

# Agilent Cell Analysis Seminar and Workshop at Tyrolean Cancer Research Institute

February 20, 2020 | Innsbruck

## Measuring Metabolic Engines and Fuels with the Agilent Seahorse XF Analyzer

Learn about Agilent's new functional, kinetic, cell based assays targeting key disease areas and microbial analysis. Metabolism is the key to understanding cell function

## EVENT DETAILS

### Host

EXTRO-Lab, Dept. of Therapeutic Radiology and Oncology (PD Dr. Ira-Ida Skvortsova)

### Presenter

Dr. Daniel Gebhard, [daniel.gebhard@agilent.com](mailto:daniel.gebhard@agilent.com)  
Product Specialist, Cell Analysis, Agilent

### Location:

Medical University of Innsbruck  
Tyrolean Cancer Research Institute,  
Innrain 66, G0

### Date/Time:

Thursday, 20.02.2019, 9:00 – 14:45

### Please Register online Before February 13:

<https://seahorseinfo.agilent.com/acton/fs/blocks/showLandingPage/a/10967/p/p-01a3/t/page/fm/0>

## IMPORTANT

If you are interested to join one of the wet-lab sessions, please additionally contact Ira-Ida Skvortsova [Ira.Skvortsova@i-med.ac.at](mailto:Ira.Skvortsova@i-med.ac.at)

In living cells, most of the energy produced is derived from three fuel sources: glucose, glutamine, and fatty acids. Mitochondrial access to these fuels impacts a wide variety of biological processes. Use the Agilent Seahorse XF Analyzer to:

- Identify fuel dependencies to uncover cancer cell vulnerabilities.
- Explore how fuel preferences lead to cell fate decisions for differentiation and immune cell activation.
- Determine whether/how cells can adjust fuel oxidation to match nutrient availability while meeting energy demand.
- Distinguish metabolic adaptations due to genetic changes vs. those that take place due to nutrient deprivation.

## AGENDA

### Wet-Lab

9:00 – 11:00 Wet-Lab

### Seminar

11:00 – 11:30 Introduction to the Technology

11:30 – 12:00 A Novel XF Assay to Assess Cellular ATP Kinetics

12:00 – 13:00 Lunch Break

13:00 – 13:30 Revealing Modes of Action with Isolated Mitochondria / Permeabilized Cells

13:30 – 13:45 Soluble Sensors for OCR and ECAR Measurements in Plate Readers

13:45 – 14:45 Seahorse Data Analysis

This information is subject to change without notice.

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