

**National Conference on “Biology and Therapy of Infections”**  
**February 9<sup>th</sup> and 10<sup>th</sup>, 2018**

**REGISTRATION FORM**

1. Name :
2. Designation :
3. Participant Category :  
(Student/ Faculty/Industry person)
4. Name of the Institution/Organization:
5. Address for Correspondence:
6. Telephone No:
7. E-mail ID:
8. Academic Qualifications:
9. Experience (in years):  
(Teaching / Research / Industry)
10. Registration fee:

Demand draft / Cheque No: \_\_\_\_\_ Date: \_\_\_\_\_

**Declaration:**

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

Signature

**BONAFIDE CERTIFICATE**

Dr./Mr./Ms. \_\_\_\_\_ is a bonafide staff/student of \_\_\_\_\_. She/he is permitted to attend the National Conference on “Biology and Therapy of Infections” on 9<sup>th</sup> and 10<sup>th</sup>, February, 2018 at SVCE, Pennalur, Sriperumbudur, Tamil Nadu - 602 117.

Date:

Signature  
(Designation & Seal)

**REGISTRATION FEE**

- Students/Research Scholars: Rs. 600
- Academicians: Rs. 800
- Industry Personnels : Rs. 1000

Participants are requested to register with DD/Cheque in favor of “The Principal, SVCE” payable at Indian Bank, Sriperumbudur. Individuals are requested to register by 31<sup>st</sup> January, 2018.

Filled in registration forms along with the bonafide certificate should be emailed to [ncbti@svce.ac.in](mailto:ncbti@svce.ac.in) or sent by post to the following mailing address. The participants for the conference are limited. Therefore, advance registration is highly recommended.

**MAILING ADDRESS**

Dr. R. B. Narayanan  
Professor and Dean  
Department of Biotechnology  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur – 602 117

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**National Conference on “Biology and Therapy of Infections”**

**Sponsored by**

**ICMR, NEW DELHI**



**Organized by**

**Department of Biotechnology**  
**Sri Venkateswara College of Engineering**  
**(Autonomous)**



**February 9<sup>th</sup> and 10<sup>th</sup>, 2018**

**Conveners**

Prof. M. Sivanandham  
Prof. E. Nakkeeran

**Organizing Secretary**

Prof. R. B. Narayanan

**Coordinators**

Ms. S. Pandi Prabha  
Ms. N. Kanagam

**Organized by**

Department of Biotechnology  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur-602117  
Tamil Nadu, India  
<http://www.svce.ac.in>

## **ABOUT THE INSTITUTION**

Sri Venkateswara College of Engineering (SVCE), one of the premier technical Autonomous institution 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 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 program under Anna University, Chennai, approved by AICTE. It is also approved as a Research Center in Biotechnology for MS (by Research) and Ph.D. programs by Anna University, Chennai. The Department has well established laboratory facilities namely Genetic Engineering, Bioprocess, Research Labs, Animal house and Computational 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, SERB, ICMR, CSIR and EDII.

SVCE has State of the art research facilities such as Research Lab, Animal House, Plant and Animal Tissue Culture Lab, Genetic Engineering Lab, Advanced Bioprocess and Downstream Processing Lab to carryout research in various fields. Students are encouraged to take up Entrepreneurship through Entrepreneurship Development Cell under SVCE-EPIC Scheme.

### **Scope / Outcome of the Conference**

This Conference aims in creating awareness to students about the statistics of the growing bacterial and viral infections and also to expose them to the vast diagnostic and therapeutic urge to find a solution to the infections. By knowing the areas of opportunities available for research they can indulge themselves in making a societal impact by their Research contribution.

### **Calendar of Events**

#### **Day 1**

#### **Invited talks from Academicians on**

1. Epidemiology of Tuberculosis
2. Immune mechanisms in Filariasis & co-infections
3. Paper presentations

#### **Day 2**

#### **Invited talk from Scientists on**

1. Diagnosis & Therapy of Viral infections
2. Viral infections of the eye
3. Poster Presentations

## **Topics for Paper and Poster Presentations**

- Molecular infections
- Mechanism of Bacterial and Viral pathogenesis
- Therapies for bacterial and viral infections

## **Venue and Duration**

This two days National Conference is organized at Sri Venkateswara College of Engineering, Sriperumbudur, Tamil Nadu, India during 9<sup>th</sup> and 10<sup>th</sup> February, 2018.

