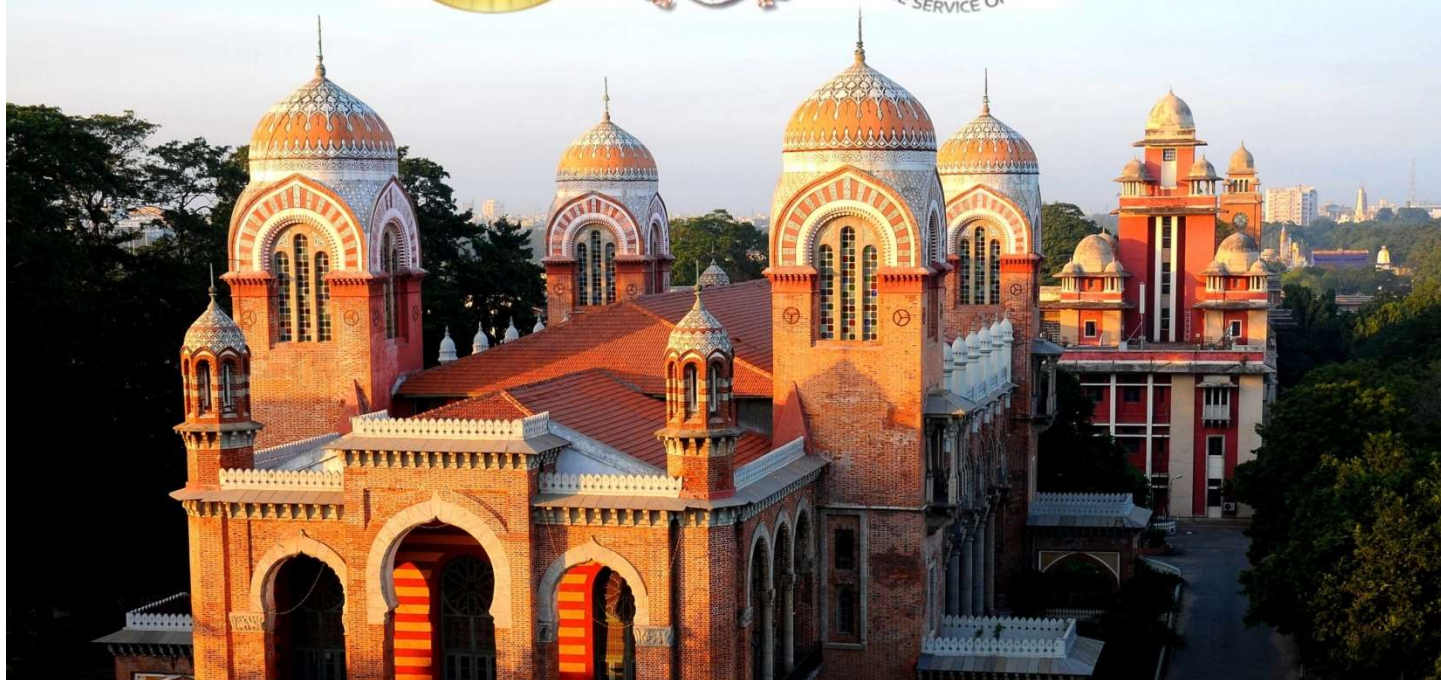


4th International Conference on Bacteriophage Research and Antimicrobial Resistance (ICBRAR-2023)

Theme: Harnessing the Bacteriophages for Human Well-being
28-30 September 2023



Organized by

**Centre for Advanced Studies in Botany, University of Madras, Guindy
Campus, Chennai-600025, Tamil Nadu, India**

In association with

**Water and Steam Chemistry Division, Bhabha Atomic Research
Centre Facilities, Department of Atomic Energy, Kalpakkam-603102,
Tamil Nadu, India**

&

Society for Bacteriophage Research and Therapy

Venue

University of Madras, Guindy Campus, Chennai-600025

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Acharya Narendra Dev College, University
of Delhi, New Delhi

