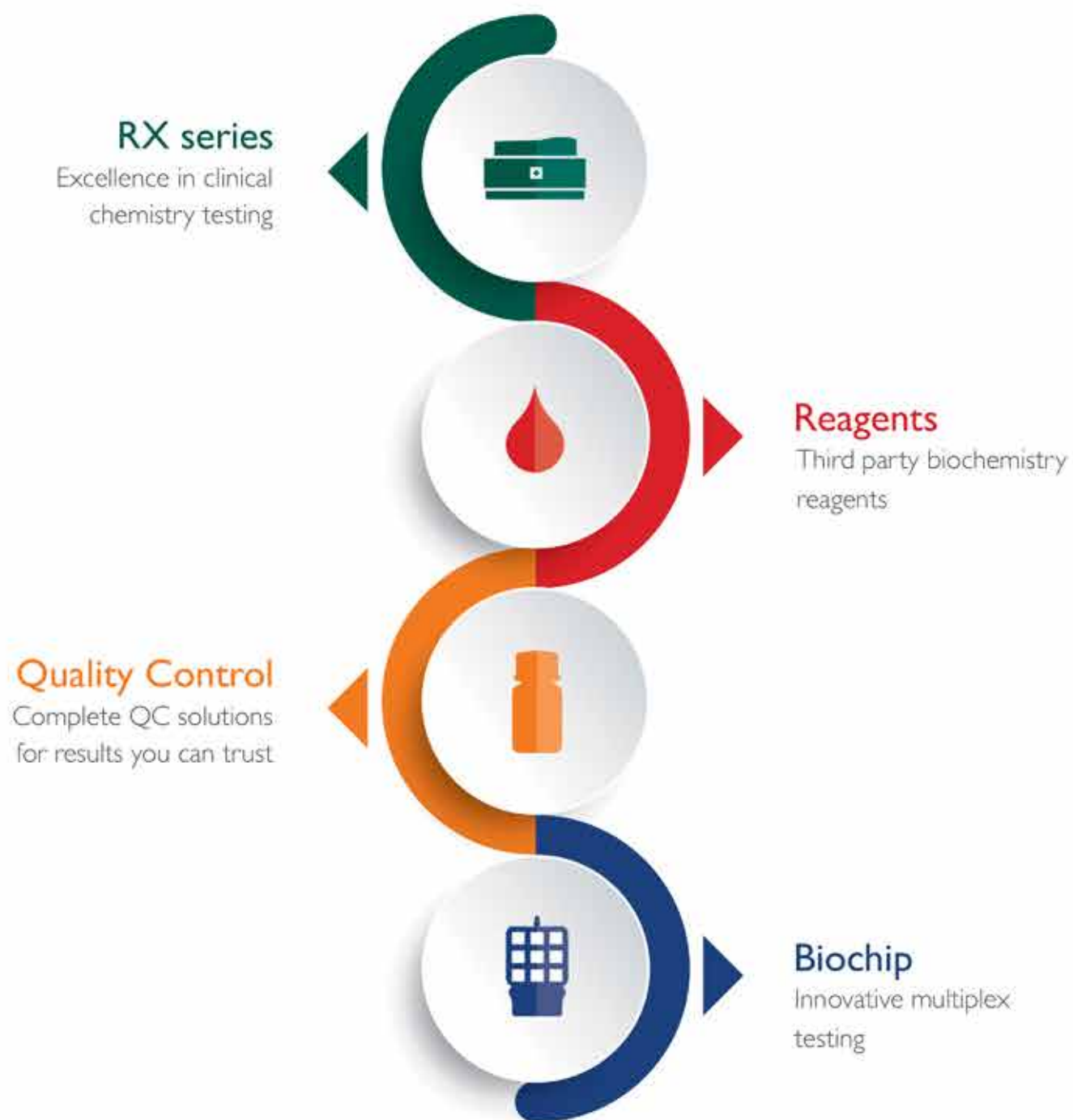
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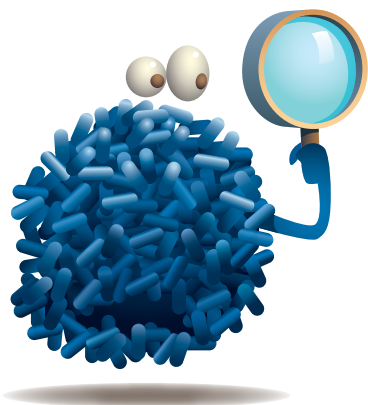
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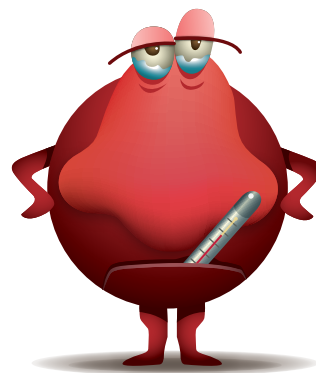
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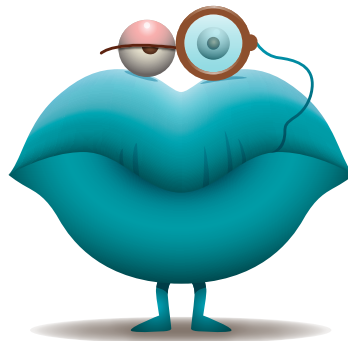
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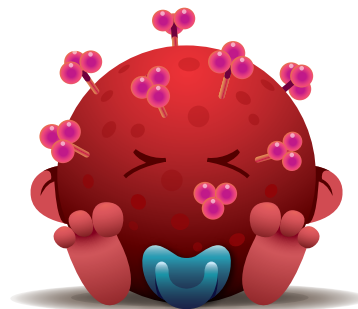
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AACC's Lab Tests Online Celebrates 300 Million Users

By Dominique Smith

Lab Tests Online recently celebrated a significant milestone by serving an estimated 300 million visitors since the U.S. site launched in 2001. For the past 16 years, AACC's award-winning health information web resource (labtestsonline.org) has been helping patients and caregivers understand the many lab tests that are a vital part of medical care. Laboratory and medical professionals representing AACC and related laboratory and medical organizations develop and review all content, including articles on lab tests, conditions/diseases, screening, clinical laboratory topics, and lab test news. Health professionals and patients alike frequent the website for its comprehensive, peer-reviewed content.



The AACC LTO staff and representatives from European Lab Test Online sites met at the Greek Society Clinical Chemistry Office in Athens, Greece to review new initiatives and discuss editorial planning.

Raising the Visibility of Lab Medicine Worldwide

Local versions of the site operate in more than 15 countries and in more than 10 languages, including Chinese, Spanish, and French. International partner societies make a valuable contribution to the breadth and quality of the content by developing native

language versions of Lab Tests Online in their home countries. This global network of Lab Tests Online websites is committed to the mission of raising public awareness about the importance of laboratory medicine and its contribution to healthcare. AACC acknowledged 10-year anniversaries for sites in Hungary, Italy, Poland and Spain this past June at the Lab Tests Online Global Editors meeting in Athens, Greece that preceded EuroMedLab.

In 2009, D. Robert Dufour, MD, FACB, a founding member of AACC's Lab Tests Online Editorial Review Board, became the Executive Editor of the Global Lab Tests Online program. This role has been instrumental in ensuring high-quality content and consistency across all country sites by coordinating the implementation of Lab Tests Online's editorial policies

and guidelines. Dufour will retire from the role of Executive Editor but will continue to serve as an AACC member of the Lab Tests Online Editorial Review Board. AACC and the global websites will commemorate Dufour's nearly 20 years of service to the Lab Tests Online program and welcome Shannon Haymond, PhD, DABCC, FACB, as the incoming Executive Editor of Lab Tests Online during the LTO Editors' Meeting here in San Diego, July 31.

During the 69th AACC Annual Scientific meeting, the Lab Tests Online team will be at the AACC Member Center (#3539) promoting its free ACCENT CE Reviewer Program. AACC members with US or Canadian licensure or certification can contribute to lab medicine patient education and earn 4 CE credits by reviewing and updating Lab Tests Online content.

Looking Forward: Lab Tests Online Launches a New, Modernized Website

As consumers become more proactive about their health and doctor-patient collaboration, the demand for health education websites with advanced, media-rich tools continues to rise. After nearly 17 years, Lab Tests Online will unveil a new, modernized website featuring a user-friendly layout and functionality aimed at optimizing the visitor experience. When the site launches this December, users can anticipate a mobile-friendly website with an expanded repository of interactive, media-rich tools and imagery. Over the next 2 years, Lab Tests Online plans to offer advanced features that provide a more tailored experience for both patients and health care providers that use the website.

Stop by the AACC booth (#3539) for a free memento and to learn more about the new Lab Tests Online site.

During the 69th AACC Annual Scientific meeting, the Lab Tests Online team will be at the AACC Member Center (#3539) promoting its free ACCENT CE Reviewer Program.

