



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

**Date:** October 11 & 12, 2018

**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	<b>Lecture (1.5h): Basics of 3D Cell Culture</b> <b>Demonstration (1.5h): Set up of 3D cell cultures using drip method and thick embedding method for spheroid-like formation</b>
	PM	<b>Hands-On Practical (3h)</b> <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	<b>Q &amp; A (1h)</b> <b>Demonstration (2h): Dislodging multicellular structures and preparation for immunolabeling</b>
	PM	<b>Hands-On Practical (3h)</b> <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> <b>Q &amp; A and Conclusion (1h)</b>

**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:** September 21, 2018