

**Pathway Construction and Network Analysis Towards New Knowledge Discovery  
20 – 22 August 2024  
Bangi Resort Hotel, Selangor, Malaysia**

<b>20 August 2024: Tuesday</b>	
<b>Time</b>	<b>Activity</b>
9.00 am – 9.10 am	Introduction to the workshop
9.10 am – 9.30 am	<b>Welcome speech</b>
9.30 am – 11.00 am	<b>Lecture 1:</b> Introduction to pathway and network biology
11.00 am – 11.30 am	<b>Tea break</b>
10.40 am – 12.30 pm	<b>Practical 1:</b> Data preparation using omics datasets
12.30 pm – 2.00 pm	<b>Lunch break</b>
2.00 pm – 4.00 pm	<b>Practical 2:</b> Leveraging pathway databases and tools (KEGG and Reactome)
4.00 pm – 4.30 pm	Summary, discussion and wrap-up
4.30 pm – 5.00 pm	<b>End of Day 1</b>

<b>21 August 2024: Wednesday</b>	
<b>Time</b>	<b>Activity</b>
9.00 am – 10.30 am	<b>Lecture 2:</b> Introduction to pathway databases/ tools and data integration Introduction to Cytoscape and more pathway databases
10.30 am – 11.00 am	<b>Tea break</b>
11.00 am – 12.30 pm	<b>Practical 3:</b> Cytoscape – pathway construction (STRING, GeneMANIA)
12.30 pm – 2.00 pm	<b>Lunch break</b>
2.00 pm – 4.00 pm	<b>Practical 4:</b> Cytoscape – editing pathways, extending pathways/ networks (merging pathways/ networks)
4.00 pm – 4.30 pm	Summary, discussion and wrap-up
4.30 pm – 5.00 pm	<b>End of Day 2</b>

<b>22 August 2024: Thursday</b>	
<b>Time</b>	<b>Activity</b>
9.00 am – 9.30 am	<b>Lecture 3:</b> Network analysis
9.30 am – 10.00 am	<b>Tea break</b>
10.00 am – 12.30 pm	<b>Practical 5:</b> g:Profiler, DAVID tool – detect over-representation datasets
12.30 pm – 2.00 pm	<b>Lunch break</b>
2.00 pm – 4.30 pm	<b>Practical 6:</b> Cytoscape – GO enrichment/ KEGG pathway analysis
4.30 pm – 4.45 pm	Summary, discussion and wrap-up
4.45 pm – 5.00 pm	<b>End of Day3</b>