Making a Match at the AACC Clinical Lab Expo

By April Banks and Anne Novak

With many companies seeking to increase business around the world, making the right connections at the show can make a big difference. The U.S. Department of Commerce is taking a leading role in facilitating those connections under Commerce's International Buyer Program (IBP), which the AACC Clinical Lab Expo is part of this year. The IBP facilitates approximately \$1b in new business at major industry trade shows each year.

Commerce Trade Specialists from U.S. offices will be onsite at the International Trade Center, located in the Sails Pavilion on the top level of the San Diego Convention Center, to assist attendees in meeting with international companies that are interested in their products and services.

Commerce Commercial Specialists from Argentina, Brazil, Kenya, Malaysia, Mexico, Pakistan, the Philippines, Saudi Arabia, Singapore and Taiwan will meet with U.S. exhibitors at the meeting to counsel them on export prospects in their countries.

They also can offer country-specific market advice.

In addition to matchmaking with U.S. companies, the ITC offers a host of services with international visitors in mind, including private meeting rooms, a lounge area, refreshments, and computer capabilities with internet access. Companies can meet with delegation leaders, U.S. companies, or just relax.

For those interested in setting up appointments with U.S. suppliers attending the show, visit the ITC to find out more.

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AGENDA Tuesday, August 1

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- Personnel: Ensuring You Have the Right Person in the Right CLIA Role
- Accidental PT Referral: Best Practices for Prevention
- Root Cause Analysis: Getting to the Bottom of It
- Calibration Verification and Analytic Measurement Range Verification: Case Studies Highlight Requirements and Solutions

Posters On Display

All posters accepted for the 69th AACC Annual Scientific Meeting will be on display Tuesday, August 1 and Wednesday, August 2 from 9:30am – 5:00 pm in the Sails Pavilion, Upper Level, San Diego Convention Center. Presenting authors will be in attendance from 12:30 – 1:30 p.m.

Attendees can also download a complete PDF book and search abstracts online at www.aacc.org. Click on Meetings and Events > 2017 Annual Meeting > Call for Abstracts.

The critical and point-of-care testing division poster walk group listens as Kerstin Halverson (left), 2016 point-of-care coordinator of the year, answers questions about her poster at the 2016 AACC Annual Scientific Meeting in Philadelphia.



Division Poster Walks Today

Led by AACC Division subject matter experts, poster walks highlight posters selected by the division for further discussion. Poster walks are free, limited to 20-30 participants, and last about 30 minutes. Participants must have a full or daily conference registration and are asked to line up next to the tour signs outside the entrance to the poster display. All poster tours begin at 12:30 pm.

<i>Division</i>	<i>Tour Leader</i>
Biomarkers of Acute Cardiovascular Disease.....	Alan Wu
Clinical & Diagnostic Immunology.....	Maria A. Willrich
Clinical Translational Science.....	Zhen Zhao, Vincent Ricchiuti, and Octavia Palmer
Endocrinology.....	Bill Winter
Mass Spectrometry and Separation Sciences.....	Frederick Strathmann
Hematology and Coagulation.....	John V. Mitsios
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Product Showcase



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Abbott's ARCHITECT Syphilis TP has launched in the US! The assay is intended to be used as an initial diagnostic test or in conjunction with a nontreponemal laboratory test and clinical findings to aid in the diagnosis of syphilis infection. Warning: The ARCHITECT Syphilis TP assay is not intended for use in screening blood, plasma, or tissue donors.

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Advanced™ Anoxomat® III is an automatic, micro-processor controlled system for the cultivation of anaerobic, microaerophilic, hypoxic and capnophilic bacteria. The Anoxomat III is developed to reliably sustain environments for proper growth while maintaining low gas consumption. Anoxomat III: Game changer technology for bacterial cultivation.

**Advanced Instruments
Booth 4951**



GloCyte® Automated Cell Counter for CSF

GloCyte® Automated Cell Counter for CSF: The FDA cleared analyzer delivers consistent TNC and RBC counts and timely turnaround with just 30 µL of sample per test. GloCyte uses a novel combination of fluorescence and imaging technology with linearity down to 0 cells/µL and a limit of detection of 1 cell/µL for both TNC and RBC.

**Advanced Instruments
Booth 4951**



OsmoPRO® Multi-Sample Micro-Osmometer

OsmoPRO®, the newest addition to the Advanced Instruments family of freezing point osmometers. Designed specifically for mid- to high-volume laboratories wanting to automate osmolality testing to improve laboratory efficiency, throughput, and workflow.

**Advanced Instruments
Booth 4951**



6545XT AdvanceBio LC/Q-TOF

The Agilent 6545XT AdvanceBio LC/Q-TOF system is designed to handle multiple workflows in biopharmaceutical characterization.

**Agilent Technologies, Inc.
Booth 4807**



PathFinder 350D Decapper/Sorter

Designed specifically for small to medium labs, Aim Lab's new PathFinder 350D is a compact pre-analytical workstation to decap and sort incoming specimen tubes into various analyzer racks ready for testing. Throughput is 350 tubes/hr. The flexibility in design can expand throughput to 600 tubes/hr, double the deck space and align tube barcodes.

**Aim Lab Automation
Technologies Pty Ltd.
Booth 5457**



Alere™ i Influenza A & B, Strep A, RSV

Alere™ i is a rapid, instrument-based, isothermal system for the qualitative detection of infectious diseases. Our unique Alere™ i isothermal nucleic acid amplification technology provides molecular results in just minutes, allowing you to make effective clinical decisions sooner.

**Alere, Inc.
Booth 2931**



Alere Afinion™ AS100 Analyzer

The Alere Afinion™ AS100 Analyzer is a multi-assay analyzer system able to provide A1C results that are CLIA Waived in 3 minutes and ACR (Albumin/Creatinine Ratio) results in 5 minutes. The Alere Afinion™ Test System utilizes the latest technology and provides a simple, fast and reliable testing solution for A1C (CLIA Waived) and ACR.

**Alere, Inc.
Booth 2931**



epoc® Blood Analysis System

The epoc® Blood Analysis System delivers blood gas and electrolyte results in about 30 seconds, and is the only wireless bedside testing solution to use "SmartCard" technology. The epoc® BGEM Test Card has 11 analytes including Creatinine with eGFR and Chloride.

**Alere, Inc.
Booth 2931**



ALIBOX Certified quality & traceability of bio-transports

ALIBOX is a smart patented box designed to improve and certify bio-material transportation by active cooling/heating temperature control and real-time monitoring of multiple parameters as temperature and location on a cloud-based service. ALIBOX is accessible only with personalized smart cards and all data are certified by an Independent Authority.

**ALIFAX S.r.l
Booth 5729**



Pipette Calibration System (PCS)

Artel's new Pipette Calibration System (PCS) allows you to take full control of your pipette inventory and laboratory performance through easy calibrations, verifications, and operator skills assessments – with complete and comprehensive documentation. Stop by booth 1239 to learn more.

**Artel
Booth 1239**



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Unity is a trademark of Bio-Rad Laboratories, Inc. in certain jurisdictions.

Visit us at AACC Booth #3339

BIO-RAD

Product Showcase



VioOne™ Chemiluminescent Immunoassay System

Avioq's new line of chemiluminescent immunoassays & analyzers for markets accepting CE Mark products including benchtop and floor models: CLx60, CLx120 & CLx280. Extensive test menu >70 different assays. Throughput ranges from 60 - 280 samples in 60 minutes. First result delivered in 15 minutes. Instrument calibration stability 2-4 weeks.

AVIOQ, Inc.
Booth 1531



BD Vacutainer® Barricor™ Plasma Blood Collection Tube

BD Vacutainer® Barricor™ uses a new mechanical separator to efficiently separate high quality plasma. This technology reduces spin time from 10 to 3 minutes and reduces cellular contamination by 50 to 65 percent compared to leading plasma gel tubes. This revolutionary advancement can improve the accuracy and speed of clinical decision making.

BD
Booth 3139



NEW BioPlex 2200 Syphilis Total & RPR Assay

The BioPlex 2200 Syphilis Total & RPR (Rapid Plasma Reagin) Assay offers laboratories the first fully automated Treponemal/Non-Treponemal dual assay, which simultaneously detects antibodies to T. pallidum and reagin antibodies as well as RPR titer determination.

Bio-Rad Laboratories
Booth 3339



NEW BioPlex 2200 ToRC IgM Assay

The BioPlex 2200 ToRC IgM Assay is a fully automated, multiplex flow immunoassay for the simultaneous identification and differentiation of IgM antibodies to T. gondii, Rubella and CMV, which are antibodies commonly tested in individuals suspected of having one of the respective disease states including women of child bearing age.

Bio-Rad Laboratories
Booth 3339



CKD Dispensing Valve with Condition Monitoring

Enhance test confidence and productivity with dispensing valve condition monitoring from CKD's new MR series solenoid valves. Functionality is confirmed continuously by sensor output directly monitoring wetted parts, and visually by an integral red LED. With virtually 0 dead volume, CKD MR valves help assure proper test function every cycle.

