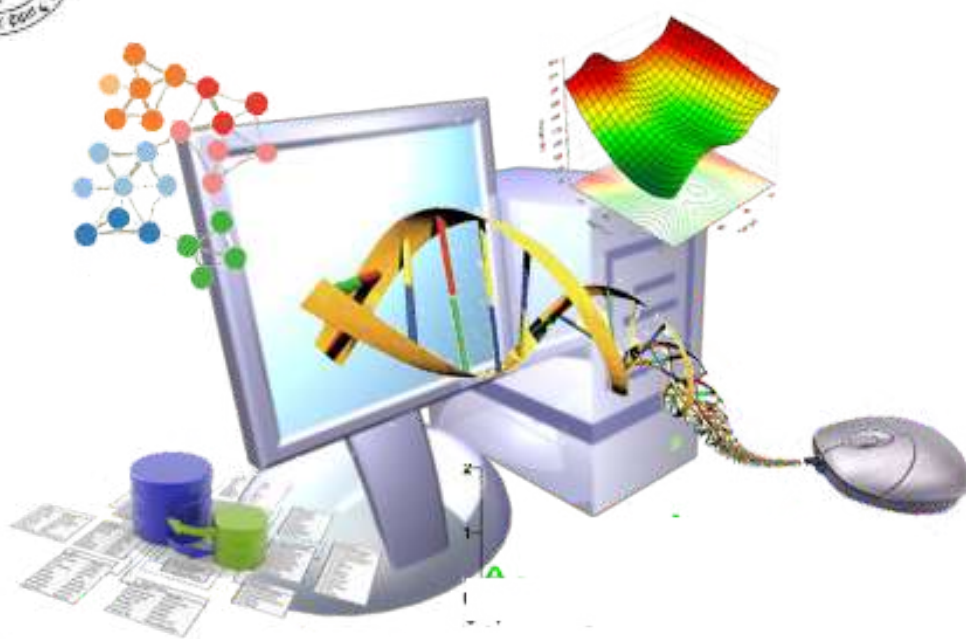


NATIONAL WORKSHOP ON IMMUNOINFORMATICS FOR DRUG AND VACCINE DESIGN



AUGUST 24th AND 25th, 2018



Department of Biotechnology
Sri Venkateswara College of Engineering
(Autonomous)
Sriperumbudur Tk – 602 117



SRI VENKATESWARA COLLEGE OF ENGINEERING

(AN AUTONOMOUS INSTITUTION)

Post Bag, No. 1, Chennai- Bengaluru Highway, Pennalur,
Sriperumbudur Taluk-602117

National Workshop on
"Immunoinformatics for Drug and Vaccine Design"

24th & 25th August, 2018

Organized by

Department of Biotechnology, Sri Venkateswara College of Engineering

Conveners

Prof. M. Sivanandham
Secretary- SVEHT
Professor of Biotechnology

Prof. E. Nakkeeran
Professor & Head
Department of Biotechnology

Organizing Secretary
Mr. P.K.Praveen Kumar
Assistant Professor

Coordinators
Mrs. V. Sumitha
Associate Professor
Department of Biotechnology

Mr. J. Harinaran
Assistant Professor
Department of Biotechnology

Mr. D. Suresh kumar
Assistant Professor
Department of Biotechnology

Members
Prof. R.B. Namyanan
Dr.S.Prabhu
Mrs. S. Pandi Prabha
Mrs. P. Jaibiba
Mr. N. Sathish
Mr. S. Naga Vignesh
Mrs. N. Kanagam
Dr. A. Senthil Nagappan
Dr. D. Nilavanesan

Dear Sir / Madam,

Sub: National Workshop on "Immunoinformatics for Drug and Vaccine Design" on 24th & 25th August, 2018 – Reg.

Warm Greetings from the Department of Biotechnology, Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur I. It gives us an immense pleasure to inform you that the Department of Biotechnology is organizing a **National Workshop on "Immunoinformatics for Drug and Vaccine Design" from 24th & 25th August, 2018**. Experts from various reputed institutions will share their experience to explore the current research in immunoinformatics for drug and vaccine design. Along with the experts talk, hands-on training on Epitope, Paratope prediction including Antibody Modeling, Energy minimization, Molecular Docking, Binding Score & site analysis for discovery of novel drugs or adjuvants in both drug and vaccine design will be conducted. Workshop also includes an exclusive training session on Immunoinformatics software developed in institution. In this regard, we look forward your participation to get training and knowledge in Immunoinformatics Research field. Herewith, we have enclosed the information brochure of the National Workshop for your kind reference. Hence I request you to kindly display the workshop brochure in your Department and college notice board. For further details please feel free to contact us or mail to icvd2018@svce.ac.in. We request you to kindly give wide publicity among your faculty members and students. We look forward for your positive response to make this workshop a grand success.

