Enabling Technology in Cell-Based Therapies: Scale-Up, Scale-Out or Program In-Place

By Guest Editors Christopher Puleo, PhD, Brian Davis, PhD, Reginald Smith, PhD, and Nichole Wood, PhD, of GE Global Research US

Proposals (abstracts) are now being accepted for original research reports, reviews or technology briefs about technologies that are enabling the translation of cell-based therapies. Many new cell-based therapies in clinical and industrial pipelines have potential to not treat, but cure disease. However, these cellular therapies are complex and sensitive to the environment and process conditions used during their manufacture. New technologies may speed translation or decrease cost of manufacturing by improving methods to capture, separate, modify, expand, screen and stabilize cells. In parallel, there are new strategies that aim to provide directed administration of the therapeutic cells or eliminate the need for ex vivo expansion and processing all together. This special issue will highlight and explore new enabling technologies being used in the translation of cell-based therapies. Areas of interest include but are not limited to:

Technologies for Cell Manufacturing Automation (methods to improve or replace manufacturing components or novel systems that benefit from dramatic changes to the manufacturing workflow)

Technologies for Clinical Automation and Cell Administration (ported delivery of cells to specific tissues or other methods of directing cells to anatomic locations)

Technologies for In Vivo Programming of Therapeutic Cells (use of biomaterial scaffolds to recruit and prime dendritic cells in vivo or methods to directly screen and characterize cell function in vivo without the need to extract blood or tissue samples from the patient)

Submit your abstract before June 1, 2017

1. Submit a title and abstract (up to 500 words) as an MSWord document/attachment to nhallock@slas.org. Please refer to the SLAS Technology Instructions for Authors at www.slas.org/publications/scientific-journals/author-instructions.

2. Include SLAS Technology Special Issue / CELL in the subject line of your e-mail.

3. Include your name, affiliation and contact info in the text of the e-mail and in your MSWord document.

Invited authors will be notified by June 10, 2017. Final manuscripts and related materials will need to be completed and submitted by Sept. 1, 2017. All submitted articles will be subject to peer-review to ensure scientific rigor, clarity of expression and integration with other contributions in the SLAS Technology Special Issue. Submissions from SLAS members and non-members are welcome.

Questions? Please e-mail nhallock@slas.org or call +1.630.256.7527, ext. 106.