

VIROCON 2021

March 26 - 28, 2022



National Conference of Virology (Virtual mode) on "Emerging and Re-emerging Viral Diseases - Climate Change Impacts and Mitigation "

Organised by Department of Microbiology, All India Institute of Medical Sciences, Bibinagar, Hyderabad Metropolitan Region, Telangana

Under the aegis of Indian Virological Society

# Patron

Dr Vikas Bhatia, Executive Director, AIIMS Bibinagar, Hyderabad

# **Chief Guest**

Dr George D'souza, President, AIIMS Bibinagar, Hyderabad

# **Conference Chairman**

Dr Rahul Narang, Dean Academics, Professor & Head, Department of Microbiology, AIIMS Bibinagar

## **International Advisory Committee**

Dr Ranga Raj Selvarangan, Kansas city, USA Prof Andrew Davison, University of Glasgow, UK Dr H R Pappu, Washington State University, USA Dr Ranjit Ray, St. Louis University, USA Dr. Siba K. Samal, Maryland, USA Dr. Lava Kumar, IITA, Nigeria Dr. R. K. Khetarpal, APAARI, Thailand Dr B Vekatram Prasad, Houston, USA Dr. Jiban Kumar Kundu, CRI, Czech Republic Dr. Suresh Mahalingam, Griffith University, Australia Dr. Venkat Sivaprakasham,, NHS Trust, Hereford, UK

# **National Advisory Committee**

Prof. Anupam Verma, Ex-president IVS, New Delhi Dr. G P Rao, Ex Secretary General IVS, New Delhi Prof. Gaya Prasad, Ex VC, SVPUA&T, Meerut Prof. Narayan Rishi, Ex-president IVS, Noida Prof. M. P. Yadav, Ex-president IVS, Gurugram Dr. A. C. Mishra, Ex-director, NIV, Pune Dr. D. T. Mourya, Ex-director, NIV, Pune Prof. Iddya Karunasagar, NITTE University, Mangalore Prof. Indrani Karunasagar, NITTE University, Mangalore

Dr. V. G. Malathi, TNAU, Coimbatore Dr. R. K. Jain, IARI, New Delhi Dr. V. K. Baranwal, National Prof, ICAR, New Delhi Prof. V. Ravi, NIMHANS, Bangalore Prof. M. K. Reddy, IIHR, Bangalore Prof. Anirban Roy, ICAR, New Delhi Dr. R. Selvarajan, NRCB, Tamil Nadu Prof. Sudhanshu Vrati, RCGB, Faridabad Prof. Indranil Dasgupta, New Delhi Dr. Rashmi Aggarwal, IARI, New Delhi Prof. Supriya Chakraborty, JNU, New Delhi

## **IVS Executive Committee**

#### President

Dr Raj Kumar Singh Former Director/Vice Chancellor ICAR-Indian Veterinary Research Institute (Deemed University) Bareilly, Izatnagar-243 122, India

#### Vice President (Plant Virology)

Prof. Indranil Dasgupta Department of Plant Molecular Biology University of Delhi South Campus Benito Juarez Road New Delhi-110021, India

#### Vice President (Medical Virology)

Prof. V. Ravi NIMHANS, Bangalore, India

#### Vice President (Veterinary Virology)

Prof. (Dr) Indrani Karunasagar Dr Director (R & D), Nitte Deemed to be University & Nitte University Centre for Science Education and Research Director, UNESCO MIRCEN for Marine Biotechnology University Enclave, Medical Sciences Complex Deralakatte, Mangalore- 575018, Karnataka, India

#### **Secretary General**

Prof. (Dr) Yashpal S. Malik Dean, College of Animal Biotechnology Guru Angad Dev Veterinary and Animal Science University (GADVASU), Ludhiana 141004, Punjab, India

#### Secretary (Plant Virology)

Dr R. Selvarajan Principal Scientist (Plant Pathology-Virology), ICAR - National Research Centre for Banana Thogamalai Road, Thayanur Post Tiruchirapalli, Tamilnadu - 620 102, India

#### Secretary (Medical Virology)

Prof. (Dr.) Shailendra K Saxena, *FRCPath (UK) Vice Dean*, Professor & Head, Center for Advanced Research, King George's Medical University, Lucknow -226003, India.