Thanking You,

With Warm Regards,

Prof. E. Nakkeeran
Prof and Head
Department of Biotechnology

Mr.P.K. Praveen Kumar
Organizing Secretary
Department of Biotechnology

Enclosure: Information Brochure

REGISTRATION FEE

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

Participants are requested to send their details through e-mail on or before 31st July, 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, Sripersambudur" payable at Indian Bank, Sripersambudur. Filled in registration form along with DD should be sent to the below mentioned address on or before 7th August, 2018. The number of participants is limited to 40 and the selection will be based on first-come-first-serve.

BONA FIDE CERTIFICATE

(For Students only)

Mr./Ms. _____
 is permitted to attend "National workshop on Immunoinformatics for Drug and Vaccine Design" during 24th and 25th August, 2018 at Sri Venkateswara College of Engineering, Sripersambudur Tk. - 602 113, Tamilnadu.

Date: _____ Signature: _____
 (Designation & Seal)

MAILING ADDRESS

Mr. P.K.Praveen Kumar
 ASSISTANT PROFESSOR
 Department of Biotechnology
 Sri Venkateswara College of Engineering
 (Autonomous)
 Persambur, Sripersambudur Tk - 602113
 Tel: 644 - 27152006 / 27163783 Fax: 587
 Mobile: +91-9444955008
 E-mail: ihv2018@svce.ac.in

National workshop on "Immunoinformatics for Drug and Vaccine Design"24th & 25th August, 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 "Immunoinformatics for Drug and Vaccine Design"24th & 25th August, 2018

Organized by



Department of Biotechnology
 Sri Venkateswara College of Engineering

CONVENERS

Prof. M. Sivarandham
 Prof. E. Nalkeera

ORGANIZING SECRETARY

Mr. P.K.Praveen Kumar

COORDINATORS

Mr. V Suresh
 Mr. J. Rajithan
 Mr. D. Suresh Kumar

Department of Biotechnology
 Sri Venkateswara College of Engineering
 (Autonomous)
 Sripersambudur Tk. - 602113
 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 (NH6) 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 scored 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.Nathan, a well known Industrialist who underpins 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 M.S. (or Research) and PhD programmes by Anna University, Chennai. The Department has well equipped laboratory facilities, namely Bioprocess and downstream processing, Immunology, Instrumental Method of Analysis, Genetic Engineering, Animal house, Research Lab, Diagnostics Lab and Computational System Biotechnology Lab.

The Department received Research Grants (1.2 Core) from various funding agencies such as SERB, KMR, AICTE, UTS and also several grants (2.14M) for organizing Short Term Training courses, workshops, faculty development programmes from various funding agencies such as DBT, KMR, CSIR and ICMR.

PROGRAMME OBJECTIVE

Immunoinformatics is an important emerging field which acts as an intersection between experimental immunology and computational approaches. Immunoinformatics research in the field of vaccine and drug development has bloomed, particularly over the last decade as more and more intrinsic knowledge of diseases and the immune mechanisms involved are being uncovered.

Cholera toxin is an example of widespread infectious disease with unpredictable reemerging disease outbreaks. Reverse vaccinology approach has been used to elucidate the epitopic peptides associated with the Cholera toxin B subunit protein. This workshop is aimed at describing recent applications of immunoinformatics on designing in silico vaccine design and drug design for Cholera toxin disease. Immunoinformatics in vaccine design includes the study and design of algorithms for mapping potential B- and T-cell epitopes, which lessen the time and cost required for laboratory analysis of pathogen gene product. Immunoinformatics in drug design includes the approaches of using new herbal drugs to identify lead identification, lead optimization, drug target, target validation, etc.

The basic premise of the workshop is to provide less, cost effective and easily available plant compounds as a promising drug or drug adjuvant against the various cellular and humoral responses without any side effect. Hence, this workshop is also aimed at imparting theoretical knowledge and practical training in drug design, discovery and safety. Thus, the workshop will provide a platform for the students, faculty and industrialists to share their knowledge and recent advancements in the fascinating field of Immunoinformatics.

