



DR. PRAGYA D. YADAV

SCIENTIST 'F' AND HEAD,
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Date of Birth: 01/07/1978

Place of Birth: Kuinkoal, Sant Kabeer
Nagar, Uttar Pradesh

Nominee's field of specialization:

Virology (Nipah, SARS-CoV-2,
Monkeypox, Crimean Congo
haemorrhagic fever virus, Zika,
Ebola, Kyasanur Forest Disease,
Bunyavirus, Dengue, Chikungunya,
novel virus pathogens, high risk
group of pathogens, respiratory
diseases), Molecular biology, Public
Health, Research & Development and
Biocontainment science,
Translational research, Preclinical
vaccine studies in animal model,
Vaccine.

I am currently working as Scientist 'F' and leading Asia's first Biosafety Level-4 laboratory at Indian Council of Medical Research-National Institute of Virology (ICMR-NIV), Pune, India. With my extensive experience in the field of virology, I have contributed significantly to the understanding of emerging viral infections in India.

I have obtained my PhD in Virology from the University of Pune in 2013 and joined as a Scientist in ICMR-NIV, Pune. Since then, I have been actively involved in the surveillance and research of emerging viral infections.

I could make significant contributions in the field of virology and Biocontainment human and Animal Virology (Nipah, SARS-CoV-2, mpox, Crimean Congo hemorrhagic fever virus, Zika, Ebola, Kyasanur Forest Disease, Bunyavirus, Dengue, Chikungunya, novel virus pathogens, high risk group of pathogens, respiratory diseases), Health sciences, epidemiology, Biomedical sciences, Molecular biology, Public Health, Research & Development and Biocontainment science, Translational research, Preclinical vaccine studies in animal model, Vaccine with the special focus on highly infectious viral pathogens. I have shown a sincere commitment towards my work and dedicated efforts in virology research which led to the discovery of many novel viruses, quick investigation of viral outbreaks such as Crimean Congo hemorrhagic fever, Kyasanur Forest Disease Nipah and Zika virus, Monkeypox virus. Further, I have been involved in the development of novel diagnostic assays system, transfer of technology for commercial production, sharing of reagents with SEAR Member state and towards preparedness of the public health system to deal with threats like Ebola, Yellow fever, SARS-COV-2 and Monkey pox in India. The two decades of experience of working on highly pathogenic Risk group-3 & -4 viruses have added advantage to the public health system in timely identification and containing the outbreaks in the country.

During the Covid-19 pandemic, I have made sincere efforts in quick isolation of SARS-CoV-2 virus from India which was utilized by Bharat Biotech International Limited to generate the first indigenous vaccine (COVAXIN™). Subsequently, she preclinical studies for COVAXIN™ were carried out successfully which paved the way of vaccine candidate further towards clinical trials. This is the one of the biggest scientific achievements in the history of ICMR and Indian Science.

I would continue to promote the excellence in virology and Biosafety, biosecurity trainings for the public health and virology laboratories in India.

Academic Qualifications (bachelor's degree onwards)

Sr. No.	Degree	Subject	Class CGP marks	Year	University	Additional particulars
1.	B.Sc.	Zoology, Chemistry	1 st	1998	Dr. R. M. L. Avadh University, UP, India	-
2.	M.Sc.	Biochemistry	1 st	2001	Dr. R. M. L. Avadh University, UP, India	Merit
3.	PhD	Biotechnology (ICMR-JRF)	NA	2004	University of Pune, Maharashtra, India	NA
4.	Post-Doctoral Research Work	Virology and Biocontainment	NA	2005-2006	Special Pathogen Branch, Center for Disease Control and Prevention (CDC), United States of America (USA)	-
5.	BSL-4 Training	Zoonosis control	NA	2011	BU University, Boston, USA	
6.	Zoonosis control training Program	Zoonosis control (JICA fellow)	NA	2011	Hokkaido University, Japan	Certified
7.	Follow up Zoonosis control training Program	Zoonosis control (GCOE Fellow)	NA	2012	Hokkaido University, Japan, organized by GCOE, Japan	Certified
8.	Category- Irradiators (Gamma chamber 5000)	Use of Gamma chamber for virus inactivation	NA	2013	REPF, Board of Radiation and isotope technology (BRIT), Mumbai	Certified
9.	Awareness program on NABL document preparation	NABL documents preparation	NA	2014	NABL consultant at MCC, NIV, Pune, April 04	Certified
10.	Shipping and packaging of Infectious Samples and Laboratory Quality Management System,	Shipment of infectious material and lab management	Online certification course	2015	World Health Organization, 4th - 8th August 2015	Certified shipper
11.	Implementation of GAP III and certification of Polio virus Essential facilities, GAPIII Polio meeting	GAPIII implementation for essential Polio lab	certification course	Feb 7-10, 2016	World Health Organization, Delhi, India	Certified
12.	Epi Info software Training for Data	Clinical Laboratory Data	certification course	Jan 16-19, 2017	CDC, USA and NIV, Pune at Hotel JW	Certified