#### Secretary (Veterinary Virology)

Dr Baldev R Gulati Principal Scientist ICAR-National Research Centre on Equines, Sirsa Road, Hisar-125001, Haryana, India

#### Treasurer

Dr. R.P. Pant Principal Scientist Division of Plant Pathology Indian Agricultural Research Institute Pusa, New Delhi, 110012, India

#### **Editor-in-chief**

Prof. (Dr.) Shailendra K Saxena, *FRCPath (UK) Vice Dean*, Professor & Head, Center for Advanced Research, King George's Medical University, Lucknow -226003, India.

#### **Scientific Program Secretaries**

Program coordinator Dr Radha Kanta Ratho Professor and HOD of Virology, PGIMER, Chandigarh

#### Secretary (Medical Virology)

Dr Lakshmi Jyothi Tadi Additional Professor Department of Microbiology AIIMS, Bibinagar Hyderabad, India

Secretary (Plant Virology) Dr R. Selvarajan Principal Scientist (Plant Pathology-Virology), ICAR - National Research Centre for Banana, Tamilnadu, India

#### Secretary (Veterinary Virology)

Dr Baldev R Gulati Principal Scientist ICAR-National Research Centre on Equines, Haryana, India

#### Invitation

It is our greatest pleasure to invite you to attend the National Conference of Virology (Virtual mode) on the Theme "Emerging and Reemerging Viral Diseases – Climate Change Impacts and Mitigation". The conference is organised by the Department of Microbiology, AIIMS, Bibinagar, Hyderabad from March 26 to 28, 2022 in virtual mode. This conference will provide unique opportunity to share your knowledge and exchange ideas with the internationally and nationally recognised scientists and researchers working in the field of Medical, Veterinary, Plant and aquatic viruses & Viral Diseases. The major highlights of the conference would be the Joint symposium involving all these specialities, invited guest lectures by world famous scientists, various IVS oration awards, IVS young scientist awards, Oral and Poster presentations. Your participation in the conference would be a great source of inspiration for the young researchers and the fellow participants.

#### About Indian Virological Society (IVS)

The Indian Virological Society (IVS), was established in 1984. Since its inception it has been involved relentlessly in the field of research and diagnosis of viral diseases. It provides platform for organising National and International conferences, symposium, workshops and continued medical education (CME) programs, Industry-Academia meets. Being a member of International Union of Microbiological Societies (IUMS), the society has earned international accolades. **Virus Disease**, the widely circulated journal of Indian Virological Society is published in collaboration with Springer, Nature. The society is also member of World Society for Virology.

#### **Conference Highlights**

#### **Orations & Awards**

- Kameshwar Sahai Bhargava oration award.
- Shyama Prasad Raychaudhuri oration Award
- IVS-PGI oration award in Medical Virology
- IVS Fellowship
- IVS Young Scientist award
- Best Presentation awards in Oral and poster presentations

#### **Technical Sessions**

- Impact of climate change on Viral epidemics
- Host-viral interactions and Viral Diagnostics
- Guest Lectures on Emerging and re-emerging viral diseases

#### **Special Scientific Sessions :**

- Joint Symposium including medical, Veterinary, plant and aquatic virologists on climate change and viral diseases
- Special session on SARS-CoV2 and disease dynamics
- One Health session

#### **E-Poster Presentation**

# Day 1 : March 26<sup>th</sup> (Saturday)

# CONFERENCE SCHEDULE

Venue : HALL - A

S.No	Time	Event
1.	10.00 am - 11.00 am	<ul> <li>Inauguration of conference</li> <li>Lighting the Lamp</li> <li>Welcome address by Organising Chairperson, Dr Rahul Narang.</li> <li>Introduction of Indian Virological Society (IVS) by Secretary General IVS, Prof. (Dr) Yashpal S. Malik.</li> <li>Address by Director, AIIMS Bibinagar Dr Vikas Bhatia.</li> <li>Address by President IVS, Dr Raj Kumar Singh.</li> <li>IVS fellow award presentation : <ul> <li>President IVS, Dr Raj Kumar Singh</li> <li>Secretary General IVS, Prof. (Dr) Yashpal S. Malik</li> </ul> </li> <li>Address By Chief Guest, Dr George D'souza.</li> </ul>
2.	11.00am -12.00 pm	Kameshwar Sahai Bhargava oration award
3.	12.00 pm- 1.30 pm	<section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></section-header></section-header></section-header></section-header></section-header>