Proposed Invited Speakers from Industries & Institutions

1. Dr. Pavan Abhinav, Professor, CMC, Vellore
2. Prof.M.Sivarandham, Secretary, SVEHT, Chennai
3. Dr. I.E. Huan, Scientist E, NRI, Chennai
4. Mr. G.Sobhanbabu, CEO, Panchajanya, Pondicherry

COURSE CONTENT & SCHEDULE

The workshop consists of lecture sessions and hands on training sessions with relevance to Epitope, Peptide prediction including Antibody Modeling, Energy minimization, Molecular Docking, Binding Sites & analysis for discovery of novel drugs or adjuvants in both drug and vaccine design. Workshop also includes an exclusive training session on immunoinformatical software developed in our host institution.

VENER

Sri Venkateswara College of Engineering (SVCE) Sripersambudur Tk. - 602 113, 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 05th August, 2018 to ensure the accommodation.

DATES TO REMEMBER

Last date for e-registration : 31.07.2018
 Intimation of selection : 01.08.2018
 Last date for registration with DD : 07.08.2018

National Workshop on “Immunoinformatics for drug and vaccine design”

24th and 25th August, 2018

Department of Biotechnology

Sri Venkateswara College of Engineering, Sriperumbudur.

Venue: Function Hall

Program Schedule

DATE: 24-08-18 (Day 1)	
TIME	EVENTS
08.00 AM- 08.50 AM	Registration
08.50 AM – 09.00 AM	Prayer Song
09.00 AM – 09.05 AM	Welcome Address by Prof. E.Nakkeeran, Ph.D Professor & Head, Department of Biotechnology Sri Venkateswara College of Engineering
09.05 AM – 09.10 AM	Patron’s Address by Prof. S.Ganesh Vaidyanathan, Ph.D Principal Sri Venkateswara College of Engineering
09.10 AM – 09.40 AM	Chief Parton’s Address by Prof. M. Sivanandham, Ph. D Secretary & Visiting Professor of Biotechnology Sri Venkateswara Educational & Health Trust, Chennai
09.40 AM – 09.43 AM	Introducing the Chief Guest
09.43 AM – 09.45 AM	Inauguration and Release of Workshop Manual by the Chief Guest Dr. Priya Abraham Professor, Department of Virology Christian Medical College, Vellore
09.45 AM – 10.40 AM	Inaugural address (Lecture Session – D “Impact of viral vaccines on global health” by Dr. Priya Abraham, MD, Ph.D Professor, Department of Clinical Virology Christian Medical College, Vellore

10.40 AM – 10.55 AM	Tea Break	
10.55 AM – 11.50 AM	<p>(Lecture Session – II)</p> <p>Technical Lecture on “Immunoadjuvants for vaccines” by Prof. M. Sivanandham, Ph. D Secretary & Visiting Professor of Biotechnology Sri Venkateswara Educational & Health Trust, Chennai</p>	
11.50 AM – 12.45 PM	Lunch break	
12.45 PM – 02.00 PM	<u>Training Session-I</u>	
	<p>B-cell and T-cell epitope prediction of viral protein (Batch-A) <i>Venue: Computational Systems Biotechnology Lab</i></p> <p>Mr. J. Hariharan Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>	<p>B-cell and T-cell epitope prediction of viral protein (Batch-B) <i>Venue: Bioinformatics Lab</i></p> <p>Mr. P.K.Praveen Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>
02.00 PM – 02.15 PM	Tea break	
02.15 PM - 03.15 PM	<u>Training Session-II</u>	
	<p>Epitope Modelling, Mapping and Epitope receptor docking of viral protein (Patch Dock and FireDock) (Batch-A) <i>Venue: Computational Systems Biotechnology Lab</i></p> <p>Mr. J.Hariharan Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>	<p>Epitope Modelling, Mapping and Epitope receptor docking of viral protein (Patch Dock and FireDock) (Batch-B) <i>Venue: Bioinformatics Lab</i></p> <p>Mr. P.K.Praveen Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>

