

CAREER BOOSTING SHORT-TERM TRAINING COURSE ON RECENT TECHNIQUES IN INFECTIOUS DISEASE DIAGNOSIS

FOR MID-CAREER DOCTORS/ SCIENTISTS



OVERVIEV

North eastern region of India, comprising of 7 states, is a less advanced region, where avenues for better education, training and workplace are limited. In last 3 decades Government of India (GOI) has focused its attention on this region. The expert group discussed the issue and realized that there is an urgent need to impart hands-on training to local mid-career scientists. In that direction, North Eastern Region-Biotechnology Programme Management Cell (NER-BPMC) is a programme of the DBT, GOI, for development, coordination and monitoring of biotechnology programmes in the north eastern states of India and managed by the Biotech Consortium India Limited (BCIL), New Delhi.

PURPOSE OF THE TRAINING

The main aim of this training programme is to develop trained manpower in the North-Eastern Region of India, who after training, can successfully apply molecular techniques for rapid and accurate diagnosis of human infectious diseases and guide and mentor biotechnology research and training programmes to local students and other colleagues.

To impart theoretical and practical knowledge of recent advances in epidemiology and diagnosis of infectious diseases at global and regional level.

To achieve the above goal the DBT has recommended our laboratory setup (Division of Clinical Microbiology, Department of Laboratory Medicine, AIIMS, New Delhi-110029, India) as a training centre for this purpose. Hence this training is being organised on behalf of DBT to full fill the above global goal.

WHAT IS INCLUDED IN THE TRAINING?

In this training the participants will learn the principles behind infectious disease diagnostics and various existing methods. The training curriculum has two sections. Basically, first part will be based on theory and it will help participants to understand the next session which is direct, hands-on experience on molecular techniques.

WHO SHOULD PARTICIPATE IN TRAINING?

- Only residents of NER of India are eligible for this training.
- Only permanent faculty with MD/ PhD degree working in State/Central govt department will be eligible.
- Upper age Limit:45 Years

NO TRAINING FEE

No training fee will be required. Free accommodation or TA/DA will be paid to the participants as per DBT guidelines by BCIL

NUMBER OF SEATS

- Maximum 10 to 12 participants will be selected for each session. There will be reservation for SC/ST as per central reservation rules.
- The applications will be short listed on the basis of applicant's qualification and prior exposure to diagnostic work/ responsibilities

HOW TO APPLY?

Download application form from AIIMS website: http://www.aiims.edu/aiims/events/rcc4.htm
Send completely filled application to: Prof. Sarman Singh, Head, Division of Clinical Microbiology, Dept. of Lab. Medicine, AIIMS, New Delhi, Email: sarman_singh@yahoo.com. For any inquiries please feel free to contact us: parveenmicro02@gmail.com, anilgupta.51@gmail.com, Phone: (91-11) 2659-4977

WHEN IS THE TRAINING CONDUCTED?

Training is scheduled three times in a year (2012-13): December-2012, April- 2013 and August-2013

TRAINING SUMMARY

DAYS	SESSION	TITLE		
Day-1	Forenoon	Introduction and inaugural session*		
Monday)	Afternoon	Basic concepts to setting up a molecular laboratory		
Day-2	Forenoon	Quality control and Quality assurance in the laboratory*		
(Tuesday)	Afternoon	Emerging infectious diseases*		
Day-3	Forenoon	Sample processing for Mycobacteriosis diagnosis		
(Wednesday)	Afternoon	Microscopically diagnosis of Mycobacteriosis		
Day-4	Forenoon	DNA extraction for molecular detection & speciation of		
(Thursday)	Afternoon	Mycobacterium		
(Thaisaay)		Cloning, expression & purification of recombinant proteins*		
Day-5	Forenoon	Detection & speciation of Mycobacterium by <i>M-PCR</i>		
(Friday)	Afternoon	Role of Microarray in diagnosis*		
Day-6	Forenoon	Demonstration of ELISA		
(Saturday)	Afternoon	Demonstration of automated ELISA		
Day-7 (Sunday)		Free day		
Day-8	Forenoon	Real Time PCR: An influential tool in research and diagnostics		
(Monday)	Afternoon	Demonstration of Real Time PCR		
Day-9	Forenoon	NASBA: A potent advanced molecular method for detection of HIV		
(Tuesday)	Afternoon	Demonstration of NASBA		
Day-10	Forenoon	Line probe Assay: An authentic advance molecular method of		
(Wednesday)		detection of MDR/XDR M. tuberculosis		
(33 0 0 1 1 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Afternoon	Demonstration of LiPA		
Day-11	Forenoon	TaqMan: An effective advance molecular method in diagnostic		
(Thursday)		research		
	Afternoon	Demonstration of TaqMan assay		
		DNA sequencing & its role in diagnostics research*		
Day-12	Forenoon	Diagnosis of Leishmaniasis		
(Friday)	Afternoon	Diagnosis of toxoplasmosis		
Day-13 (Saturday)	Forenoon	Final review and closing the training course		

^{*} Theory based classes



APPLICATION FORM FOR SHORT TERM TRAINING COURSE

on Recent Techniques in Infectious Disease Diagnosis

Division of Clinical Microbiology, Department of Laboratory Medicine, All India Institute of Medical Sciences, New Delhi-110029, India

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Title:	Mr.	Ms.	Mrs.	Dr.		Prof.
Name:						
Middle Name:						
Last Name:						
Gender:	Male		Fem	nale		
Category:	Gen		OBC		SC	ST
Organization:						
Job title:						
Contact addre	ss:					
E-mail:						
Phone/ Mobile	No:					
State:						
Nationality:						
Qualifications	: M.Sc.	PhD	MBB	S	MD	Others
Accomodation	: Requ	ired		Not Required		
How did you fi	nd about the tr	raining: (Restrict	to 100 word	ds)		

Describe your duty and job description: (Res	trict to 300 words)
How will this training help you? (Restrict to	300 words)
Full Name of Applicant	
Doto	Signature
Date	Signature
Remarks and Recommendations of the	Host Organization/ Government/ DBT/ any other
Organization:	·
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Data	Signature
Date	Signature
Place	Name of Forwarding Authority
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