



Pontificia Universidad  
Católica de Chile  
Facultad de Ciencias  
Biológicas



## Next Generation Sequencing Bioinformatics LAC, Santiago, Chile 23-27 January 2023

Chile (hr)	Sunday 22/1/2023	Monday 23/1/2023	Tuesday 24/1/2023	Wednesday 25/1/2023	Thursday 26/1/2023	Friday 27/1/2023
08:30		MOVE TO THE UNIVERSITY	MOVE TO THE UNIVERSITY	MOVE TO THE UNIVERSITY	MOVE TO THE UNIVERSITY	MOVE TO THE UNIVERSITY
09:00		Introduction to Sequencing Technologies	NGS File Formats QC DR. DANIELA ROBLES 1hr:45min	Variant Calling DR. DANIELA ROBLES 1hr:45min	ChIP-Seq DR. ALEJANDRA MEDINA 1hr:45min	Assembly DR. ERIC T DAWSON 1hr:45min
09:30		DR. MARCELA SJOBERG 1hr:15min				
10:00		Nanopore Sequencing DR. ERIC T DAWSON				
10:30		TEA/COFFEE BREAK	TEA/COFFEE BREAK	TEA/COFFEE BREAK	TEA/COFFEE BREAK	TEA/COFFEE BREAK
11:00		Introduction to VM DR. MARTIN GARCIA	1hr:15min	1hr:30min	1hr:30min	1hr:30min
11:30		Introduction to Unix DR. DANIELA ROBLES 1h:30min				
12:00			Seminar Eric 20min Seminar Alejandra 20min Sala Abate Molina	Public Repositories DR. MARCELA SJOBERG	Seminar Daniela/Ximena Sala Abate Molina	Seminar Martin/Ana Sala Abate Molina
12:30	REGISTRATION					
13:00	BUFFET LUNCH HOTEL	BREAK LUNCH UNIVERSITY	BREAK LUNCH UNIVERSITY	BREAK LUNCH UNIVERSITY	BREAK LUNCH UNIVERSITY	BREAK LUNCH UNIVERSITY
13:30	Restaurant Urbano					
14:00	INTRODUCTION WCSC	Seminar Yesid Cuesta Astroz KEYNOTE SPEAKER Room B201	Read alignment DR. XIMENA IBARRA 2hr	SV Calling DR. ERIC T DAWSON 2hr	RNA-Seq DR. XIMENA IBARRA 2hr	Group Tasks Finalization All instructors 2hr
14:30	Instructors Participant Talks Hotel	Advanced Unix DR. ALEJANDRA MEDINA 1hr				
15:00	Antártica Room					
15:30						
16:00		TEA/COFFEE BREAK	TEA/COFFEE BREAK	TEA/COFFEE BREAK	TEA/COFFEE BREAK	TEA/COFFEE BREAK
16:30	TEA/COFFEE BREAK	1hr:30min	1hr:30min	1hr	1hr:30min	Group Tasks Presentations 1hr:30min Sala Abate Molina 3p x 8g x 10min each
17:00	SESSION 1 Advanced			Group Task Preparation		
17:30	Learning & Training Programme (ALTP)	Group Task Preparation	Group Task Preparation		SESSION 2 ALTP	
18:00	Antártica Room					
18:30	WELCOME DRINKS Speed networking Antártica Room					
19:00						
19:30	DINNER HOTEL	DINNER HOTEL	DINNER HOTEL	DINNER HOTEL	DINNER HOTEL	DINNER HOTEL
20:00	Restaurant Urbano	Restaurant Urbano	Restaurant Urbano	Restaurant Urbano	Restaurant Urbano	Restaurant Urbano
20:30						



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Seminars Titles	
<b>Dr. Yesid Cuesta Astroz</b> Colombian Institute of Tropical Medicine	Multi-omics data integration and network-based analysis in the understanding of host-pathogen interactions
<b>Dr. Eric Dawson</b> Bioinformatics Scientist in Genomics /Artificial Intelligence. Nvidia Corporation	Deep Learning and Acceleration in Bioinformatics Workflows
<b>Dra. Alejandra Medina-Rivera</b> Regulatory Genomics and Bioinformatics Laboratory Laboratorio Internacional de Investigación sobre el Genoma Humano, Universidad Nacional Autónoma de México	Allele specific gene expression during tolerance induction on dendritic cells from Mexican women with systemic lupus erythematosus.
<b>Dra. Daniela Robles Espinosa</b> Cancer Genetics Laboratorio Internacional de Investigación sobre el Genoma Humano, Universidad Nacional Autónoma de México	Genomic landscape of melanoma in Mexican patients.
<b>Dra Ximena Ibarra</b> Cancer Research UK Cambridge Institute, University of Cambridge, UK. Present address: Genomic Sciences, GSK, UK.	A transcriptional and regulatory map of mouse somitogenesis
<b>Dra. Ana Villaseñor Altamirano</b> Brigham and Women's Hospital in the Pulmonary and Critical Care Medicine Division. Brigham and Women's Hospital	Exploring the immune cell dynamics of critical and chronic diseases with single cell RNA-seq
<b>Dr. Martín García Solá</b> Freelance Molecular Biology & Bioinformatic Consultant	Performing transcriptomics atlas with single cell RNA-seq from public data