DATE: 25-08-18 (Day 2)		
TIME	EVENTS	
09.00 AM -10.00 AM	<u>Training Session-III</u>	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <p style="text-align: center;">Preparation of ligand & receptor, Checking Lipinski's rule of drugs, Threading for Chikungunya disease (Batch-B) <i>Venue: Computational Systems Biotechnology Lab</i></p> <p style="text-align: center;">Mr. D. Suresh Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p> </td> <td style="width: 50%; padding: 5px;"> <p style="text-align: center;">Preparation of ligand & receptor, Checking Lipinski's rule of drugs, Threading for Chikungunya disease (Batch-A) <i>Venue: Bioinformatics Lab</i></p> <p style="text-align: center;">Mr. P. K. Praveen Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p> </td> </tr> </table>	<p style="text-align: center;">Preparation of ligand & receptor, Checking Lipinski's rule of drugs, Threading for Chikungunya disease (Batch-B) <i>Venue: Computational Systems Biotechnology Lab</i></p> <p style="text-align: center;">Mr. D. Suresh Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>
<p style="text-align: center;">Preparation of ligand & receptor, Checking Lipinski's rule of drugs, Threading for Chikungunya disease (Batch-B) <i>Venue: Computational Systems Biotechnology Lab</i></p> <p style="text-align: center;">Mr. D. Suresh Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>	<p style="text-align: center;">Preparation of ligand & receptor, Checking Lipinski's rule of drugs, Threading for Chikungunya disease (Batch-A) <i>Venue: Bioinformatics Lab</i></p> <p style="text-align: center;">Mr. P. K. Praveen Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>	
10.00 AM-10.15 AM	TEA BREAK	
10.15 AM-12.30 PM	<u>Training Session -IV</u>	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <p style="text-align: center;">Molecular docking (AutoDock), binding site & score analysis of natural compounds with viral protein (Batch-B) <i>Venue: Computational Systems Biotechnology Lab</i></p> <p style="text-align: center;">Ms. V. Sumitha Asso. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p> </td> <td style="width: 50%; padding: 5px;"> <p style="text-align: center;">Molecular docking (AutoDock), binding Site & score Analysis of natural compounds with viral protein (Batch-A) <i>Venue: Bioinformatics Lab</i></p> <p style="text-align: center;">Mr. P. K. Praveen Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p> </td> </tr> </table>	<p style="text-align: center;">Molecular docking (AutoDock), binding site & score analysis of natural compounds with viral protein (Batch-B) <i>Venue: Computational Systems Biotechnology Lab</i></p> <p style="text-align: center;">Ms. V. Sumitha Asso. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>
<p style="text-align: center;">Molecular docking (AutoDock), binding site & score analysis of natural compounds with viral protein (Batch-B) <i>Venue: Computational Systems Biotechnology Lab</i></p> <p style="text-align: center;">Ms. V. Sumitha Asso. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>	<p style="text-align: center;">Molecular docking (AutoDock), binding Site & score Analysis of natural compounds with viral protein (Batch-A) <i>Venue: Bioinformatics Lab</i></p> <p style="text-align: center;">Mr. P. K. Praveen Kumar Asst. Professor, Department of Biotechnology, SVCE, Sriperumbudur-602117</p>	
12.30 PM – 01.00 PM	<p style="text-align: center;">Lecture Session-III Technical Lecture on “Biotechnology based startup companies – future prospects” by</p> <p style="text-align: center;">Dr. Balu Ranganathan Technology - Director, Palms Connect LLC, Sandy, Utah, USA</p>	
01.00 PM – 01.45 AM	LUNCH	

01.45 PM – 02.35 PM	<p style="text-align: center;">Lecture Session-IV Technical Lecture on “Emerging approaches for the prevention and treatment of HIV infection” by</p> <p style="text-align: center;">Dr. Luke Elizabeth Hanna Scientist ‘E’, HIV/ AIDS Laboratory, Department of Clinical Research, National Institute for Research in Tuberculosis, Chennai – 600 031</p>
02.35 pm – 02.55 PM	Valedictory address and Certificate distribution for the participants
02.55 PM – 03.00 PM	<p style="text-align: center;">Feedback from the participants about the workshop chaired by</p> <p style="text-align: center;">Prof. E. Nakkeeran Professor & Head Department of Biotechnology SVCE, Seiperumbudur-602117</p>
03.00 PM – 03.05 PM	<p style="text-align: center;">Vote of Thanks by</p> <p style="text-align: center;">Mr.P.K.Praveen Kumar Assistant Professor, Department of Biotechnology, SVCE, Seiperumbudur-602117</p>
03.05 PM – 03.10 PM	NATIONAL ANTHEM

IMPACT OF VIRAL VACCINES ON GLOBAL HEALTH

Professor. Priya Abraham MD, PhD
Department of Clinical Virology
Christian Medical College, Vellore

Viruses cause a large number of diseases among humans, some associated with high mortality and others that can be debilitating, causing significant morbidity. Several viruses infect infants and young children while others may infect individuals in their prime of life. Hence, implementation of preventive measures is of utmost importance. Amongst these preventive strategies, vaccination is perhaps the most significant measure that has succeeded in control and even eradicating some viral diseases. Small pox is an example of a dreaded disease that was declared globally eradicated in 1979. Poliomyelitis cases have been reduced by 99% in the last 40 years. Global coverage of vaccination against important viral diseases of childhood has been enhanced dramatically since the creation of WHO's Expanded Programme of Immunization in 1974 and of the Global Alliance for Vaccination and Immunization in 2000.

