



Workshop on high-resolution respirometry

CSIR-Centre for Cellular and Molecular Biology

7 – 8 February 2017

Jointly organized by

CCMB, SMRM, OROBOROS

Programme

Day 1	7th February 2017	Weblink
09:00-09:30	Registration	
09:30-09:40	Welcome by Dr. Rakesh K. Mishra , Director, CCMB	
09:40-09:45	About SMRM and Workshop by Dr. K. Thangaraj	
09:45-09:50	Comments by Dr. Erich Gnaiger , OROBOROS Instruments, Austria	
09:50-10:00	Introduction of participants and their research interests	
10:00-11:00	Get started with the O2k: Overview with video clips.	O2k-Manual
11:00-11:30	<i>Coffee/tea break</i>	
11:30-13:00	Principles of high-resolution respirometry: From switching on the O2k to the experimental result – oxygen sensor calibration and quality control.	POS-calibration-SOP
13:00-14:00	<i>Lunch</i>	
14:00-15:30	Comprehensive OXPHOS analysis: substrate-uncoupler-inhibitor titration (SUIT) protocols for respiratory control by coupling and mitochondrial pathways, SUIT reference assay.	The Blue Book* SUIT reference protocol
15:30-16:00	<i>Coffee/tea break</i>	
16:00-17:00	Lecture by Dr. Robert Pitceathly , UCL, London	
17:00-19:00	Demo-Experiment: High-resolution respirometry with freeze-dried yeast.	Yeast: HRR Reference Assay

Day 2	8th February 2017	Weblink
08:30-11:00	Demo-Experiment	
11:00-11:30	<i>Coffee break</i>	
11:30-13:00	HRR experiments – discussion of conceptual and technical details and Hands-on data analysis	
13:00-14:00	<i>Lunch</i>	
14:00-15:30	Technical support and open innovation	Technical support
15:30-16:00	<i>Coffee break</i>	
16:00-17:00	Q&A session on HRR and OXPHOS analysis: Design of experimental protocols	SUIT protocols
17:00-17:30	The Bioblast wiki, O2k-Network and MITOEAGLE - feedback & conclusions	MITOEAGLE
17:30-19:30	Concluding session	

*printed in workshop materials

Limited to 20 participants

Registration Fee: Rs. 4500 (including accommodation)

Contact: srm@ccmb.res.in