FACULTAD DE MEDICINA
UNIVERSIDAD DE CHILE

3rd Workshop in Cancer
Genomics and Bioinformatics

WORKSHOP CALENDAR

Module 1:
Cancer Genomics

Date and Place	Description	Teacher
Monday 16/01 9:00 – 16:30 Aud. Julio Cabello	**International Symposium in Cancer Genomics and Bioinformatics**	
Tuesday 17/01 9:00-9:30 Aud. Eloisa Diaz	**Registration**	
Tuesday 17/01 9:30-10:15 Aud. Eloisa Diaz	**Introduction to Cancer Genomics**	Katherine Marcelain
Tuesday 17/01 10:15-11:00 Aud. Eloisa Diaz	**Genomics and Medicine** History of genomics The Human Genome Project The 1000 Genomes Project	Ricardo Verdugo
11:00 – 11:15	**Coffee/Tea Break**	
Tuesday 17/01 11:15-13:00 Aud. Eloisa Diaz	**Next generation sequencing** Mayor technologies for NGS Applications Clinical interpretation	Ricardo Verdugo
Tuesday 17/01 14:30-15:30 Aud. Eloisa Diaz	**Oncomine Assay Research Portfolio: a unified approach to NGS-based companion diagnostics development for oncology**	Beatriz Pinto
Tuesday 17/01 15:30 – 16:30 Aud. Eloisa Diaz	**Making The Cancer Genome free. TCGA and other consortia.**	Peter Roberts
16:30 – 16:50	**Coffee/Tea Break**	
Tuesday 17/01 16:50 - 17:50 Aud. Eloisa Diaz	**Data analysis with the Cancer Genomics Cloud**	Gaurav Kaushik

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Wednesday 18/01 9:00-11:00 Sala Danko Brncic	**Finding CCLE data and running simple analyses** Training	Gaurav Kaushik,
11:00-11:20	**Coffee/Tea Break**	
Wednesday 18/01 11:20-13:00 Sala Danko Brncic	**Finding CCLE data and running simple analyses** Training	Gaurav Kaushik,
13:00 - 14:30	**Lunch**	
Wednesday 18/01 14:30-16:00 Sala Danko Brncic	**Finding CCLE data and running simple analyses** Training	Gaurav Kaushik,
16:00 – 16:20	**Coffee/Tea Break**	
Wednesday 18/01 16:20-17:30 Sala Danko Brncic	**Finding CCLE data and running simple analyses** Training	Gaurav Kaushik,
Thursday 19/01 9:00- 11:00 Sala Danko Brncic	**Finding CCLE data and running simple analyses** Group Exercises. Report Preparation.	Gaurav Kaushik,
11:00 – 11:20	**Coffee/Tea Break**	
Thursday 19/01 11:20- 13:00 Sala Danko Brncic	**Finding CCLE data and running simple analyses** Group Exercises. Report Presentation.	Gaurav Kaushik,
Thursday 19/01 13:30-14:15 Sala Danko Brncic	**LUNCH SEMINAR: Advancing Cancer Genomics Research Using illumina NGS**	Daniella Rossetto
Thursday 19/01 14:30-16:00 Sala Danko Brncic	**TP: Exploring public oncology genomics data bases.** Hands-on training on OASIS-genomics, cBioportal, and other resources.	Peter Roberts
16:00 – 16:15	**Coffee/Tea Break**	
Thursday 19/01 16:15-17:30 Sala Danko Brncic	**TP: Exploring Public data bases.** Hands-on training on OASIS-genomics, cBioportal, etc.	Peter Roberts

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Friday 20/01 9:00-11:00 Sala Danko Brncic	**TP: Exploring Public data bases.** Exercises. Preparing report for evaluation.	Peter Roberts
11:00 – 11:20	**Coffee/Tea Break**	
Friday 20/01 11:20-13:00 Sala Danko Brncic	**TP: Exploring Public data bases.** Exercises. Preparing report for evaluation.	Peter Roberts
Friday 20/01 14:30-16:00 Sala Danko Brncic	Report presentation. (written and oral)	KM, RV, RA, PR
16:00 – 16:15	**Coffee/Tea Break**	
Friday 20/01 16:15-17:30 Sala Danko Brncic	Report presentation. (written and oral)	KM, RV, RA, PR

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Module 2:
Bioinformatics

Coffee/Tea Breaks: 11:00 and 16:00.
Sala Danko Brncic

Date and Place	Description	Teacher
Monday 23/01 9:00-13:00 Computer Lab	**RNASeq data analysis: Hands-on training** Pipeline Alignment, mapping, etc.	Baohong Zhang
Monday 23/01 14:30-17:30 Computer Lab	**RNASeq: Hands-on training** Differential gene expression Gene isoforms´s expression SNP Variants	Baohong Zhang
Tuesday 24/01 9:00-13:00 Computer Lab	**RNASeq: Hands-on training** Data analysis	Baohong Zhang
Tuesday 24/01 14:30-17:30 Computer Lab	**RNASeq: Hands-on training** Visualization using STARtools	Baohong Zhang
Wednesday 25/01 9:00-17:30 Computer Lab	**RNASeq: Hands-on training** Exercises. Tasks. Report Generation	Zhang, RV.
Thursday 26/01 9:00-17:30 Computer Lab	**Target Sequencing data analysis** using IonReport™ software.	Gonzalo Sepúlveda
Friday 27/01 9:00-13:00 Computer Lab	**Target Sequencing analysis** using IonReport™ software. Final Report Generation.	Gonzalo Sepúlveda
Friday 27/01 14:30-17:30 Sala Danko Brncic	**Target Sequencing analysis** using IonReport™ software (Thermo Fisher Scientific) Final Report presentations.	Gonzalo Sepúlveda
17:30 – 18:00 Sala Danko Brncic	**Cheese & Wine**	

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Module 3:
Cancer Translational Genomics Laboratory

Coffee/Tea Breaks: 11:00 and 16:00.
Sala de Seminario Laboratorio Genómica del Cáncer

The schedule of these can change according to the time available between activities

Date and Place	Description	Teacher
Monday 23/01 9:00 -11:00 Sala Danko Brncic	**Introduction to the Oncomine Focus Cancer Panel & Ion Torrent sequencing technology** Protocol and Workflow revision	Matias Freire, Jessica Toro
Monday 23/01 11:20-17:30 Lab Genómica del Cáncer	**TP: Cancer genomics laboratory 1** Library preparation	Matias Freire, Jessica Toro
Wednesday 25/01 9:00-17:30 Lab Genómica del Cáncer	**TP: Cancer genomics laboratory 3** Library Pooling and Sequencing	Matias Freire, Jessica Toro
Thursday 26/01 9:00-17:30 Computer Lab	**Target Sequencing data analysis** using IonReport™ software (Thermo Fisher Scientific)	Gonzalo Sepúlveda
Friday 27/01 9:00-13:00 Computer Lab	**Target Sequencing analysis** using IonReport™ software (Thermo Fisher Scientific) Final Report Generation.	Gonzalo Sepúlveda
Friday 27/01 14:30-17:30 Sala Danko Brncic	**Target Sequencing analysis** using IonReport™ software (Thermo Fisher Scientific) Final Report presentations.	Gonzalo Sepúlveda, Ricardo Verdugo, Katherine Marcelain
17:30 – 18:00 Sala Danko Brncic	**Cheese & Wine**	