Majority of the virus vaccines used thus far are killed virus vaccines, attenuated virus vaccines and vaccines prepared from recombinant DNA technology, including virus like particles. Use of viral vectors, synthetic peptides, DNA vaccines and even edible vaccines may constitute future vaccines.

Despite the huge success of vaccines against viruses, there are several challenges. There is tremendous cost involved in developing and marketing vaccines resulting in inadequate access to vaccines in poorer countries. Some viruses are known to mutate rapidly which require a constant update on vaccine formulations. With newly emerging and re-emerging viral diseases and increase in air-travel, the spread of infection happens very rapidly. Despite these challenges, every country needs to prioritize their own national vaccination programmes, since the benefits clearly suggest that there is no better way in which national revenue can be spent.

INFORMATICS FOR DESIGNING IMMUNOADJUVANTS FOR VACCINES

Prof. M. Sivanandham

Secretary (SVEHT) & Visiting Professor,

Department of Biotechnology,

Sri Venkateswara College of Engineering,

Sriperumbudur – 602117

Preventive vaccines against many infectious diseases have shown a significant reduction in the incidence of these diseases, not only in human population but also in many farm and pet animals. Efficacy of these vaccines is defined by the presence of immunogenic antigens, antigen delivery carriers and molecules that help in the augmentation of the immunogenicity of these antigens. The antigen delivery carriers and immunogenicity augmenting molecules are collectively called as adjuvants. The conventional approach to vaccine development requires cultivation of the attenuated pathogenic microorganisms and identifying their immunogenic components using biochemical, immunological and microbiological methods. However, these methods have failed to provide a vaccine for many pathogens. At present, the possibility of using genomic information of pathogens allows us to study vaccine development in *in silico*, without the need for conventional vaccine design and establishment. This approach, termed 'Reverse Vaccinology', which reduces the time required for the identification of vaccine candidate antigens and provides new solutions for those vaccines which have been difficult to develop for pathogenic diseases. Immunoadjuvants are agents that are used for enhancing vaccines efficacy and therefore, could be considered specific immune stimulants. Immunoinformatics have been used to identify immunoadjuvants from designed chemicals and natural sources. Dendritic cells are considered as nature's immunoadjuvant in the host. My laboratory has been working on informatically designed CD40 ligand mimetic molecules that can activate dendritic cells to make them as efficacious adjuvants. Moreover, we have identified informatically pant molecules such as Boeravinones and Withanolides that can stimulate dendritic cells to be efficacious adjuvants. Studies involving the above molecules will be part this presentation.

BIOTECHNOLOGY BASED START-UPS – FUTURISTIC PERSPECTIVES

Dr. Balu Ranganathan and Dr. Sudha Kargi
Palms Connect LLC
Sandy, Utah
USA

Biotechnology is a convergence of biological processes and chemical technology integrating chemistry, chemical engineering and biology. Branched off to other disciplines namely, bioprocess, biochemistry, cell biology, molecular biology, biochemistry and adding up to the latest – nanotechnology. Fresh talented minds circumvallated and mentored by academic expertise with seed funding paves a very long path for the commercialization of laboratory desk conceptualization to clinical patient bedside commercialization. A sustainable entrepreneurial innovative activity(s) leads to the success of the start-up with perennial cash flows as grants and contracts. Conceptualization and creation of translational platforms that have converged multi-disciplinary expertise leading to diversified talented team members formation is one of the major successes of the biotech based start-ups involving financial economist, marketing strategist and technology developer. Expensive biotechnology instruments to be made accessible to the start-ups as a pooled centralised facility as located in Boston to provide a spring board with a launch pad facilitating the rapid growth of the early stage biotech companies. Palms Connect LLC located in Sandy, Utah is a classic example of an US located biotechnology based start-up company working on novel drug delivery systems for feminine oncological indications. Bottomline: Biotech based start-ups are in the cusp of global influence.

