Measuring Metabolic Engines and Fuels

with the Agilent Seahorse XF Analyzer

June 28, 2018

MRC Research Centre, Addenbrookes

Seminar Room 2, School Of Clinical Medicine

New Users Introduction

New ATP rate Assay

New Automated Normalisation

Agenda:

Thursday, June 28, 2018

09.30 **Seahorse, Old & New**

10.30 **User presentations**

Fay Allen: Investigating Mitochondrial Metabolism Using Rapidly Isolated Functional Mitochondria from Tissue

Luca Peruzzotti-Jametti: Assessing macrophage metabolism after stem cell co-culture

Guillaume Bidault: SREBP1 and the de novo lipogenesis control macrophages alternative activation.

Dan Crooks: Analysis of the respiratory chain and mitochondrial metabolism in UOK271, a unique patient-derived fumarate hydratase-deficient tumor cell line

12:00 – 13:00 **Lunch**

13.00 – 16:30 **Wet Lab (Very Limited attendees)**

Kindly sponsored and supported by Christian Frezza

FREE WORKSHOP

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.

Using the Seahorse XF Analyzer you can:

- 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.
- Identify fuel dependencies to uncover cancer cell vulnerabilities.
- Explore how fuel preferences lead to cell fate decisions for differentiation and immune cell activation.

Limited attendees!
Please contact **Nick Howe**
nick.howe@agilent.com
for registration

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