

ANZMAG NEWS – NOVEMBER-DECEMBER 2020

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Dear all,

Welcome to the last edition of ANZMAG News for 2020. What a year it has been! Hopefully things will get a little more back to normal next year. Until then, here is the latest news and views.

EMCR SUBCOMMITTEE CALL

A reminder that ANZMAG is seeking motivated **EMCRs to form a subcommittee** to cover four main activities, mainly the ANZMAG webinar series, ANZMAG meeting program EMCR sessions, Workshops (virtual and hands on), and the creation of a new blog. Once a committee is established, a working group will gather ideas/requests from EMCRs to shape the roadmap of these activities for 2021. If this sounds like something you would like to be involved in. Please contact Dr Marc Sani (msani@unimelb.edu.au) at the University of Melbourne for more information.

LIEF OUTCOMES

The ARC left this year's **LIEF announcement** very late -in fact they only came out today. There are three magnetic resonance grants I can see from the list at <https://rms.arc.gov.au/RMS/Report/Download/Report/1b0c8b2e-7bb0-4f2d-8f52-ad207cfbb41d/220>. One is in South Australia (led by Professor Andrew Abell), and two in Victoria (one led by Paul Gooley and one led by Professor Spencer Williams). Full details are on the ARC website. Many congratulations to those who were successful and commiserations to those who missed out.

GRANTS AND AWARDS

Ian Potter Medical Research Grants fund equipment and capital infrastructure to advance the understanding and treatment of major diseases. Applications for the latest round are due Friday 15 January 2021. See <https://www.ianpotter.org.au/what-we-support/medical-research/> for more.

There is some information on grants in the **biotechnology** area at <https://biomelbourne.org/grants-funding/> and at <https://www.ausbiotech.org/policy-advocacy/government-assistance>

There are some open and upcoming opportunities in the **medical research** future fund and NHMRC on the NHMRC website at <https://www.nhmrc.gov.au/funding/find-funding>

The ISMRM 2020 marked the first ever **Bruker MRI award** and Bruker are already accepting submissions for the 2021 Award. They invite you to submit your newest research results, which will be judged based on scientific relevance. Full details are at <https://www.bruker.com/events/ismrm/winners-of-the-bruker-mri-award.html>

The **BioMelbourne Network Women in Leadership Awards** were launched in 2015 to recognise and champion women, at different stages of their careers. Nominations for the 2021 Awards are now open! See <https://biomelbourne.org/women-in-leadership-awards/> for details and please consider nominating worthy candidates.

If you have access to is the <https://www.researchprofessional.com/> website can be a useful resource to find funding information on.

FAMELAB

FameLab is a global science communication competition for early career researchers in STEM fields. Registration comes with access to free online science communication workshops as well. See <https://www.fwam.com.au/> for details. Any budding science communications are encouraged to apply.

JOBS

The **University of Adelaide** currently has **two academic job opportunities** open for applications (closing in early/mid January 2021).

- Senior Lecturer in the School of Biological Sciences (<https://careers.adelaide.edu.au/cw/en/job/504588/senior-lecturer-school-of-biological-sciences>)
- Senior Lecturer in the School of Agriculture, Food & Wine (<https://careers.adelaide.edu.au/cw/en/job/504597/senior-lecturer-school-of-agriculture-food-wine>).

PAPER OF THE MONTH

This month's paper of the month is entitled "*Microsecond Exchange Processes Studied by Two-Dimensional ESR at 95 GHz*" by Dzikovski et al. I know it is another ESR paper, but it caught my eye as I haven't seen 2D ESR before as unlike NMR, the exchanging states yield ESR signals that are not resolved from each other within their respective line widths. But at 95 GHz, it becomes possible to resolve them in many cases because of the increased g -factor resolution, which is what is show in this paper. I thought the approach was very interesting. You can read more at <https://pubs.acs.org/doi/abs/10.1021/jacs.0c09469> if you are interested.

CHRISTMAS PRESENTS

If you are still looking for Christmas presents for scientists/chemists can I suggest <https://luciteria.com/> or some of the items on the list at <https://giftlab.co/chemistry-gifts/> (I am tempted by some of these myself).

STORIES FROM THE WEB

- <https://www.news-medical.net/whitepaper/20190610/Monitoring-Photodegradation-with-EPR-Spectroscopy.aspx>

This is an interesting story about monitoring photodegradation with EPRs.

- <https://www.newswise.com/articles/uci-engineers-reveal-molecular-secrets-of-cephalopod-powers>

This is an interesting story on the use of MRI to study the reflectins, the unique structural proteins that give squids and octopuses the ability to change colours and blend in with their surroundings.

- <https://www.azom.com/article.aspx?ArticleID=19772>

This news story is on the benefits of benchtop NMR in chemistry teaching. Given the issues with budgets this year that are likely to persist in future benchtop NMR (which is much cheaper to buy and run) could be useful in future.

Incidentally, there is a new paper using benchtop NMR for forensic analyses at <https://www.sciencedirect.com/science/article/abs/pii/S2468170920300734> - you may recognise the senior author 😊

CHRISTMAS NMR

There are several interesting examples of **Christmas related NMR** at the University of Ottawa NMR Facility Blog. These can be seen as a list at

<http://u-of-o-nmr-facility.blogspot.com/search/label/Christmas>

I greatly enjoy the blog, as I am sure do many ANZMAGers. Sadly, Glenn Facey who runs it is finishing up at the end of the 2020 but we wish him a happy retirement.

MERRY CHRISTMAS EVERYONE

Finally, May I wish everyone, and their families are very **Happy Christmas** and all the best for the new year. I hope 2021 will be more normal and that we can catch up face to face at some point.
