



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

**Date:** October 26 & 27, 2017

**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<br>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"><li>• Observation of 3D cultures by microscopy</li><li>• Coating of culture vessels with hydrogel type of matrix</li><li>• Set up of 3D drip culture</li><li>• Set up of thick embedding culture</li><li>• Medium change with hydrogel</li></ul> |
| Day Two | AM | Q & A (1h)<br>Demonstration (2h): Dislodging multicellular structures and preparation for immunolabeling                                                                                                                                                                                                   |
|         | PM | Hands-On Practical (3h) <ul style="list-style-type: none"><li>• Dislodging multicellular structures using enzymes that degrade the matrix</li><li>• Preparation of frozen blocks of 3D culture for further analysis (histology, immunolabeling , FISH)</li></ul> 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:** October 6, 2017