5.	2.10 pm - 3.30 pm	<ul> <li>because of the provide the provided of the provided o</li></ul>
6.	3.30 pm - 3.40 pm	Tea Break
7.	3.40 pm - 4.20 pm	<ul> <li>Lead Lectures in Medical Virology</li> <li><i>Chairpersons:</i></li> <li>Prof S.K. Saxena, Vice Dean, Head (Stem cell), Centre for Advanced Research, KGMU, Lucknow.</li> <li>Dr. Manmohan Parida, Scientist "G" &amp; Director Defence Research and Development Establishment (DRDE), DRDO, Ministry of Defence, Gwalior</li> <li><u>Speakers:</u></li> <li>Viral interctions in organ transplant recipients - Dr Ekta Gupta, Media, Media, Virology, ILBS, New Delhi</li> <li>MationWed, M.R. Surveillance, Dr Neety, Med. Scientist D</li> </ul>
8.	4.20 pm - 5.30 pm	Oral Presentations in Medical Virology
9.	5.30 pm - 6.30 pm	IVS executive body meeting (online)

#### Day 2 : March 27<sup>th</sup> (Sunday)

**CONFERENCE SCHEDULE** 

Venue : HALL - A

Time	Event
11.00 am - 12.00 pm	IVS - PGI oration award on Medical Virology
12.00 pm - 1.00 pm	IVS - Young Scientist award (Medical, Veterinary & Plant Virology)
1.00 pm – 1.30 pm	Lunch Break
1.30 pm - 3.30 pm	<ul> <li>Emerging and Re-emerging Viral Diseases         <ul> <li><u>Chairpersons</u></li> </ul> </li> <li>Dr Ashok Kumar, Assistant Director General (Animal Health), ICAR, Delhi</li> <li>Dr D K Sarma, Professor, Veterinary Microbiology, Guwahati             <u>Speakers</u></li> <li>Vaccination against H9N2 low pathogenic avian influenza – pros and cons - Dr C Tosh, Principal Scientist, National Institute of High Security Animal Diseases, Bhopal.</li> <li>Host-directed Antiviral Therapy - Dr Naveen Kumar- Principal Scientist, ICAR National Research Centre on Equines, Hisar.</li> <li>Current Scenario of Peste des petits ruminants and Control and Eradication Strategic plan in India - Dr V Balamurugan- Principal Scientist, NIVEDI, Bengaluru.</li> <li>Emergence of African swine fever in India: Impact on Small Holding Pig farming system, risk analysis and recommendations to mitigate future outbreak - Dr N N Barman, Professor, Department of Microbiology, College of Veterinary Science, Guwahati.</li> <li>Crimean-Congo Hemorrhagic Fever: Current status-Dr Divkar Hemadri, Principal Scientist, NIVEDI, Bengaluru.</li> <li>Rabies: Diagnostic Challenges with Neutralization Assays and Immunomodulation with Novel Adjuvant-Dr K G Tirumurugaan, Professor &amp; Head, Zoonoses Research Laboratory, Chennai.</li> <li>Investigating emerging &amp; re-emerging viruses in wildlife: our experience - Dr Souvik Ghosh, Professor Zoonoses, Saint Kitts Island, West Indies.</li> </ul>
3.30 pm - 4.30 pm	<ul> <li>One Health Symposium         <ul> <li><u>Chairpersons</u></li> </ul> </li> <li>Dr Praveen Malik, Animal Husbandry Commissioner, New Delhi</li> <li>Dr Subeer Majumdar, NIAB, Hyderabad         <ul> <li><u>Speakers</u></li> <li>Commentary on One-Health in India -Dr D T Mourya, Director, NIV Pune.</li> <li>Implementing One health to prevent future pandemics -Dr Praveen Malik, Animal Husbandry Commissioner, New Delhi</li> <li>Viral zoonoses, One Health and Biotechnology-Dr Narendra Hegde, NIAB, Hyderabad.</li> </ul> </li> </ul>
4.30 pm - 5.30 pm	Oral Presentations in Animal Virology
5.30 pm - 6.30 pm	

