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JBS Special Issue Now Available Online

Screening by RNAi and Precise Genome Editing Technologies

CHICAGO – The Society for Laboratory Automation and Screening (SLAS) continues to celebrate its 20th year of scientific journal publishing with another special issue of the *Journal of Biomolecular Screening* (JBS) on Screening by RNAi and Precise Genome Editing Technologies.

Organized by three distinguished members of the JBS Editorial Board – Marc Bickle, PhD, of the Max Planck Institute of Molecular Cell Biology and Genetics (Germany); Hakim Djaballah, PhD, of Institut Pasteur Korea (South Korea); and Lorenz Martin Mayr, PhD, of AstraZeneca (UK) – this special issue demonstrates how RNAi is enjoying a revival of popularity and is increasingly being applied to discover and validate targets.

The 11 scientific reports in this special issue highlight some of the advances that have helped rehabilitate RNAi. For example, to assist readers in setting up cell-based screening in sophisticated cellular systems, several papers report methods to either efficiently optimize transfection protocol or access difficult cell types. Other papers offer strategies for detecting and evaluating off-target effects; the challenges of identifying the crucial genes regulated by microRNAs that are identified in RNAi screens; a novel esiRNA library targeting lncRNA and a compendium of lncRNA expression in 11 cell lines along with a method for localization using in situ; and an exploration of the potential of CRISPR technologies.

The JBS September 2015 table of contents features achievements and perspectives of authors in Germany, Ireland, Italy, UK and USA, including two that have been published open access and are available in full for free to all online readers.

- Electroporation Knows No Boundaries: The Use of Electrostimulation for siRNA Delivery in Cells and Tissues (***This manuscript is freely available in full to all online readers***)
- RNAi Screening with Self-Delivering, Synthetic siRNAs for Identification of Genes That Regulate Primary Human T Cell Migration
- Acoustic Liquid Handling for Rapid siRNA Transfection Optimization
- The Power Decoder Simulator for the Evaluation of Pooled shRNA Screen Performance (***This manuscript is freely available in full to all online readers***)

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- Versatile Viral Vector Strategies for Postscreening Target Validation and RNAi ON-Target Control
- A Multivariate Computational Method to Analyze High-Content RNAi Screening Data
- iScreen: Image-Based High-Content RNAi Screening Analysis Tools
- MicroRNA Screening and the Quest for Biologically Relevant Targets
- Targeting Human Long Noncoding Transcripts by Endoribonuclease-Prepared siRNAs
- High-Throughput Silencing Using the CRISPR-Cas9 System: A Review of the Benefits and Challenges
- A Perspective on the Future of High-Throughput RNAi Screening: Will CRISPR Cut Out the Competition or Can RNAi Help Guide the Way?

JBS is one of two MEDLINE-indexed scientific journals published by the Society for Laboratory Automation and Screening (SLAS). Visit JBS Online at jbx.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): 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).