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JALA Special Issue Now Available Online

New Developments in Biosensing Technologies

CHICAGO – The Society for Laboratory Automation and Screening (SLAS) continues to celebrate its 20th year of scientific journal publishing with a special issue of the *Journal of Laboratory Automation (JALA)* on New Developments in Biosensing Technologies.

With the leadership of guest editor Xianting Ding, Ph.D., of the School of Biomedical Engineering, Institute for Personalized Medicine at Shanghai Jiao Tong University in Shanghai, China, this special issue presents 17 reports from innovators in China (including Hong Kong and Taiwan), Germany, Singapore, and the United States. It posits that advancements in technologies are enriching the application of biosensing devices and platforms for disease diagnosis, biological investigation, environmental monitor, food engineering and drug discovery; and that continued innovation will lead to inexpensive, environmentally-friendly, rapid biosensing systems that can be made readily available in developed, developing and underdeveloped nations.

The issue includes five notable reviews that address a wide spectrum of research interests, ranging from paper-based systems for point-of-care biosensing, label-free biosensing based on microarray platforms, methods for endotoxin detection, developments of portable biosensors and biosensors for monitoring airborne pathogens.

Original research reports share recent achievements in the biosensing domain for various applications, including biosensing for accurate identification of nucleic acids in low abundance, gold nanorods for intracellular delivery and cell apoptosis, identification and optimization of combinatorial glucose metabolism inhibitors in hepatocellular carcinomas, oxygen sensor for monitoring microbial cultures, an automated platform for culture dish handling and monitoring, biosensing for life cell with scanning ion conductance microscopy, a heat-driven nano-biosensing system, discussion of a spherical cell weighing method, single cell manipulation in microfluidic chips, and mesangial cell hypertrophy biomarker identification.

Plus, two technology briefs present interesting and innovative ideas for biosensing with lateral flow in leaf and biosensing in stacked paper networks.

JALA is one of two MEDLINE-indexed scientific journals published by the Society for Laboratory Automation and Screening (SLAS). Visit JALA Online at jla.sagepub.com. For more information about SLAS and its journals, visit www.slas.org/jala-jbs.

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The Society for Laboratory Automation and Screening (SLAS) is an international community of more than 15,000 individual scientists, engineers, researchers, technologists and others from academic, government and commercial laboratories. The SLAS mission is to be the preeminent global organization providing forums for education and information exchange and to encourage the study of, and improve the practice of laboratory science and technology. For more information, visit www.SLAS.org.

SLAS publishes two internationally recognized, MEDLINE-indexed journals, now in their 20th year of publication. **The Journal of Laboratory Automation (JALA)** and **Journal of Biomolecular Screening (JBS)** uniquely serve laboratory science and technology professionals who work primarily in life science R&D. Together, JALA and JBS address the full spectrum of issues that are mission-critical to this important audience, enabling scientific research teams to gain scientific insights, increase productivity, elevate data quality, reduce lab process cycle times and enable experimentation that otherwise would be impossible.

Specifically, **JALA** explores ways in which scientists adapt advancements in technology for scientific exploration and experimentation. In direct relation to this, **JBS** reports how scientists use adapted technology to pursue new therapeutics for unmet medical needs, including assay development, identification of chemical probes and target identification and validation in general.

Journal of Biomolecular Screening (JBS): 2013 Impact Factor 2.423. Editor-in-Chief Robert M. Campbell, Ph.D., Eli Lilly and Company, Indianapolis, IN (USA).

Journal of Laboratory Automation (JALA): 2013 Impact Factor 1.879. Editor-in-Chief Edward Kai-Hua Chow, Ph.D., National University of Singapore (Singapore).