CKD USA Corp.
Booth 1453



CGM LABDAQ

CGM LABDAQ®, from CompuGroup Medical (CGM), is a laboratory information system (LIS) that empowers labs of all sizes and specialties to optimize revenue and improve customer satisfaction by increasing efficiency and promoting patient safety. CGM LABDAQ enables seamless connectivity with EHR and billing systems and provides business decision support through advanced analytics.

CompuGroup Medical
Booth 5931



Simplexa® C. difficile Direct Assay

DiaSorin recently launched the Simplexa® C. difficile Direct assay for detection of Clostridium difficile tcdB gene present in liquid or unformed stool samples without the need for nucleic acid extraction. The assay redefines workflow and performance with simple direct detection, less processing steps, excellent performance and low invalid rate.

Diasorin Inc.
Booth 4407



CueSee® CO-OX

COOX controls with real Hb derivatives in 1 sample. Packaged in ACU-Drop 2, the innovative, dual-chambered device keeps O2Hb separate from MetHb for long shelf-life. Clinically relevant levels, compatible with all common CO-oximeters & yields identical results--ideal for quality control, method comparisons, AMR validations and proficiency testing.

Eurotrol, Inc.
Booth 1947

Clinical Lab Expo Hours

Tuesday
9:30 am - 5:00 pm

Wednesday
9:30 am - 5:00 pm

Thursday
9:30 am - 1:00 pm



SEARCH Analyzer

The SEARCH Analyzer is a portable, point-of-care PCR system that fits in the palm of your hand. Robust technology and design accommodates a variety of sample types for enteric and respiratory panel results in-house. Sample-to-answer in 30 minutes or less. Utilize the power of PCR and diagnose your patients more effectively with Fluxergy.

FluxErgy LLC
Booth 2305



TEG® 6s Hemostasis Analyzer System

The TEG® 6s analyzer is new thrombelastography technology that significantly improves ease of operation while measuring the same viscoelastic properties of blood coagulation. It can be readily deployed in either lab or near patient settings. The all-in-one cartridge system simplifies and automates preparation to reduce time and operator variability.

Haemonetics Corporation
Booth 2412



TEG Manager® Software System

The TEG Manager® software system delivers secure and convenient TEG® analyzer results viewing and system administration. It is accessed within the hospital network via web browser and provides robust TEG analyzer data warehousing, real-time remote patient results viewing/reporting, LIS connectivity, and user and device management and reporting.

Haemonetics Corporation
Booth 2412

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See us at the Clinical Lab Expo,
Booth # 2345

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Special Event Tomorrow

Winning Organization-wide Support for Laboratory Proposed Acquisitions

Marriott Marquis San Diego Marina
Marina Ballroom, Salon D
Wednesday, August 2

While you're at the 69th AACC Annual Scientific Meeting & Clinical Lab Expo, be sure to attend this free educational event to learn how to win the support of your organization's stakeholders to purchase new laboratory equipment and technology that will improve operations and patient care. Registration is free, although space is limited. Attendees may register online at www.aacc.org/conferences, or onsite before the event.

Event Program

5:30 pm to 5:45 pm
Check in and Reception

5:45 pm to 6:05 pm
Welcome and Brief Overview

Omai Garner, PhD; Assistant Professor, Pathology & Laboratory Medicine, Associate Director, Clinical Microbiology, and Director;

Point of Care Testing University of California Health System, Los Angeles, California.

6:05 pm to 6:30 pm
How our Lab Purchased a Cutting-Edge Robotic Specimen Processor
Karissa Culbreath, PhD, Assistant Professor, Pathology, University of New Mexico Health and Science Center Scientific Director, Infectious Diseases, Research and Development, TriCore Reference Laboratories Albuquerque, New Mexico.

6:30 to 6:50 pm
Panel Discussion and Q&A

6:50 to 7:30 pm
Reception and Networking

AACC designates this activity for a maximum of 1.0 ACCENT® credit hours towards the AACC Clinical Chemist's Recognition Award.

This educational activity has been made possible by an educational grant from Roche Diagnostics.



Today's Exhibit Hall Theater Industry Workshops

10:15 am - 11:15 am

Improving Quality and Turnaround Time of Clinical Chemistry Plasma Specimens with a Mechanical Separator

Sponsored by BD
Exhibit Hall, Theater 1

11:30 am - 12:30 pm

Integrating Innovation: Paving the Way to TnT Gen 5 Adoption

Sponsored by Roche Diagnostics
Exhibit Hall, Theater 2

12:45 pm - 1:45 pm

A New, Accessible Point-of-Care Molecular System for Physician Offices

Sponsored by Mesa Biotech
Exhibit Hall, Theater 1

3:15 pm - 4:15 pm

Heparin-Induced Thrombocytopenia (HIT) from Clinical Suspicion to Rapid Diagnosis, Lab Testing and Implementation of a HIT Testing Protocol

Sponsored by Instrumentation Laboratory (IL)
Exhibit Hall, Theater 1

2:00 pm - 3:00 pm

Controversies in CTD Testing

Sponsored by Inova Diagnostics
Exhibit Hall, Theater 2

Visit AACC
booth #3539



Career Opportunity



The Biomedical Laboratory Diagnostics Program at Michigan State University seeks an enthusiastic **Clinical Chemist Educator** to join our faculty team and assist Medical Laboratory Scientists build rewarding careers. We value innovative teaching that is discipline-focused while promoting student personal growth. Professional development in teaching and involvement in the laboratory profession will be valued.

Position Description: The Biomedical Laboratory Diagnostics Program at Michigan State University invites applications for a Fixed Term Faculty position (non-tenure) at a rank commensurate with experience (Assistant/Associate/Professor). The individual will be responsible for instruction in clinical chemistry and laboratory operations at the undergraduate and graduate level. Michigan State offers two undergraduate degrees (one NAACLS accredited) and three graduate degrees. The successful candidate will have an earned doctorate and hold a clinical certification/credential (ABCC, ASCP, ABMM, ABHI, ABB or MLS, SC(ASCP) or eligible).

The salary is negotiable and commensurate with experience. Review of applications will begin immediately and continue until the position is filled. Job application should be made through the MSU Careers website at:

<https://careers.msu.edu>
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Refer any questions to
Dr. John Gerlach
gerlach@msu.edu



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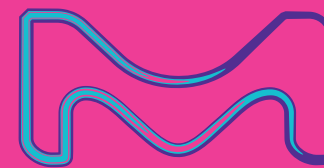
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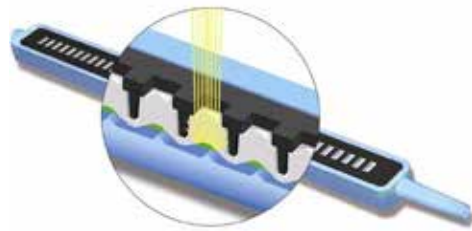
Product Showcase



HemaPRO Automated Slide Stainer by QuickSlide

The HemaPRO™ Automated Slide Stainer represents a significant advancement in automated blood smear staining. It is a valuable addition to any laboratory, whether it is the primary stainer used by small hospitals, physicians labs, stat labs, or used as a stat/backup instrument in larger labs.

**Hardy Diagnostics
Booth 1518**



OPTIGEN® Allergen-Specific IgE Assay

Hitachi Chemical Diagnostics OPTIGEN® technology is a next generation in vitro test that provides clinicians with a front-line solution leading to early diagnosis of allergy conditions. OPTIGEN® results are accurate, reliable and reproducible, and correlate well with skin testing and single allergen systems.

**Hitachi Chemical Diagnostics
Booth 6139**



Product name: GEM® Premier™ 5000 with iQM®2

New GEM Premier 5000 Critical Care testing system with Intelligent Quality Management 2 (iQM2) assures quality before, during and after sample analysis by providing automated real-time error detection, correction and documentation. The all-in-one GEM PAK requires no maintenance and offers advanced simplicity at the point-of-care.

**Instrumentation Laboratory (IL)
Booth 2223**



GEMweb® Plus 500 Custom Connectivity

New GEMweb Plus 500 Custom Connectivity provides customizable connectivity and automated functionality for complete control of GEM® Premier™ Critical Care testing systems and their operators at the point-of-care. Now, non-IL devices can be connected too and data accessed from tablet devices for true flexibility.

**Instrumentation Laboratory (IL)
Booth 2223**



HemoCell™ Specialized Lab Automation

New HemoCell Specialized Lab Automation solution is the world's first lab automation solution specifically for Hemostasis Testing.

Combining the analytical capabilities of ACL TOP® Family 50 series systems, HemosIL® assay accuracy, HemoHub™ centralized control on a Thermo Fisher™ track, HemoCell optimizes workflow, throughput and turnaround times.

**Instrumentation Laboratory (IL)
Booth 2223**

HemosIL



HemosIL® HIT-Ab(PF4-H) Assay

The first, fully automated, on-demand assay for Heparin-Induced Thrombocytopenia (HIT) on a Hemostasis testing system, new HemosIL HIT-Ab(PF4-H) detects antibodies associated with HIT. This liquid, ready-to-use assay delivers results in minutes, allowing timely, well informed therapeutic decisions.

