

Event metadata

Event title	WORKSHOP: Fungal Genomics with Galaxy
Event type	Workshop
Date of event	29-31 October 2024
Time of event	9am-5pm AEST daily
Topic description	A three-day workshop organised by Bioplatforms Australia to introduce bioinformatics theory and practice to researchers, citizen scientists, and industry involved in BPA fungi-themed National Initiatives: Australian Functional Fungi Initiative, and Plant Pathogen Omics Initiative.
Format description	<ul style="list-style-type: none"> • An in-person workshop, held over three days from ~9am-5pm. • The workshop included a series of interleaved presentations about fungal genomics theory and practical tutorials using the Galaxy Australia analysis platform, as well as discussion sessions and presentations from some of the attendees. • A breakdown of timings and topics is provided in the schedule. • Registration was open to project representatives across the Australian Functional Fungi, and Plant Pathogen Omics Initiative. • Participation was free for registrants, and was supported by Bioplatforms National Initiatives. • Number of participants = 38
Licence	Materials are shared under a Creative Commons Attribution 4.0 International agreement unless otherwise stated on the materials
Keywords	Bioinformatics http://edamontology.org/topic_0091 Analysis http://edamontology.org/operation_2945
Contact	training@biocommons.org.au
Audience	Fungal biologists Plant pathologists Biosecurity officers Fungal taxonomists Mycology enthusiasts and citizen scientists Fungi industry innovators
Prerequisites	None
Technical requirements	<ul style="list-style-type: none"> • Access to the internet. • Participants brought their own laptops and connected to the Galaxy Australia platform via a web browser.
Learning outcomes	By the end of the workshop you should be able to:

	<ul style="list-style-type: none"> • Know what to get out of sequencing data, such as reads, genomes, species, and genes. • Understand and apply the principles of answering biological questions from big datasets using Galaxy. • Perform and interpret results of data QC, genome assembly, annotation and assessing quality of assembled fungal genomes. • Extract genes of interest from assembled genomes. • Build new collaborations, networking, and knowledge exchange.
Lead Trainers	<p>Prof. Benjamin Schwessinger (Australian National University) Dr Alistair McTaggart (Psymbiotika Lab) Dr Gareth Price / Dr Anna Syme (Galaxy Australia)</p>
Presenters	<p>Dr Mareike Moeller (Australian National University) Rita Tam (Australian National University) Zhenyan Luo (Australian National University)</p>
Acknowledgements	<p>Dr Alistair McTaggart, Dr Tara Garrad and Dr Kelly Hill for contributing genomic data for training purposes in this workshop.</p>
Co-ordination	<p>Dr Kelly Scarlett (BioPlatforms Australia) Dr Mabel Lum (BioPlatforms Australia) Dr Sophie Mazard (BioPlatforms Australia)</p>