

ANZMAG NEWS - May 2023

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Dear all, Welcome to May 2023 edition of ANZMAG. I hope you have all had a great month.

ANZMAG UPDATES

- Ann Kwan has asked me to advertise the **ANZMAG news page** in the next newsletter. Please check out the new site at <https://anzmag.com.au/anzmag/news/> Ann has just added news items on ISMAR2023 and pre-ISMAR2023 workshop. If anyone has anything they want to advertise, please send key info (such as links) and a nice picture to Ann on ann.kwan@sydney.edu.au
- The website team notes that the new **ANZMAG website** (<https://anzmag.com.au>) is in beta testing phase and the website sub-committee is looking for feedback/more volunteers to test various functionalities. Thanks to those who volunteered already. If you would like to volunteer or have volunteered but haven't heard, please email gareth.nealon@uwa.edu.au (website admin).

AWARDS

- The **Australian Academy of Science** has partnered with the Breakthrough Prize Foundation to deliver a program to support Ukrainian researchers in eligible fields of science who have been impacted by the war with Russia. This can be used for facility access or short-term visits. See <https://www.science.org.au/supporting-science/awards-and-opportunities/the-ukraine-australia-research-fund> for details.
- The **NSW Premier's Prizes for Science & Engineering** seek to recognise excellence in science and engineering, and reward leading researchers for cutting-edge work that has generated economic, environmental, health, social or technological benefits for New South Wales. Nominations are open now and close on **21st June**. See <https://www.chiefscientist.nsw.gov.au/events/nsw-premiers-prizes-for-science-and-engineering> for details.
- The **Royal Society of Victoria** runs several award schemes, one of which (the young scientist research prizes) is currently open to HDR students. Applications close at 5:00pm **on 31 May**. See <https://rsv.org.au/awards-and-prizes/young-scientist-research-prizes/> for more information and to apply.
- In **2024 the L'Oréal-UNESCO For Women in Science International Awards** recognize and support five outstanding scientific researchers in the field of Life and Environmental Sciences, working in the following regions: Africa & the Arab States, Asia & the Pacific, Europe, Latin America & the Caribbean, and North America. See <https://www.forwomeninscience.com/authority/international-awards> for more information.

PAPER OF THE MONTH

This month's **Paper of the Month** is on the topic of hyperpolarisation and dynamic nuclear polarization in the solution state. The title is "*Hyperpolarized ¹³C NMR Spectroscopy of Urine Samples at Natural Abundance by Quantitative Dissolution Dynamic Nuclear Polarization*" by Ribay et al. Now hyperpolarized urine may not sound that exciting but this is one of the first papers to look at the analysis of complex mixtures of compounds in a biofluid at natural ¹³C abundance. The resolution and sensitivity were pretty impressive and the authors show that accurate quantitative information on multiple targeted metabolites can be retrieved through a standard addition procedure. I thought it was quite a nice approach. You can read more at <https://onlinelibrary.wiley.com/doi/10.1002/anie.202302110>

JOBS AND STUDENTSHIPS

- The School of Chemical Sciences at the **University of Auckland** seeks to appoint up to three new continuing academic faculty members at Lecturer or Senior Lecturer level. See <https://jobs.smartrecruiters.com/TheUniversityOfAuckland/743999907732388-lecturer-senior-lecturer-chemistry> Closing date is **25th June**.
- The **University of Auckland** is also looking for Lecturer/Senior Lecturer in Plant Molecular Science. See <https://jobs.smartrecruiters.com/TheUniversityOfAuckland/743999908859973-lecturer-senior-lecturer-in-plant-molecular-science> Closing date is **19th June**.
- The School of Chemistry and Molecular Bioscience at the **University of Wollongong** is looking for a Lecturer or Senior Lecturer open. Closes on the **7 June**. See https://www.uow.edu.au/about/jobs/jobs-available/#en/sites/CX_1/requisitions/preview/3457 for more info.
- **RMIT University** is looking for a lecturer in molecular biology and genetics. The job post is https://rmit.wd3.myworkdayjobs.com/RMIT_Careers/job/Melbourne/Lecturer--Molecular-Biology-and-Genetics_JR21438 but hurry as the closing date is **1st June**.

SMASH NMR CONFERENCE

The **SMASH** small molecule NMR conference will run from 17th to 20th September in Baveno, Italy. If you want to learn the latest NMR methods, find new applications for the technology or meet the movers and shakers in the field, SMASH is the place to do it. See <https://smashnmr.org> for info.

WHY BIONMR?

- Bruker have started a new online video series called “**Why BioNMR?**” Experts from around the world will highlight the research they are doing in the fields of functional and structural biology and how NMR has helped shaped their careers. Episode 1 is entitled “Beyond Watson & Crick: The Nucleic Acid Dance” and is with Prof Hashim M. Al-Hashimi. See <https://www.youtube.com/watch?v=7XREjccbOFc> for more. To learn more about Dr. Al-Hashimi’s work, please visit: www.biochem.cuimc.columbia.edu/research/research-labs/al-hashimi-lab
- Bruker also seem to be having a sale to celebrate their new store. Up until the **31st May** you use discount code CELEBRATE2023 to get up to 30% off selected items during checkout. See <https://store.bruker.com/promotion>? I’m not sure if this is country limited but thought I’d pass it on in case.

STORIES FROM THE WEB

- <https://www.news-medical.net/whitepaper/20190610/Monitoring-Photodegradation-with-EPR-Spectroscopy.aspx> – Did you know you could monitor photodegradation with EPR Spectroscopy? Read more about it here.
- <https://www.nature.com/articles/d41586-023-01616-7> - A new study from South Korea may have found a way in improve the speed and resolution of functional MRI. Read on to find out more.
- <https://hackaday.io/project/191192-nuclear-magnetic-resonance-for-everyone> If you or your students are up for a challenge this article covers the process of making a home-built, user-friendly, portable device that can reliably detect NMR signals within Earth’s magnetic field.