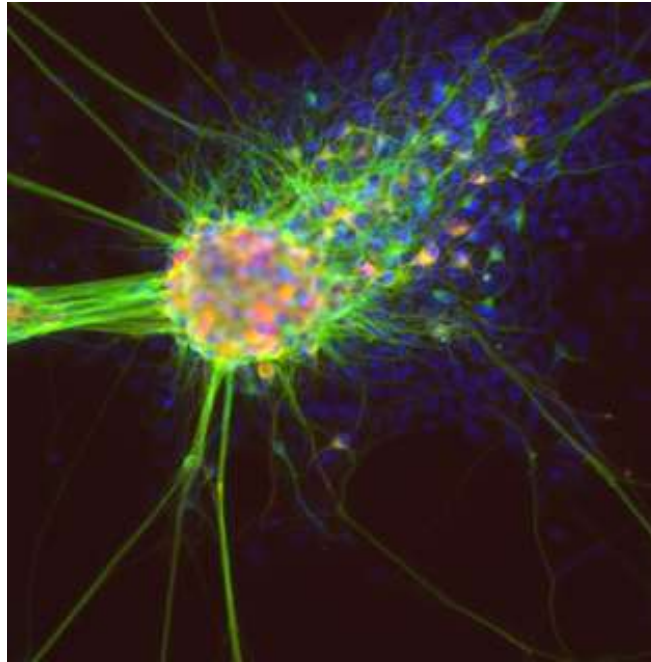


California State University, Fresno
Presented by the Bridges to Doctorate Program with UC Merced

GMP-Compatible Robotic Cell Expansion, Multi-Lineage Directed Differentiation, and Translational Application of Human Pluripotent Stem Cells



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Friday, April 6, 3:00 PM
Science 2, room 109

Recent advances in stem cell technology have given scientists the ability to produce induced-pluripotent stem cells (iPSCs) by reprogramming adult somatic cells into embryonic-like stem cells. iPSCs have the potential to differentiate into any cell type of the human body, making them particularly useful for disease modeling, drug discover, toxicity analysis and regenerative medicine. However, the lack of robust, scalable and standardized protocols for the maintenance and differentiation of iPSCs have created major challenges for their many downstream applications. The overall goal of the Stem Cell Translational Laboratory at the National Center for Advancing Translational Sciences (NCATS) is to address some of these challenges to accelerate translation of iPS cell technology into clinical applications. This work will demonstrate how high-throughput technologies can help solve long-standing scientific problems and translate iPS cell technology more efficiently for pre-clinical and clinical use.

If you need a disability-related accommodation or wheelchair access, please contact Lindasue Garner at the Department of Biology at 278-2001 or e-mail lgarner@csufresno.edu (at least one week prior to event).