	Management	Management			Marriott, Pune	
13.	Polio virus testing by tissue culture and molecular methods	Molecular Methods of Diagnosis	Lab training	Apr 17th To May 5th 2017	ICMR-EVRC, Mumbai	Certified
14.	Hands-on training on Miniseq “Next Generation Sequencing” (NGS) platforms and associated procedures for rapid genetic characterization of viruses	Molecular Methods of novel virus discovery	Lab training	Jan 29th– FEB 2nd, 2018	Viral Special Pathogens Branch (VSPB), CDC, Atlanta, Georgia, USA	Certified by CDC, USA
15.	Programme on Integrated Scientific Project Management for Women Scientists/ Technologists	Project Management	Administrative Training	Feb 18th – 22nd 2019	Centre for Organization Development (COD), Hyderabad	Certified
16.	GAPIII orientation updated for latest developments including PIM guidance Bandung, Indonesia	PEF establishment at ICMR-NIV, Pune	Training course certification	2019	Attended the training on GAP III, organized by World Health Organization in Indonesia	Certified with 82% Score
17.	Advanced Auditor’s Training for Polio Essential Facility, 25th to 29th Mar 2019 Mock-up Audit Exercises	Attended the training and facilitated the audit for PEF.	certification	Apr 1st - 5th 2019	Organized by WHO, facilitated by ICMR-NIV, Pune	Received certificate
18.	Good Clinical and Laboratory Practices (online)	Laboratory training	certification	Apr 2019	Online certificate course by Global Health Training Centre	Received certificate
19.	Transition program from ISO/IEC 17025:2005 to ISO/IEC 17025:201” of the Laboratory Quality Management,	Technical expert	certification	July 10th 2019	Laboratory Quality Management training	Received certificate
20.	Subject Matter Expert Exchange (SMEE) on clinical lab and Bio-preparedness 2019.	Bio-preparedness	certification	Aug 4th to 7th 2019	USA, Australia and Dhaka, Bangladesh	Completed training
21.	Capacity Building on GCLP for Laboratory site preparation for Nipah Clinical trials,	ICMR-NIV, Pune by Dr. Allan Levesque, Director FHI 360	certification	Oct 11th 2019	NIH, USA	Received certificate

22.	Infectious Substances Shipping Training Certificate (e-ISST)	Online certificate course by World Health Organization and IATA	certification	Dec 3rd 2019 (Eligible For 2 Years)	Online certificate	Online certificate
23.	International symposium on Novel ideas in Science and Ethics of Vaccines against COVID pandemic	Online symposium organized by ICMR, New Delhi	certification	Jul 30, 2020	ICMR-HQ	Online certificate
24.	Online seminar on "SARS-CoV-2 Antigen RDT training package - COVID-19 Laboratory Community of practice session 15	Online Webinar	certification	Nov 18, 2020	WHO Health Emergencies Programme	Online certificate
25.	Virtual seminar with the WHO collaborating centres conducted by the WHO Director-General and the Quality Assurance, Norms and Standards Department	Online Webinar	certification	Dec 16, 2020	World Health Organization	Virtual Seminar
26.	Two-days training on Disaster Management Plan Preparation	Training	certification	Feb 8-9, 2021	Yashwantrao Chavan Academy of Development Administration (YASHADA). Centre for Disaster Management, by Col V N Supanekar, Director, CDM, YASHADA	Received certificate
27.	Infectious Substances Shipping Training Certificate (e-ISST)	Training	certification	Eligible For 2 Years 2022-2024	Online certificate course by World Health Organization and IATA	Received certificate

Title of the PhD thesis: Study on the identification and expression of certain pathogen responsive genes in vector mosquito *Aedes aegypti*

Date of joining the Institution (Designation &Scale): 07-05-2004, Scientist B, PB-3: 8000-275-13500 (GP-5400)

