

Introductory XF Training Agenda

Program Highlights:

Course starts at 8:30 am on day 1 and ends at 3:30 pm on day 2

Day 1

Overview of Mitochondrial Bioenergetics and Metabolism

What do OCR and ECAR mean in terms of cellular biochemistry and function?

Introduction to the XF Analyzer Hardware

General description of subsystems and Instrument setup

Basics of the XF Software

Navigating the XF Reader and using the Assay Wizard to design experiments

Lab Workshop # 1: Using the XF technology to optimize cell seeding density and determine mitochondrial uncoupling

General skills learned include basic instrument operation, cartridge compound loading, media preparation, calibration procedures, etc.

Lab Workshop # 2: Seeding Cells in the XF Plates

Trainees will be taught the specifics of cell seeding in XF plates and the importance of this technique will be discussed

XF Data Analysis I

Discussion of analysis tools in the XF Reader Software

Dinner at a fine dining restaurant

Day 2

Cellular Aspects of XF Assay Setup

Discussion of key items to ensure XF Assay success

XF Data Analysis II

Discussion of analysis tools in the Excel data file such as AUC, stats, normalization, averaging multiple data files, etc.

Workshop I: Analyze data from day 1 experiment

Determine the optimal cell seeding density and response to compounds

Workshop II: Bioenergetic Profile

Determine the different parameters such as basal respiration, spare capacity, coupling efficiency and non-mitochondrial respiration from a provided data set

Be a Good Seahorsian: Play a fun game and graduate from the course!

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