

Hands on workshop on “Integrated OMICS III” (Genomics, Proteomics and Bioinformatics)

19-23 September, 2022

Workshop Scheduler

Day 1 (19/09/2022)

Timings	Type	Title	Venue	Speaker
9.00 to 9.15	Registration	Registration	Golgi	
9.15 to 10.15	Lecture	Effectively integrating genomic and metabolomic data to understand regulation of cell growth	Golgi	Sunil
10.15 to 10.30	Break	Tea break	Golgi	
10.30 to 11.15	Lecture	Introduction to Next generation Sequencing technologies	Golgi	Awadhesh
11.15 to 12.00	Lecture	Introduction to Proteomics technologies	Golgi	Nirpendra
12.00 to 12.45	Lecture	Introduction to NGS data analysis	Golgi	Nitish
12.45 to 13.30	Lunch	Canteen (First Floor)		
13.30 to 18.00	Hands-on	Group I (Genomics): Sample QC and library preparation- RNA Seq	Next Generation Genomics Facility (NGGF)	Narayanan and Awadhesh
		Group II (Proteomics) Sample preparation	MS Facility	Nirpendra

Day 2 (20/09/2022)

Timings	Type	Title	Venue	Speaker
9.30 to 12.30	Hands-on	Group I (Genomics): Library Preparation continue, Library QC- RNA Seq	NGGF	Narayanan and Awadhesh

		Group II (Proteomics) data acquisition	MS Facility	Nirpendra
12.30 to 13.30	Lunch	Canteen (First Floor)		
12.30 to 18.00	Hands-on	Group I (Genomics): Sequencing run setup and data-demultiplexing	NGGF	Narayanan and Awadhesh
		Group II (Proteomics) data acquisition	MS Facility	Nirpendra
19.00 to 20.00	Special dinner	With all the invitees and speakers, Group discussion	Main Canteen	

Day 3 (21/09/2022)

Timings	Type	Title	Venue	Speaker
9.00 to 10.00	Lecture	Biology at True Resolution: Resolving complex biology at Single cell level	Virtual	Dr. Ivonne from 10x Genomics
10.00 to 11.00	Lecture	AP-MALDI Imaging of Tissue and cells	Virtual	Dr. Nivedita from Masstech
11.00 to 11.30	Break	Tea break		
11.30 to 12.15	Lecture	Droplet Digital PCR driving new discoveries in Life Science & Diagnostics	InStem lecture hall	Kompelli Sai Kumar from Bio-Rad
12.15 to 13.00	Lecture	Label free Quantiation work using SWATH work flow	InStem lecture hall	Dr.Shadab Ahmad, CCAMP, Biopharma lab
13.00 to 13.45	Lunch	Canteen (First Floor)		
13.45 to 18.00	Hands-on	Group II (Genomics): Sample QC and library preparation- RNA Seq	NGGF	Narayanan and Awadhesh
		Group I (Proteomics) Sample preparation	MS Facility	Nirpendra

Day 4 (22/09/2022)

Timings	Type	Title	Venue	Speaker
9.30 to 12.30	Hands-on	Group II (Genomics): Library Preparation continue, Library QC-RNA Seq	NGGF	Narayanan and Awadhesh
		Group I (Proteomics) data acquisition	MS Facility	Nirpendra
12.30 to 13.30	Lunch	Canteen (First Floor)		
12.30 to 18.00	Hands-on	Group II (Genomics): Sequencing run setup and data-demultiplexing	NGGF	Narayanan and Awadhesh
		Group I (Proteomics) data acquisition	MS Facility	Nirpendra

Day 5 (23/09/2022)

Timings	Type	Title	Venue	Speaker
9.00 to 11.00	Hands-on	Hands on RNA Seq data analysis	Raspuri	Nitish and Akshara
11.00 to 11.15	Break	Tea break	Main Canteen	
11.15 to 13.00	Hands-on	Hands on RNA Seq data analysis (Continue)	Raspuri	Nitish and Akshara
13.00 to 13.45	Lunch	Canteen (First Floor)		
13.45 to 15.30	Hands-on	Hands on RNA Seq data analysis (Continue)	Raspuri	Nitish and Akshara
15.30 to 16.00	Break	Tea break	Main canteen	
16.00 to 16.30		Participants test/ feedback	Raspuri	
16.30 to 17.00		Closing remarks and Certification Best Participant Prize	Raspuri	

Group-Wise Details of the Hands-on session

Group	19th Sept.	20th Sept.	21th Sept.	22th Sept.	23 rd Sept.
I	Genomics	Genomics	Proteomics	Proteomics	Bioinformatics (RNA Seq Analysis)
II	Proteomics	Proteomics	Genomics	Genomics	