For Immediate Release: July 8, 2022

Contact Information:

Jill Hronek, Director of Marketing Communications

Telephone: +1.630.256.7527, ext. 103

E-mail: jhronek@slas.org

***SLAS Discovery* July Issue Features a New Method of Detecting Metal Impurities in High-Throughput Screening – Available Now**

Oak Brook, IL – The July issue of *SLAS Discovery* is now available Open Access on ScienceDirect.

One challenge researchers often face when using high-throughput screening (HTS) to identify new therapeutic compounds is the high number of false positive hits resulting from metal contaminated compounds. When compounds containing metal impurities produce false positives, researchers must spend valuable time and resources testing these compounds rather than focusing on a smaller number of more auspicious hits. To help triage HTS hits, the authors of "High-throughput detection of metal contamination in HTS outputs" by Molyneux, et al. employ a method of using acoustic mist ionization mass spectrometry to identify eight different metal contaminants. This technique is more desirable than previous methods, which either fail to identify specific metals or require numerous steps that are not compatible with high-throughput methods. Access the article to learn how successful the method outlined is in identifying metal impurities compared to previous methods, and how AstraZeneca uses this technique of high-throughput detection.

The July issue of *SLAS Discovery* includes the following articles:

- Differential analyte derivatization enables unbiased MALDI-TOF-based high-throughput screening: A proof-of-concept study for the discovery of catechol-o-methyltransferase inhibitors
- A high-throughput screening assay for mutant isocitrate dehydrogenase 1 using acoustic droplet ejection mass spectrometry
- Identification of Two Non-Peptidergic Small Molecule Inhibitors of CBX2 Binding to K27 Trimethylated Oligonucleosomes
- A phenotypic screen for compounds that reverse cAMP-mediated suppression of T cell functions
- High-throughput detection of metal contamination in HTS outputs

Access to the July issue of *SLAS Discovery* is available at https://slas-discovery.org/issue/S2472-5552(22)X0007-5

*****

SLAS (Society for Laboratory Automation and Screening) is an international professional society of academic, industry and government life sciences researchers and the developers and providers of laboratory automation technology. The SLAS mission is to bring together researchers in academia, industry and government to advance life sciences discovery and technology via education, knowledge exchange and global community building.

SLAS Discovery: Advancing the Science of Drug Discovery, 2021 Impact Factor 3.341. Editor-in-Chief Robert M. Campbell, Ph.D., Twentyeight-Seven Therapeutics, Watertown, MA (USA)

###