

ANZMAG NEWS - JUNE 2016

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Dear all,

Welcome to the latest ANZMAG e-newsletter for 2016. I hope you enjoy the news this month.

GRANTS, FELLOWSHIPS, AWARDS AND JOBS

Applications for the next round of the **Australian Antarctic Science Program** applications are now open online at <http://www.antarctica.gov.au/science/information-for-scientists> if you have a cool project (sorry).

The next review of applications for the **veski** innovation fellowships will be held in July 2016. Applications should be uploaded via <http://www.veski.org.au/fellowships?q=vif> by **14th July**.

Applications are still open for the **Endeavour Scholarships & Fellowships** (which provide opportunities for Australians to undertake study or research overseas and for overseas citizens to do the same in Australia). Applications close on the **30th June**. <https://internationaleducation.gov.au/Endeavour%20program/Scholarships-and-Fellowships/Pages/default.aspx>

For all chemists, the **Royal Australian Chemical Institute** has a whole host of awards open for nominations. Please see <https://www.raci.org.au/events-awards/awards> for the details.

Many magnetic resonance related related jobs can be found at <http://www.unijobs.com.au/>, www.seek.com.au, <http://www.nature.com/naturejobs/science/>, <http://jobs.newscientist.com/>, www.jobs.ac.uk, <http://www.findaphd.com/> and www.findapostdoc.com

SECOND-HAND AGILENT/VARIAN GEAR OPTIONS

After recently making enquires about autosamplers for our Agilent NMR spectrometer, John Ryan (from Agilent) kindly pointed out that there is now a growing market in second-hand Agilent/Varian gear and provided the following options that it can be found on.

<http://ietltd.com/>
<http://www.labx.com/>
<http://www.kitmondo.com/>
<http://www.spin-doc.net/>
<http://www.used-line.com/>

AUSTRALIAN NATIONAL DEUTERATION FACILITY

The National Deuteration Facility can make deuterated proteins, biopolymers, nucleic acids and small organic molecules such as lipids, phospholipids, sugars, surfactants, aliphatic hydrocarbons and aromatic, heterocyclic compounds. Double and triple labeling of proteins with both deuterium and ¹³C and/or ¹⁵N is also available. Access to the NDF is usually merit-based (see <http://tinyurl.com/jb3ojl2>) but commercial options are available in some cases. (www.ansto.gov.au/ResearchHub/Bragg/Facilities/NationalDeuterationFacility/)

SOFTWARE CORNER

iNMR first appeared on the scene in 2006 as a general purpose NMR processing application, the first one specific for Mac OS X. Today you can find many alternative NMR applications that run on Mac OS X, some work very well, some are ported over from other operative systems such as Windows and still sport the original interface. Other alternatives are written in Java, take a lot of memory and run slowly. iNMR claims to be the only native Mac OS X application, written with the Macintosh in mind. I'm not sure on that, but you can get the full version at <http://www.inmr.net/> and the lighter version iNMR reader at <http://store.mestrelab.com/store/inmr-reader.html> - it's quite good.

EasySpin is a MATLAB toolbox for simulating and fitting a wide range of Electron Paramagnetic Resonance spectra. It runs on Windows, Linux and Mac, and is free <http://www.easyspin.org/> It looks like quite a nice piece of kit.

MRicro is an app for the iPad that can view medical images such as magnetic resonance imaging (MRI) and computerized tomography (CT/CAT) scans. It can show 2D slices, 3D slices as well as graphs for 4D data (for example, changes over time observed on functional MRI scans). See more at <https://itunes.apple.com/us/app/mricro/id942363246?mt=12>

UPCOMING CONFERENCES

The Fragment Based Drug Design - Down under conference being held at the Monash University Parkville campus 12-15th July. Sessions will include all aspects of FBDD including library design, biophysical screening, computational chemistry, hit development strategies, medicinal chemistry and case studies of FBDD programs. Please see <http://fbddoz.com.au/> for registration and more info. You can also find a poster at https://www.dropbox.com/s/17j9ytl5duvmcpi/FBDD-DU_flyer.pdf?dl=0

The 27th International Conference on Magnetic Resonance in Biological Systems (ICMRBS 2016) will be held in Kyoto in August (<http://www.icmrbs2016.org/index.html>).

13th International Bologna Conference on Magnetic Resonance in Porous Media will be held from the 4th - 8th September 2016, Bologna, Italy. See <https://events.unibo.it/mrpm13> or www.mrpm.org

There is a nice list of upcoming conferences in **NMR** at http://nmr900.ca/nmr_events.html one for **EPR** at <https://www.ieprs.org/meetings.php#upcoming> and **MRI** at <http://www.conference-service.com/conferences/mri.html>

STORIES FROM THE WEB

- <http://www.azom.com/article.aspx?ArticleID=12877> - Would you like to know how you can use benchtop electron paramagnetic resonance to measure oxidative rancidity in vegetable oil (a critical issue in food-based industries) if so please follow the link above.
- <http://electronics360.globalspec.com/article/6853/first-ever-fully-superconductive-coil-reaches-magnetic-field-of-25-tesla> Physicists at the University of Geneva and Bruker BioSpin have developed and tested the first superconducting coil able to reach a magnetic field of 25 Tesla - which is quite impressive.
- <http://www.urotoday.com/recent-abstracts/urologic-oncology/prostate-cancer/89327> - a story about magnetic resonance imaging-guided prostate biopsies increase tumour detection rates.