

CAB newsletter 15 August 2023

You are receiving this as a member of the Centre for Applied Bioinformatics (CAB)

Not yet joined CAB? Well if you are receiving this you already have joined, but if you know anyone who would like to join, then please forward this message and they can now sign up using a simple web form from the members page at <https://www.appliedbioinformatics.com.au/Members.php>

News:

With student numbers increasing in the new Master of Bioinformatics there is a growing demand for student projects so the centre is facilitating the introduction of students to potential project supervisors. There has also been a lot of interest in unpaid bioinformatics internships. If you would like to host a bioinformatics masters student for approximately 6 months to undertake a research project or host a student intern, please contact dave.edwards@uwa.edu.au and I can distribute your information to the students.

The first microcredential in applied bioinformatics is attracting students, the second more advanced unit will be finalised over the coming months. I would like to thank all those who have contributed to the development of these units.

Conferences and Presentations:

The **ABACBS** national seminar series will return on August 31st (11:00 AWST, 1:30pm ACST, 2pm AEST, held on zoom), with two speakers.

Dr Jiayue-Clara Jiang, Institute for Molecular Bioscience, University of Queensland.
Investigating the potential anti-depressive mechanisms of statins: a transcriptomic and Mendelian randomization analysis.

James Ferguson, Garvan Institute of Medical Research, **NSWThe SLOW5 ecosystem - A fast and reliable format for nanopore sequencing.**

Register at: <https://tinyurl.com/ycknmc63>

The **Environmental Microbiomes team at Genomics Aotearoa** is hosting the **4th annual Metagenomics Summer (Spring) School**. This practical, hands-on workshop focuses on prokaryotic metagenomics. It aims to guide learners through the process of analysing metagenomic sequence data, from metagenomic read sequences to curated metagenome-assembled genomes paired with downstream data analyses and visualisation in R. Kindly contact Boey at jian.sheng.boey@auckland.ac.nz if you have any enquiries. Register at <https://tinyurl.com/mgss2023>.

EMBO | EMBL Symposium: **The human microbiome**
20 – 23 September 2023, EMBL Heidelberg and Virtual
See <https://tinyurl.com/umxfzcyj> for more details

EMBL Symposium: **The non-coding genome**
11 – 14 October 2023, EMBL Heidelberg and Virtual

For more information, click: [The non-coding genome](#)

EMBL Proteomics in cell biology and disease mechanisms

25 – 27 October 2023, at EMBL Heidelberg and Virtual

See <https://tinyurl.com/24j4j2fk> for more details

Cold Spring Harbor Laboratory: Plant Genomes, Systems Biology & Engineering

November 29 - December 02, 2023

See <https://meetings.cshl.edu/meetings.aspx?meet=plants&year=23> for details

Australian Bioinformatics And Computational Biology Society (ABACBS) annual conference will be held 4 – 8 December in Brisbane, for the first time in collaboration with the International Society of Computational Biology. Save the date!

EMBO workshop: Computational structural biology, 6 – 9 December 2023, EMBL Heidelberg and Virtual. Details available at <https://tinyurl.com/ynm7s5wd>

Funding:

To support data science, machine learning and artificial intelligence research (in any domain) at UWA, the **UWA Data Institute** will be offering:

2023/2024 Summer Research Project Grants

2023 Travel Grants

Project Grants close on 31st August 2023. Documents with information and details on how to apply are at <https://www.uwadatainstitute.org.au/>

A new **Western Australian Future Health Research & Innovation (FHRI) grant program** has been announced which will provide funding for successful projects using data from one of the three large cohort studies, including Busselton Health Study (BHS). More information including application form can be found at <https://tinyurl.com/bdfcrrs2>. Minimum data form is due by 1pm (AWST), Tuesday 29 August 2023. Full application due by 1pm (AWST), Tuesday 26 September 2023.

Infrastructure:

How to apply for Nimbus servers:

Would you like some free Linux servers with up to 16 cores and 64 GB RAM through Pawsey? Dr Sarah Beecroft has helpfully provided a 'how to apply' video available at <https://www.youtube.com/watch?v=mpFQC5sXSHQ> Users have full access to these machines and we have prepared an image that supports many standard bioinformatics tasks that can run on this scale of machine.

Training:

Foundational Open Science Skills (FOSS) Virtual Workshop (8 weekly sessions). This 8-week long workshop is designed to kickstart your Open Science career (2023 is The Year of Open Science!). Combining lectures, demos, short breakouts for group work, with hands-on tutorials and homework, FOSS builds and reinforces skills using computational technology, culminating in a group or individual project of your

choice. Sep 14 - Nov 2, 2023 (Thursdays) Free, optional pre-session brush-up on Git/Unix on Sep 7

Time: 11am - 1pm PDT/MST. Register at <https://tinyurl.com/2a6c5a3a>

CAB plans to support local training sessions for R and single cell analysis, please contact Asad Prodhan asad.prodhan@uwa.edu.au (R) and Chuck Herring herring.charles.a@gmail.com (single cell analysis) for more information.

Calling all bioinformatics students:

COMBINE is the Australian Computational Biology and Bioinformatics Student Society and looking to coordinate events here in WA. If you are not a member of COMBINE, you can join here for free <https://forms.gle/Rg1g3Kj1GLpacb6EA>. If you could like to contribute to COMBINE social or training events in WA, please contact Carissa at cche5029@uni.sydney.edu.au.

Postdoc Fellowship:

The international UWA postdoctoral fellowship round closes at the end of this month , check out the UWA website for details.

Potential PhD student:

Chaoran Yang is a master's student in Statistical Data Analysis program at Ghent University, Belgium, they have a background in bioinformatic analysis of omics data, is eager to contribute to research utilizing omics methods, particularly epi-genomics and transcriptomics solving biomedical research questions like cancer development, metastasis, or cellular differentiation. Epi-genomics and transcriptomics approaches, when combined, offer a comprehensive view of the genomic landscape, shedding light on crucial aspects of gene regulation and expression. Additionally, they are enthusiastic about participating in the development of novel analytical algorithms, should they be required for data analysis of sequencing data. If you would like to discuss possible PhD position with Chaoran please contact Chaoran.Yang@UGent.be.

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