

REGISTRATION FEE

Students /Scholars/ Academicians : Rs.600
Industry Professionals : Rs.1000

Participants are requested to send their details through e-mail on or before 10th December, 2018. Confirmation will be sent to the selected participants through e-mail. Only the selected participants are requested to register with registration fee in the form of Demand Draft drawn in favor of "The Principal, SVCE, Sriperumbudur" payable at Indian Bank, Sriperumbudur. Filled in registration form along with DD should be sent to the below mentioned address on or before 12th December, 2018. The number of participants is limited to 40 and the selection will be based on first-cum-first serve.

BONAFIDE CERTIFICATE

(For Students only)

Mr./Ms. _____

is permitted to attend "National workshop on Innovations in TB diagnostics" during 18th - 20th December, 2018 at Sri Venkateswara College of Engineering, Sriperumbudur Tk. - 602 117 Tamilnadu.

Date: _____ Signature
(Designation & Seal)

MAILING ADDRESS

Mr. N. Sathish
Assistant Professor
Department of Biotechnology
Sri Venkateswara College of Engineering
(Autonomous)
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Mobile: +91-9677112636
E-mail: itb2018@svce.ac.in

National workshop on "Innovations in TB diagnostics"

18th - 20th December, 2018

REGISTRATION FORM

1. Name :
2. Designation :
3. Age :
4. Participant Category : Student / Faculty / Industry
5. Branch & Year:
6. Name of the Institution with postal address:
7. E-mail ID:
8. Mobile number:
9. Specialization:
10. Registration fee:
Demand draft No. & Date:

Declaration

I agree to abide by the rules and regulations of the workshop.

Place:

Date:

Signature:

(Copy of this form can be used for registration)

National workshop on "Innovations in TB diagnostics"

18th - 20th December, 2018

Organized by



Department of Biotechnology
Sri Venkateswara College of Engineering

CONVENERS

Prof. M. Sivanandham
Prof. E. Nakkeeran

ORGANIZING SECRETARY

Prof. R. B. Narayanan

COORDINATORS

Mr. P. K. Praveen Kumar
Mr. N. Sathish
Mr. D. Suresh kumar

Department of Biotechnology
Sri Venkateswara College of Engineering
(Autonomous)
Sriperumbudur Tk - 602117
Tamil Nadu, India
www.svce.ac.in

ABOUT THE INSTITUTION

Sri Venkateswara College of Engineering (Autonomous) (SVCE), one of the premier technical institutions in Tamilnadu, was established in 1985. The College is situated on the Chennai-Bengaluru National Highway (NH4) about 37 km south-west of Chennai. The college offers 10 UG programmes and 10 PG programmes. The National Board of Accreditation accredited and Assessment and Accreditation Council many of the eligible programmes and SVCE is an ISO 9001:2008 certified institution.

DEPARTMENT OF BIOTECHNOLOGY

Sri Venkateswara College of Engineering noted the recent growth in Modern Industrial Biotechnology. In order to support the growth in Biotechnology, SVCE started the Department of Biotechnology in 2005 under the guidance of our Chairman Dr.A.C.Muthiah, a well known Industrialist who understands the strength of Industrial Biotechnology. The department offers B.Tech and M.Tech Biotechnology programmes under Anna University, Chennai, approved by AICTE. It is also approved as a Research Center in Biotechnology for MS (by Research) and Ph.D. programmes by Anna University, Chennai. The Department has well established laboratory facilities namely Bioprocess and downstream processing, Immunology, Instrumental Methods of Analysis, Genetic Engineering, Animal house, Research Lab, Bioinformatics Lab and Computational Systems Biotechnology Lab.

The Department received Research Grants (1.2 Crore) from various funding agencies such as SERB, ICMR, AICTE, CTS and also several grants (22 lakh) for organizing Short Term Training courses, workshops, faculty development programmes from various funding agencies such as DBT, ICMR, CSIR and EDIL.

PROGRAMME OBJECTIVE

Medical Biotechnology plays a vital role in the use of living cells to research and make products to treat human diseases. Medical Biotechnology and health care areas have emphasis on molecular diagnostics, molecular characterization of pathogens and development of markers for the identification of infections.

