

## Single cell RNAseq analysis in R

\*Timings are approximate and subject to change. [Check the start time in your timezone](#)

### Day 1: Tuesday 26 September 2023

Time			Topic/Activity	Who
AEST	ACST	AWST		
12:55	12:25	10:55	Zoom opened for participants	
13:00	12:30	11:00	Welcome and Housekeeping	Melissa
13:15	12:45	11:15	Background on ScRNAseq + R tools	Sarah
13:35	13:05	11:35	Seurat Object	Adele
14:00	13:30	12:00	<i>Breakout activity: Exploring a plot in Seurat</i>	All
14:15	13:45	12:15	Load data	Adele
14:35	14:05	12:35	Break	
14:45	14:15	12:45	QC filtering	Adele
15:10	14:40	13:10	<i>Breakout activity: Loading check + metadata slot.</i>	All
15:20	14:50	13:20	QC filtering continued	Adele
15:30	15:00	13:30	<i>Breakout room: Filter the cells</i>	All
15:40	15:10	13:40	Normalisation	Adele
15:50	15:20	13:50	Break	
16:00	15:30	14:00	Introduction to PCAs and UMAPs	Paul
16:20	15:50	14:20	Save data	Paul
16:25	15:55	14:25	Questions	All
16:30	16:00	14:30	Wrap up and reminders	Melissa
16:30	16:00	14:30	<b>End of session</b>	

## Day 2: Wednesday 27 September 2023

Time			Topic/Activity	Who
AEST	ACST	AWST		
12:55	12:25	10:55	Zoom opened for participants	
13:00	12:30	11:00	Welcome and Housekeeping	Melissa
13:05	12:35	11:05	Reload data from yesterday	Paul
13:10	12:40	11:10	PCAs and UMAPs continued	Paul
13:45	13:15	11:45	<i>Breakout activity: PCAs and UMAPs</i>	All
14:00	13:30	12:00	Clustering	Laura
14:25	13:55	12:25	<i>Breakout activity: Clustering settings</i>	All
14:40	14:10	12:40	Break	
14:50	14:20	12:50	Cluster markers	Laura
15:00	14:30	13:00	SingleR	Sarah
15:20	14:50	13:20	Break	
15:30	15:00	13:30	Differential Expression	Sarah
16:00	15:30	14:00	To be confirmed	Sarah
16:15	15:45	14:15	Questions	All
16:25	15:55	14:25	Wrap up and feedback	Melissa
16:30	16:00	14:30	<b>End of workshop</b>	