EMERGING APPROACHES FOR THE PREVENTION AND TREATMENT OF HIV INFECTION

Dr. Luke Elizabeth Hanna
Scientist 'E', HIV/ AIDS Laboratory,
Department of Clinical Research,
National Institute for Research in Tuberculosis, Chennai – 600 031

Unprecedented efforts of the last 30 years have turned HIV infection from a terrifying lethal disease to a chronic manageable condition. Yet, we do not have a cure for the disease. Development of new drugs with improved safety and/or resistance profile is a priority. Informatics tools and software's have helped in facilitating the drug discovery process significantly. In parallel with antiretroviral therapy innovations, research and development efforts are expanding toward new therapeutic approaches for targeting persistent HIV reservoirs that may lead to prolonged drug-free remission of the infection and potentially to HIV cure. The discovery of an effective vaccine remains the ultimate goal of HIV research. However, several factors have contributed to slowing the international efforts to develop an effective HIV vaccine. The number of circulating viral strains is one of the most intractable obstacles to vaccine development. Another major obstacle is the lack of clear immune correlates of protection in humans. Advances in basic and clinical research as well as informatics technologies have helped in the development of new knowledge pertaining to the management and prevention of HIV infection. The lecture will highlight current progress and discuss potential avenues for future developments in this promising era of virus bioinformatics.

PARTICIPANTS CERTIFICATE



SRI VENKATESWARA COLLEGE OF ENGINEERING

(AN AUTONOMOUS INSTITUTE)
PENNALAR, SRIFERLAMBURTE. - 502 117

DEPARTMENT OF BIOTECHNOLOGY

NATIONAL WORKSHOP ON "IMMUNOINFORMATICS FOR
DRUG AND VACCINE DESIGN"

CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Ms. SUBARNA CHAKRABORTY
of SRM INSTITUTE OF SCIENCE AND TECHNOLOGY has actively participated in
National workshop on "Immunoinformatics for Drug and Vaccine Design" organized by
Department of Biotechnology, Sri Venkateswara College Of Engineering held during
24th & 25th of August 2018.

F.K. Praveen
Organizing Secretary
Mr. F.K. Praveen Kumar

[Signature]
Head of Department
Prof. S. Subramaniam

[Signature]
Principal
Prof. S. Ganesh Vasanthanathan

DEPARTMENT OF BIOTECHNOLOGY
National workshop on
"Immunoinformatics for Drug and Vaccine Design"
24th and 25th August 2018
ATTENDANCE SHEET

S.No.	Name	Institution	24.08.2018 FN	24.08.2018 AN	25.08.2018 FN	25.08.2018 AN
1	NARAYANAN, M. A	Jeppiaar Engineering College	[Signature]	[Signature]	[Signature]	[Signature]
2	DELLI KARTHIKEYAN, R	Jeppiaar Engineering College	[Signature]	[Signature]	[Signature]	[Signature]
3	HEMA RAJESHWARI, K	Jeppiaar Engineering College	[Signature]	[Signature]	[Signature]	[Signature]
4	PRAVEEN RAJ, S	Jeppiaar Engineering College	[Signature]	[Signature]	[Signature]	[Signature]
5	DEVI NIVEDITHA, B	Jeppiaar Engineering College	[Signature]	[Signature]	[Signature]	[Signature]
6	VAYUNANDANA RAO, G	RVR & JC College of Engineering	[Signature]	[Signature]	[Signature]	[Signature]
7	M. BHESWARAN, B	Arulmigu Meenakshi Amman College of Engineering	[Signature]	[Signature]	[Signature]	[Signature]
8	NAVANEETHAN, R	Arulmigu Meenakshi Amman College of Engineering	[Signature]	[Signature]	[Signature]	[Signature]
9	DINESH KUMAR, S	Arulmigu Meenakshi Amman College of Engineering	[Signature]	[Signature]	[Signature]	[Signature]
10	SNEHA LATHA, B	Arulmigu Meenakshi Amman College of Engineering	[Signature]	[Signature]	[Signature]	[Signature]
11	NIVEDITHA, R	Arulmigu Meenakshi Amman College of Engineering	[Signature]	[Signature]	[Signature]	[Signature]