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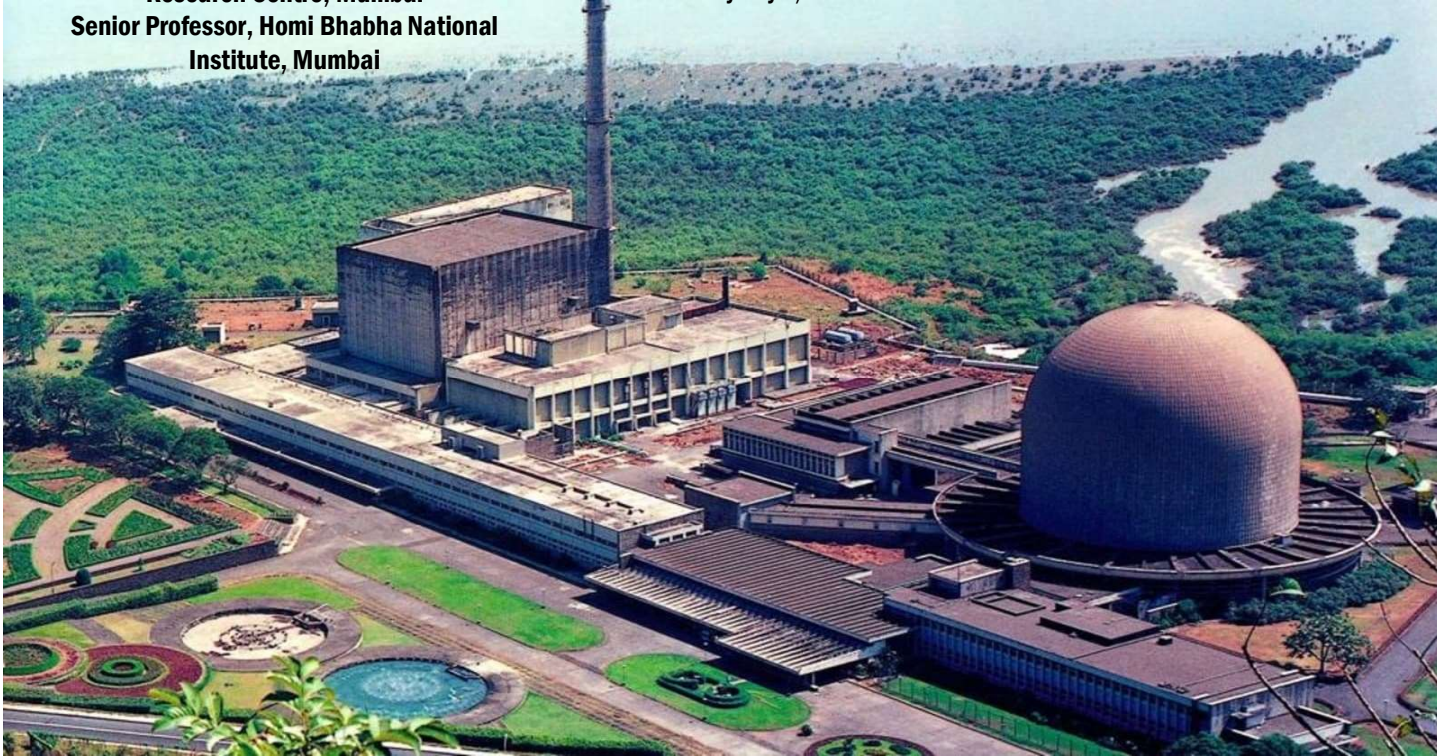
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University of Madras, Chennai

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Head, Dept. of Biotechnology
University of Madras, Chennai

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Mahavidyalaya , Pune

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Amrita Vishwa Vidyapeetham
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Senior Lecturer,
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CF144XN. UK

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Health systems and policy focusing antibiotics,
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Sweden

Dr. Jeremy J. Barr
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School of Biological Sciences, VIC 300,
Australia