**Instrumentation Laboratory (IL)
Booth 2223**



Intrinsic Hepcidin IDx™ Test

Intrinsic LifeSciences proudly announces the Intrinsic Hepcidin IDx™ Test for serum and plasma hepcidin in clinical samples. Hepcidin, a key hormone regulating iron is useful to aid in diagnosis of iron deficiency. The Intrinsic Hepcidin IDx Test is offered by IntrinsicDx, The BioIron Laboratory™, a CLIA certified and CAP accredited clinical lab.

**Intrinsic LifeSciences
Booth 2662**



ADVANTAGE CHIKUNGUNYA IgM CARD

Advantage Chikungunya IgM Card is a visual, rapid, sensitive, qualitative immunoassay for the detection of Chikungunya specific IgM antibodies in human serum or plasma.

**J. Mitra & Co. Pvt. Ltd.
Booth 2463**

Get to Know the AACC Universal Sample Bank

AACC's Universal Sample Bank contains screened and characterized samples from more than 700 healthy individuals. The sample sets can be used in a variety of clinical studies, including assay development, standardization, and reference range development. Key features include:

- Ethnically and geographically diverse adult population (18+)
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- Comprehensive donor data with health screening information
- Results of HbA1c, Creatinine, and NT-proBNP screens
- Available in serum, EDTA plasma, or lithium heparin plasma

To learn more, visit www.aacc.org/samplebank



ADVANTAGE MALARIA PAN+PF CARD

ADVANTAGE MALARIA PAN +PF CARD is a rapid, visual and sensitive immunoassay for the qualitative diagnosis of infection with P.falciparum and other Plasmodium species (P.falciparum /P.vivax/P.malariae/P.ovale) in human whole blood only.

**J. Mitra & Co. Pvt. Ltd.
Booth 2463**



DENGUE DAY 1 TEST

Dengue Day 1 Test is a rapid solid phase immuno-chromatographic test for the qualitative detection of Dengue NS1 Antigen and differential detection of IgM and IgG antibodies to Dengue virus in Human serum/plasma.

**J. Mitra & Co. Pvt. Ltd.
Booth 2463**



21-Hydroxylase Antibody (21-OHAb)

The KRONUS® 21-Hydroxylase Autoantibody (21-OHAb) ELISA Assay Kit is for the detection of 21-OH autoantibodies in human serum. †For Research Use Only. Not for Use in Diagnostic Procedures.

**KRONUS, Inc.
Booth 5222**

A laboratory test is more than a number; it is a person, an answer, a diagnosis.[®]

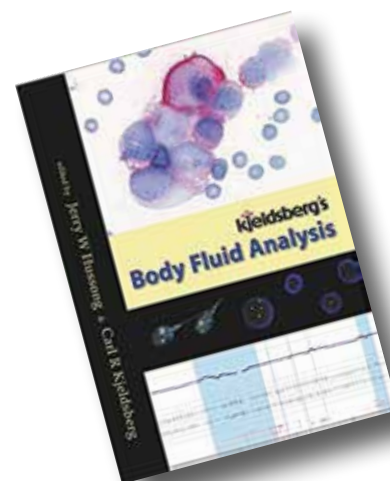
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Wednesday, Aug. 2, 10 a.m.

Earning Customer Loyalty through Tough Love

“Labs and clinical providers share a common goal: high quality patient care. So why are we afraid to hold providers accountable in order to improve the testing process?”

Brian Jackson, MD, MS

Wednesday, Aug. 2, 2 p.m.

“Appropriate test utilization for diagnosing and monitoring treatment response for various viral hepatitis etiologies is critical for both cost savings and improved patient care.”

Advances in Viral Hepatitis Testing

Patricia Slev, PhD

Product Showcase



3-Screen Islet Cell (GAD/IA-2/ZnT8) Autoantibody Screen

The KRONUS® 3-Screen Islet Cell Autoantibody ELISA Assay Kit is for the simultaneous and non-differential detection of GAD and/or IA-2 and/or ZnT8 autoantibodies in human serum.

†For Research Use Only. Not for Use in Diagnostic Procedures.

KRONUS, Inc.
Booth 5222



ARIES® C. difficile Assay

The ARIES® C. difficile Assay is a rapid method for the detection of toxigenic C. difficile from a stool sample, using the sample to answer ARIES® Systems. The assay detects toxins A and B, with built-in controls to ensure accurate results. For research use only. Not for use in diagnostic procedures.

Luminex Corporation
Booth 1838



VERIGENE® Respiratory Pathogens Flex Test

The VERIGENE® Respiratory Pathogens Flex Test (RP Flex) detects 16 viral and bacterial respiratory targets in a cost-effective manner—one platform, one comprehensive panel, and the flexibility to use and pay for only what you need. For In Vitro Diagnostic Use. Products are region specific and may not be approved in some countries/regions.

Luminex Corporation
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MediaLab, Inc.
Booth 1717

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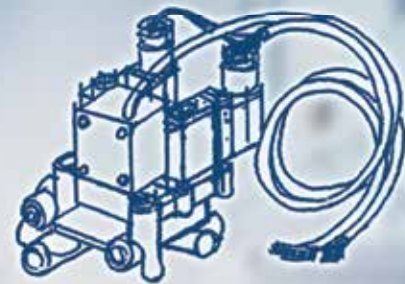
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Product Showcase



Milli-Q® IQ 7000 water purification system

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**MilliporeSigma
Booth 2039**



Quantimetrix Introduces Dipper POCT® Liquid UA QC

Dipper POCT® Urinalysis Dipstick Control is a 2-level single-use control in a unique slim plastic pouch with a 1.5mL fill of liquid control. The kit contains 62 pouches (31 of each level). Extended RT stability of 3 months & 3 years refrigerated from date of manufacture, exceeding all other urinalysis controls formulated with native ketones.

**Quantimetrix Corporation
Booth 4326**

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**My Inspection
Booth 4257**



Acusera 24.7 Live Online

Following extensive development based on customer feedback, Acusera 24.7 Live Online is faster, with a simplified user interface & enhanced user experience. In addition to our existing unrivaled range of features, we have developed new, innovative tools to speed up the review process & provide at-a-glance performance assessment for your lab.

**Randox Laboratories Ltd
Booth 3839**



Tina-quant® Hemoglobin A1cDX Generation 3 Assay

The Tina-quant® Hemoglobin A1cDX Gen 3 is intended for use as an aid in the diagnosis of diabetes and as an aid in identifying patients who may be at risk for developing diabetes. It is an in vitro diagnostics reagent intended for the quantitative determination of % hemoglobin A1c (DCCT/NGSP) in hemolysate or whole blood.

**Roche Diagnostics
Booth 4606**



Onestep Laboratories QuickBlu® TMB Substrate

Onestep Laboratories Inc.'s QuickBlu® one component TMB substrates have been proven to be highly sensitive and consistent, and remarkably stable for up to 4 years at 2 - 8°C. The solution can be concentrated up to 10 times for easy transportation and has been patented in the United States.

**ONESTEP LABORATORIES
Booth 2057**



cobas® e 801 module

Roche is pleased to introduce the cobas® e 801 immunoassay module, the newest innovation in the cobas® 8000 modular analyzer series.

**Roche Diagnostics
Booth 4606**



Elecsys® AMH Assay

The automated Elecsys® AMH assay is intended for the assessment of ovarian reserve in woman presenting to fertility clinics in conjunction with other clinical and laboratory for fertility evaluation. Designed to offer excellent performance, the assay enables clinicians to provide patients with accurate results in only 18 minutes.

**Roche Diagnostics
Booth 4606**



Quantimetrix Introduces CHROMASCOPICS Liquid UA QC

CHROMASCOPICS™ UA Control is a combined urinalysis and sediment control specifically designed for the Siemens Clinitek Novus, other Siemens UA test strips, confirmatory tablet tests, and βhCG methods. CHROMASCOPICS may also be used to validate the microscopic analysis of urine sediment.

**Quantimetrix Corporation
Booth 4326**



cobas® c 513 analyzer

This dedicated, high-volume HbA1c testing solution features high-quality components and offers functionalities designed to fulfill the needs of high-volume laboratories, while also meeting the new requirements for HbA1c testing.

**Roche Diagnostics
Booth 4606**



Elecsys® Troponin T Gen 5 STAT

The automated Elecsys® TnT Gen 5 assay is intended to aid in the diagnosis of myocardial infarction (MI). As the only high-sensitive Troponin assay in the U.S. and designed to offer excellent precision, the assay delivers accurate results in only 9 minutes, enabling clinicians to accurately diagnose patients with a suspected heart attack.

**Roche Diagnostics
Booth 4606**

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With a MTBF > 300 days, the LUMIPULSE *G1200* is a reliable, market-proven choice for automated immunoassay systems in clinical laboratories.