# CONFERENCE SCHEDULE

# Day 3 : March 28<sup>th</sup> (Monday)

- Milli

Venue : HALL - A

S.No	Time	Event
1.	11.00 pm - 12.00 pm	Lead Lectures/ Symposium in Aquatic Virology Chairperson         • Dr. Indrani Karunasagar, Director, Projects and DST TEC, Nitte Deemed to be University         • Dr.Arun Dhar, University of Arizona, USA         • Dr.Arun Dhar, University of Arizona, USA         • The Race to Identify Shrimp Viral Disease Etiology: Combining Histopathology and Genomics to Expedite Viral Pathogen Discovery-         • Dr.Neeraj Sood, NBFGR, Lucknow         • Émerging viral diseases in finfish aquaculture in India         • Dr.Indrani Karunasagar, Director, Projects and DST TEC, Nitte Deemed to be University         • Aquatic bacteriophages: role in ecology and disease management-
2	12:00- 01:00 pm	Shyama Prasad Raychaudhuri oration award
3.	1.00pm – 1.30 pm	Lunch Break
4.	1.30 pm - 4.30 pm	<ul> <li>Lead Lectures/ Symposium in Plant Virology</li> <li>Chairpersons:</li> <li>Dr. V. G. Malathi, Former Emeritus Scientist, IARI, New Delhi</li> <li>Dr. R K Jain, Former Dean (IARI) &amp; Emeritus Scientist (ICAR), ICAR-Indian Agricultural Research Institute, New Delhi</li> <li>Rapporteurs: Dr. Y.B. Basavaraj, Scientist Senior Scale, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</li> <li>Convenors: Dr Indranil Dasgupta, VP, IVS; R Selvarajan, Secretary- Plant Views 100</li> </ul>
		<ul> <li>Virus, IVS</li> <li>Speakers</li> <li>Dr Suresh L.M, Maize Pathologist - Sub Saharan Africa &amp; MLN Facility Manager (Global Maize Program), CIMMYT, Nairobi, Kenya</li> <li>Threats and options of emerging transboundary disease in Sub-Saharan Africa</li> <li>Maize Lethal Necrosis</li> <li>Dr Sunil Kumar Mukherjee, Emeritus Scientist, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</li> <li>CRISPR-Cas9 system to mitigate plant DNA viruses</li> <li>Dr Supriya Chakraborty, Professor School of Life Sciences Jawaharlal Nehru University New Delhi.</li> <li>Roles of coding and non-coding regions of beta satellite DNA in the pathogenesis</li> <li>Dr A. Ishwara Bhat, Principal Scientist, ICAR- Indian Institute of Spices Research, Calicut</li> <li>Coat protein-mediated resistance to cucumber mosaic virus in black pepper</li> <li>Dr Amalendu Ghosh, Scientist (Senior Scale), Advanced Centre for Plant Virology, Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi</li> <li>Thrips transmission of tospoviruses: infection, determinants, and pathogenic effects</li> <li>Dr Basavaprabhu L. Patil, Principal Scientist, ICAR-Indian Institute of Horticultural Research (IIHR), Bengaluru</li> </ul>