University of Madras & Centre for Advanced Studies in Botany

The University of Madras is one of the first of the three Universities established in India in the year 1857 and has been marching in its 166th year of academic and research excellence. It is the mother of almost all the Universities in southern India and has stood out as a beacon of knowledge for generations. It has distinguished itself by preserving its ancient heritage and modern developments equally. The University of Madras has the distinction of producing 2 Nobel laureates, Sir C.V. Raman and Dr. S. Chandrasekhar for their epoch-making research and has given 5 presidents to our country namely Sarvepalli Radhakrishnan, V. V. Giri, Neelam Sanjeeva Reddy, R. Venkataraman and Dr. A.P.J. Abdul Kalam.

The University Botany Laboratory (UBL) was established in 1930 and it received the CAS status from the UGC in 1964 and retained the status for the past 59 years now continuously. The CAS in Botany is well known for its pioneering research contribution on 4 major thrust areas recognized by the UGC such as Plant Pathology, Mycology, Algology and Herbal Science. The research contributions made by eminent scholars like Professors M.O.P. Iyengar, T. S. Sadasivan, C.V. Subramanian, A. Mahadevan and T.V. Desikachary has taken the Centre to greater heights. CAS in Botany is fully equipped with all necessary laboratory and other infrastructure facilities. The Centre offers M.Sc., M.Phil., and Ph.D. degree courses in Botany. The Centre is currently being headed by Prof. N. Mathivanan.

Bhabha Atomic Research Center (BARC) & Water and Steam Chemistry Division (WSCD)

The Bhabha Atomic Research Centre (BARC) is India's premier nuclear research facility, located in Trombay, Mumbai. Established in 1954. BARC is named after Dr. Homi J. Bhabha, a renowned Indian physicist and founding director of the center. BARC's primary mission is to conduct research and development in the field of nuclear science, engineering, and related areas, including advanced materials, radiation biology, and nuclear medicine. The center is also

responsible for designing and building India's nuclear power reactors, as well as developing and producing radioisotopes for medical and industrial applications. BARC has contributed immensely towards India's nuclear program and development of allied technologies.

The Water and Steam Chemistry Division of the Chemistry Group at BARC is actively working to reduce corrosion, activity buildup and biofouling in operational nuclear reactors. One of the key missions of this group is to provide environmentally friendly alternatives for biofouling control. Furthermore, the group is engaged in developing numerous biofilm-based technologies for various social applications. The group is now working extensively on Bacteriophages for their application as an environmentally sustainable anti-biofouling agent through the targeted removal of organisms of interest from a complex community of fouling organisms. The group is also working towards building a "Phage bank" where fully characterized, ready-to-use bacteriophages will be stored for Phage therapy.

Society for Bacteriophage Research and Therapy

The Bacteriophage Research and Therapy Society was founded in 2017 and registered on 19 December 2018. The society seeks to use bacteriophages to treat drug-resistant diseases and combat antimicrobial resistance (AMR). The association provides a forum for researchers to collaborate with phage scientists. The society aims to utilize national and international expertise and resources by gathering scientists, academicians, and clinicians pursuing basic and translational bacteriophage research. The society studies bacteriophages in rivers and sewage treatment, their use as antibacterial agents, vaccines, gene therapy, diagnostics, drug delivery, and more. Given the slow pace of infectious disease treatment discovery and the prevalence of AMR, it's time to study the problems of bacteriophages as therapies.

To bridge the curriculum-practice gap for students and researchers, the society holds technical conferences, seminars, and workshops nationwide.

Members receive Young Scientist honors, early career research honors, and Editorial team membership for their phage therapy research. Society created a scientific publication to improve research-based learning. Expert peer review ensures high-quality publications in the journal. International Journal of Bacteriophage Research publishes annually in January. It publishes bacteriophage-related reviews, research papers, genetic engineering, in-vitro and in-vivo investigations, and molecular screening.

