

## ANZMAG NEWS – JULY 2018

By Oliver A.H. Jones (RMIT University - [oliver.jones@rmit.edu.au](mailto:oliver.jones@rmit.edu.au))

Dear all,

Welcome to the July ANZMAG e-newsletter. This month we have the usual mix of magnetic resonance and science related items for you.

-----

### MAGNETIC RESONANCE ARTICLES

A few interesting articles featuring magnetic resonance crossed my desk this month. The first was sent in by Prof Frances Separovic and is an interview with Dr. John Tanner – whose work in restricted self-diffusion by pulsed gradient NMR had a huge influence on the use of magnetic resonance in medicine You can see

<https://www.dropbox.com/s/gfxp1bsry80afsu/John%20Tanner%20%20in%20The%20Newsletter%20for%20Senior%20Chemists%20-%20July%202018.rtf?dl=0> for the full story.

There was also an interesting paper which has more authors than one can shake the proverbial stick at (they almost got through the alphabet twice for author affiliations) but is on an interesting topic. The title is “The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research” Please see <http://pubs.rsc.org/en/content/articlehtml/2018/np/c7np00064b#sect1658> for this paper.

I also liked this page from the Royal Society of Chemistry - [http://www.rsc.org/learn-chemistry/collections/chemistry-calendar/july-29#otdic\\_content?utm\\_content=29-Jul-2018](http://www.rsc.org/learn-chemistry/collections/chemistry-calendar/july-29#otdic_content?utm_content=29-Jul-2018)

-----

### CONFERENCE CORNER

Jeffrey Harmer (of UQ) is organising the *third joint conference of the Asia-Pacific EPR/ESR Society and The International EPR (ESR) Society (IES) Symposium at the UQ St Lucia Campus from 23 – 27 September 2018*. More information at <http://www.apes-ies2018.org/> Please Send any enquiries to [jeffrey.harmer@cai.uq.edu.au](mailto:jeffrey.harmer@cai.uq.edu.au)

HYP18 - An International Conference on Nuclear Hyperpolarization will be held on September 2-5, 2018, in Southampton UK See <http://generic.wordpress.soton.ac.uk/hyp18/>

Also in September (16-19) is the SMASH 2018 Small Molecule NMR Conference, which this year is in Philadelphia, see <http://www.smashnmr.org/> for more details.

See [http://nmr900.ca/nmr\\_events.html](http://nmr900.ca/nmr_events.html) for a longer list of magnetic resonance meetings.

The Statistical Consulting Centre, Department of Statistics, at the University of Auckland is planning to run a two-day Introductory R Workshop on the 27th and 28th of August, 2018. This covers importing data, data manipulation, creating tables and statistical summaries, data visualization etc. Internal University of Auckland cost is \$300. External cost is \$500+GST. For registration, please fill in and return the form at <https://www.dropbox.com/s/7c3ecq1b125vcyi/R%20workshop%20payment%20details.docx?dl=0payment> to [rk.barraclough@auckland.ac.nz](mailto:rk.barraclough@auckland.ac.nz) Thanks to Margaret Coe at the Liggins institute at the University of Auckland for sending this in

-----

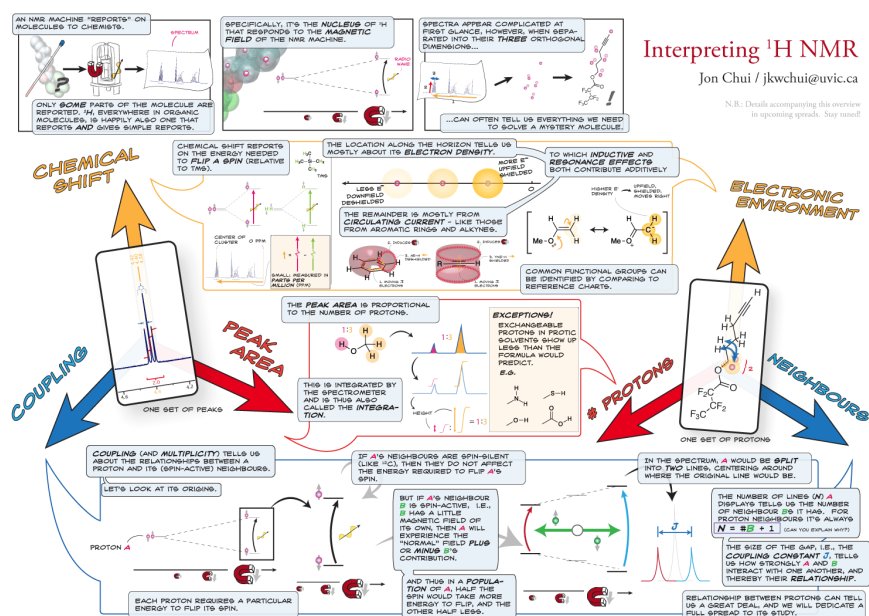
## GRANTS

There are two grants to tell you about this week. #1) The Pierce Armstrong Foundation supports research in a number of areas. The current priorities are: Education, Children & Youth, Community Support and Health & Wellbeing (inc. medical research). I suspect that only the last topic will be of use to most people but the Foundation provides grants of up to \$20,000 so it could be worth looking into. See <http://piercearmstrong.org.au/> for details.

Grant #2 is via the Rebecca Cooper Foundation which provides two-year grants designed to encourage early-career researchers conducting high quality research to take ownership of a discrete research project and to provide a stepping stone towards independence. Projects must align with the following research areas: brain sciences (excluding dementias)- endocrinology and diabetes- geriatrics (excluding dementias)- dermatology (excluding skin cancer)- lung disease other than cancer- rheumatology- vision sciences. Applicants must hold a PhD in a medicine related field of science for no less than five years and no more than 10 years. Grants are worth up to \$50,000 per year for two years. See <http://www.cooperfoundation.org.au/apply-review/> for more.

## NMR ONLINE

The picture below comes from Jon Chui at the University of Victoria in Canada. See <http://www.jon.hk/blog/2011/12/12/interpreting-proton-nmr-overview/> for the story behind it. I thought it might be of interest.



## STORIES FROM THE WEB

- [https://www.eurekalert.org/pub\\_releases/2018-06/bsp-epr062618.php](https://www.eurekalert.org/pub_releases/2018-06/bsp-epr062618.php) - This one is on the use of ESR to look at the free radical scavenging activity of coffee.
- <https://www.news-medical.net/news/20180712/New-biosensor-could-enable-early-non-invasive-diagnosis-of-Alzheimers-disease-through-magnetic-resonance-imaging.aspx> - This story is on a new biosensor that can be useful to achieve an early non-invasive diagnosis of Alzheimer's disease using magnetic resonance imaging.
- <https://www.theresonance.com/ensuring-your-honey-is-pure/> - Can you do NMR of honey? Yes you can and if you want to find out why see this story.