Event title	WORKSHOP: Online data analysis for biologists
Event type	Workshop
Date of event	09/09/2021
Time of event	1 - 4pm AEST
Topic description	Galaxy is an online platform for biological research that allows people to use computational data analysis tools and workflows without the need for programming experience. It is an open source, web-based platform for accessible, reproducible, and transparent computational biomedical research. It also captures run information so that workflows can be saved, repeated and shared efficiently via the web. This interactive beginners workshop will provide an introduction to the Galaxy interface, histories and available tools. The material covered in this workshop is freely available through the Galaxy Training Network. The workshop was held via Zoom and involved a combination of presentations by the lead trainer and smaller breakout groups supported by experienced facilitators.
Format description	Workshop, online via Zoom as described in https://zenodo.org/record/4158583 Grace Hall led the training by introducing key concepts and demonstrating the steps involved in the analysis. Participants then moved into breakout rooms where they had the chance to apply these skills with support from facilitators. The workshop followed the tutorial linked in the 'Related work' section. Grace developed and presented additional slides to better introduce the dataset used and to emphasise the importance and benefits of the workflows in Galaxy. A breakdown of timings and topics is provided in the schedule. Participation was free but subject to application with selection. Applications were reviewed by the organising committee.
Identifier(s)/URL	https://www.biocommons.org.au/events/galaxy-sept21
Licence	Materials are shared under a Creative Commons Attribution 4.0 International agreement unless otherwise stated on the materials
Keywords	Galaxy Australia

	Bioinformatics http://edamontology.org/topic_0091 Analysis http://edamontology.org/operation_2945 Workflows http://edamontology.org/topic_0769
Contact	Melissa Burke melissa@biocommons.org.au
Audience	This workshop is suitable for Australian researchers with no prior knowledge of Galaxy and no programming experience. Participants were required to be associated with an Australian organisation and provide an appropriate organisational email address for their application to be considered.
Prerequisites	No programming experience is required.
Technical requirements	• A Galaxy Australia account • This workshop was run using Galaxy version 21.01 and made use of access to Galaxy Training Infrastructure as a Service (TIaaS). • Slack was used to facilitate discussions. • Access to the internet, speakers, a webcam, microphone and Zoom.

Learning outcomes	By the end of the workshop you should be able to:
	• Work with data on Galaxy
	  ○ Login to a Galaxy server
	  ○ Upload data to a Galaxy server from:
	  ■ A file on your local computer
	  ■ A file on a remote datastore with an accessible URL
	• Use tools in Galaxy
	  ○ Access tools via the tool menu
	  ○ Run tools using the tool interface including:
	  ■ Data transformation and filtering
	  ■ Data visualisation
	  ○ View/access tool output
	• Identify sources of support and further training

Lead Trainer	Ms Grace Hall, Melbourne Bioinformatics
Facilitators	Dr Vicky Perreau, Melbourne Bioinformatics Dr Steven Morgan, Melbourne Bioinformatics Dr Georgina Samaha, Sydney Informatics Hub
Related work	Anne Fouilloux, Nadia Goué, Christopher Barnett, Michele Maroni, Olha Nahorna, Dave Clements, Saskia Hiltemann, 2021 Galaxy 101 for everyone (Galaxy Training Materials). https://training.galaxyproject.org/training-material/topics/introduction/tutorials/galaxy-intro-101-everyone/tutorial.html Online; accessed Fri Dec 10 2021