

Select Publications

Dose Response and Drug Discovery

- The future of skin toxicology testing – three-dimensional bioprinting meets microfluidics.
Ng, W and Yeong, W, International Journal of Bioprinting, 5(2.1), 44–54. doi: 10.18063/ijb.v5i2.1.237
- An Alternative Direct Compound Dispensing Method Using the HP D300 Digital Dispenser.
Jones, R. et al., Journal of Laboratory Automation, 18(5), 367–374. doi: 10.1177/2211068213491094
- Preparation of a Compound Dilution Series.
Dreier, O. et al. Genetic Engineering & Biotechnology News 33, 22, 24. doi: 10.1089/gen.33.11.10
- Therapeutic efficacy of the small molecule GS-5734 against Ebola virus in rhesus monkeys.
Warren, T., Jordan, R., Lo, M. et al. Nature 531, 381–385 (2016). <https://doi.org/10.1038/nature17180>
- A multi-center study on factors influencing the reproducibility of in vitro drug-response studies.
Niepel, M. et al. bioRxiv 213553. doi: <https://doi.org/10.1101/213553>

Calibration Standards for Analytical Chemistry

Development of an automated and High throughput UHPLC/MS based workflow for cleaning verification of potent compounds in the pharmaceutical manufacturing environment.

Sheng et al. Journal of Pharmaceutical and Biomedical Analysis Volume 188, 5 September 2020, 113401.
doi: 10.1016/j.jpba.2020.113401

Enzyme Profiling

A PHGDH inhibitor reveals coordination of serine synthesis and one-carbon unit fate.

Pacold, M., Brimacombe, K., Chan, S. et al., Nat Chem Biol 12, 452–458 (2016). <https://doi.org/10.1038/nchembio.2070>

Antimicrobial Susceptibility Research

- Validation of Aztreonam-Avibactam Susceptibility Testing Using Digitally Dispensed Custom Panels.
Ransom, E. et al. Journal of Clinical Microbiology Mar 2020, 58 (4) e01944-19. doi: 10.1128/JCM.01944-19
- Prediction of ultra-high-order antibiotic combinations based on pairwise interactions.
Katzir, I. et al., PLoS Computational Biology, 2019. <https://doi.org/10.1371/journal.pcbi.1006774>
- Plasticity of the Mycobacterium tuberculosis respiratory chain and its impact on tuberculosis drug development.
Beites, T., O'Brien, K., Tiwari, D. et al. Nat Commun 10, 4970 (2019). <https://doi.org/10.1038/s41467-019-12956-2>

Patterning

- Chromatographic Separation and Visual Detection on Wicking Microfluidic Devices: Quantitation of Cu²⁺ in Surface, Ground, and Drinking Water.
Bandara, C. et al. Anal. Chem. 2018, 90, 4, 2594–2600. <https://doi.org/10.1021/acs.analchem.7b04087>
- The Use of Human 3D Reconstructed Airway Cultures for Tobacco Product Evaluation: Precision Low-Volume Exposures at the Apical Site.
Behrsing, H. et al. Applied In Vitro Toxicology Vol. 3, No. 1, 2017 Mary Ann Liebert, Inc. doi: 10.1089/aivt.2016.0028
- A Generalizable Single-Chip Calibration Method for Highly Quantitative SERS via Inkjet Dispense.
D'Apuzzo, F. et al. Anal. Chem. 2020, 92, 1, 1372–1378. <https://doi.org/10.1021/acs.analchem.9b04535>