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Booth #2917



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69th AACC Annual Scientific Meeting & Clinical Lab Expo

SAN DIEGO CONVENTION CENTER • SAN DIEGO, CA • EXHIBIT HALLS A - H



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American Screening Corporation.....	1756
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ANHUI DEEP BLUE TECHNOLOGY CO., LTD.....	3233
Aniara Diagnostica.....	5317
Ansh Labs, LLC.....	2455
AP-NEXT inc.....	848
Applied Biocode, Inc.....	3856
APTEC Diagnostics NV.....	5411
ArcherDX, Inc.....	648
Aries Filterworks.....	3757
Arista Biologicals Inc.....	2825
ARK Diagnostics, Inc.....	4452
ARKRAY, Inc.....	2427
Arlington Scientific Inc.....	3852
Artel.....	1239
Artron BioResearch Inc.....	1315
ARUP Laboratories.....	2445
Asahi Kasei Fibers Corporation.....	2819
ASCO.....	2521
ASCP Board of Certification.....	740

ASP Lab Automation AG.....	2063
Associates of Cape Cod, Inc.....	1346
Athens Research & Technology.....	1662
ATIS.....	1615
Atlas Genetics.....	1157
Atlas Link, Inc.....	5001
Atlas Medical.....	710
Audit MicroControls, Inc.....	2511
Auer Precision Co.....	5456
Aurora Biomed.....	5311
Aurum Biomedical Technology, Inc.....	1252
AusBio Laboratories Co. Ltd.....	1747
Autobio Diagnostics Co., Ltd.....	5713
AutoGenomics.....	4358
AVE Science & Technology Co., Ltd.....	5506
AVIOQ, Inc.....	1531
Awareness Technology, Inc.....	4051
AWEX.....	2213
Axxin.....	4654
Axxin.....	5951
B&E Scientific Inc.....	5853
Baebies.....	855
Bangs Laboratories/Polysciences.....	5407
Bay Advanced Technologies.....	625
BBI Solutions.....	1539
BD.....	148
BD.....	3139
Beaufort.....	5319
Beckman Coulter, Inc.....	3117
Beckman Coulter, Inc.....	MR215
Beckman Coulter, Inc.....	MR311
Beijing Bohui Innovation Technology Co., Ltd.....	5612
Beijing DDM Technology Co.,Ltd.....	5822
Beijing Expert Medical Technology Co., Ltd.....	712
Beijing MarrBio-Pharmaceutical Co., Ltd.....	5523
Beijing O&D Biotech Co., Ltd.....	705

Beijing Ruicheng Medical Supplies Co., Ltd.....	611
Beijing Strong Biotechnologies, Inc. ..	5845
Beijing Tigsun Diagnostics Co. Ltd. ..	5615
Beijing Unidiag Technology Inc.....	5511
Benchmark Electronics.....	1257
BERTHOLD TECHNOLOGIES GmbH & Co. KG.....	524
BioAssay Works, LLC.....	1227
Biobase China.....	750
BioChain.....	551
Bio-Chem Fluidics Inc.....	5300
BIOCLIN.....	2358
BioDot, Inc.....	2839
BioFire Diagnostics, LLC.....	5439
Biofortuna Ltd.....	1520
Biokit.....	2323
BIOLYPH, LLC.....	2444
Biomat srl.....	1246
Biomatrix, Inc.....	1961
BioMedica Diagnostics Inc.....	1216
BioMedomics, Inc.....	539
Biomera, Inc.....	1556
BioMerieux, Inc.....	5328
Bioneer Corporation.....	5555
BioNex Solutions.....	730
Biopharma Technology LLC.....	1561
BiOptic Inc.....	2653
Bio-Rad Laboratories.....	13
Bio-Rad Laboratories.....	3339
Bio-Rad Laboratories.....	MR233
Bio-Rad Laboratories.....	MR333
Bio-Rad Laboratories.....	2938
BioreclamationIVT.....	5655
BIOREF GmbH.....	4700
Bioresource Technology, Inc. (US)	2655

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Exhibit Hall Hours
Tuesday 9:30 am - 5:00 pm **Wednesday 9:30 am - 5:00 pm** **Thursday 9:30 am - 1:00 pm**



Booths/Meeting Rooms shaded in pink must be packed & shipped out by 5:00 PM, August 4, 2017

EXHIBITING AS BOOTH NUMBER

Bioscience (Tianjin) Diagnostic Technology Co., Ltd. 953	Cangzhou Shengfeng Plastic Product, Co., Ltd. 1559	Clinical Omics 5	DiagnostikNet-BB e.V. 4502
BiosPacific 5419	Canon BioMedical 1217	Clippard Instrument Laboratory, Inc. 728	DIALAB GmbH 5323
Biosurfitt SA 1355	CapitalBio Corporation 1753	CLTech Corp. 5939	Diamond Diagnostics Inc. 2024
BioSynex 529	Capralogics Inc. 2047	Cognex Corporation 1552	DIARECT AG 5721
BIO SYNTH International 5002	Capricorn Products LLC 4353	COLA 3132	DiaSorin 4407
Biosystems S.A. 5112	Cardinal Biologicals, Inc. 1358	College of American Pathologists 3727	DiaSorin MR251
Biotage 1712	Caretium Medical Instruments Co, Ltd 6250	Conductive Technologies, Inc. 2649	Diasource Immuno Assays S.A. 2217
Bio-Techno 4655	Carolina Liquid Chemistries 4554	Cone Bioproducts 2756	DiaSys Diagnostic Systems GmbH ... 1444
biotechrabbit GmbH 4402	Carville Ltd. 910	Controlled Fluidics 627	Diazyme Laboratories 4239
Bioteke Corporation (Wuxi) Co., Ltd 5525	Cedarlane 1616	Copan Diagnostics, Inc. 5549	DIBA Industries, Inc. 5201
Biotium, Inc. 1360	CellaVision AB 4853	Core Technology Co., Ltd. 5821	Diener Precision Pumps 6039
Biotron Diagnostics Inc. 1911	CELLMIC 2414	Coretests Inc. 5507	Dier Biotech Co., Ltd. 5601
BioVendor-Laboratory Medicine, Inc. 650	Cellotape 2810	Coris Bioconcept 2310	DIESSE Diagnostica Senese S.p.A. 5214
Bio-X Diagnostics 2316	Centers for Disease Control and Prevention - Office of Technology and Innovation 3848	Corning Incorporated 1449	Dino-lite Scopes (BigC) 2062
BIT Group 4755	Centers for Medicare & Medicaid Services 9	CPC 732	Dirui Industrial Co., LTD 5629
BMT USA, LLC 1052	Cepheid 2539	CTK Biotech, Inc. 1962	DLAB Scientific CO. LTD 3844
Boditech Med, Inc. 5848	CerTest Biotec, S.L. 5013	CTK Biotech, Inc. 2748	DLD Diagnostika GmbH 4501
Bomi Group 3753	CGM LABDAQ 5931	Curetis USA 5952	DPX Labs 1462
Boule Medical AB 4357	Changzhou Prefluid Technology Co., Ltd. 645	Currier Plastics, Inc. 1362	Dr. Fooke-Achterrath Laboratorien GmbH 5358
BrandTech Scientific 1152	Chembio Diagnostic Systems, Inc. 3853	DAAN Gene Co., Ltd. of Sun Yat-sen University 2715	DRG International, Inc. 5221
Brandwidth Solutions 2857	Chemtron Biotech, Inc. 2719	Data Innovations LLC 5206	Drucker Diagnostics 1810
Broad (Shanghai) Exhibition Business Co., Ltd. 1757	ChemWare 610	DCN Diagnostics, Inc. 5945	Drummond Scientific Co. 1644
BUHLMANN Diagnostics Corp. 1620	Chengdu Rich Science Industry Co., Ltd 612	DEDALUS S.P.A. 5454	DSM Pentapharm 2705
Burkert Fluid Control Systems 2945	Chengdu Seamaty Technology Co., Ltd 5607	Denka Seiken Co., Ltd. 1931	DST Diagnostische Systeme & Technologien GmbH 4001
Byline Financial Group 5447	Children's Hospital of Philadelphia 804	DenLine Uniforms, Inc. 1910	Dxgen Corp. 1959
Byron-Diagnostics (Shanghai) Co., Ltd. 1863	Chroma Technology Corp. 745	Desert Biologicals/Omega Biologicals 2510	Dx-Sys, Inc. 1356
CalBioreagents 1811	Chromsystems GmbH 4345	Dexter Magnetic Technologies 2512	Dynamiker Biotechnology (Tianjin) Co., Ltd. 2103
Calbiotech, Inc. 931	CKD USA Corp. 1453	DiaCarta 1417	Dynex Technologies Inc. 1821
Calzyme Laboratories, Inc. 3232	Clinical and Laboratory Standards Institute 2315	DIAGAM S.A. 2211	DYNEX TECHNOLOGIES, spol. s r.o. 6151
Cambridge Healthtech Institute 2755	Clinical Lab Products 4	Diagnostic Automation/ Cortez Diagnostics 1617	EASE-Medtrend Biotech, Ltd. 617
Canadian Society of Clinical Chemists (CSCC) 3749		Diagnostica Stago, Inc. 4217	EastCoast Bio, Inc. 1544
		Diagnostica Stago, Inc. MR425	Eastern Business Forms Inc 513
		Diagnostics Biochem Canada Inc. 1511	Edan Instruments, Inc. 5925

