

## ANZMAG NEWS – APRIL 2020

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Dear all,

Welcome to the APRIL 2020 edition of ANZMAG News. We certainly live in interesting times at present. I hope that everybody and their families are well and coping with the situation.

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### TEACHING

Those teaching online may like the **Open Science Laboratory**. An initiative of The Open University and The Wolfson Foundation. This online laboratory brings interactive practical science to students anywhere and anytime the internet is available. Several activities are available to all, while others are available only to registered users. The good news is that it is very easy to sign up as far as I can tell. The link is <https://learn5.open.ac.uk/course/format/sciencelab/section.php?name=pest01> and you can sign up for an account at <https://www.open.ac.uk/account/createaccount>

Prof Glenn Facey the NMR Facility Manager, University of Ottawa in Canada and long time NMR education via his website at <http://u-of-o-nmr-facility.blogspot.com/> now has a range of Educational video on YouTube of a range of NMR processing techniques. These are well worth looking at <https://www.youtube.com/channel/UCuiQrBaGB3XlbsauliOzLUg>

A reminder that there is a call for volunteers to **proofwatch ssNMR/DNP videos presented by Prof Polenova**. Ann Kwan is aiming to have at least 2 proof watchers for each video. Because of the limited time at the ANZMAG2019 conference, the videos/slides are quite condensed, so Ann is particularly interested in feedback about whether the slides/videos are too hard/dense to follow, as well as the usual feedback on editing/contents. If you are able to help, can you please email Ann ([ann.kwan@sydney.edu.au](mailto:ann.kwan@sydney.edu.au))? Your help will be much appreciated.

**MAGRITEK** have released a number of new webinars recently. These cover a range of topics from the latest development and applications to a demonstration of using  $^{13}\text{C}$  NMR in the Undergraduate laboratory. You can see them all online at <https://tinyurl.com/y8ezxzmg>

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### PAPER OF THE MONTH

This month's paper of the month is entitled "Dissolution dynamic nuclear polarization NMR studies of enzyme kinetics: Setting up differential equations for fitting to spectral time courses" by Philip Kuchel and Dmitry Shishmarev and published in Journal of Magnetic Resonance Open (JMRO). This was paper #1 in the JMRO under the Editorship of Prof Lucio Friedman of the Weizman Institute, Israel. <https://www.sciencedirect.com/science/article/pii/S2666441020300017>

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### COVID-NMR

Covid19-NMR is to determine RNA and protein structures of SARS-CoV-2 and to investigate the drugability of those structures by small molecules. The resulting data will be made publicly available by weekly updates throughout the project prior to publication. There is a lot of NMR based work going on in this project and there is even a link to sign up to be part of it. See <https://covid19-nmr.de/mission/> for more details.

## AWARDS AND PRIZES

The 2020 GSK Award for Research Excellence is open for applications. Presented annually since 1980, the Award acknowledges outstanding Australian researchers and provides an \$80,000 (tax free) independent research grant See <https://tinyurl.com/ydg5sxzq>

The L'Oréal-UNESCO For Women in Science International Awards are open for applications. Full details at <https://www.forwomeninscience.com/en/awards> but the deadline is the 31<sup>st</sup> May

Also closing on May 31<sup>st</sup> are the Georgina Sweet Awards for Women in Quantitative Biomedical Science See <https://tinyurl.com/ydfswgea> for all the relevant information.

The Australian Academy of Science extended the deadline for nominations for its awards until the 25<sup>th</sup> May. See <https://tinyurl.com/y9oxwshz>

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## ABC's TOP 5 Media Residency Program

The TOP 5 scheme provides Science ECRs with media and communication skills so they can share their ideas and expertise more widely, through expert commentary and analysis. Shortlisted applicants will be interviewed by a panel of judges. The selected TOP 5 will work with some of Australia's best journalists and broadcasters in a two-week media residency in October at the ABC Ultimo Centre in Sydney. Applications close Monday, June 1, 2020 (midnight AEST). See <https://www.abc.net.au/radio/programs/top5/> for details.

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## REAL LIFE CONFERENCE CALL

I was sent YouTube video of a Conference Call in "Real Life" Recently. Although it is a few years old it is still scarily accurate 😊 See [https://www.youtube.com/watch?v=DYu\\_bGbZiiQ](https://www.youtube.com/watch?v=DYu_bGbZiiQ)

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## STORIES FROM THE WEB

- [https://www.news-medical.net/life-sciences/Spin-Labels-in-Electron-Spin-Resonance-\(ESR\)-Spectroscopy.aspx](https://www.news-medical.net/life-sciences/Spin-Labels-in-Electron-Spin-Resonance-(ESR)-Spectroscopy.aspx)

A nice overview of using spin-labelled molecules a potent method to assess the structure and conformation of proteins and nucleic acids using EPR spectroscopy

- <https://www.theengineer.co.uk/living-cells-tracked-real-time-kaust/>

Can nanowires act MRI contrast agents? According to the story at the link above the answer is yes.

- <http://news.mit.edu/2020/pyae-phyo-myanmar-nmr-0421>

From Myanmar to NMR, a PhD candidate's journey to the centre of the plant cell wall via NMR.

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## CALL FOR NEWS ITEMS

I know people are busier than usual right now but please do let me know if you have news items or stories you would like to see in ANZMAG news. You can e-mail them to me at [oliver.jones@rmit.edu.au](mailto:oliver.jones@rmit.edu.au)

Take care all!