## **Transportation Facility**

The participants can avail the SVCE bus facility to attend this conference.

Refer [www.svce.ac.in](http://www.svce.ac.in) for bus route details.

## **Accommodation**

Participants are requested to make their own arrangements for accommodation in nearby hotels at Sriperumbudur, Tamil Nadu.

## **Dates to Remember**

- Last date for registration by post or e-mail: 31.01.2018
- Last date to send abstract for paper and poster presentation : 01.02.2018
- Intimation of selection of paper/poster: 03.02.2018



**"National Conference on "Biology and Therapy of Infections""**

**Organized  
by  
Department of Biotechnology  
Sri Venkateswara College of Engineering  
Sriperumbudur TK -602117**

**Programme Schedule**

<b>9<sup>th</sup> February, 2018</b>	
<b>Time</b>	<b>Events</b>
08.00 AM - 08.50 AM	<b>Registration</b>
08.50 AM - 09.00 AM	<b>Prayer Song</b>
09.00 AM - 09.05 AM	<b>Welcome address by Prof. E. Nakkeeran, Ph. D Professor &amp; Head Department of Biotechnology Sri Venkateswara College of Engineering</b>
09.05 AM - 09.10 AM	<b>Patron's Address by Prof. S. Ganesh Vaidyanathan, Ph. D Principal Sri Venkateswara College of Engineering</b>
09.10 AM - 09.40 AM	<b>Chief Patron's Address by Prof. M. Sivanandham, Ph. D Secretary Sri Venkateswara Educational &amp; Health Trust</b>
09.40 AM - 09.42 AM	<b>Welcoming the Chief guest Dr. Srikanth Tripathy Scientist G &amp; Director Incharge National Institute for Research in Tuberculosis</b>
09.42 AM - 09.45 AM	<b>Introducing the Chief guest</b>

09.45 AM - 10.40 AM	<b>Inaugural Address</b> by <b>Dr. Srikanth Tripathy</b>
10.40 AM - 10.50 AM	<b>Tea Break</b>
10.50 AM - 11.45 AM	Guest Lecture by <b>Dr. S. Subash Babu, MBBS., Ph.D</b> Scientific Director, Center for Excellence in Research (NIH) Tuberculosis Research Centre
11.45 AM - 12.30 PM	<b>Lunch Break</b>
12.30 PM - 03.00 PM	Guest Lecture by <b>Dr. Nivedita Chatterjee</b> Senior Scientist Vision Research Foundation, Sankara Nethralaya
01.45 PM - 03.00 PM	<b>Paper Presentation</b>
<b>10<sup>th</sup> February, 2018</b>	
<b>Time</b>	<b>Events</b>
09.30 AM - 11.00 AM	Guest Lecture by <b>Dr. Navin Khanna</b> Group Leader, Recombinant Gene Products Laboratory International Centre for Genetic Engineering and Biotechnology
11.00 AM - 11.15 AM	<b>Tea Break</b>
11.15 AM - 12.15 PM	<b>Poster Presentation</b>
12.15 PM - 01.00 PM	<b>Lunch Break</b>
01.00 PM - 01.10 PM	<b>Valedictory Function</b> Welcoming the Chief guest <b>Prof. S. Ganesh Vaidyanathan, Ph. D</b> with Bouquet
01.10 PM - 01.15 PM	<b>Introducing the Chief guest</b>
01.15 PM - 2.15 PM	<b>Valedictory address</b> by <b>Prof. S. Ganesh Vaidyanathan, Ph. D</b> Principal Sri Venkateswara College of Engineering
02.15 PM - 02.35 PM	<b>Certificate distribution to the participants</b> by the Chief guest
02.35 PM - 02.45 PM	<b>Feedback from the participants</b>
02.45 PM - 02.55 PM	<b>Vote of Thanks</b>
02.55 PM - 03.00 PM	<b>NATIONAL ANTHEM</b>

*Fandi Prabha*

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

## National Conference on Biology and Therapy of Infections

India has high incidence of diseases like malaria, tuberculosis, HIV, Dengue and chikungunya and leads to substantial deaths annually. According to the WHO statistics on diseases (Report 2017) globally, 2.1 million people were estimated to have become newly infected with HIV in 2015, representing a rate of 0.3 new infections per 1000 uninfected people. The number of global deaths in 2015 attributable to hepatitis is estimated to be in the order of 1.3 million. Similarly in 2015, there were an estimated 212 million malaria cases globally, translating into an incidence rate of 94 per 1000 persons at risk – a 41% decrease from the rate in 2000. Tuberculosis (TB) remains a major global health problem, despite being a treatable and curable disease. In 2015, there were an estimated 10.4 million new TB cases and 1.4 million TB deaths, with an additional 0.4 million deaths resulting from TB among HIV-positive people. This finding highlights the persistence of large inequities in access to high-quality diagnostic and treatment services.

