

ANZMAG NEWS – SEPTEMBER 2019

By Oliver A.H. Jones (RMIT University - oliver.jones@rmit.edu.au)

Dear all,

Welcome to the ANZMAG e-newsletter for September 2019. I hope you enjoy the news.

CONFERENCE CORNER

ANZMAG 2019

The 12th Australia and New Zealand society for Magnetic Resonance conference will be held in Western Australia, November 25-28 2019. Please see www.anzmag2019.com

Annual RACI R&D Topics

The Analytical and Environmental Chemistry Division of the RACI invites you to the 27th Annual RACI R&D Topics Conference. It will be held at Flinders University in Adelaide, December 1 - 4, 2019. Please see <http://www.rndtopics.com/> for more information.

The **Fragment-Based Drug Discovery Down Under Conference 2019** will be held at the Monash Institute of Pharmaceutical Sciences (MIPS), Parkville Australia from 12th – 15th November 2019. See <https://fbdddownunder.com.au/> for more details.

Please see http://nmr900.ca/nmr_events.html for a detailed list of MR related meetings

JOBS

The University of Queensland is advertising for a **Deputy Director, Technology for Centre** for Advanced Imaging The advert is live at <http://search.jobs.uq.edu.au/caw/en/job/508221/deputy-director-technology> and the deadline is 21st October.

As a new **ARC Training Centre, for Fragment-Based Design** has PhD scholarships on offer. Please see the website at <http://careers.pageuppeople.com/513/cw/en/job/595534/phd-scholarships-arc-training-centre-for-fragmentbased-design> for all the information.

A reminder that there is still an Associate Professor (Bioimaging), University of Western Australia (<http://external.jobs.uwa.edu.au/cw/en/job/502916/associate-professor-bioimaging>) and a Senior Research Fellow (NIF Facility Fellow – MRI), also University of Western Australia <https://www.timeshighereducation.com/unijobs/en-au/listing/177126/senior-research-fellownif-facility-fellow-mri/> available

PAPER OF THE MONTH

A new feature? In ANZMAG news? Yes indeed. I am going to highlight one interesting paper a month. This time round it is from the Journal of Biomolecular NMR. “*Artifacts can emerge in spectra recorded with even the simplest of pulse schemes: an HMQC case study*” by Lewis E. Kay See rdcu.be/bSz0T for more. It is pretty heavy on the maths but an interesting read.

SOCIAL MEDIA

One can find some strange things on Twitter. For example, want to see inside an #NMR spectrometer? Then check out this picture of a great new display at the University of Oregon Department of Chemistry and Biochemistry made of an old and thankfully decommissioned 300MHz instrument - <https://twitter.com/mdpluth/status/1176942224874983424/photo/1>

OK how about some MRI images of various items that would not normally be in the MRI. See if you can guess what they are at <https://twitter.com/morrisonMSK/status/1178709070687158273/photo/1>

Later on see <https://twitter.com/i/status/1178733578278047753> for the answers.

If you prefer Instagram try <https://www.instagram.com/p/B2rDpInhWRb/> for a Lego MRI.

You can also follow me - @dr_oli_jones on both platforms for more chemistry related posts.

NEW METABOLOMICS BOOK - Metabolomics: Practical Guide to Design and Analysis

The topics presented and discussed in this book are based on the European Molecular Biology Organization (EMBO) practical courses in metabolomics bioinformatics taught to those working in the field, from masters to postgraduate students, PhDs, postdoctoral and early PIs. includes NMR data analysis and processing. See <https://www.crcpress.com/Metabolomics-Practical-Guide-to-Design-and-Analysis/Wehrens-Salek/p/book/9781498725262>

COLLECTING ELEMENTS

As we are coming to the end of the International Year of the Periodic Table I thought I would share this website - <https://luciteria.com/> with you. It lets you order samples of almost any element. I rather like the metal cubes - though some are quite expensive.

STORIES FROM THE WEB

- <https://www.news-medical.net/whitepaper/20190610/Monitoring-Photodegradation-with-EPR-Spectroscopy.aspx> - An interesting study using EPR spectroscopy to measure photodegradation in a range of sample types – inc beer.
- <https://www.spectroscopynow.com/details/ezine/16d3ae2dbc8/Transplanted-brain-cells-MRI-in-mice.html?tzcheck=1> - A magnetic resonance imaging (MRI) study in mice reveals that transplanted brain cells can survive without a dose of anti-rejection drugs.
- https://www.eurekalert.org/pub_releases/2019-09/sjcr-wla090619.php - St. Jude Children's Research Hospital has acquired the first Ascend 1.1 GHz Nuclear Magnetic Resonance Spectrometer, the largest and most powerful device of its kind from Bruker.