

Event metadata

Event title	Making sense of gene and protein lists with functional enrichment analysis
Event type	Webinar
Date of event	23 October 2024
Time of event	1pm AEDT
Topic description	Do you have a long list of genes or proteins from omics experiments that you don't know what to do with? This webinar explains how functional enrichment analysis can be used to understand what these lists mean by employing gene ontology and pathway information to highlight the underlying biology. We'll discuss the statistics that underpin enrichment analysis methods and some of the most commonly used tools, databases and workflows.
Format description	Webinar presentation followed by a brief question and answer session
Identifier(s)/URL	https://www.biocommons.org.au/events/funct-enrich-webinar
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 Enrichment analysis http://edamontology.org/operation_3501
Contact	training@biocommons.org.au
Audience	This webinar is for Australian researchers and bioinformaticians who have gene or protein lists from omics experiments (e.g. RNA-Seq, protein expression).
Prerequisites	None
Technical requirements	None

<p>Learning outcomes</p>	<p>By the end of this webinar you should be able to:</p> <ul style="list-style-type: none"> ● Explain the principles of functional enrichment analysis and its applications in interpreting gene and protein lists from omics experiments. ● Describe a typical functional enrichment analysis workflow ● Identify commonly used platforms and tools for conducting functional enrichment analysis. ● Describe tool choice considerations ● Discuss the statistical methods underlying functional enrichment analysis.
<p>Speakers</p>	<p>Dr Hossein Valipour Kahrood, Bioinformatician, Monash Genomics and Bioinformatics Platform</p> <p>Dr Cali Willet, Senior Research Bioinformatician, Sydney Informatics Hub, The University of Sydney</p>
<p>Training materials</p>	<p>A recording of this webinar is available on the Australian BioCommons YouTube channel: https://www.youtube.com/watch?v=AvpH2WMNXxA</p> <p>The slides from this webinar are included in this Zenodo record: 10.5281/zenodo.14032116</p> <p>Functional_enrichment_webinar.pdf</p>
<p>Related material</p>	<p>None</p>