12	KISHORE VARMA N	Annamalai Memorial Annam College of Engineering	N. Kishore	N. Kishore	N. Kishore	N. Kishore
13	KRISHNAMOORTHY B	Annamalai Memorial Annam College of Engineering	B.K.100	B.K.100	B.K.100	B.K.100
14	ARJUN	Annamalai Memorial Annam College of Engineering	N. Arjun	N. Arjun	N. Arjun	N. Arjun
15	KAVIYA S	Annamalai Memorial Annam College of Engineering	S. Kavitha	S. Kavitha	S. Kavitha	S. Kavitha
16	ILAVARASI P	Annam Engineering College	P. Ilavarasi	P. Ilavarasi	P. Ilavarasi	P. Ilavarasi
17	RAMIYA SHREE V	Annam Engineering College	V. Ramya	V. Ramya	V. Ramya	V. Ramya
18	SINDHU T	Annam Engineering College	T. Sindhu	T. Sindhu	T. Sindhu	T. Sindhu
19	VINITHA V	Annam Engineering College	V. Vinitha	V. Vinitha	V. Vinitha	V. Vinitha
20	PRAGATHI B B	SRM Institute of Science and Technology	B. Pragathi	B. Pragathi	B. Pragathi	B. Pragathi
21	BRATH SRIRAMANYAM A	Sri Anand Alagar College of Engineering	A. Sriraman	A. Sriraman	A. Sriraman	A. Sriraman
22	MALARVEJHI A	SRM Institute of Engineering and Technology	A. Malarveji	A. Malarveji	A. Malarveji	A. Malarveji
23	Dr. S. MOORTHY	GRI Institute of Technology, PAVANAGERI, KARNATAKA	S. Moorthy	S. Moorthy	S. Moorthy	S. Moorthy
24	JEDA SEELAN S	Sree Sastha Institute of Engineering and Technology	S. Seelan	S. Seelan	S. Seelan	S. Seelan
25	THARUN DANIEL PAUL L	Dr. MGR Education & Research Institute	L. Daniel	L. Daniel	L. Daniel	L. Daniel

		University				
26	ROBIN KISHAN SAI	Dr. MGR Education & Research Institute University	S. Robin	S. Robin	S. Robin	S. Robin
27	PREETHY RAJANK	Dr. MGR Education & Research Institute University	R. Preethy	R. Preethy	R. Preethy	R. Preethy
28	MANTRA KISHAN S	Sree Sastha Institute of Engineering and Technology	S. Mantra	S. Mantra	S. Mantra	S. Mantra
29	GOVIL S	Rajadurai Engineering College	S. Govil	S. Govil	S. Govil	S. Govil
30	G. Adithyashan	Ramachitra	G. Adithyashan	G. Adithyashan	G. Adithyashan	G. Adithyashan
31	V. Subashini	Anna University	V. Subashini	V. Subashini	V. Subashini	V. Subashini
32	Divya Manasa - K	Sree Sastha Institute of Engineering and Technology	K. Divya Manasa	K. Divya Manasa	K. Divya Manasa	K. Divya Manasa
33	Rashmi T	Sree Sastha Institute of Engineering and Technology	T. Rashmi	T. Rashmi	T. Rashmi	T. Rashmi
34	Geetha Mani Mani	Sree Sastha Institute of Engineering and Technology	M. Geetha Mani	M. Geetha Mani	M. Geetha Mani	M. Geetha Mani
35	B. Kishanraj	Annam Engineering College, TVM	B. Kishanraj	B. Kishanraj	B. Kishanraj	B. Kishanraj
36	S. Ananya	Annam Engineering College, TVM	S. Ananya	S. Ananya	S. Ananya	S. Ananya
37	N. Ananya	Annam Engineering College, TVM	N. Ananya	N. Ananya	N. Ananya	N. Ananya
38	EVANGELYN S	Annamalai Memorial Annam College of Engineering	S. Evelyn	S. Evelyn	S. Evelyn	S. Evelyn
39	REGINA RAJA PAVAN S	Annamalai Memorial Annam College of Engineering	S. Regina	S. Regina	S. Regina	S. Regina

P. K. Prasad

ORGANIZING SECRETARY/BO

[Signature]

HOD/BO

Prof. E. NAKKEERAN, M.Tech., Ph.D.
Professor & Head
Department of Biotechnology
Sri Vasudevaraja College of Engineering
Puducherry - 605 014, Tamil Nadu, India



**National Workshop on
"Immunoinformatics for drug and vaccine design"**

24th & 25th August, 2018

Organized by
Department of Biotechnology
Sri Venkateswara College of Engineering (Autonomous)

PARTICIPANTS FEEDBACK

Rating-5(Highest) 1(Lowest)

S.No	Aspect of Programme	5	4	3	2	1
1.	Lecture Content	✓				
2.	Knowledge on the topics	✓				
3.	Thoroughness of coverage	✓				
4.	Coverage of topics	✓				
5.	Logistics arrangements	✓				
6.	Hands on training session	✓				
7.	Overall assessment of the Programme	✓				

8. Indicate the highlight(s) of the Programme

Hands on training in one afternoon session on 25th Aug 2018 was good.