About the Conference

The 4th International Conference on Bacteriophage Research and Antimicrobial Resistance, will be organized jointly by the CAS in Botany, University of Madras and Water and Steam Chemistry Division of Bhabha Atomic Research Centre Facilities with the theme of "*Phages for Life: Harnessing the bacteriophages for human well-being*" and we are excited to bring together scientists from all over the globe to discuss the most recent findings regarding these fascinating viruses.

The purpose of this conference is to discuss the most recent findings in bacteriophage research and their potential applications in medicine, agriculture, and environmental science. The conference will feature keynote addresses, oral and poster sessions, and more importantly, provide opportunities for networking. We will also host a trade exhibition where you can learn about the most recent bacteriophage-related products and services. We believe that you will gain new insights and enjoy lively discussions throughout the talks and panel discussions.

We'll be having a celebration to honor bacteriophages, and you're invited to join us. There will be plenty of opportunities for stimulating scientific conversation, fruitful cooperation, and good times with your fellow academics. Please mark 28-30 September 2023 in your calendar for the conference.

How to Reach CHENNAI

By Train: Chennai Central (MAS) and Chennai Egmore(MS) coming under Southern Railway zone are the main railway stations in the city receiving regular

trains from various major cities of India such as Delhi, Mumbai, Bengaluru, Hyderabad, Kolkata and other cities of India.

By Bus: Chennai Mofussil Bus Terminal (CMBT) is one of Asia's largest bus stations. Around seven state owned buses to and from various destinations within South India are operated. Chennai is well connected to major cities like Bangalore, Hyderabad, Calicut, and others with high frequency buses.

By Air: Chennai International Airport (MAA) is the nearest airport and 12 km from the conference venue at the University of Madras, Guindy Campus.

Conference Themes

The talks in the conference will cover wide range of themes related bacteriophage and AMR research:

- Phage Therapy: From Isolation to Administration.
- Regulatory Framework, Guidelines, and Protocols for Phage Therapy.
- Phages for Sustainable Agriculture: Enhancing Crop Health and Productivity.
- Marine Phages: Exploring Diversity, Nutrient Recycling, Bio-prospecting, and Biofouling Control.
- Phages for Food Preservation: Formulation, Application, and Regulatory Considerations.
- Phages for Biotechnological and Industrial Applications: Innovations and Potential.
- Leveraging Bioinformatics Tools and Artificial Intelligence (AI) in Phage Research.
- Panel Discussion: Advancing Regulation, Standardization, and Establishing a Phage Bank.
- Engaging Young Researchers: Open Forum for Questions and Knowledge Sharing.
- Interactive Session: Quiz Competitions to Test and Expand Phage Knowledge and fun.

Invited Speakers - International



Dr. Andrew Millard
University of Leicester, UK



Dr. Jessica Sacher
Co-founder, Phage Directory



Dr. Aleksandra Petrovic Fabijan
Westmead Institute for Medical
Research, Australia



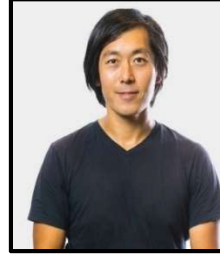
Dr. Antonia Sagona
University of Warwick, UK



Dr. Rodrigo Ibarra-Chavez
University of Copenhagen,
Denmark



Dr. Ben Temperton
University of Exeter, UK



Jan Zheng
Co-founder, Phage
Directory



Dr. Sabrina Green
Katholieke Universiteit
Leuven, Belgium



Dr. Franklin Nobrega
University of Southampton,
England



Dr. Jean Paul Pirnay
Queen Astrid Military Hospital, Guelph Research and Development
Centre, Belgium



