

ANZMAG NEWS - APRIL 2023

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

Dear all, Welcome to April 2023 edition of ANZMAG. I hope you have all had a great month. As always comments and suggestions for ANZMAG news are welcome.

CONFERENCES

- ISMAR 2023, abstracts that have been submitted for talks are being considered by the program committee. The committee will consider new and current abstracts submitted for oral presentations until Friday 26 May. Early bird rego closes, Friday May 5th. See <https://www.ismar2023.org>
- The European Conference on Magnetic Resonance (EUROMAR) meeting will be held July 9-13, 2023; Glasgow, Scotland, UK. See <https://euromar2023.org/>
- International Society for Magnetic Resonance in Medicine & the Society for MR Radiographers & Technologists meeting will be held June 3-8, 2023 in Toronto, Canada. See <https://www.ismrm.org/23m/>
- The Rocky Mountain Conference - EPR only in 2023- will be held July 23-27 in Denver, USA See <https://rockychem.com/>
- The Alpine Conference on Magnetic Resonance in Solids will be held from the 10th to 14th October in Chamonix-Mont-Blanc, France. See <https://alpine-conference.org/>
- UNSW are hosting a meeting highlighting the applications of solid state NMR spectroscopy in the area of materials research on Tue, 9 May 2023 9:45 AM - 4:30 PM AEST See <https://www.eventbrite.com.au/e/solid-state-nmr-spectroscopy-in-materials-science-tickets-622250868097> for details.

2023 ISMAR Prize and Abragam Prize recipients and Callaghan Lecturer

The ISMAR Prize Committee has selected the recipients of the 2023 ISMAR Prize and the 2023 Abragam Prize.

The ISMAR Prize recipient is Dr. Ad Bax from the National Institutes of Health, Bethesda, USA, a world leader in the development of NMR methods for the study of proteins and nucleic acids. The Abragam Prize recipient is Prof. Ashok Ajoy of the University of California Berkeley, a pioneer in the development of new magnetic resonance methods based on quantum technologies for nanoscale MRI, quantum sensing and optical hyperpolarization-based NMR. Prof. Songji Han of the University of California, Santa Barbara, is the 2023 Paul Callaghan Lecturer. Prof. Han's work pushes the frontiers of magnetic resonance spectroscopy and relaxometry for the study of biomolecular interactions, biomolecular and materials surfaces, and the property of their hydration layers.

Drs. Bax, Ajoy and Han, will give lectures on the opening of day of the 2023 ISMAR conference in Brisbane.

JOBS AND FELLOWSHIPS

- The University of Technology Sydney Chancellor's Research Fellowship scheme is open. These are awarded to outstanding ECRs to help with their career. See <https://lnkd.in/dK6t2Gra>
- The Forrest Research Foundation is offering up to 4 three-year Post-doctoral Fellowships to conduct research at any of WA's 5 universities. See <https://www.forrestresearch.org.au/7347-2/>
- Plant and Food Research in New Zealand are looking for a research associate in metabolite chemistry. <https://careers.sciencenewzealand.org/jobdetails/ajid/102J9/51260-Research-Associate-Metabolite-chemistry>
- Applications are invited for 8 funded PhD Studentships across the Metabolic Health research theme commencing from April 2023, in the Health Futures Institute at Murdoch University. See [https://www.murdoch.edu.au/study/scholarship/2023-metabolic-health-doctoral-\(phd\)-research-training-program](https://www.murdoch.edu.au/study/scholarship/2023-metabolic-health-doctoral-(phd)-research-training-program)

AWARDS

- The Australian Financial Review Higher Education Awards highlight the contribution HE makes to Australian life. There are 8 award categories – community engagement, emerging leadership, employability, equity and access, research commercialisation, industry engagement, teaching and learning excellence and lifetime achievement. See <https://live.afr.com/higheredawards> for full information.
- The Royal Australian Chemical Institute National Awards opened for nominations open on 1 April and close 30 June. There are range of awards at all career levels. See https://www.raci.org.au/RACI/Web/Awards/National_Awards.aspx for full list.
- The Royal Society of Victoria Medal for Excellence in Scientific Research is open for nominations. This year the category is Earth Science (includes research in the disciplines of Geology, Geochemistry, Geochronology, Geophysics, Planetary Physics, Meteorology, Oceanography, Physical Geography, Palaeontology and related sciences). See <https://rsv.org.au/awards-and-prizes/research-medal/>

NB: If you are not eligible for the above awards yourself please consider nominating a worthy colleague or taping them on the shoulder. A bit of encouragement from a senior academic can go a long way.

#EDUCATE2RESONATE

If you're an NMR enthusiast of any level the Bruker Educate2Resonate website could be very handy place to learn, share, and teach about NMR. Although you do have to register to access them there a range of free learning materials available and you, can connect with other NMR users from all around the world to share ideas, information, and expanding your knowledge and skills. See <https://www.bruker.com/en/landingpages/bbio/educate2resonate.html> for more information

PAPER OF THE MONTH

This month's Paper of the Month is entitled "Dance with spins: site-directed spin labeling coupled to electron paramagnetic resonance spectroscopy directly inside cells" and is by Annalisa Pierro and Malte Drescher. The paper gives a detailed overview of the most recent advances in Site-directed Spin Labeling coupled to Electron Paramagnetic Resonance spectroscopy (SDSL–EPR) to study biomolecules in living cells. I thought this would be of interest to ANZMAG news readers. The authors of the paper feel that high sensitivity, the virtual absence of background, and the versatility of spin-labeling strategies make this approach one of the most promising techniques for the study of biomolecules in physiologically relevant environments. They After present the milestones achieved in this field, and a summary of the future goals and ambitions. You can read more at <https://pubs.rsc.org/en/content/articlehtml/2023/cc/d2cc05907j>

STORIES FROM THE WEB

- <https://www.amazon.com/dp/1119162998> There isn't much (any) EPR news this month so I thought I would highlight this new book "EPR Spectroscopy: Fundamentals and Methods (eMagRes Books) 1st Edition" instead.
- <https://www.news.com.au/technology/scientists-make-transformative-breakthrough-that-makes-brain-imaging-64-million-times-sharper/video/40fa30fc76bee9aee076cef615f18c0> - Has the resolution of MRI been made 64 million times sharper than it was before. This story says yes.
- <https://www.azom.com/article.aspx?ArticleID=22500> Interesting commentary on the use of benchtop NMR spectroscopy help unlock the potential of analytical chemistry labs.