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Elemental Machines	547
ELGA Labwater	5712
ELITech Group	4327
ELMI North America	711
Elsevier	512
Enplas America, Inc.	916
EntroGen	516
Envigo Bioproducts, Inc.	541
Enzyme Research Laboratories, Inc.	1225
Epitope Diagnostics, Inc.	3850
Eppendorf North America	2311
Equitech-Bio, Inc.	4455
Era Biology	5624
Erba Lachema s.r.o.	2011
Euroimmun US	5251
Eurospital	1656
Eurotrol, Inc.	1947
Evergreen Scientific	2727
Evouqua Water Technologies LLC	1458
Exalenz Bioscience	2850
Excel Scientific, Inc.	2711
Express Diagnostics	1921
EZLifeBio, Inc.	1120
Fapon Biotech Inc.	2849
Fapon Capital	2811
Ferrotec (USA) Corp.	521
Festo Corporation	2661
Fitzgerald Industries Int'l.	1661
Fluid Metering, Inc.	5247
FluxErgy LLC	2305
Follett LLC	2514
Foxx Life Sciences	638
Fralock	960
FUJIFILM Medical Systems USA, Inc.	621
Fujirebio	2917
Funai Corporation	5808
G-H-I	
GA Generic Assays GmbH	4402
GE Healthcare	1421
Gems Sensors & Controls	2516
GENBODY, INC.	555
GenePOC	533
GenMark Diagnostics, Inc.	1124
Genolution	5414
GenomeWeb LLC	1321
GenPrime Inc.	1611
Genrui Biotech Inc.	5355
Gentian AS	531
GenWay Biotech, Inc.	1746
Getein Biotech, Inc.	2757
Ginolis	4446
Globe Scientific Inc.	2830
Glycomark	2829
Golden Biotechnologies Corp.	1303
Golden West Biologicals, Inc.	2046
GoldMag Nanobiotech	863
Goldsite Diagnostics Inc.	6154
Greiner Bio-One, Inc.	4151
Grenova, LLC	914
Grifols	5129
GSI Technologies	2117
Guangzhou Improve Medical Instruments	5213
Guangzhou KOFA Biotechnology Co., Ltd.	5623
Guilin Royalzyze Medical Instrument Co. LTD	912
GVS North America	2355
Haematologic Technologies, Inc.	716
Haemonetics Corporation	2412
Hamilton Company	4907
Hangzhou Biotest Biotech Co., Ltd.	715
Hangzhou Clongene Biotech Co., Ltd.	905
Hangzhou Gene Era Biotech Co., Ltd.	2752
Hangzhou Lifereal Biotechnology Co., Ltd.	6156
HANGZHOU ROLLMED CO., LTD	511
Hardy Diagnostics	1518
hc1.com	5113
Healgen Scientific LLC	1211
Health Gene Technologies Ltd.	3857
Heathrow Scientific	2503
Helena Laboratories Corporation	5117
Helmer Scientific	1339
Hemosure / WHPM	1815
Hettich Lab Technology	859
HiberGene Diagnostics Ltd	1020
Higuchi Inc. USA	2828
Hipro Biotechnology Co., Ltd	1248
Hitachi Chemical Diagnostics	6139
Hitachi, Ltd.	6145
Hochuen International Corp	2058
Hologic, Inc.	4839
Hoover Precision Products, LLC	5957
HORIBA Medical	5039
HTI Medical	1255
Hycor Biomedical Inc.	3956
HyTest	5056
I.W. Tremont	5259
IBL-America	1714
ICA Corporation	5556
Icosagen Cell Factory	5359
IDEX Health & Science	2749
IDG Sanzay Corp.	831
IDS Co, LTD	2027
IFCC International Federation of Clinical Chemistry and Laboratory Medicine	3739
Iline Microsystems	4957
IMEGEN	5011
Immucor, Inc.	1639
Immundiagnostik AG	4227
Immuno Concepts	4408
ImmunoChemistry Technologies	1905
Immunodiagnostic Systems	2924
Immunology Consultants Laboratory, Inc.	1646
ImmunoReagents	1147
Immunostics Inc.	5850
IMRA America Inc.	6050
IMT Masken und Teilungen AG	639
in.vent Diagnostica GmbH	4602
InBios International, Inc.	1010
Indigo BioAutomation	2450
Innova Biosciences	1953
Innovize	1816
Inova Diagnostics, Inc.	2329
Inpeco S.A.	2824
Instrumentation Lab	2111
Instrumentation Laboratory (IL)	2223
Integra Biosciences (ViaFlo)	1046
InterSystems Corporation	753
Intrinsic LifeSciences	2662
Invetech	2939
it4ip s.a.	2314
ITL BioMedical	1051
ITL Group	2809
IVD Industry Connectivity Consortium	1955
IVD Technologies	2845
IVEK Corporation	4958
Iwaki America Inc.	1710
iXensor Co., Ltd.	6152
J-K-L	
J. Mitra & Co. Pvt. Ltd.	2463
Jackson ImmunoResearch Laboratories	1410
JADAK	2818
Japanese Association of Clinical Laboratory Systems (JACLaS)	1703
Jiangsu Bioperfectus Technologies Co., Ltd.	803
Jiangsu Kangjian Medical Apparatus Co.	5815
Jiangsu Kangjie Medical Devices Co., Ltd.	744
Jiangsu ZECEN Biotech Co., Ltd.	5818
J-Pac Medical	1459
JSR Life Sciences	2558
Kaiser Permanente	613
Kamiya Biomedical Company	3838
KANANI BIOLOGICALS	2060
Kem-En-Tec Diagnostics	1939
Kestrel Biosciences LLC	6055
Kewaunee Scientific Corporation	4233
Key Tech	1122
Kikkoman Biochemifa Company	2848
Kinbio Tech. Co., Ltd.	2504
Kinematic Automation Inc.	5839
KMC Systems Inc.	5423
KNF Neuberger Inc.	1344
Koco Motion US LLC	1562
KogeneBiotech Co., Ltd	1316
Konica Minolta, Inc.	921
KONNIS	6052
Korchek Technologies	5914
Kova International, Inc.	1655
KRONUS, Inc.	5222
KROS TEKNOLOJIK URUNLER A.S.	4450
Kurin, Inc.	4356
Kyowa Medex Co., Ltd.	525
LabMedica International	2
Labnovation Technologies, Inc.	5714
Labor Diagnostika Nord GmbH&Co. KG	2560
Labroots, Inc.	825
LabWare, Inc.	2404
Lampire Biological Laboratories, Inc.	4311
LasX /MicroMed Solutions	2814
Lathrop Engineering Inc.	2020
Leinco Technologies	3747
LeukoDx	1754
Leuze electronic, Inc.	1245
LGC	2149
LGP Consulting, Inc.	2061
LifeHealth, LLC	2160
Liferiver Bio-Tech (United States) Corp.	1514
LifeSign	1721
Linear Chemicals, S.L.U.	5108
Lite-On Technology Corporation	811
Liuyang Medical Instrument Factory	5724
Lohmann Precision Die Cutting	6057
LPS Industries, LLC	5418
LRE Medical, an Esterline Company	2249
LSI International Inc.	2754
Lumigenex	2858
Luminex Corporation	1838
LumiQuick Diagnostics, Inc.	623
LW Scientific	510
M-N-O	
M.A. Industries, Inc.	4253
Maccura Biotechnology	5829
MagArray, Inc.	2759
Magnolia Medical Technologies	1047
Magsphere Inc.	614
Maine Biotechnology Services	5218
Maine Standards Company	2254
Market Diagnostics International	1317
Martel Instruments Ltd.	1560
Maxim Biomedical, Inc.	5514
Mayo Medical Laboratories	1429
MBL International	2554
McKesson Corporation	615
MediaLab, Inc.	1717
MEDICA 2017/Messe Duesseldorf North America	3745
Medica Corporation	759
Medical Device Safety Service GmbH	1941
Medical Electronic Systems, LLC	1522
Medical Laboratory Evaluation	1913
Medical Research Network Ltd.	2154
MedicalLab Management Magazine	1022
Medix Biochemica	5415
MEDLAB SERIES	542
MEDTOX Diagnostics, Inc.	4406
Meizhou Cornely Hi-Tech Co. Ltd.	5519
membraPure GmbH	4501
Meridian Bioscience, Inc.	5739
Mesa Biotech	543
MH MEDICAL CO., LTD	5817
Michigan Diagnostics, LLC	1229
Microbiologics	618
Microbix Biosystems Inc.	1210
MicroDiscovery GmbH	4601
microLIQUID S.L.	2353
Micropoint Bioscience, Inc.	5410
Microscan	4456
MilliporeSigma	2039
MilliporeSigma	MR239
MilliporeSigma	MR243
MiniFAB	1450
Minitubes	1026
MK Fluidic Systems	2563
MLO-Medical Laboratory Observer	6
Moduline Systems, Inc.	927
Mokobio Life Science Corporation Beijing	747
Monobind Inc.	4150
Moss, Inc.	4332
MP Biomedicals	1011
MT Promedt Consulting GmbH	1425
My Inspection	4257
MyCartis	1359
Nanjing Liming Bio-products Co., Ltd.	620
nanoComposix	1149
Nano-Ditech Corporation	2517
Nantong Egens Biotechnology Co., Ltd.	904
Nantong Renon Laboratory Equipment Co., Ltd.	5708
Natech Plastics, Inc.	915
Natera, Inc.	640
National Institute of Standards and Technology (NIST)	911
National Research Council Canada	718
Neogen Corporation	3728
NeuMoDx Molecular	649
New England Small Tube	3133
NewScen Coast Bio-Pharmaceutical Co., Ltd.	5625
Nikon Instruments Inc.	3333
Ningbo Medical System Biotechnology, CO. Ltd.	6045
Ningbo ProWay Optics & Electronics Co., Ltd.	5610
Ningbo Purebio Biotechnology Co., Ltd.	5852
Nipro Medical Corporation	720
Nittobo America Inc.	2731
NOF America Corporation	523
Norgren, Inc.	1411
Nor-Lake Scientific	2927
Nova Biologics, Inc.	1950
Nova Biomedical Corporation	2339
Novatec Immundiagnostica GmbH	1345
Novolytic LLC	1460
NOWDiagnostics	1415
NSK Americas	1304
numares GROUP Corporation	956
Nupore Filtration Systems Pvt. Ltd.	1657
NVIGEN, Inc.	5600
Obelis Group	4354
Ocean NanoTech, LLC	738
Ochsner Health System	2812
Olympus America Inc.	3433
Olympus Controls	4352
Omega Diagnostics Group PLC	1418
Omnica Corporation	1613
OMNIPrint, Inc.	1150
ONESTEP LABORATORIES	2057
OnsiteGene, Inc.	5754
OPERON S.A.	5110
OPTI Medical Systems	1521
Opticon, Inc.	5546
opTricon GmbH	4701
Oranox Inc.	727
OraSure Technologies	3633
Orchard Software Corp.	1828
ORGENTEC - Corgenix	2216
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Orochem Technologies Inc.....	549
Ortho Clinical Diagnostics.....	3517
Owen Mumford.....	2831
OYC Americas, Inc.....	1014
Oyster Bay Pump Works, Inc.....	1624