Dr. Hany Anany
Guelph Research and Development
Centre, Canada



Dr. Janet Nale
Scotland's Rural College



Dr. Eleanor Jameson
Bangor University, UK



Dr. Robert Edwards
Flinders University,
Australia



Prof. Danish Malik
University of Loughborough,
USA



Prof. Karthik Anantharaman
University of Wisconsin-Madison,
USA



Dr. Simon Roux
Department of Energy, Joint
Genome Institute, USA



Prof. Mikael Skurnik
University of Helsinki, Finland



Dr. Minmin Yen
PhagePro



Dr. Justyna Kowasla
Proteon Pharmaceuticals



Dr. Paul Jaschke
Macquaire University,
Australia



Dr. Michael Shamash
McGill University, Canada

Invited Speakers - National



Dr. C. S. VinodKumar
S.S..Institute of Medical Sciences
and Research Centre, Davangere



Dr. N. Ramesh
VIT Vellore



Dr. Amita Gupta
CIIDRET, University of
Delhi South Campus, New
Delhi



Dr. Sanjay Chhibber
Panjab University
Chandigarh



Dr. Gopal Nath
Banarus Hindu University
Varanasi



Dr. P. Palani
University of Madras
Chennai



Mr. Pranav Johri
Vitalis Phage Therapy
New Delhi



Dr. Hiren Joshi
Bhabha Atomic Research
Centre, Kalpakkam, Chennai



Dr. Taruna Anand
National Research Centre on
Equines, Hisar



Dr. Anuj Tyagi
Guru Angad Dev Veterinary &
Animal Sciences University,
Ludhiana



Dr. Sutharsan Govindarajan
SRM University
Amravati



Dr. Yatee Gupta
Fabiosys Innovations
New Delhi

Registration details

Registration and Participation details: All the delegates must register to participate in the International Conference in the google form by clicking the following link https://docs.google.com/forms/d/1dUoJpMtd1e-HVx9UqqowLTDahf3F7J7urtjra_XEoc/edit?ts=6474ae9d

The Registration fee can be paid in the form of Demand Draft/Cheque drawn in favor of "The Treasurer, ICBRAR-2023" and payable in Chennai. Online payment options will be created and communicated to the delegates shortly through website. The Registration to the conference will open from 1 July 2023 and go up to 15th September 2023. The early bird registration will close on 10th August, 2023. Late registration charges will apply from 11th August onwards till September 15th, 2023. No abstract will be accepted without registration. For conference participation or any query regarding the conference, please contact the organizing secretaries **Prof. P. Palani & Dr. Hiren Joshi** at the following email id: bacteriosymp@gmail.com

Accommodation: Accommodation is not included in Registration fee. The participants have to make their own arrangements in nearby hotels or in University guesthouses (limited rooms, available on a first come, first serve basis. For booking, contact the organizing secretaries). Hence, all the delegates are requested to ensure their accommodation through pre-booking. Any updates related to the accommodation will be posted on the website.

Call for Abstracts

Guidelines for Abstract Submission:

Participation in the Conference is open to all scientists, faculty members, research scholars, and students who are working in any discipline of Life-Sciences. Abstract for Poster presentation should contain a maximum of 300 words excluding the title, authors, and address. Abstracts should be prepared in MS-word, Time New Roman, 12 Font size, and single spacing leaving 1" margin on the left and right side of

the page. The technical session to which the abstract belongs to must be clearly indicated at the top left Corner of the abstract page and also in the registration form. The email id and contact number of the corresponding author must be clearly given in the abstract. The abstract should be submitted on or before 13.09.2023 in electronic form only as an e-mail attachment to bacteriosymp@gmail.com. Abstracts will be printed only after receiving the registration fee. The acceptance will be communicated to the corresponding author via email.

