



Sree Narayana College, Kannur

NAAC Re-accredited with A Grade. CGPA: 3.04

Two Day National Seminar

Challenges of Emergent and Resurgent Infectious Diseases in a Changing World

13rd and 14th October 2022

Organized by
Department of Microbiology

Co-sponsored by
Kerala State Council for Science, Technology and Environment

Inauguration by

Dr. A. Sabu

Honourable Pro -Vice Chancellor,
Kannur University



About the College

Sree Narayana College, Kannur is one of the biggest institutions of higher education in Kannur District. The College was founded in the name of his Holiness Sree Narayana Guru, the greatest saint and social reformer. The founder manager, Late R. Sankar made pioneering efforts to start a group of institutions named after Sree Narayana Guru with the intention of imparting quality education for students without any discrimination on the basis of class, caste or gender. The college was formally inaugurated on 6th July 1960. From its status as a junior college, it has now grown in to a full fledged post graduate college with affiliated research centres in its post graduate departments of Zoology, Chemistry and Commerce and in UG Department of Botany. The College offers 13 UG Programs and seven PG programmes and is reaccredited with NAAC "A" Grade in the second cycle.

The college concentrates on various academic and non-academic programmes to realise the potential of the students by traversing creative spaces to provide academic liberty so as to involve in critical enquiry for exchange of ideas without any fear, favour or hesitation.

About the Department

The department of Microbiology was established in 1998. Since then the department has made remarkable progress in academics. Microbiology as a basic and applied science has been considered as an important discipline of science which has implications in various aspects of human welfare like Medicine, Agriculture, Biotechnology and Bioinformatics. B.Sc.. Microbiology course, Microbiology as core course with Chemistry and Zoology as complementary courses is affiliated to Kannur University and the scheme and curriculum are based on choice based credits and semester system (Outcome based Education system-OBE). Core programme offers various interdisciplinary courses that include Basic Microbiology, Microbial taxonomy, Biochemistry, Biophysics, Virology, Molecular biology, Immunology, Industrial Microbiology, Bioinformatics, Medical Microbiology, Environmental Microbiology, Food Microbiology and Agricultural Microbiology.

The department provides a good environment for students to bring their ideas and research aptitude and also encourage students to participate in academic discussions and extracurricular activities. Students are allowed to organize and engage in departmental association activities and provide a platform to develop their leadership qualities. Both laboratory and library of the departments are well equipped with instruments and books.

About KSCSTE

The Kerala State Council for Science, Technology and Environment (KSCSTE) is an autonomous body under the ministry of S&T, Kerala, constituted in November 2002 to be an agency for change and development through science and technology. Formerly it was the Science, Technology and Environment Committee (STEC), established in 1972 in concurrence with the Science Policy of Government of India. The council promotes and activates programs for increasing the stock of knowledge in science, and fine tunes policies which are significant and for the sustained development of humanity.

About the Programme

Since time immemorial, man has fought against infectious diseases and these diseases have played a major role in shaping human society by reducing the world population in high magnitude. In 20th century infectious diseases receded significantly due to improved sanitary conditions, personal hygiene, and introduction of antiseptics, vaccines and antibiotics. But the last quarter of 20th century witnessed the emergence and re-emergence of infectious diseases. Emerging infectious diseases are infections that have recently appeared within a population whose incidence is rapidly increasing or threatens to increase in the near future. Those agents whose incidence had significantly declined in the past, but now had reappeared in a more life threatening form are called re-emerging or resurgent infectious diseases. According to the current estimation of WHO, infectious diseases are emerging at a rate that has not been seen before. Since 1970, about 40 infectious diseases have been discovered including SARS, MERS, Ebola, Avian flu, Swine flu, Zika, Nipah etc. These infectious diseases pose important health problem for both developed and developing world. The emergence of many new or previously unrecognized bacterial, fungal, viral and parasitic diseases is attributed by several factors such as changes in environment, climatic variation, microbial adaptation, urbanization, globalization etc. Surveillance of emerging and re-emerging infectious diseases should be done at global, national and regional levels for taking early control measures and for implementing preventive strategies.

This National seminar entitled "The challenges of Emergent and Resurgent Infectious Diseases in a changing world" intends to provide awareness to scientific community about newly emerging infectious diseases, the factors which contribute to the emergence and re-emergence and preventive strategies for the control of these infectious microbes.