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Pacific Die Cut Industries/ PDCI Medical.....	2354
Pacific Integrated Manufacturing, Inc.....	3759
Panion & BF Biotech Inc.....	540
Parker Performance Materials.....	1214
Parker Precision Fluidic Division.....	5552
Path-Tec.....	2854
Patient Impact Videos.....	10
PCL, Inc.....	1212
PDC Precision Die Cutting.....	1557
PEPperPRINT.....	655
Percorso Life Sciences.....	1755
Perfect Ease Biotech (Beijing) Co., Ltd.....	1517
PerkinElmer, Inc.....	653
Pharmasan Labs.....	1205
Pharmozyme Inc.....	514
Philosys.....	721
Planet Innovation Pty Ltd.....	1454
Plasma Services Group.....	826
Plastic Design Corporation.....	1361
Plexus.....	1414
PolyAn GmbH.....	4601
Polymed Therapeutics, Inc.....	1551
Polymedco, Inc.....	2928
PolyMicrospheres.....	3432
PorLab Scientific Co., Ltd.....	5616
Precise Automation.....	4458
Precision Biosensor Inc.....	2405
Precision Converting Solutions, LLC.....	1758
Precision for Medicine.....	5649
Premold Corp.....	1153
Primer Design Ltd.....	724
Proliant Biologicals.....	1146
Promega Corporation.....	642
Promega Corporation.....	MR351
Promenade Software, Inc.....	544
Proteometech Inc.....	1605
Psyche Systems Corporation.....	1603
Puritan Medical Products.....	2349
PZ CORMAY S.A.....	515
Qarad.....	1711
Qbiosens Ltd.....	5315
QIAGEN Lake Constance GmbH.....	3732
Qingdao Hightop Biotech Co., Ltd.....	1203
Quaero Life Science Co., Ltd.....	5617
Quansys Biosciences.....	1021
Quantimetrix Corporation.....	4326
Quartett GmbH.....	4700
Quest Diagnostics.....	5313
QuickPouch.....	1351
Quidel Corporation.....	1324
Quidel Corporation.....	MR247
Radiometer.....	2739
Randox Laboratories.....	3839
RapiGEN INC.....	553
RayBiotech Inc.....	2761
Rayto Life & Analytical Sciences Co, Ltd.....	1111
RAYTRED Biotech Co. Ltd.....	5702
RBC Bioscience Corp.....	631
R-Biopharm.....	1138
Redbud Labs.....	817
Reddot Biotech Inc.....	546
Rees Scientific Corp.....	1116
ReLIA Diagnostics Systems.....	5857
Repado.....	2813
Response Point of Care.....	2920
Retractable Technologies, Inc.....	2454
Richland Glass.....	919
RND Group, Inc., The.....	1847

Exhibit Hall Hours

Tuesday
9:30 am - 5:00 pm

Wednesday
9:30 am - 5:00 pm

Thursday
9:30 am - 1:00 pm

Roche Diagnostics.....	4606
Roche Diagnostics.....	MR321
Rockland Immunochemicals Inc.....	2822
Rocky Mountain Biologicals.....	749
Rotek Industries.....	5346
RR Mechatronics.....	6244
Runlab Labware Manufacturing Co., Ltd.....	5709
RURO, Inc.....	554

S-T-U-V

SA Scientific LTD.....	3629
Safecare Biotech (Hangzhou) Co., Ltd.....	619
Sagentia.....	2827
Sansure Biotech, Inc.....	5521
SARSTEDT.....	2139
SARSTEDT.....	MR343
Sartorius Stedim Biotech.....	1946
Savyon Diagnostics.....	957
Scantibodies Laboratory Inc.....	1925
SCC Soft Computer.....	3027
SCIENION US, Inc.....	1852
Scientific Device Laboratory, Inc.....	5916
Scientific Instrument Services.....	538
SCIEX.....	2619
Scimedx Corporation.....	2158
Scripps Laboratories.....	3532
SDIX, LLC.....	1025
Sebia, Inc.....	4419
Seegene, Inc.....	839
Sekisui Diagnostics LLC.....	3039
SensoScientific, Inc.....	949
Seracare Life Sciences, Inc.....	5453
Seraplex, Inc.....	6153
Shanghai Fosun Long March Medical Science Co. Ltd.....	1713
Shanghai Kehua Bioengineering Co., Ltd.....	1445
ShangHai Lu Xiangyi Centrifuge Instrument Co., Ltd.....	5710
Shanghai Perwin Packing Machinery Co., Ltd.....	5101
Shanghai Rongtai Biochemical Engineering Co., LTD.....	5517
Shanghai Ruiyi Biotech Co., Ltd.....	5613
Shanghai Ruk Bio-Tec Co., Ltd.....	5102
Shanghai Upper Biotech Pharma Co., LTD.....	5516
Shanghai Vascutech Diagnosis Co., Ltd.....	1705
Shenyang Academy of Instrumentation Science Co., Ltd.....	5618
Shenzhen Boomingshing Medical Device Co., Ltd.....	746
Shenzhen Dymind Biotechnology Co., Ltd.....	5606
Shenzhen Foreach Technology Co., Ltd.....	5620
Shenzhen Keyto Fluid Control Co., Ltd.....	5609
Shenzhen Lifotronic Technology Co., Ltd.....	2054
SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD.....	5239
Shenzhen Xilaiheng Medical Electronics.....	6053