Viral diseases range from trivial infections to plagues that alter the course of history. Because of the enormous variations in viruses and in their epidemiology and pathogenesis, there is no single, magic-bullet approach to control. The most spectacular progress so far has involved vaccines. Vector control and sanitation have contributed greatly. Also, a number of therapeutic antiviral agents are now available, including some for very serious infections such as human immunodeficiency virus type 1 (HIV-1) infection. In addition, interferon alpha is now available for the therapy of several viral diseases. Advances in biotechnology, i.e., recombinant DNA-derived subunit vaccines, now serve as the cornerstone for a fourth generation of vaccines and have led to the development and licensure of a recombinant hepatitis B vaccine. In addition, exciting new technologies such as polynucleotide vaccines are now being tested in animal studies for several viral diseases.

The past success with developing highly effective viral vaccines has been considerable. To develop a new vaccine, researchers must first identify and then produce the virus (or virus components) in quantity under circumstances acceptable for vaccine preparation.

Research is under way to develop the next generation of vaccines, including one that could prevent 90 percent of cervical cancers worldwide. In the early 1990s, two research groups—including one led by Drs. Lowy and Schiller, and another laboratory supported by NCI grants—independently discovered that the proteins that form the outer shell of HPV could form particles that closely resemble the original virus and create high levels of potentially protective antibodies but are not infectious because they lack the viral genes. These virus-like particles became the basis of several subsequent HPV vaccines, including Gardasil®, Cervarix®, and Gardasil® 9. All three vaccines are approved for the prevention of cervical cancer and other conditions caused by certain types of HPV.

However, there are still important indications for which there is no effective vaccine. From a public health perspective an important example for which there is no effective vaccine available is human immunodeficiency virus type 1 (HIV-1). The improved basic science knowledge base of



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DEPARTMENT OF BIOTECHNOLOGY

NATIONAL CONFERENCE ON  
BIOLOGICAL THERAPY AND  
INFECTIOUS DISEASES

FEBRUARY 2018

MANAGING DIRECTOR, SVCE  
DR. S. S. SANKARANARAYANAN

DR. G. NARENDHAN  
DEPARTMENT, SVCE

SECRETARY, SVCE  
DR. S. S. SANKARANARAYANAN

PRINCIPAL, SVCE  
PROF. S. GANESH SRIYANATHAN

HEAD OF DEPARTMENT  
DR. S. SANKARANARAYANAN



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DEPARTMENT OF BIOTECHNOLOGY  
NATIONAL CENTRE FOR ENERGY THERAPY  
10TH ANNIVERSARY 2013-2023

ENERGY THERAPY  
OF INFECTIONS

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DR. S. VENKATESWARAN  
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DR. S. VENKATESWARAN

At the end of the day, the valedictory Function was started with introduction of Chief Guest by Prof. R. B. Narayanan the Organizing Secretary of the event. The Chief Guest, Dr. S. Swaminathan, Expert Virologist Recombinant Gene Products Laboratory, International Centre for Genetic Engineering and Biotechnology, New Delhi encouraged and motivated the students to involve in research and shared his experience as a successful research scientists.

Feed -back on outcome of workshop was received from the participants both orally and through procedure form and requested their recommendations and plan of action for future studies. Ninety percentages (90%) of the participants from other institutions congratulated the workshop organizing team members for proper organization of the conference. They appreciated the effort of workshop team members to make the participants to know about the Infectious diseases like Dengue, TB etc., and opportunities available to fight against those deadly pathogens. Finally the certificate was distributed to the participants by the Chief Guest followed by Vote of Thanks by Ms. N. Kanagam, the Coordinator of the workshop. She thanked the National funding agency namely ICMR- New Delhi for their grant support as sponsorship to conduct this workshop a grand success. Finally the programme was ended with National Anthem song.

*Pandi Prabha*



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