

# INVITED SPEAKERS



**Dr. Glauco Souza**, Director of Global Business Development and Innovation, Greiner Bio-One, and Adjunct Assistant Professor, University of Texas Health Science Center, Houston, is a co-inventor of the magnetic 3D cell culture bioprinting. His work has been published in *Nature Nanotechnology*, *PNAS*, *Nature Protocols*, and *Nature Reviews Cancer*.



**Dr. Anna Weichert** is an imaging specialist and science consultant with BioTek Instruments. She has a PhD in Biology from Johannes Gutenberg University Mainz, Germany, and postdoctorate from Tanz Centre for Research in Neurodegenerative Diseases, Toronto. She is an expert on microplate detection, microscopy (confocal, live cell, and 2-photon), and image analysis.

## AGENDA

**Location:** OICR, 5 floor, 5-20/21

**Date:** July 24, 2019 | 2 - 3:30 p.m.

**Facilitator:** Dr. Vanya Peltekova, Lead, BioLab Operations, OICR

**2 – 3 p.m.**

**Magnetic 3D cell (m3D) bioprinting: *in vitro* spheroid platform for rapid, high-throughput drug screening**

*Dr. Glauco Souza, Director of Global Business Development and Innovation, Greiner Bio-One*

An overview of the Greiner Bio-One on their innovative magnetic nanoparticle platform that combines specialized high-density microtiter plates and gold nanoparticles for fast generation of 3D spheroid or organoid structures and its use for drug screening.

**3 – 3:30 p.m.**

**3D cell culture and imaging solutions by BioTek**

*Dr. Anna Weichert, Imaging Specialist, BioTek Instruments*

Imaging and analysis of 3D cancer cell models for drug screening are challenging due to cell aggregations, sample thickness and limitations for time-sensitive kinetic assays. Scientists from BioTek will discuss Lionheart FX, Cytation, BioSpa 8, and software for visualization and accurate image analysis of 3D cell cultures.