Registration Fees:

Category	Early Bird Registration (Up to 10 August 2023)	Late Registration (11 August - 15 September 2023)	Spot Registration (between 28-30 September 2023)
Students(UG/PG)	Rs.1000	Rs. 1500	Rs. 2000
PhD/Post Docs/RA	Rs.2000	Rs. 3000	Rs. 3500
Faculty (Indian)	Rs.3500	Rs. 4500	Rs. 5000
Faculty (Foreign)	US \$ 150	US \$ 250	US \$ 300
Industry Personnel	Rs. 4000	Rs. 6000	Rs. 10000

Guidelines for Poster Presentations:

The poster should be prepared in advance and should be brought in person by the candidate. The size of the poster should be 0.75 m (Width) × 1.0 m (Length). The poster should be legible from a distance of 1-2 m. All posters are to be set in portrait style orientation and all information (i.e., Text, data, photos, and figures) must be designed to appear within one window/slide (Width 20 in, Height 35 in). If the poster is designed in MS PowerPoint, all information must appear in ONE (1) slide only. Use Page Setup and choose Slide Size: "Custom (Width 20 in, Height 35 in)" with a Portrait (Vertical) orientation. Font size minimum 24 to be used. Save Poster PPT in PDF format (PDF Size limit 10MB) for submission. ORIGINAL Research Work (a declaration from the authors will be required). Posters should include the title, name, and affiliation of all

the authors. Content should be appropriately sectioned. The title and subheadings should be written in bold. Multiple fonts should be avoided. Poster Font size: 20. At the footer/bottom part of the poster, it should be mentioned: Presented at 4th International Conference on Bacteriophage Research and Antimicrobial Resistance.

Important Note:

- Maximum number of authors' in the abstract should be restricted to four.
- All the authors mentioned in the abstract should register for the conference.
- The presenting author's name should be bold and underlined.
- Certificates will be issued to all the authors.

Registration: Open for all Scientists, Academicians, Students, Research Scholars, Delegates and Industry personals.

Commencement of Abstract Submission: Abstract Submission will open from 20th June, 2023. Authors has to send the abstract on the provided email ID.

Commencement of Registration and Fee Payment: Registration and Fee Payment will start from 1st July, 2023.

Last date of Registration and Abstract Submission: 13th September 2023.

Late Registration: Late registration ends on 15th September 2023.

For any assistance, please contact on: bacteriosymp@gmail.com

AWARDS

Lifetime achievement award: Indian scientists who are a life member of SBRT and possess a doctoral degree and are above forty-five years of age, and are engaged in research in the bacteriophages for at least fifteen years (After the doctoral degree) continuously are eligible for consideration

Young Scientist: Indian scientists who are life members of SBRT and possess a doctoral degree and are below forty years of age, and are engaged in research in the bacteriophages for at least five years (After a doctoral degree) continuously are eligible for consideration.

Best scientist of the Year 2023: All scientists who possess a doctoral degree and published research articles in high-impact journals between April 2022 to March 2023 are eligible for consideration.

Best oral presentation award under all the themes: Researchers who present their research work during the conference are eligible for consideration. Awards will be given if more than 5 abstracts are submitted under each theme.

Best Poster presentation award under all the themes: Researchers who present their research work during the conference are eligible for consideration. Awards will be given if more than 5 abstracts are submitted under each theme.

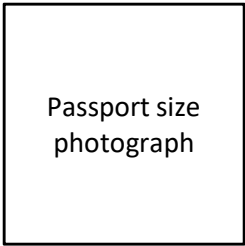
The application for the awards shall be submitted at the following email id: sbrtganga@gmail.com or drpnramesh@gmail.com

The application form is given in the Annexure-1

Annexure-1

Application/ Nomination Form for Lifetime achievement award

/Young Scientist Award / Best scientist of the year



Name of the Award:

Full name of scientist (underline surname):

Designation:

Date and place of birth:

Marital status:

Postal address:

Mobile No.

Email:

Educational qualifications beginning with the first degree or Equivalent (in a tabular form and the year of obtaining the degree):

Employment record (in tabular form):

Any other relevant experience/training:

Details of the Research contributions:

When, where and how the research work was conceptualized and conducted?

In what capacity the applicant participated in various projects/stages of the research work as

Associate Prof./Assistant Prof./ Student:

Publications arising from the research work in a bibliographical format

Whether any patents have been taken out/applied for?

Signature of the candidate