Medical Biotechnology application for the diagnosis of TB would be carried out incorporating the various techniques like DNA isolation from standard strain of NTM, the analysis of the quality of the DNA, use of PCR with primers, application of specific markers checking the sensitivity and resistance and also the slide culture technique. Keeping in view of the medical need for the diagnosis of TB, this workshop is focused to train the graduates and research scholars with hands-on-experience on various TB diagnostic techniques. Through this Workshop the participants will be able to perform diagnostic operations independently and interact with the experts in the related field.

Proposed Invited Speakers from Industries & Institutions

1. Dr. S A Patil, Director, National JALMA institute of Leprosy and other Mycobacterial diseases, Agra.
2. Dr. Gomathy N.S, Scientist C, National Institute for research in Tuberculosis, Chetpet, Chennai - 600031
3. Dr. Ramalingam Bethunaickan, Scientist D, National Institute for research in Tuberculosis, Chetpet, Chennai - 600031

COURSE CONTENT & SCHEDULE

The workshop consists of series of hands-on-sessions on various TB diagnostic techniques. the content and day-wise schedule is as follows:

- Isolation of DNA from the standard strain of NTM
- Basic analysis of determining the quality of DNA extract
- Electrophoresis analysis to confirm amplicons successfully generated
- Use of pcr amplification for the diagnosis of MTB and NTM with primers is 6110 & is 1245.
- Use of specific markers for the antibiotic resistance to classify as sensitive and drug resistant strains.
- This workshop would also include informative lectures on tuberculosis and its diagnosis by eminent speakers.

VENUE

Sri Venkateswara College of Engineering, Sriperumbudur Tk.- 602 117, Tamilnadu, India.

TRANSPORTATION

The participants can avail the SVCE bus facility to attend this programme. For route details, please refer www.svce.ac.in.

ACCOMMODATION

Accommodation can be arranged in the nearby hotels on prior notice, for which the participants will have to bear the charges and the participants are advised to send the request on or before 15th December, 2018 to ensure the accommodation.

DATES TO REMEMBER

- Last date for e- registration : 10.12.2018
Last date for registration with DD : 12.12.2018



Department of Biotechnology
Sri Venkateswara College of Engineering



CSIR - NEW DELHI
SPONSORED

NATIONAL WORKSHOP ON "INNOVATIONS IN TB DIAGNOSTICS"
18th - 20th December 2018

PROGRAM SCHEDULE

TIME	EVENTS
18th December, 2018	
09.00 AM - 09.30 AM	Registration
09.30 AM - 09.35 AM	Prayer Song
09.35 AM - 09.40 AM	Welcome address by Prof. E. Nakkeeran Head, Department of Biotechnology Sri Venkateswara College of Engineering
09.40 AM - 09.55 AM	Patron Address by Prof. M. Sivanandham Secretary Sri Venkateswara Educational & Health Trust Chennai
09.55 AM - 10.00 AM	Introducing the Chief Guest Dr. Srikanth Prasad Tripathy Scientist 'G' & Director National Institute for Research in Tuberculosis Chennai.
10.00 AM - 10.05 AM	Welcoming the Chief guest By Bouquet and Lighting the Kuthuvillakku by Chief guest
10.05 AM - 10.10 AM	Releasing the Workshop magazine by Chief guest
10.10 AM - 10.45 AM	Inaugural Lecture by Chief guest "Recent Advances in TB"

10.45 AM - 11.00 AM	Hi-tea
11.00 AM - 11.45 AM	Lecture by Prof. R. B. Narayanan Professor Sri Venkateswara College of Engineering
11.45 AM - 12.30 PM	Lunch
12.30 PM - 01.15 PM	"Newer Diagnostics for TB" Lecture by Dr. N. S. Gomathi, Scientist C National Institute for Research in Tuberculosis Chennai.
01.15 PM - 03.15 PM	Hands on session Novel RT PCR based Molecular Assay Truenat
19th December, 2018	
Visit to NIRT (Endemic village or Tambaram Sanitorium and NIRT)	
20th December, 2018	
09.00 AM - 09.45 AM	Next Generation Sequencing Lecture by Dr. R. Uma Devi, Scientist D. National Institute for Research in Tuberculosis Chennai.
09.45 AM - 10.00 AM	Hi -Tea
10.00 AM - 1.15 AM	Hands on session Isolation of PBMC from blood and Isolate Monocytes from blood / PBMC
1.15 AM - 02.00 PM	Lunch
2. 00 PM - 03.00 PM	Valedictory function (Valedictory address by Chief guest, Feedback from participants, Certificate distribution, vote.of thanks)



