



Basics of 3D Cell Culture – Two Days Hands-On Training Course

Date: February 21 & 22, 2019

Location: 3D Cell Culture Core (3D3C) Facility, BRK2087, Birck Nanotechnology Center, Purdue University

Course Fee: \$350 per person

Who should attend:

Anybody who wants to learn about the fundamentals of 3D cell culture

Activities: Lecture, Discussions, Demonstrations, Hands-on Training

Day One	AM	Lecture (1.5h): Basics of 3D Cell Culture Demonstration (1.5h): Set up of 3D cell cultures using drip method and thick embedding method for spheroid-like formation
	PM	Hands-On Practical (3h) <ul style="list-style-type: none">• Observation of 3D cultures by microscopy• Coating of culture vessels with hydrogel type of matrix• Set up of 3D drip culture• Set up of thick embedding culture• Medium change with hydrogel
Day Two	AM	Q & A (1h) Demonstration (2h): Dislodging multicellular structures and preparation for immunolabeling
	PM	Hands-On Practical (3h) <ul style="list-style-type: none">• Dislodging multicellular structures using enzymes that degrade the matrix• Preparation of frozen blocks of 3D culture for further analysis (histology, immunolabeling , FISH) Q & A and Conclusion (1h)

Prerequisites: Purdue REM biosafety training and blood borne pathogen training; sufficient knowledge in basic cell culture techniques or 3D3C Cell Culture Basics training workshop

Class Size: Six participants (supervised by two trainers)

Contact for question and registration: Dr. Tim Kwok, Facility Manager, 3D Cell Culture Core (3D3C) Facility (kwokt@purdue.edu, 765-494-6697)

Registration deadline: February 1, 2019