9. Any specific aspect that needs particular attention and improvement? Please be frank

10. Contacts (Mobile No/ E.mail ID) 7867963014

11. Would you like to come back for another programme in this college?

yes Obviously - A big yes!

13. Specific comments, if any

Ramesh Magesh

Signature of the Participant



**National Workshop on
"Immunoinformatics for drug and vaccine design"**

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PARTICIPANTS FEEDBACK

Rating-5(Highest) 1(Lowest)

S.No	Aspect of Programme	5	4	3	2	1
1.	Lecture Content		✓			
2.	Knowledge on the topics	✓				
3.	Thoroughness of coverage		✓			
4.	Coverage of topics	✓				
5.	Logistics arrangements		✓			
6.	Hands on training session		✓			
7.	Overall assessment of the Programme	✓	-			

8. Indicate the highlight(s) of the Programme

Hands on experiment training

9. Any specific aspect that needs particular attention and improvement? Please be frank.

10. Contacts (Mobile No/ E.mail ID)

7397637293 / *ho*

11. Would you like to come back for another programme in this college?

YES

13. Specific comments, if any

We learned hands experiment & lecture

S. K. Singh

Signature of the Participant

SRI VENKATESWARA COLLEGE OF ENGINEERING (AUTONOMOUS)

DEPARTMENT OF BIOTECHNOLOGY

NATIONAL WORKSHOP ON "IMMUNOINFORMATICS FOR DRUG AND VACCINE DESIGN"

August 24th and 25th, 2018

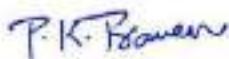
WORKSHOP REPORT

India's burden of cancer is extraordinarily heavy for both the sexes. Cancer incidence in India is around 14.5 lakh cases in 2016 and is likely to reach nearly 17.3 lakh new cases in 2020, according to the projection of Indian Council of Medical Research (ICMR). The rise and prevalence of cancer led to use Immune cell based adjuvant immunotherapies, which are shown to be significant for some cancers.

The basic premise of the workshop is to transmit expected outcome as a less, cost effective and easily available plant compounds as a promising immunomodulation agent or drug or drug adjuvant against the various cellular and humoral responses without any side effect which could not be expected in modern allopathy drugs for society. The workshop highlights about up come of area of bioinformatics, which utilizes cheaper technologies for approaches on design of new herbal drugs, target validation, lead identification, lead optimization, energy minimization, binding site analysis, prediction of structure activity relationship of compounds. Immunoinformatics approaches on Epitope, Paratope prediction including Antibody Modeling and design of plant based Immunoadjuvants are also covered as part of training in this workshop. Further, this workshop also highlights the importance of detection of vaccine antigens and validation and evaluation of plant based Immunoadjuvants through HPLC.

Research in the field of vaccine development has bloomed, particularly over the last decade as more and more intrinsic knowledge of diseases and the immune mechanisms involved are being uncovered. Hence, this workshop is aimed at providing lectures in recent trends on Immunological methods for drug discovery and safety from eminent Professor cum Scientists like Dr.M.Sivanandham from SVEHT, Chennai and Dr.Luke Elizabeth Hanna from NIRT, Chennai. Also the workshop is targeted on delivering the knowledge on Pharmaceutical methods for drug discovery and safety from Industrialist, Mr.D.Subramanian, Chief Executive Director of Pondchy Pharmaceuticals, Puducherry. Mohammad Mobashir from Karolinska University, Sweden talk on Cancer systems biology and Prof.S.Vino, who is a pioneer of Immune Pharmacoinformatics will add strength to the delivery of updated information to the workshop. In addition to the popular lecture sessions, the workshop is aimed to provide hands-on experience in 4 different training sessions.

Thus, this workshop will provide a platform for the students, faculty and industrialists to share and improve their knowledge and recent advancements in the fascinating field of Immunotechnology, Immunoinformatics, Pharmaceutical Technology and Pharmacoinformatics.



ORGANIZING SECRETARY/BIO



HOD/BIO

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

WORKSHOP PHOTOS

