OPTIMIZE PROTOCOLS & REDUCE CELL CULTURE VARIABILITY

With Hands-On Training

STEMCELL Technologies provides a range of training services that cover different cell culture techniques and research applications, offer tips and tricks for protocol optimization, and present ways to reduce variability across experiments. Courses are delivered either online or in-person at several locations throughout the year.

Why Learn From Us?

KNOWLEDGEABLE. Learn firsthand from our product scientists and protocol specialists.

PERSONALIZED. Low trainer to trainee ratio allows for tailored instruction, one-on-one interaction, and comprehensive post-training support.

TECHNICAL. Over half of every course is dedicated to hands-on laboratory techniques.

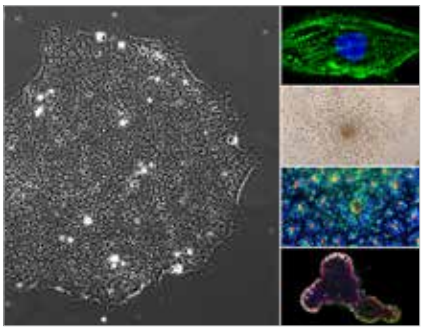
CONVENIENT. Courses are hosted in several locations worldwide with multiple sessions per year, or, our trainers can come to you.

2019-2020 Course Schedule

HUMAN PLURIPOTENT STEM CELL (HPSCS) COURSES	DATE	LOCATION	CATALOG #
Reprogramming, Maintenance, and Differentiation of hPSCs Towards (Select One Topic): • Cardiomyocytes • Hematopoietic progenitor cells • Neural cell types including cerebral organoids • Intestinal organoids	October 8 - 10, 2019	Leiden, the Netherlands	00223NL.2
	March 17 - 19, 2020	Cambridge, United Kingdom	00223UK.3
	April 22 - 24, 2020	Vancouver, Canada	00223.4
HEMATOPOIETIC STEM & PROGENITOR CELL COURSES	**DATE**	**LOCATION**	**CATALOG #**
Standardization of the Hematopoietic Progenitor Assay	On-Demand	Vancouver, Canada	00215.3
	February 4 - 6, 2020	Cambridge, United Kingdom	00215UK.2
	March 26 - 27, 2020	Dresden, Germany	00215GER.3
Applications of the Hematopoietic Progenitor Assay	On-Demand	Vancouver, Canada	00217
OTHER PRIMARY CELL COURSES	**DATE**	**LOCATION**	**CATALOG #**
Human Airway Epithelial Cells	On-Demand	Vancouver, Canada	00218
Mouse Intestinal Organoids: Virtual	On-Demand	Online	00261
Mouse Intestinal Organoids: In-Person	October 22 - 23, 2019	Cambridge, United Kingdom	00262
	March 31 - April 1, 2020	Cambridge, United Kingdom	
	On-Demand	Vancouver, Canada	

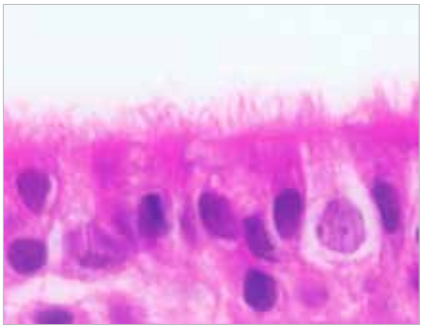
To register, visit **www.stemcell.com/education** or email **education@stemcell.com**.

