

CAB newsletter 28 February 2024

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:

Welcome to the start of a new academic year and a special welcome to the new cohort of Master of Bioinformatics students at UWA. Student numbers continue to increase each semester, supporting the demand for individuals with applied bioinformatics skills. Some of the first students in this course have now graduated and are taking jobs in industry or continuing on to study for a PhD. As student numbers continue to grow there is increasing demand for student project placements. If you would like to host a Masters student project or would like more information on how these work, please let me know.

Conferences and Presentations:

Plant webinars and tutorials available from EBI

The plant webinar series and a few useful online tutorials are now in an open access curated collection - <https://www.ebi.ac.uk/training/online/courses/data-driven-plant-sciences/>

EMBL AI and biology symposium

12– 15 March 2024, EMBL Heidelberg and Virtual

Information available here: <https://tinyurl.com/mvdcbd4h>

EMBL scATAC-seq: attacking open chromatin in single cells

8 – 12 April 2024, EMBL Heidelberg

Information available here: <http://tinyurl.com/y8v88era>

EMBL Diversity of plants: from genomes to metabolism

9 - 12 Apr 2024, EMBL Heidelberg and Virtual

Information available here: <http://tinyurl.com/yxyzk94e>

EMBL Symposium: Reconstructing the human past: using ancient and modern genomics.

17 – 20 September 2024, EMBL Heidelberg and Virtual

Information available here: <http://tinyurl.com/mr3pj73a>

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.

Have you always wanted access to Pawsey Setonix HPC?

But didn't know where to start? I have experience of assessing both NCMAS and Pawsey partner scheme applications. If you would like help with your application or advice on which to apply for, please contact dave.edwards@uwa.edu.au

Training:**AWS x TKI Research Workshop**

Amazon web services and TKI are holding a workshop at TKI. The schedule is below, please contact david.martino@telethonkids.org.au for more details and to register to attend.

9:00-9:15am Introduction

9:15-10:00am Overview of Genomics on AWS

10:00-11:00am Overview of TKI AWS research platform & forecasting/managing costs

11:00-11:45am Genome institute of Singapore & Q/A

Biocommons are offering the following webinars:

6 March [Australian BioCommons Webinar: Multivariate integration of multi-omics data with mixOmics](#)

12 March [Australian BioCommons Webinar: Scaling up bioinformatics with ABLeS, the Australian BioCommons Leadership Share](#)

26 March [Australian BioCommons Webinar: MaveDB: discovery and interpretation of high-throughput functional assay data](#)

Calling all bioinformatics students:

COMBINE is the Australian computational biology and bioinformatics student society. Students can subscribe at <https://www.combine.org.au/> This year we are fortunate to have our own COMBINE WA representative, Jevin Parmar, based at the Harry Perkins Institute. We look forward to working with Jevin to support the WA bioinformatics student community.

PhD Scholarships available

The UWA applied Bioinformatics group is seeking candidates for PhD project to **'Develop and apply integrated large language models (LLMs) for crop data.'** Projects are also available in the areas of **crop genome bioinformatics** as well as

the **application of machine learning for trait association**. Please contact dave.edwards@uwa.edu.au for details.

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