For Immediate Release:
January 23, 2017

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The 2017 *SLAS Technology* Ten: Translating Life Sciences Innovation

CHICAGO – Along with a new name, the February 2017 issue of *SLAS Technology* introduces a new annual feature that honors groundbreaking achievements in translating life sciences innovation. For the past 21 years, *SLAS Technology* (published previously as the *Journal of Laboratory Automation)* has provided a unique forum for the presentation of diverse new technologies that advance life sciences and biomedical research. This tradition continues with the first ***SLAS Technology* Ten,** celebrating the best of the great work published in this journal throughout the previous year. The collection represents achievements from nine countries – China, Finland, France, Germany, Japan, Sweden, Switzerland, UK and USA.

"From being able to move liquid with sound to dispense primary cells and DNA to microfluidic-based immunoassays, the **2017 *SLAS Technology* Ten** illustrate the ingenuity that is improving how patients are diagnosed and treated," says *SLAS Technology* Editor-in-Chief Edward Kai-Hua Chow, Ph.D., of National University of Singapore. "In this past year, we have had the opportunity to report on how 3D printing can empower researchers to rapidly develop the tools to impact a wide range of applications, including regenerative medicine and diagnostic assay development. This year's highlighted papers also continue to push the envelope of what is possible with automation, integrating new functions into high-throughput sample preparation and screening to further drive efficiencies in research."

SLAS is proud and appreciative that the authors of the **2017 *SLAS Technology* Ten** chose to share their outstanding work with this journal, contributing to its value as a hallmark and ever-evolving resource for translating life sciences innovation.

> **Precision Cancer Medicine in the Acoustic Dispensing Era: Ex Vivo Primary Cell Drug Sensitivity Testing** by Evgeny Kulesskiy, Jani Saarela, Laura Turunen, and Krister Wennerberg *(J. Lab. Autom.* **2016**, *21*, 27-36)
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> **Smart DNA Fabrication Using Sound Waves: Applying Acoustic Dispensing Technologies to Synthetic Biology** by Paulina Kanigowska, Yue Shen, Yijing Zheng, Susan Rosser, and Yizhi Cai *(J. Lab. Autom.* **2016**, *21*, 49-56)

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Automated High-Throughput Fluorescence Lifetime Imaging Microscopy to Detect Protein-Protein Interactions by Camilo Guzmán, Christina Oetken-Lindholm, and Daniel Abankwa *(J. Lab. Autom.* **2016**, *21*, 238-45)

Fully Automated One-Step Production of Functional 3D Tumor Spheroids for High-Content Screening by François Monjaret, Mathieu Fernandes, Eve Duchemin-Pelletier, Amelie Argento, Sébastien Degot, and Joanne Young *(J. Lab. Autom.* **2016**, *21*, 268-80)

Fully Automated Quantification of Insulin Concentration Using a Microfluidic-Based Chemiluminescence Immunoassay by Ping Yao, Zhu Liu, Steve Tung, Zaili Dong, and Lianqing Liu *(J. Lab. Autom.* **2016**, *21*, 387-93)

Standardized 3D Bioprinting of Soft Tissue Models with Human Primary Cells by Markus Rimann, Epifania Bono, Helene Annaheim, Matthias Bleisch, and Ursula Graf-Hausner *(J. Lab. Autom.* **2016**, *21*, 496-509)

Open-Source Wax RepRap 3-D Printer for Rapid Prototyping Paper-Based Microfluidics by J. M. Pearce, N. C. Anzalone, and C. L. Heldt *(J. Lab. Autom.* **2016**, *21*, 510-6)

Ultra-High-Throughput Sample Preparation System for Lymphocyte Immunophenotyping Point-of-Care Diagnostics by David I. Walsh III, Shashi K. Murthy, and Aman Russom *(J. Lab. Autom.* **2016**, *21*, 706-12)

Automated Device for Asynchronous Extraction of RNA, DNA, or Protein Biomarkers from Surrogate Patient Samples by Anna L. Bitting, Hali Bordelon, Mark L. Baglia, Keersten M. Davis, Amy E. Creecy, Philip A. Short, Laura E. Albert, Aditya V. Karhade, David W. Wright, Frederick R. Haselton, and Nicholas M. Adams *(J. Lab. Autom.* **2016**, *21*, 765-778)

Automated Patch Clamp Meets High-Throughput Screening: 384 Cells Recorded in Parallel on a Planar Patch Clamp Module by Alison Obergrussberger, Andrea Brüggemann, Tom A. Goetze, Markus Rapedius, Claudia Haarmann, Ilka Rinke, Nadine Becker, Takayuki Oka, Atsushi Ohtsuki, Timo Stengel, Marius Vogel, Juergen Steindl, Max Mueller, Johannes Stiehler, Michael George, and Niels Fertig *(J. Lab. Autom.* **2016**, *21*, 779-793)

To read the **2017 *SLAS Technology* Ten** scientific reports and listen to a podcast by *SLAS Technology* Editor-in-Chief Edward Kai-Hua Chow, visit *SLAS Technology* Online at http://journals.sagepub.com/toc/jlad/22/1. For more information about SLAS and its journals, visit www.slas.org/publications/scientific-journals.

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SLAS (Society for Laboratory Automation and Screening) *is an international community of more than 27,000 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 Discovery: *2015 Impact Factor 2.218. Editor-in-Chief Robert M. Campbell, Ph.D., Eli Lilly and Company, Indianapolis, IN (USA). SLAS Discovery (Advancing Life Sciences R&D) was previously published (1996-2016) as the Journal of Biomolecular Screening (JBS).*

SLAS Technology: *2015 Impact Factor 1.297. Editor-in-Chief Edward Kai-Hua Chow, Ph.D., National University of Singapore (Singapore). SLAS Technology (Translating Life Sciences Innovation) was previously published (1996-2016) as the Journal of Laboratory Automation (JALA).*