Course Overviews



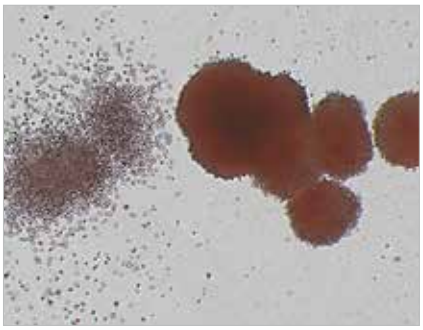
Reprogramming, Maintenance, and Differentiation of Human Pluripotent Stem Cells (Catalog #00223)

This three-day course covers the techniques on reprogramming somatic cells to induced pluripotent stem (iPS) cells, maintaining them in mTeSR™1, the most widely published feeder-free maintenance medium for hPSCs, and differentiating them towards your cell type of interest. Participants can choose from the following differentiation topics: cardiomyocytes, hematopoietic progenitor cells, neural cell types including cerebral organoids, or intestinal organoids.



Human Airway Epithelial Cells (Catalog #00218)

This two-day course covers the culture of human airway epithelial cells using the air-liquid interface (ALI) system. This system promotes extensive mucociliary differentiation of human airway epithelial cells to form a pseudostratified epithelium with morphological characteristics similar to those observed in the human airway in vivo. Participants will learn to expand primary cells in PneumaCult™-Ex and PneumaCult™-Ex Plus Media, establish ALI cultures with PneumaCult™-ALI Medium, and perform downstream assays.



Standardization of the Hematopoietic Progenitor Assay (Catalog #00215)

In this two-day course, participants working with clinical cord blood, mobilized peripheral blood, or human bone marrow samples will gain expertise in enumeration of hematopoietic progenitor cells using MethoCult™ media. Participants will also be introduced to STEMvision™, an instrument designed for imaging and counting hematopoietic colonies.

Applications of the Hematopoietic Progenitor Assay (Catalog #00217)

In this three-day course, participants will focus on hematopoietic progenitor cell assays for human, mouse, and rat samples, with an emphasis on toxicity testing and drug development. Learn how to design in vitro and in vivo assays and how to evaluate the effect of compounds on blood and bone marrow using mouse models.

Mouse Intestinal Organoids: Virtual (Catalog #00261)

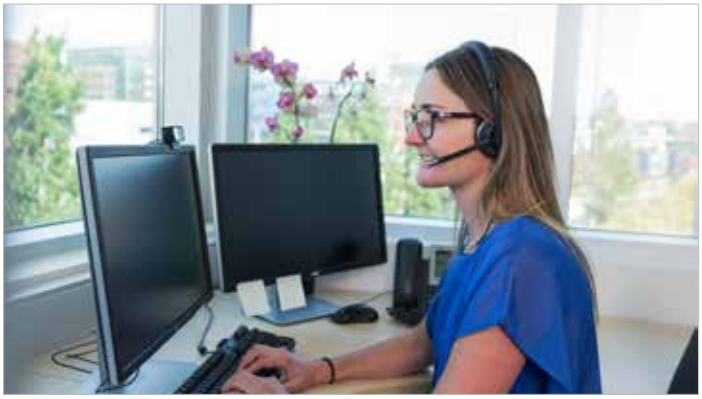
This online course covers the techniques to culture mouse intestinal organoids in IntestiCult™ Organoid Growth Medium (Mouse). Gain access to lectures and step-by-step procedural videos where scientists demonstrate the protocol for growing and maintaining mouse intestinal organoids. Includes a Starter Kit containing mouse intestinal organoids and reagents to start your own cultures.

Mouse Intestinal Organoids: In-Person (Catalog #00262)

This two-day course provides a comprehensive overview of the mouse intestinal organoid culture workflow. Learn to establish cultures from mouse small intestine and colon and how to maintain them in IntestiCult™ Organoid Growth Medium (Mouse). Participants will also gain experience with performing downstream assays.

Would You Like to Standardize a Technical Procedure Within Your Own Facility?

Our trainers will come to you! Custom training packages can be created for your facility. A Technical Specialist will provide personalized, hands-on training using your own cultures.



Need Immediate Technical Assistance?

STEMCELL Technologies Product and Scientific Support is available to answer your questions and troubleshoot your protocols. Call 1-800-667-0322 or contact techsupport@stemcell.com or visit **www.stemcell.com** for live chat.