

ANZMAG NEWS – JUNE 2021

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Dear all,

Welcome to the June 2021 edition of ANZMAG News. I hope everyone is well. I know those in Melbourne (of which I am one) and Sydney and a few other places have probably been better but stay strong we will get through this.

ANZMAG MEDALS

A reminder of the call for nominations for the 2021 ANZMAG medals, including the 2021 ANZMAG Medal and the 2021 Sir Paul Callaghan Medal (for Young Investigators). See <https://bit.ly/3zizAOT> for details – **NB** Applications close 6/8/21.

PAPER OF THE MONTH

The June paper of the month is from Bill Price's lab at Western Sydney University. The title is "*NMR imaging and diffusion*" and is by Abhishek Gupta, Timothy Stait-Gardner and Bill himself. This is a pedagogical paper the team wrote on MRI and Diffusion MRI. If you want an overview of the imaging process and the accessible length scales of imaging techniques for probing porous media as well as the type of information that can be obtained from these techniques, plus reviews of some suggested applications, then this is the paper for you. There is a lot of maths, but it explains some aspects that I haven't seen well explained in the literature before. If you want to have a read, please see <https://bit.ly/2Uk2G1T>

JOBS

A reminder of the postdoc post in structural biology, protein biophysics and protein engineering available at the University of Sydney in Prof Jennifer Potts's lab. See <https://bit.ly/2Uuvkgu> for more details. Deadline is 22nd July.

There is a postdoc job team studying the molecular control of the formation of lymphatic vasculature in development and cancer at the Peter MacCallum Cancer Centre in Melbourne. See <https://go.nature.com/2Uw3pgd> for more.

Monash University is looking for a Lecturer/Senior Lecturer/Associate Professor in Chemical Engineering. See <https://go.nature.com/3wPiYgb> for the advert.

A Senior Research Fellow (NMR manager) position is open in the Center of High Field NMR Spectroscopy and Imaging at Nanyang Technological University (NTU) in Singapore. See <https://bit.ly/3xQxSUI>

MEETINGS

The ANZMAG monthly virtual seminar is tomorrow Wed 21st. The talks this month are (see over) -

- **Anomalous Amide Proton Chemical Shifts as Signatures of Hydrogen Bonding to Aromatic Sidechains**, Prof Jeffrey Hoch (University of Connecticut)
- **Creating non-standard amino acid library files in CYANA using an Automated Topology Builder**, Sarah Kuschert (University of Queensland)

Please register at <https://bit.ly/3BjXWd8>

The CSIRO are running a **Cutting-edge Symposium on Integrated Systems Biology: Challenges and Future Perspectives** from October 25 – 27 up in Brisbane (with virtual attendance options). This might be of interest to staff and students in the biochem and enviro space. See <https://wp.csiro.au/sisb/> for more details.

SPINSOLVE

Benchtop NMR continues to go from strength to strength. The latest Spinsolve instruments measure ^1H and ^{19}F and one or more optional nuclei, like ^7Li , ^{11}B , ^{13}C , ^{15}N , ^{29}Si , ^{31}P can be added. See <https://magritek.com/products/spinsolve> for more. And, no, this is not sponsored. I just like, and am impressed by, the instruments.

AWARDS & GRANTS

Merck 2021 Research Grants. These are of 40,000-450,000 euros per year for up to 3 years and there are several areas of research. Deadline is the end of August. See <https://bit.ly/3rjOFwW>

Engagement Australia Excellence Awards 2021 (formerly known as BHERT Awards) are now open for transformative engagement activities undertaken by universities that demonstrate far-reaching impact and innovation in Australia and New Zealand. See <https://tinyurl.com/sc5rpmm4>

The following are open in Victoria – NB if anyone wants to send details of awards for other states for inclusion next month please feel free ☺

The 2021 Premier's Sustainability Awards are open. The entries close on Friday 30 July at 5. See <https://bit.ly/3ewCk3m> for more information.

VESKi is advertising Victoria Fellowships and the Victoria Prize. Details at <https://bit.ly/3hPZP9R>

The Royal Society of Victoria is accepting applications for the Phillip Law Postdoctoral Award which recognises excellence in scientific research by an Early Career Researcher In 2021, and the RSV Medal for Excellence in Scientific Research See <https://rsv.org.au/awards-and-prizes/>

STORIES FROM THE WEB

- <https://bit.ly/3wSWNpg> - This story covers Monitoring Photodegradation with EPR Spectroscopy
- <https://bit.ly/2V1pGSU> - An interesting article about optimizing the operation of MRI scanners to visualize finer details of the brain
- <https://bit.ly/2URv0Zb> - This article is about using Abu Dhabi researchers use NMR spectroscopy to map the structure of specific nanobody.