

For Immediate Release:

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Journal of Laboratory Automation Names “The 2016 JALA Ten”

CHICAGO – The *Journal of Laboratory Automation (JALA)*, one of two rigorously peer-reviewed MEDLINE-indexed scientific journals published by SLAS (Society for Laboratory Automation and Screening), marks the beginning of its 21st year of publication by naming **The 2016 JALA Ten**.

“Each year, JALA seeks to highlight and honor the very best work of the year that will have a deep impact on how technology is used across a wide range of disciplines,” says JALA Editor-in-Chief Edward Kai-Hua Chow, PhD, of the Cancer Science Institute of Singapore, Department of Pharmacology, Yong Loo Lin School of Medicine, National University of Singapore.

While a number of areas of research will feel the impact of this year’s JALA Ten, one highlight of the collection is the diverse ways in which the honorees have advanced biological molecule detection and established foundations for tomorrow’s biosensors in life sciences research and medical diagnostics. Other areas of research highlighted this year are the advancement of technology toward customizable platforms for increased personalized clinical and research applications; improvements in automation of large-cargo intracellular delivery; and innovations in the use of inorganic and biomaterials in medical applications.

The 2016 JALA Ten honorees are:

From Michigan State University (USA)

Rapid, Electrical Impedance Detection of Bacterial Pathogens Using Immobilized Antimicrobial Peptides

Lillehoj, P.B.; Kaplan, C.W.; J. He, J.; et al.

J. Lab. Autom. **2014**, *19*, 42-49

From University of Michigan (USA)

Reversible Aptamer-Au Plasmon Rulers for Secreted Single Molecules

Lee, S.E.; Chen, Q.; Bhat, R.; et al.

Nano Lett. **2015**, *15*, 4564-4570

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From Nanyang Technological University (Singapore)

A Nanoparticle-Based Sensor Platform for Cell Tracking and Status/Function Assessment

Yeo, D.; Wiraja, C.; Chuah, Y.J.; et al.

Sci. Rep. **2015**, *5*, 14768. DOI: 10.1038/srep14768

From University of California, Los Angeles (USA)

Accelerated Wound Healing by Injectable Microporous Gel Scaffolds Assembled from Annealed Building Blocks

Griffin, D.R.; Weaver, W.M.; Scumpia, P.O.; et al.

Nat. Mater. **2015**, *14*, 737-44. DOI: 10.1038/nmat4294

From The Pennsylvania State University (USA)

A Reliable, Programmable Acoustofluidic Pump Powered by Oscillating Sharp-Edge Structures

Huang, P. H.; Nama, N.; Mao, Z.; et al.

Lab Chip. **2014**, *14*, 4319-4323

From Harvard University (USA)

A Cost-Effective Fluorescence Mini-Microscope with Adjustable Magnifications for Biomedical Applications

Zhang, Y. S.; Ribas, J.; Nadhman, A.; et al.

Lab Chip **2015**, *15*, 3661-3669

From the University of Southern California (USA)

Discrete Elements for 3D Microfluidics

Bhargava, K.C.; Thompson, B.; Malmstadt, N.; et al.

Proc. Nat. Acad. Sci. **2014**, *111*, 15013-15018.

From the University of California, Los Angeles (USA)

Massively Parallel Large Cargo Delivery into Mammalian Cells with Light Pulses

Wu, Y.-C.; Wu, T.-H.; Clemens, D. L.; et al.

Nat. Methods. **2015**, *12*, 439-444

The Pennsylvania State University (USA)

Slippery Wenzel State

Dai, X.; Stogin, B.B.; Yang, S.; et al.

ACS Nano. **2015**, *9*, 9260-9267

From the Univ. of North Carolina at Chapel Hill (USA) and North Carolina State University (USA)

Transformable Liquid-Metal Nanomedicine

Lu, Y.; Hu Q.; Lin, Y.; et al.

Nat. Comm. **2015**, *6*, 10066. DOI: 10.1038/ncomms10066

“This year’s JALA Ten honorees have and will continue to change the way research is performed and the way diseases are diagnosed and treated. Their work demonstrates the promise that science brings toward a better future,” says Chow.

Visit JALA Online at <http://jla.sagepub.com>. For more information about SLAS and its journals, visit www.slas.org/jala-jbs.

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SLAS (Society for Laboratory Automation and Screening) is an international community of more than 20,000 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 life sciences discovery and technology. For more information, visit www.SLAS.org.

SLAS publishes two internationally recognized, MEDLINE-indexed journals, now in their 21st year of publication. Together, **the Journal of Laboratory Automation (JALA)** and **Journal of Biomolecular Screening (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 develop and utilize novel technologies and/or approaches to provide and characterize chemical and biological tools to understand and treat human disease.

Journal of Biomolecular Screening (JBS): 2014 Impact Factor 2.423. Editor-in-Chief Robert M. Campbell, Ph.D., Eli Lilly and Company, Indianapolis, IN (USA).

Journal of Laboratory Automation (JALA): 2014 Impact Factor 1.879. Editor-in-Chief Edward Kai-Hua Chow, Ph.D., National University of Singapore (Singapore).