Administrative Experience	<ul style="list-style-type: none"> Establishment of laboratory facilities for handling emerging infectious viruses. Operation and management of BSL-4 laboratory. Operation and management of BSL-3 laboratory. Teaching Experience: M.Sc. Virology (Virology curriculum) at ICMR-NIV, Pune. Course coordinator, Faculty, Guide, co-guide for M.Sc., Ph.D. programmes. Guide of MSc Virology students for dissertation work. Faculty in National and International workshops and training programmes. Principal investigators for many International and National studies on public health Biosafety & Biosecurity consultant to national and international agencies Currently Group Leader of BSL-4 laboratory, ICMR-NIV, Pune.
Research Experience	<ul style="list-style-type: none"> Current major activities: Outbreak investigation, Reagents preparation, Monitoring of Operation, and maintenance of BSL-4 facility, providing laboratory diagnosis [SARS-CoV-2, CCHF, Ebola, Hanta, KFD virus, Nipah virus, Buffalo pox, Zika, Yellow fever, mpox and other highly infectious viral diseases], viral discovery by developing new diagnostic tools and vaccine development. 18-years post-doctoral working experience on Zoonotic diseases [CCHF, Nipah, Ebola, Hanta and Nairobi Sheep Disease Virus, SARS-CoV-2, mpox and novel viruses discovered] and Arboviruses [Dengue, Chikungunya, Bunya viruses, Kyasanur forest disease, Zika, Yellow fever] Experience of working in Biosafety level 2, -3 and -4 laboratories. Experience of mentorship-based training on BSL-3 and BSL-4 laboratory work practices and Biosafety in India. Validation and functionalization of India's first mobile BSL-3 laboratory.

Employment History:

Sr. No.	Period	Place of Employment	Designation	Scale of pay
1.	June 2001 to November 2001	Dr. R. M. L. Avadh University, Faizabad, Uttar Pradesh	Lecturer, Clinical Biochemistry and Pathology	Ad hoc 5000/-
2.	3 years, 2001-2004	ICMR-National Institute of Virology (NIV), Pune	PhD & Junior Research Fellow	JRF fellowship
3.	4 years, 2004 - 2008	Virus Repository & High Containment Laboratory, ICMR-NIV Pune	Scientist 'B' & Assistant Biosafety Officer	PB-3 8000-275-13500 (GP-5400)
4.	1year, 2005-2006	Special Pathogen Branch, Center for Diseases control and Prevention, Atlanta, Georgia, USA	International Emerging Infectious Disease fellow	3000 USD/Month
5.	2008 - 2012	BSL-4 group, NIV, ICMR-NIV Pune	Scientist 'C' & Assistant Biosafety Officer	PB-3 15600-3900 GP-6600
6.	2012 - 2016	BSL-4 group, NIV, ICMR-NIV Pune	Scientist 'D' and Group Leader	PB-3 15600-3900 GP-7600
7.	2016 - 2021	BSL-4 group, NIV, ICMR-NIV Pune	Scientist 'E' & Group Leader	PB-4 37400-67000 GP-Rs.8700/
8.	2021 – till date	BSL-4 group, NIV, ICMR-NIV Pune	Scientist 'F' & Group Leader	PB-4 37400-67000 GP-8900

Professional Experience & Peer Recognition

1.	Rector or equivalent*	5 years, 2015-2020	Girls Hostel, ICMR-NIV, Pune
2.	Professional career of long standing including academic assignment leading to significant contributions towards developing a specialty (Clinical/Laboratory techniques/Public Health Interventions or dealing with biomedical advancement)	8 years, 2004-2011 [Received training from HSADL, Bhopal and CDC, USA to work in BSL-3 facility and started working on highly infectious viral pathogens in India.	Validation and operation of BSL-3 laboratory [worked from 2006-2011]
		11 years, 2011-2022 [Received training from CDC, USA to work in BSL-4 facility and initiated work on highly infectious viral diseases in India and set a new league in research of high-risk pathogens e.g., Nipah and CCHF. Received many awards on these efforts.	BSL-4 laboratory validation and operation, the first state of the art facility in Asia and India which helped in doing research on many high-risk viral pathogens and enhancing translational research including Vaccine.
		<ul style="list-style-type: none"> WHO temporary advisor for 'Regional laboratory workshop on Biosafety in laboratories for SEARO country members for providing training of Ebola Preparedness' at ICMR-NIV, Pune, 17th-19th August 2014. WHO Consultant - Technical assistance for validation/evaluation of BSL-III at National Public Health Laboratory, Nepal. 24th-30th January 2015. WHO temporary advisor for 'Regional workshop on quality management system (QMS), Biosafety and biosecurity' in WHO-SEARO country members at, Pune, 25th-29th August 2015. WHO Consultant-Technical assistance for validation/evaluation of BSL-III at Public Health Laboratory, Bhutan. 16th-27th October 2015. WHO Consultant-Technical assistance for validation/evaluation of BSL-III at Royal Centre for Disease control (RCDC) Laboratory, Bhutan. 17th-21st October 2016. Meeting for the Creation of a Regional Research Platform for Infectious Diseases of Public Health Importance in the WHO South-East Asia Region 7-8th August 2019 Member of the Regional Research Platform for Emerging Infectious Diseases of Public Health Importance in the WHO South-East Asia Region 3rd 4th December 2019, New Delhi and contributed to formulating one 	<p>World Health Organization</p> <p>The efforts helped in validation of BSL-3 facility at Nepal and Bhutan and that become necessary doing pandemic.</p> <p>Bio-risk mitigation training helped in dealing with these high-risk pathogens not only in India but also SEAR member state.</p>