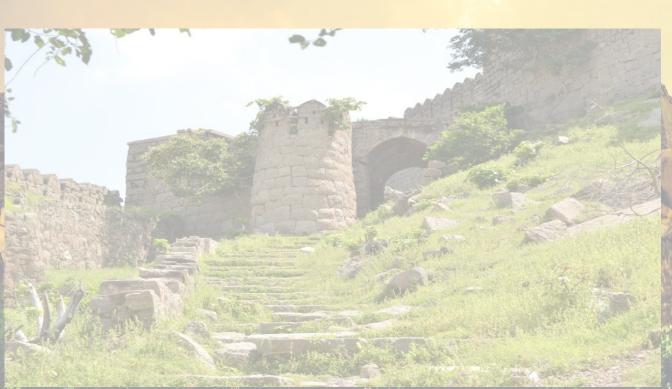
5.	4.30 pm - 5.30 pm	Oral Presentations in Plant Virology
		<ul> <li>Gaurav Sharma</li> <li>Investigating the antiviral role of RNAi components in rice (Oryza sativa L.) against Rice tungro bacilliform virus</li> </ul>
		<ul> <li>Taruna Gupta</li> <li>Expression of LwaCas13a protein for the application in diagnostic and therapeutics</li> </ul>
		<ul> <li>Gnanaprakash. J</li> <li>Insights into the host protein interactions with Transcriptional Activator Protein (TrAP) of Chilli leaf curl Ahmedabad Virus: An In-silico approach</li> </ul>
		<ul> <li>Jayanthi thiruppathi</li> <li>Screening of multiple begomoviruses causing Chilli leaf curl disease in ten major chilli growing areas of Tamil Nadu</li> </ul>
		<ul> <li>Sunil Kumar Srivastava</li> <li>Plant-based generation of Virus like Particles and Expression Platforms for the production of Vaccines, Biosimilars and Therapeutics to address Global Health Security and Inequities</li> </ul>
	E-Posters	<ul> <li>Tripthi Singhal</li> <li>Development of a CRISPR/Cas 12a based detection tool for begomovirus in India</li> <li>Arulsia</li> <li>Serodiagnosis of Tobacco streak virus in Okra</li> <li>Ashish Prasad</li> <li>The sly-miR166-SlyHB module acts as a susceptibility factor during ToLCNDV infection</li> <li>Neelam Jagram</li> <li>The Extent of VICE Mediated Cone Silencing in Bias Dependences The Stream Stre</li></ul>
		<ul> <li>The Extent of VIGS-Mediated Gene Silencing in Rice Depends upon The Virus Susceptibility</li> <li>Rohit Kumar</li> <li>Expanding role of ACS in geminiviral infection</li> </ul>
6.	5.30 pm - 6.30 pm	Valedictory function

# CONFERENCE SCHEDULE

Venue : HALL - B

# **E-Poster Presentation**

S.N o	Date	Time	E-posters Category
1.	March 26, 2022	4.30 pm - 5.30 pm	Medical Virology
2.	March 27, 2022	4.30 pm - 5.30 pm	Animal Virology
3.	March 28, 2022	4.30 pm - 5.30 pm	Plant & Aquatic Virology





# **VIROCON 2021**

# March 26 - 28, 2022





# Dr. George D'Souza President,

AIIMS, Bibinagar, Hyderabad

**Chief Guest** 



# **Chief Patron** Dr. Vikas Bhatia **Executive Director**, AIIMS, Bibinagar, Hyderabad



**Organizing Chairperson Dr. Rahul Narang** Dean (Academics) AIIMS, Bibinagar,

Hyderabad



Organizing secretary Dr. Lakshmi Jvothi Tadi Additional Professor Microbiology



**Co-organizing secretary** Dr. R Shyamala Associate Professor Microbiology

**Organizing Team** 



Dr. Shalam Nikhat Sheerin Associate Professor Microbiology



Dr. Sunil Kumar D Chavan Assistant Professor Microbiology



Dr. Raja S Microbiology



Assistant Professor



Dr. P Rajeshwari Senior Resident, Microbiology



Dr. Yona Manchikalapati Senior Resident. Microbiology



Dr. Wajiha Iftekhar Senior Resident, Microbiology



Dr. Arjun Banerjee Junior Resident, Microbiology



Dr. K Rajesh Kanna Junior Resident, Microbiology

#### Important Dates

- Conference dates
- Last date for submission of Oral / e-poster
- Acceptance of presentation (Oral / e-poster)
- : March 26 28, 2022
- : March 20, 2022
- : March 23, 2022

Registration link Registration is free but mandatory

https://forms.gle/JGxofBrhk1v7UdiZ7

**Guidelines for Oral/E poster Presentation** 

https://tinyurl.com/5n6ens8c (copy link in your browser)

# Contact

# **Organising Secretary**

Dr. Lakshmi Jyothi T Additional Professor Department of Microbiology AIIMS Bibinagar Hyderabad Ph : +91 7702985555 <u>drlakshmijyothitadi@gmail.com</u> lakshmi.micro@aiimsbibinagar.edu.in

# **IVS Secretariat**

F-3, A block, National Agricultural Science Complex, Dev Prakash Shastri Maarg, New Delhi- 110012 Ph : +91 7500777999 secretaryivs@gmail.com