

ANZMAG NEWS - DECEMBER 2016

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

Dear all,

I hope that everybody had a good month and is not too shocked to be at the end of 2016 already?

NEW DNP-NMR AT BIO21

Congratulations to Professor Frances Separovic who recently finished up installation of the southern hemisphere's first DNP-NMR spectrometer at the Bio21 Institute in Melbourne. The DNP instrument will make it possible to obtain accurate structural information on small molecules and protein in much shorter time periods. The system includes a \$1.8M gyrotron and low temperature cooling unit and a \$720k NMR spectrometer. It is already in high demand you can read more about it at <http://bit.ly/2hLrHul> if you wish. Well done to Frances and the team on bringing this new facility to Australia.

ISMAR 2017

The 20th International Society of Magnetic Resonance (ISMAR) meeting will be held in Québec City on July 23-28, 2017, jointly with the Rocky Mountain Conference on EPR. The meeting will cover diverse topics related to magnetic resonance. Abstract submission and registration are now open. The deadlines for abstract submission are March 15th, 2017 for oral presentations and May 15th, 2017 for poster presentations. Information on accommodation and on student stipends are also provided on the conference website at <http://ismar2017.org/> where the list of plenary and invited speakers, as well as the composition of the scientific and local committees, are also available.

DRAFT 2016 NATIONAL RESEARCH INFRASTRUCTURE ROADMAP

Regular readers will know that ANZMAG has been quite heavily involved with the National Research Infrastructure Roadmap and many ANZMAG members made important contributions to the countywide roadshows on the topic. The Draft 2016 National Research Infrastructure Roadmap has now been released and is available at <http://www.education.gov.au/2016-national-research-infrastructure-roadmap> for those interested. Note that thanks to some heroic work by many ANZMANG members esp. Prof Ian Brereton of UQ Magnetic Resonance features quite a lot in the latest version of this document. If you want to draft a response to the latest version please see <http://bit.ly/2hU7qWX> for the details.

PREMIER'S AWARD FOR HEALTH AND MEDICAL RESEARCH 2017

VESKI has recently announced that applications for the 2017 Premier's Award for Health and Medical Research are open. In 2017 the Premier's Award will be presented for the twenty-third time. The Award includes \$40,000 in prize money, with \$16,000 presented to the recipient and \$8,000 to three commendees. Please note that the award is intended for individuals who have recently completed or are at least two years into their PhD candidature; it is not intended for individuals with an established research career. So please think of some good young PhD students or postdocs who may be interested. Applicants may be undertaking research in any field of health or medical research including public health, health services, basic, or clinical research. To apply please see www.veski.org.au/pahmr and also note that applications will close 2pm [AEDT] - Wednesday, 25 January 2017.

GRANTS CORNER

National Foundation for Medical Research and Innovation Grants - The NFMRI provides financial support to research projects and EOIs for applications for the 2017 Annual Grant Round (Portfolios 2 & 3 only) are now open. You can find out more at <http://nfmri.org.au/research-and-innovation/apply-for-support/>

Herman Slade Foundation grants - Provides project grants up to A\$30,000 per year for up to three years. Grants are awarded to Australian institutions for activities within Australia. The next round of applications will close at 5.00pm on Friday March 10, 2017 for new grants beginning in July 2017. See <http://www.hermonslade.org.au/guidelines.html> for more details.

NIH Grant for Analytical Approaches for Metabolomics Data - The NIH has a new grant advertised for new analytical approaches for metabolomics data. The total budget is worth USD 1 million, to fund six to seven awards in fiscal year 2017. Application budgets are worth up to USD 100,000 for a maximum period of one year. The maximum award is USD 100,000 and the closing date is 14th Feb 2017. See <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-17-001.html> for details.

MOLECULE OF THE YEAR AT C&E NEWS

Not strictly an NMR story I am afraid but a good one none the less. Earlier in the year a team from Australia and New Zealand reported a new "superbase" - a molecule with the highest reported gas-phase proton affinity: 1,2-diethynylbenzene dianion. C&E News (published by the American Chemical Society) have short-listed it for its "molecule of the year" contest. It is listed in the voting table as the "World's strongest chemical base at <http://yearinreview.cenmag.org/poll-what-was-the-coolest-molecule-reported-in-2016/> - please consider voting for it.

STORIES FROM THE WEB

- https://www.eurekalert.org/pub_releases/2016-12/uob-rwb120916.php - Electron Spin Resonance is going from strength to strength recently. In this story you can read how Scientists at the University of Bonn have developed new tags to enable them to use EPR to observe a cell protein at work.
 - <http://bit.ly/2gXP47> - Last month the Florida State University-based National High Magnetic Field Laboratory successfully tested a 36 tesla series connected hybrid (SCH) magnet. This magnet breaks the record for field homogeneity for a high-field magnet.
 - <http://bit.ly/2hAam7H> - Scientists at the University of Sheffield in the UK report that an additional MRI scan during pregnancy could help to more accurately detect abnormalities and give more certainty for parents whose 20-week ultrasound scan showed a potential problem.
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Merry Christmas

As 2016 draws to a close it only remains for me to thank everybody for reading for another year and to wish everybody reading this and their families a very merry Christmas and all the best for a great 2017. See also <http://u-of-o-nmr-facility.blogspot.com.au/2015/12/nmr-of-christmas-tree.html> for some Christmas NMR.

