

**Workshop on “Integrated OMICS” (Genomics, Proteomics, Metabolomics and Bioinformatics)
February 25 – March 1, 2019
Workshop Schedule**

Day 1 (25/02/2019)

Timings	Type	Title	Venue	Speaker
9.00 to 9.15	Registration	Registration		
9.15 to 10.15	Lecture	Genomics	LH2	Dasaradhi Palakodeti
10.15 to 10.30	Break	Tea break	LH2	
10.30 to 11.15	Lecture	Introduction to Next generation Sequencing technologies	LH2	Awadhesh P
11.15 to 12.00	Lecture	Introduction to Mass spectroscopy technologies & applications in lipidomics	LH2	Dhananjay S
12.00 to 12.45	Lecture	Introduction to Proteomics technologies	LH2	Chhaya P
12.45 to 13.30	Lunch	Lunch Admin canteen (2nd Floor)		
13.30 to 17.45	Practical	Group Ia & Ib (Genomics): Sample QC and library preparation-RNA Seq	NGGF	Awadhesh P
		Group IIa (Metabolomics) Sample preparation	MS Facility, CCAMP	Dhananjay S/ Padma R
		Group IIb (Proteomics) Sample preparation	MS Facility, NCBS	Chhaya P
17.45 to 18.00		Group discussion		

(LH2: Lecture Hall 2)

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Day 2 (26/02/2019)

Timings	Type	Title	Venue	Speaker
9.30 to 10.30	Lecture	Chromatography and Metabolomics technologies	Chloroplast	Padma R
10.30 to 10.45	Break	Tea break	Vacuole	
10.45 to 11.45	Lecture	Genomics	Chloroplast	Dimple N
11.45 to 12.30	Lecture	Metabolomics	Chloroplast	Radhika V
12.30 to 13.30	Lunch	Lunch Admin canteen (2nd Floor)		
13.30 to 18.00	Practical	Group Ia & Ib (Genomics): Library QC, Sequencing run setup and data-demultiplexing	NGGF	Awadhesh P
		Group IIa (Metabolomics) data acquisition	MS Facility, CCAMP	Dhananjay S/ Padma R
		Group IIb (Proteomics) data acquisition	MS Facility, NCBS	Chhaya P
19.00 to 20.0	Special dinner	With all the invitees and speakers, Group discussion	Main canteen	

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Day 3 (27/02/2019)

Timings	Type	Title	Venue	Speaker
9.30 to 10.15	Lecture	Investigating pleiotropic effects of single mutations	Chloroplast	Deepa A
10.15 to 10.30	Break	Tea break	Vacuole	
10.30 to 11.15	Lecture	Discovering the role of methionine as a growth signal, using an integrated metabolomic and genomic approach	Chloroplast	Sunil Laxman
11.15 to 12.00	Lecture	Importance/advantages of advanced technology of orbitrap mass spectrometry in proteomics and metabolomics workflows	Chloroplast	Krihsna Mane, Thermofisher
12.00 to 12.45	Lecture	Mass spectrometry measurements of neurotransmitters and neuromodulators in small insect brains	Chloroplast	Axel Brockmann
12.45 to 13.30	Lunch	Lunch Admin canteen (2nd Floor)		
13.30 to 17.45	Practical	Group IIa & IIb (Genomics): Sample QC and library preparation-RNA Seq	NGGF	Awadhesh P
		Group Ia (Metabolomics) Sample preparation	MS Facility, CCAMP	Dhananjay S/ Padma R
		Group Ib (Proteomics) Sample preparation	MS Facility, NCBS	Chhaya P
17.45 to 18.00		Group discussion		

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Day 4 (28/02/2019)

Timings	Type	Title	Venue	Speaker
9.30 to 10.30	Lecture	Metabolomics and proteomics of long lived drosophila mutants	Chloroplast	Arvind R
10.30 to 10.45	Break	Tea break	Vacuole	
10.45 to 11.45	Lecture	Use of mass spectrometric data independent acquisition in multi-omics applications	Chloroplast	Dipankar, Sciex
11.45 to 12.30	Lecture	Genomics	Chloroplast	Paras, ILS
12.30 to 13.30	Lunch	Lunch Admin canteen (2nd Floor)		
13.30 to 17.45	Practical	Group IIa & IIb Genomics): Library QC, Sequencing run setup and data-demultiplexing	NGGF	Awadhesh P
		Group Ia (Metabolomics) data acquisition	MS Facility, CCAMP	Dhananjay S/ Padma R
		Group Ib (Proteomics) data acquisition	MS Facility, NCBS	Chhaya P
17.45 to 18.00		Group discussion		

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Day 5 (01/03/2019)

Timings	Type	Title	Venue	Speaker
9.30 to 10.30	Lecture	Introduction to NGS data analysis	Chloroplast	Aswin S
10.30 to 10.45	Break	Tea break	Vacuole	
10.45 to 12.30	Practical	Hands on NGS data analysis	Raspuri	Mohak and Nitish
12.30 to 13.30	Lunch	Lunch Admin canteen (2nd Floor)		
13.30 to 15.30	Practical	Hands on NGS data analysis (Continue)	Raspuri	Mohak and Nitish
15.30 to 15.45	Break	Tea break	Main canteen	
15.45 to 16.30		Participation Test / Feed Back	LH 1	
16.30 to 17.00		Closing remarks and Certification	LH 1	

Group-Wise Details of the Hands-on session

#	Group	25th Feb	26th Feb	27th Feb	28th Feb	1st Mar
1	Ia	NGS	NGS	MS (Metabolomics)	MS (Metabolomics)	Bioinformatics
2	Ib	NGS	NGS	MS (Proteomics)	MS (Proteomics)	
3	IIa	MS (Metabolomics)	MS (Metabolomics)	NGS	NGS	
4	IIb	MS (Proteomics)	MS (Proteomics)	NGS	NGS	