

Oak Brook, IL – The [SLAS Technology Editor's Top 10 for 2023](#) highlights technologies that address a broad range of unmet needs in both the laboratory and the clinic.

These top 10 articles include advances in microtechnology to improvements in molecular detection and chemical characterization through advances in microtechnology; how AI-driven technologies are enabling all aspects of life science and biomedical research and diagnostics and even clinics; and highlighting how automation continues to streamline complex high-throughput drug discovery and single-cell transcriptomic library preparation workflows.

SLAS Technology Editor-in-Chief Edward Kai-Hua Chow, Ph.D. (National University of Singapore), acknowledges the authors, editors and reviewers for their time and dedication in delivering fascinating research to *SLAS Technology* and its readers. The [SLAS Technology's Editor's Top 10 editorial](#) is published in Volume 28, Issue 1 of *SLAS Technology*.

Read the *SLAS Technology* Editor's Top 10 articles below:

[Comparison Between Franz Diffusion Cell and a novel Micro-physiological System for In Vitro](#)

By Ilaria Pulsoni, Markus Lubda, Maurizio Aiello, Arianna Fedi, Monica Marzagalli, Jörg von Hagen, Silvia Scaglione (*SLAS Technology* 2022, 27, 161-171)

[Sorting single-cell microcarriers using commercial flow cytometers](#)

By Joseph de Rutte, Robert Dimatteo, Sheldon Zhu, Maani M. Archang, Dino Di Carlo (*SLAS Technology* 2022, 27, 150-159)

[COVID-19 detection using chest X-ray images based on a developed deep neural network](#)

By Zohreh Mousavi, Nahal Shahini, Sobhan Sheykhivand, Sina Mojtahedi, Afrooz Arshadi (*SLAS Technology* 2022, 27, 63-75)

[Simple assessment of viability in 2D and 3D cell microarrays using single step digital imaging](#)

[Enabling high throughput drug discovery in 3D cell cultures through a novel bioprinting workflow](#)

By Martin Engel, Lisa Belfiore, Behnaz Aghaei, Margareta Sutija (*SLAS Technology* 2022, 27, 32-38)

[Quantitative determination of uric acid using paper-based biosensor modified with graphene oxide and 5-amino-1,3,4-thiadiazole-2-thiol](#)

By Yaw-Jen Chang, Ming-Che Lee, You-Chiuan Chien (*SLAS Technology* 2022, 27, 54-62)

[DeepImageTranslator: A free, user-friendly graphical interface for image translation using deep-learning and its applications in 3D CT image analysis](#)

By Run Zhou Ye, Christophe Noll, Gabriel Richard, Martin Lepage, Éric E. Turcotte, André C. Carpentier (*SLAS Technology* 2022, 27, 76-84)

[AI-driven laboratory workflows enable operation in the age of social distancing](#)

By Diego Marescotti, Chandrasekaran Narayanamoorthy, Filipe Bonjour, Ken Kuwae, Luc Graber, Florian Calvino-Martin, Samik Ghosh, Julia Hoeng (*SLAS Technology* 2022, 27, 195-203)

[A Biomimetic High Throughput Model of Cancer Cell Spheroid Dissemination onto Aligned Fibrillar Collagen](#)

By Hossam Ibrahim, Stephen D. Thorpe, Michael Paukshto, Tatiana S. Zaitseva, Wolfgang Moritz, Brian J. Rodriguez (*SLAS Technology* 2022, 27, 267-275)

[Automation enables high-throughput and reproducible single-cell transcriptomics library preparation](#)

By David Kind, Praveen Baskaran, Fidel Ramirez, Martin Giner, Michael Hayes, Diana Santacruz, Carolin K. Koss, Karim C. el Kasmi, Bhagya Wijayawardena, Coralie Viollet (*SLAS Technology* 2022, 27, 135-142)

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- Drug delivery
- Diagnostics
- Biomedical and molecular imaging