

3 Days Hands On Workshop
“Molecular Methods in Diagnosis & Research”

(19th to 21st February '2018)

Organized by Department of Microbiology & Multi-disciplinary Research Unit
 Assam Medical College & Hospital, Dibrugarh

Day 1 (19.02.2018)		
TIME	TOPIC	SPEAKER/DEMONSTRATOR
8:00 AM – 8:30 AM	Registration	
8:30 AM– 9:00 AM	Inauguration	
9:00 AM– 9.15 AM	Pre-Test Evaluation	
9.15 AM – 10.00 AM	Introduction to PCR and Post PCR Analysis	Dr. Probodh Borah Professor of Microbiology, Department of Biotechnology, College of Veterinary Science, Khanapara, Guwahati
Hands-on Training		
10.00 AM – 02:00 PM	DNA Extraction	Mr. Navonil Gogoi, SRF Mr. Manash P Borah, Lab Tech Miss Lunamoni Phukan, Lab tech
	RNA Extraction	
	cDNA Synthesis	
	Conventional PCR	
	Gel Electrophoresis	
	Real Time PCR	Mr. Parag Ranjan Bhuyan, Lab Tech Mr. Pradip Thakuria, Lab tech
2:00 PM– 2:30 PM	Lunch	
2.30 PM – 2.45 PM	Interpretation of PCR result	Mr. Navonil Gogoi, SRF, Dept of Microbiology, AMCH
2.45 PM– 3.15 PM	Multiplexing condition for PCR	
3.15 PM– 3.30 PM	Tea Break	
3.30 PM – 5.00 PM	Isolation of Peripheral Blood Mononuclear Cells (PBMC)	Dr. Biswajit Chakraborty Scientist II, Multidisciplinary Research Unit, AMCH

Day 2 (20.02.2018)		
TIME	TOPIC	SPEAKER/DEMONSTRATOR
8:30 AM – 9:00 AM	Breakfast	
9:00 AM– 9:45 AM	Introduction to Sequencing and Post Sequencing Analysis	Dr. B. J. Borkakoty, Scientist E, RMRC(NE), Dibrugarh.
Hands-on training:		
9:45 AM – 2:00P.M.	Purification of PCR products for Sequencing	Dr. Sanjib Dey, Application Scientist, Thermo Fisher Scientific.
	Sequencing reaction setup	
	Post Sequencing Analysis using Software	Dr. B. J. Borkakoty, Scientist E, RMRC(NE), Dibrugarh Mr. Navonil Gogoi, SRF, Dept of Microbiology, AMCH Mr. Koushal Yadav, Research Associate, RMRC (NE), Dibrugarh
2:00 PM – 2:30 PM	Lunch	

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2:30 PM – 4:00 PM	Post Sequencing cleanup and sequencing run	Dr. Sanjib Dey, Application Scientist, Thermo Fisher Scientific.
4:00 PM-5:00 PM	Tools and Methods in Primer Designing	Dr. B. J. Borkakoty, Scientist E, RMRC (NE), Dibrugarh Mr. Navonil Gogoi, SRF, Dept of Microbiology, AMCH Dr. Koushal Yadav, Research Scientist, RMRC (NE), Dibrugarh

Day 3 (21.02.2018)

TIME	TOPIC	SPEAKER/DEMONSTRATOR
8:30 AM – 9:00 AM	Breakfast	
9:00 AM – 9:30 AM	Observation & Interpretation of Previous Day Sequencing results	Dr. Sanjib Dey, Application Scientist, Thermo Fisher Scientific.
9:30 AM – 10:30 AM	Multilocus Sequence Typing (MLST)	Mr. Navonil Gogoi, SRF, Dept of Microbiology, AMCH
10:30 AM – 12.00 Noon	FACS	Mr. George Banik, Application Specialist, BD Miss Rashmi Roy, SRF, Dept of Pathology
12.00 Noon – 2.00 PM	Karyotyping	Dr. Giriraj Kushre, Associate Professor of Anatomy, AMCH Mr Debajit Saikia, Scientist I, MRU, AMCH
2:00PM – 2:30 PM	Lunch	
2:30 PM – 3:30 PM	ANA Screening by IFA and ANA Blot	Prof(Dr.) Lahari Saikia, Head of the Department of Microbiology, AMCH Dr. Mithu Medhi Assistant Professor of Microbiology, Assam Medical College, Dibrugarh Mr. Jadumoni Borah, Lab Technician Mr. Manoj Barman, Lab Technician
3.30 PM – 3.45 PM	Tea Break	
3:45 PM – 4:00 PM	Post Test Evaluation and Valedictory	

VENUE: Department of Microbiology & Multidisciplinary Research Unit, Basic Science Building, Assam Medical College, Dibrugarh, Assam.

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