Welcome to the Newsletter for the Faculty of Medical Sciences Scientific Facilities

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The Flow Cytometry Core Facility (FCCF) now offers metabolic measurement capabilities with the Agilent Seahorse systems.

From April 2017, the FCCF will provide the Agilent Technologies “Seahorse XF” metabolic analyser systems. Seahorse XF technology measures oxygen consumption rate (OCR) and extracellular acidification rate (ECAR) at intervals of approximately 5-8 minutes. OCR is an indicator of mitochondrial respiration, and ECAR is largely the result of glycolysis thus providing information on two key metabolic processes in a variety of cell types and culture conditions.

There are three systems available across the University:

- An **XF96 Seahorse Analyser** (capable of measuring 96 individual samples simultaneously) located in the FCCF at the iCFL, room B110
- Another **XF96 system** located in the Medical School FCCF lab, room M2.099
- An **XF24 system** located at the Campus for Aging and Vitality

All systems have been added to the FCCF **booking calendar system** and are available for use. The FCCF will provide essential consumable items at a cost as well as full assay support if required.

As part of the support process, the FCCF would also like to welcome their newest recruit, Dr Satomi Miwa. Satomi has several years of experience with the Seahorse technology and will be a valuable asset to the FCCF team.

Please get in touch for further information: fccf@ncl.ac.uk

www.ncl.ac.uk/medicalsciences/research/facilities/
Single Cell Unit Research Day

Wednesday 26 April 2017, 12.00 - 17.00, David Shaw Lecture Theatre

A half-day event showcasing the research being funded by the Newcastle University Single Cell Unit Awards, and a forum for discussion on the technologies available and how they may be applied to research questions.

There will be presentations from the award recipients from 2016 and 2017, as well as a briefing session about what the internal scheme aims to fund, and the timelines of the next call.

View the Programme and Register

Find out more about NUSCU

http://research.ncl.ac.uk/singlecell/

Electron Microscopy & Bio-Imaging: Working with Business

Our Electron Microscopy and Bio-Imaging Facilities feature in a short video case study, along with local company QuantumDX, demonstrating one of the many ways in which external businesses are engaged with the University.

Watch the video here

Further information:

• Electron Microscopy Research Services
• Bio-Imaging Unit
• QuantumDX
• Accessing University Facilities

www.ncl.ac.uk/medicalsciences/research/facilities/
Facilities Events: Re-Cap

March was a busy month, as we hosted our annual Scientific Facilities Conference. This was followed by Gatan’s 3View User Meeting, hosted by our EM Facility, which brought together delegates from across Europe and beyond.

This year’s Practicalities... conference was a huge success, and we would like to thank all our delegates, speakers, poster presenters, and the event sponsors whose support enables us to run the conferences each year.

Congratulations to the Poster Prize winners: Amy Vincent, Ricardo Gouveia and David Chisholm, and congratulations to Lucy Gee for winning the Sponsor Passport prize draw!

The results of our feedback surveys confirm that we are continually improving the Scientific Facilities conferences: this year, 93% of people rated the conference as good or excellent (and 57% overall rated it as excellent).

“The main thing I like about this event is that it is about practicalities... The talks focus on how to best perform techniques, rather than just showing data. I think this is a very important aspect that gets overlooked in many other conferences”.

Watch this space for details of next year’s conference!

Bioinformatics UK Core Facilities Event

4-5 July 2017, Great North Museum, Newcastle upon Tyne

The Bioinformatics Support Unit at Newcastle University, is organising the first Bioinformatics UK Core Facilities Meeting. The event is designed to kick-start a regular meeting of staff from Bioinformatics Facilities from across the UK, with invited speakers and industry representation.

For further information, including sponsorship opportunities:

- Please visit bsu.ncl.ac.uk/ukbcf/
- Or contact Simon.Cockell@newcastle.ac.uk