Objectives

- To provide an understanding about the importance of world wide emergence and re-emergence of infectious diseases and to assess the risk factors contributing to its emergence and resurgence.
- To provide knowledge about the pathogenesis, clinical features and diagnostic measures of infectious microbes responsible for these new or previously unrecognized infectious diseases.
- To create knowledge among scientific community to give public awareness about transmission and preventives strategies of important emerging infectious diseases.

PROGRAMME SCHEDULE

Day 1 : Thursday, 13th October 2022

10.00 AM : Inaugural Session

10.30 AM : Technical Session 1

Topic : **Emerging Infectious Diseases from the Global to the Local Perspective**

Resource : **Dr. Denoj Sebastian**

Assistant Professor of Microbiology, Department of Life Sciences, University of Calicut.

11.45 AM Technical Session 2

Topic : **“Computational Biology and Data Science Driven Approaches for New Generation Drug Discovery Towards Emerging and Re-emerging Infectious Diseases”**

Resource : **Dr. Sinosh Skariachan**

Assistant Professor of Microbiology, St. Pius X College Rajapuram, Kasargod

1.00 PM-1.45PM : Lunch Break

1.45 PM Technical Session 3

Topic : **“Major Advances in the design and development of vaccines against Emerging Infectious Diseases”**

Resource : **Dr. T. A. Jose Priya**

DST Women Scientist-A, Department of Zoology, Central University of Kerala, Kasaragod.

3.00 PM- 4.30 PM : Paper Presentations

Day 2: Friday, 14th October 2022

9.30 AM- 10.30 AM Paper Presentations

10.30 AM Technical Session 4

Topic : **Vector-borne Emerging Infectious Diseases**

Resource : **Dr. Prakashan K.**

Associate Professor, Department of Zoology, Maharaja's College, Ernakulam

11.45 AM Technical Session 5

Topic : **“Kysanur Forest Disease: A re-emerging Zoonoses in India”**

Resource : **Dr. Sudheesh N.**

Assistant Professor, Department of Virology, Manipal Institute of Virology, Manipal

1.00 PM Lunch Break

1.30 PM- 2.30 PM Paper Presentations

2.30 PM Technical Session 6

Topic : **“Immunity Building Medicines against Infectious Diseases in Market and Its future”**

Resource : **Dr. Ashakiran Kilankaje**

Director, Purnayu Bio Science. Pvt Ltd, Bangalore.

4.00 PM : Valedictory Session

Call for papers

Research Papers for presentations are invited from UG/PG students, Research Scholars and Faculties on topics coming under global infectious diseases- causative agents, pathogenesis, clinical manifestations, diagnostic methods, preventive strategies, drug development, drug resistance etc. Paper presenters may adhere to the Paper Presenter guidelines.

Guidelines for Paper Presentations

Abstracts of original research papers for presentation should be sent by email to microbiologysnc2020@gmail.com. The text should be double-spaced in Times New Roman 12 point. Abstract should be in 200 to 250 words.

The last day for receipt of abstracts is **8th October 2022**

Information of selected abstracts will be announced on or before **9th October 2022**

Full papers of accepted abstracts may be submitted on or before **11th October 2022**

Selected research papers presented during the seminar will be published as an edited volume with ISBN Number.

Registration Procedures

Registration is based on first come first served basis only. Registration should be done online by filling Google form after remitting registration fee.

Link for Registration:

<https://forms.gle/CBw9Ho4ifA4ifvWVA>



Registration Fee

UG/PG Students : ₹ 300
Research Scholars : ₹ 400
Faculty : ₹ 500

Account details for remitting the fee online

Name of the Account Holder: **Ayana N** (Co-ordinator),

Account No : 20115152354

Name of the Bank : State Bank of India, IFS Code : SBIN0008551

Branch : Thazhe Chova, Kannur, Kerala

Chief Patron
Sri. Vellappally Natesan
Manager, SN Trusts
Patron
Dr. K. Ajayakumar, Principal
Chairperson
Smt. Prajina P.
Head, Department of Microbiology
Convenor
Dr. Ayana N.
Assistant Professor, Department of Microbiology

Organizing Committee:
Dr. K.P. Prasanth, IQAC Co-ordinator
Sri. Ramesan C.K.V., Assistant Professor of Microbiology
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