Shenzhen YHLO Biotech Co., Ltd.....	1057
Shenzhen Zhonghe Headway Bio-Sci & Tech Co., Ltd.....	815
Shimadzu Scientific Instruments, Inc.....	5753
SHINJIN MEDICS INC.....	5700
Sichuan Orienter Biotechnology Co., Ltd.....	5619
Siemens Healthineers.....	MR447
Siemens Medical Solutions USA.....	4439
Siemens Medical Solutions USA.....	MR133
sifin diagnostics gmbh.....	4000
Singulex.....	1329
SiO2 Medical Products.....	2055
SJK Global LLC.....	5806
SK Telecom Co., Ltd.....	939
SLR Research Corporation.....	1525
SMC Biosolutions.....	1457
SMC Corporation of America.....	5049
SMEDIX.....	1123
Snibe.....	4845
SoftTech Health.....	5749
Sonics & Materials, Inc.....	1762
Spark Holland B.V.....	1761
Spartan Bioscience.....	2803
Sparton.....	1129
SpeedX Pty Ltd.....	5959
Spherotech, Inc.....	4154
SPINREACT, S.A.U.....	5007
STAC MEDICAL SCIENCE & TECHNOLOGY CO., LTD.....	5706
Staff Icons - Clinical Scientist Recruitment Division.....	947
SteriLance Medical (Suzhou), Inc.....	5611
STRATEC Biomedical AG.....	2549
Streck, Inc.....	4245
Sun Diagnostics, LLC.....	1803
Sunostik Medical Technology Co., Ltd.....	805
Sunquest Information Systems, Inc.....	5638
SurModics, Inc.....	5723
Suzhou Hybiome Biomedical Engineering Co. Ltd.....	5716
Symbient Product Development.....	1018
SYNABS.....	2312
Syntron Bioresearch, Inc.....	2411
Sysmex.....	4819
TaiDoc Technology Corp.....	1849
Taigen Bioscience Corporation.....	954
Taiwan Advanced Nanotech Inc.....	644
Taiwan Semiconductor Manufacturing Company, Ltd.....	6056
Taizhou Zenyon Medical Plastic Development Co., Ltd.....	5707
Tecan.....	4427
Tecan.....	MR439
Techcyte, Inc.....	2003
Technidata America Medical Software.....	2723
Teco Diagnostics.....	2050
Tecom Science Corporation.....	5510
TELCOR.....	5207
Tenet Healthcare.....	647
Tetracore, Inc.....	4815
The Binding Site, Inc.....	12
The Binding Site, Inc.....	1629
The Lee Company.....	2345
Therapak, a VWRCATALYST Service.....	2416
Thermo Fisher Scientific.....	4039
Thermo Fisher Scientific.....	MR225
Thermo Fisher Scientific.....	MR325
thinXXS Microtechnology AG.....	1419
TITAN BIOTECH, LTD.....	742
Toolbox Medical Innovations.....	1563
Topscien Instrument (Ningbo) Co., Ltd.....	714
Tosoh Bioscience.....	5429
TOYOBO CO., LTD.....	5106
TOYOBO Co., Ltd.....	530
Trina Bioreactives AG.....	2916
Trinity Biotech.....	3953
TrippNT.....	2852
TSS Technologies.....	2860
TTP plc.....	1658
TubeWriter.....	1311

UC Components, Inc.....	1558
UCLA Health System.....	2616
UCP Biosciences, Inc.....	1148
UNICO.....	641
Uniflex Healthcare.....	519
Universal Meditech Inc.....	4255
URIT Medical Electronic Co., Ltd.....	2611
US Department of State.....	1261
US Scientific.....	2459
Ustar Biotechnologies (Hangzhou) Ltd.....	1354
UTAK Laboratories, Inc.....	4444
V & P Scientific, Inc.....	2855
Valumax Protective Apparel Inc.....	2104
VEDALAB.....	1647
Vela Diagnostics USA, Inc.....	6157
Vietnam Biotech Joint Stock Company.....	5100
Viewics, Inc.....	2456
Viramed Biotech AG.....	526
Vircell S.L.....	5107
Viro-Immun Diagnostics GmbH.....	5200
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¹Buchan BW, Ginocchio CC, Manii R, Cavagnolo R, Pancholi P, et al. (2013) Multiplex Identification of Gram-Positive Bacteria and Resistance Determinants Directly from Positive Blood Culture Broths: Evaluation of an Automated Microarray-Based Nucleic Acid Test. PLoS Med 10(7): e1001478. doi:10.1371/journal.pmed.1001478.

²Walker T, Dumadag S, Lee CJ, et. al. Clinical impact of laboratory implementation of VERIGENE BC-GN microarray-based assay for detection of gram-negative bacteria in positive blood cultures. J Clin Microbiol 10.1128/JCM.00376-16.

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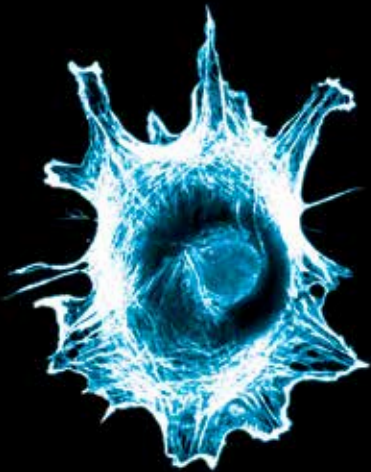
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Speeding Immunoassay Development - Key Parameters for Optimizing LodeStars Magnetic Beads. Properties and Performance in CLIA Automated Platforms that Improve Performance
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12:30 pm - 12:50 pm

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1:00 pm - 1:20 pm

Supporting Your Molecular Diagnostics Assay Development with OEM Commercial Supply Partnerships

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2:00 pm - 3:00 pm

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Connecting the Dots: Improving QC Strategy & Return On Investment
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Fast Forward Your Lab Productivity and Drive Precision Medicine
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6:00 pm

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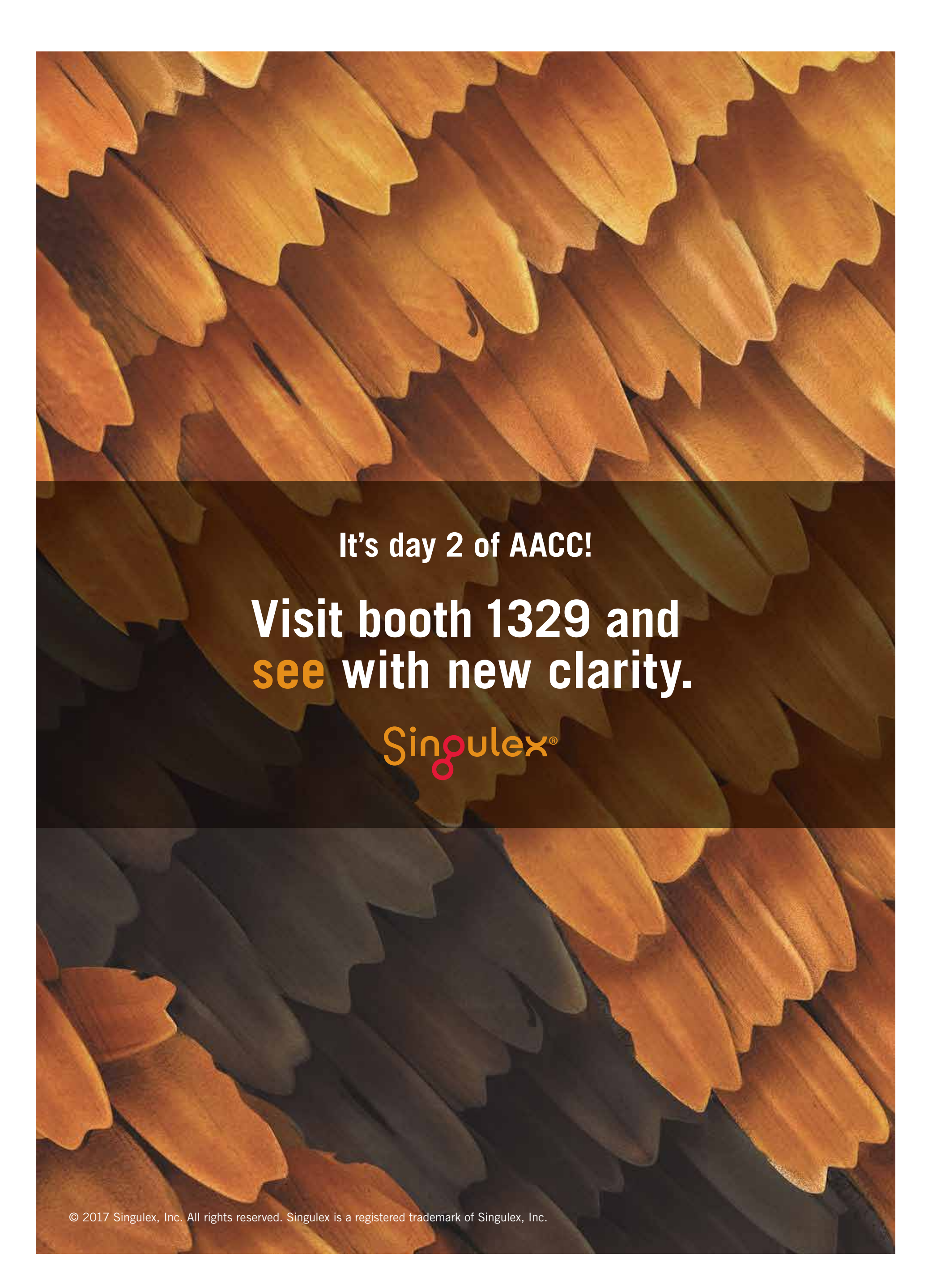


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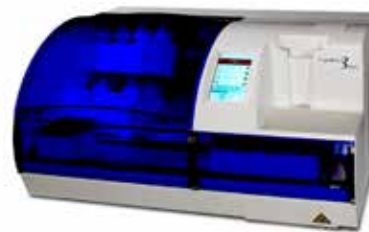
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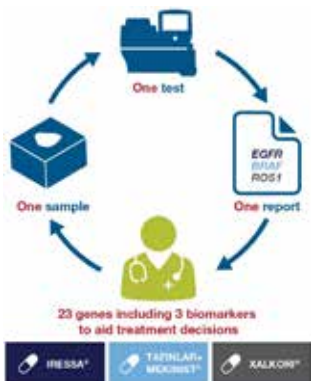
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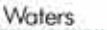
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