Department of Biotechnology
Sri Venkateswara College of Engineering



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N. Sathyan



Prof. E. NAKKEERAN, M. Tech., Ph.D.
Professor & Head
Department of Biotechnology
Sri Venkateswara College of Engineering
Chittoor - 522 117, Andhra Pradesh



Report of National Workshop on

National workshop on "Innovations in TB diagnostics"

Sponsored by ICMR - New Delhi held between 18th- 20th December, 2018

The Department of Biotechnology, Sri Venkateswara College of Engineering conducted the National workshop on "Innovations in TB diagnostics" sponsored by ICMR - New Delhi held between 18th- 20th December, 2018.

27 external participants registered for this National workshop from various colleges of Tamil Nadu. Inaugural function started with a prayer song at 9.00 am., Welcome address by Prof. E. Nakkeeran, Professor & Head, Department of Biotechnology, Sri Venkateswara College of Engineering, Sriperumbudur followed by address of Prof. S. Ganesh Vaidyanathan, Principal, Sri Venkateswara College of Engineering, Sriperumbudur. It was followed by the convener address by Prof. M. Sivanandham, Secretary, Sri Venkateswara Educational and Health Trust, Chennai. Organizing secretary, Prof. R. B. Narayanan, Professor, Department of Biotechnology introduced the chief guest Dr. Srikanth Prasad Tripathy Scientist 'G' & Director National Institute for Research in Tuberculosis Chennai. Inauguration of the workshop function was started by lighting the lamp and the workshop manual was released by chief guest. Hi-Tea was provided to the participants. Chief Guest gave an inaugural address and a technical talk on "Recent Advances in TB". Participants were served with lunch. After lunch break, Dr. N. S. Gomathi, Scientist C, National Institute for Research in Tuberculosis, Chennai delivered a technical talk on "Newer Diagnostics for TB". After the lecture, Hands on Session on "Novel RT PCR based Molecular Assay Truenat", to the participants by Dr. N. S. Gomathi, Scientist C, National Institute for Research in Tuberculosis, Chennai was provided.

On day 2, 19th December 2018 participant were taken for a field trip to NIRT, Chetpet. Dr. N. S. Gomathi, Scientist C, National Institute for Research in Tuberculosis, Chennai briefed on the activities of their institute till lunch break. After lunch break they were explained with demonstration on various microscopic methods of analysis of sample and advanced methods used to identify TB infection was carried out.

On day 3, 20th December 2018 Dr. R. Uma Devi, Scientist D, National Institute for Research in Tuberculosis, Chennai delivered a Lecture on Next Generation Sequencing to the participants. The lecture session was followed by Hi -Tea. Tea break was followed by Hands on session Isolation of PBMC from blood and Isolate Monocytes from blood / PBMC by Dr. R. Uma Devi, Scientist D, National Institute for Research in Tuberculosis, Chennai. Certificates were issued to the participants. The organizing secretary, Prof. R. B. Narayanan delivered a vote of thanks. The organizing secretary whole heartedly thanked the two National funding agency CSIR-New Delhi, for the financial grant sanctioned to organize this workshop for three days. He also thanked the college management for their encouragement and the participants for their keen interest to participate in this workshop. Then the programme was ended with National Anthem by 3:10pm. Then the photo session was arranged for the participants along with resource person, and faculty members.



Prof. E. NAKKEERAN, M. Tech., Ph.D.
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Sri Venkateswara College of Engineering
Sriperumbudur Tl - 602 117, Tamil Nadu



Sri Venkateswara College of Engineering

(Autonomous)

Pennalur, Sripiperumbudur Taluk - 602117



Department of Biotechnology

CSIR sponsored

National Workshop on Innovations in TB Diagnostics

This is to certify that **Dr. Mr. / Ms. T. Keethana**.....of
Jepriar Engineering College.....has actively participated
in the National Workshop on Innovation in TB Diagnostics organised by the Department of Biotechnology
during 18th - 20th December 2018.

Prof. R. B. Narayanan
Organizing Secretary

Prof. E. Nakkeeran
Head of Department

Prof. S. Ganesh Vaidyanathan
Principal