

# Oxford Nanopore Festival Workshop

Introduction to Nanopore sequencing and data analysis

8<sup>th</sup>-9<sup>th</sup> November 2021

St David Complex Seminar Room G.02 and G.02A  
University of Otago



**Otago Genomics Facility**

## Program for Oxford Nanopore Festival Workshop

**Monday 8th November: 9am-3pm**

**Learning how to monitor a run and flow cell loading workshop**

9:00am	<i>Welcome, Nanopore journey and overview of the gridION in the Otago Genomics Facility</i>	<i>Dr. Augustine Chen</i>
	<i>Welcome</i>	<i>Prof. Jo Stanton</i>
9:20am	<i>Presentation on overview and an update on ONT technology and how to monitor a run to get the most out of a flow cell</i>	<i>Mike Yarski, via Zoom, ONT Queensland</i>
10:00am	<i>Morning tea - catered</i>	
10:20am	<i>How to get the most out of a flow cell followed by Q &amp; A</i>	<i>Mike Yarski, via Zoom, ONT Queensland</i>
	<i>Flow cell loading sessions (1.5 hour per session)</i>	<i>Dr. Augustine Chen &amp; Prof. Jo Stanton</i>
11:00am	<i>Group 1 Hands on flow cell loading session</i>	
12:30pm	<i>Lunch break</i>	
1:30pm	<i>Group 2 Hands on flow cell loading session</i>	

**Tuesday 9th November: 9am-5pm**

**Bioinformatics – Introduction to Nanopore data analysis and applications**

9:00am	Welcome	Dr. Augustine Chen
9:05am	Basic Oxford Nanopore Technologies (ONT)-based assembly benchmarking work  Introduce EPI2ME labs and EPI2ME cloud and use AWS EPI2ME labs for practise	Mike Yarski, via Zoom, ONT Queensland
10:30am	Morning tea - catered	
10:45am	An application exemplar of the ONT platform: a portable/point-of-care clinical test with collaborative coding for pathogen detection and classification in hospital ICU and ED)	Miles Benton, via Zoom, ESR Wellington
	Overview of Jetson Nanopore 'project'. How to set up a system for GPU basecalling', with onsite demonstration [with Prof. Mik Black's help]	Miles Benton, via Zoom, Wellington
11:30am	Examples of adaptive sampling data analysis	Prof. Mik Black, Biochemistry Department, Otago
12:15pm	Lunch - catered	
1:15pm	Deep dive using AWS EPI2ME labs	Bala Periaswamy via Zoom, ONT Singapore
3:00pm	Afternoon tea - catered	
3:15pm	Continue with more AWS EPI2ME labs	Bala Periaswamy
4:30pm	Q&A, Wrap up and Thank you	Prof. Jo Stanton