

## ANZMAG NEWS – FEBRUARY 2021

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Dear all,

Welcome to the February 2021 edition of ANZMAG.

### MEETINGS

Not many meetings at present but the Intercontinental NMR Seminar Series is still running online. See <https://sites.google.com/view/nmr-seminar-series/home> for details.

Thank you to Conan Wang, Marco Sani and Elena Harjes for organising the virtual seminar on behalf of ANZMAG recently. The first one last month was a great success.

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### PAPER OF THE MONTH

This month's paper of the month is on solid state NMR. The title is "Dipolar dephasing for structure determination in a paramagnetic environment" and it is by Dasgupta et al. The paper shows the efficacy of the REDOR (Rotational-echo, double-resonance) type sequences in determining dipolar coupling strength in a paramagnetic environment, that conventional dipolar dephasing experiments are transferable to paramagnetic systems and that Dipolar coupling measurement can be useful to study active site of metalloproteins as accurate structure information can be obtained in a paramagnetic environment. Want to read more? Click <https://www.sciencedirect.com/science/article/pii/S0926204021000163>

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### JOBS

- The University of Auckland have an opening for a Lecturer/Senior Lecturer in Biological Chemistry. Applications close on the 14th March. Details at <https://www.smartrecruiters.com/TheUniversityOfAuckland/743999734873761-lecturer-senior-lecturer-biological-chemistry>
- The CSIRO in Canberra have an opening for a Postdoctoral Fellowship in Environmental Systems Biology. See <https://jobs.csiro.au/job/Canberra,-ACT-CSIRO-Postdoctoral-Fellowship-in-Environmental-Systems-Biology/714445300/>
- The CSIRO in South Australia are looking for an Analytical Chemist with an interest in food. See <https://jobs.csiro.au/job/Adelaide%2C-SA-Analytical-Chemist/717590500/> for more details.

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### GRANTS AND AWARDS

Applications are open for the 2021 Ramaciotti grants and Awards. These include Ramaciotti Health Investment Grants, the Ramaciotti Biomedical Research Award, and the Ramaciotti Medal for Excellence and are generally for health or biomedical research. See <https://www.perpetual.com.au/ramaciotti/applications>

Outstanding contributions to science have been recognised by the Australian Academy of Science today with 24 current and future stars of science receiving prestigious 2021 honorific awards. See <https://www.science.org.au/news-and-events/news-and-media-releases/australian-scientists-changing-world-recognised-academy-awards>

Nominations are now open for the Australian Academy of Science's 2022 honorific awards (I have always wanted to win one of these but I suspect my CV is not good enough). Applications are also open for support for Academy research conferences, research awards and travelling fellowships. Full details at <https://www.science.org.au/news-and-events/news-and-media-releases/nominate-now-academys-2022-awards>

The 2021 National Measurement Institute awards are open for nominations. The field of measurement science is very broad and application is also not too onerous. See <https://www.industry.gov.au/news/2021-national-measurement-institute-awards-nominations-open> for details.

The Gordon Hammes Awards are jointly sponsored by Biochemistry and the ACS Division of Biological Chemistry. They recognize individuals whose scientific contributions have had a major impact on research across all of biological chemistry. See [https://americanchemical.co1.qualtrics.com/jfe/form/SV\\_9vJQKP3EfosE1rD](https://americanchemical.co1.qualtrics.com/jfe/form/SV_9vJQKP3EfosE1rD) for more details.

The annual Young Tall Poppy Science Awards are open for applications. See <https://aips.net.au/tall-poppy-campaign/nominations/> for full details.

If you are in Victoria Applications for the Royal Society of Victoria Young Scientist Research Prizes are open. See <https://rsv.org.au/awards-and-prizes/young-scientist-research-prizes/> for more.

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## PARKVILLE STORYTELLING PROJECT NMR STORY

Congratulations to Professor Frances Separovic AO who has been featured in the metro tunnel Parkville storytelling project. See <https://metrotunnel.vic.gov.au/about-the-project/creative-program/parkville-station/parkville-storytelling-project/prof-frances-separovic> for this very, cool story.

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## STORIES FROM THE WEB

- [https://www.eurekalert.org/pub\\_releases/2021-03/uok-dt031021.php](https://www.eurekalert.org/pub_releases/2021-03/uok-dt031021.php)  
This article is about using EPR to learn more about the binding properties of the "Parkinson protein" and elucidating protein-lipid interactions in cells.
- [https://www.eurekalert.org/pub\\_releases/2021-03/ifbs-asm031021.php](https://www.eurekalert.org/pub_releases/2021-03/ifbs-asm031021.php)  
This is an interesting story on a safer MRI contrast agent for high-resolution 3D microvascular imaging that traditional gadolinium-based products.
- <https://cen.acs.org/education/NMR-spectral-interpretation-taught-efficiently/99/i8>  
This article asks if NMR spectral interpretation be taught more efficiently and uses eye-tracking to help work out where students struggle so as to help them learn.

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