		project. As a result of active deliberations during the meeting, concept proposals on following five tracks related to dengue viral disease were developed during the meeting.	
		<ul style="list-style-type: none"> ▪ Nipah Task Force member under Coalition for Epidemic Preparedness Innovations (CEPI) Standards Assays (2019) 	Coalition for Epidemic Preparedness Innovations (CEPI)
		<ul style="list-style-type: none"> ▪ Subject Matter Expert Exchange (SMEE) on clinical lab and Bio-preparedness 2019: to understand different epidemiological tools and the bio-simulation exercises at Dhaka, Bangladesh (2019) 	Directorate General of Medical Services, Bangladesh Armed Forces and US Army Regional Health Command Pacific
		<ul style="list-style-type: none"> ▪ Member of Guideline Development Group to support upcoming updates to the WHO recommendations on the use of SARS-CoV-2 Antigen Detection Tests. ▪ Member of Animal study group World Health Organization COVID-19 Animal Models Group, 	World Health Organization
		<ul style="list-style-type: none"> ▪ Member of Advisory Council of International Society on Crimean-Congo Hemorrhagic Fever (Since 2017) 	International Society on Crimean-Congo Hemorrhagic Fever
		<ul style="list-style-type: none"> ▪ Co-chaired Guideline development group on the Use of SARS-CoV-2 antigen-detection rapid diagnostic tests for COVID-19 self-testing Interim guidance, 2022 	World Health Organization
		<ul style="list-style-type: none"> ▪ Member of technical expert group, CDSCO and WHO 2022 	To examine and analyze adverse event report, causal relationship and related details and advice to Gambia where children's have died suspected because of the use of medicine
		<ul style="list-style-type: none"> ▪ Meeting with WHO country office India and WHO Country office Maldives for the providing the consultancies for the layout and design of new NHL in Maldives on February 7, 2023 	WHO country office, India, and Maldives
		<ul style="list-style-type: none"> ▪ Meeting of the South-East Asia Regional GOARN (Global Outbreak Alert and Response Network) Partners, in Kathmandu, Nepal, from 15-16 March 2023, being organized by the WHO South-East Asia Regional Office, New Delhi 	Invited as Public Health Expert
		<ul style="list-style-type: none"> ▪ Member for MBSL-3 validation and monitoring committee at ICMR-RMRC Gorakhpur, April 2023 	Invited as Biocontainment Expert
		<ul style="list-style-type: none"> ▪ Member of the QUAD working group 	Invited as QUAD country

		committee for an initial Quad Chief Public Health Medical Officers or Head of CDC Meeting on June 2, 2023	representative
		▪ Member of National Technical Scientific Advisory Committee of IV Annual National Conference Of Epidemiology Foundation of India in June 2023	Invited as Public Health Expert
		▪ Invited as a speaker in International Pandemic Sciences Conference 2023, Pandemic Sciences Institute, University of Oxford, United Kingdom on 10-11 July 2023	Invited as Public Health Expert
		▪ WHO Temporary advisor for the establishment of BSL-3 facility at New National Health Laboratory at Maldives from July 28- August 5, 2023 at Male, Maldives.	Invited as a Temporary advisor
		▪ Member of DBT's "Precision Biotherapeutics - mRNA Therapy - Sub-sectorial Expert Committee on Biomanufacturing" on August 19, 2023	Nominated as vaccine expert

Eminence of nominee among peers in the profession as a person of integrity and distinction at national/international level

1. Managerial and Administrative role in running and operation of Maximum Containment facility (BSL-4 laboratory), India and Asia first state art of facility.
2. Managerial role in laboratory investigations of outbreak of high-risk group viral pathogens i.e., Crimean Congo hemorrhagic fever, Kyasanur forest disease, Nipah, Ebola, Yellow fever, Hantaan, SARS-CoV-2, Monkeypox and development of new diagnostic assays for emerging and re-emerging viral diseases [Supervision: results analysis, inference and providing reports on laboratory diagnosis of referred clinical specimens]. Projects writing, data analysis, reports preparations, presentation for ongoing extramural and intramural funded projects.
3. Organizing biosafety training and work practices for BSL-4 laboratory staff and other project team members of Diagnostic reagent facility (DRF). Resource person for teaching and training in the international/national workshops on Biosafety, use of PPEs, triple packaging and outbreak response and surveillance of high-risk viral pathogens.
4. As per the international mandate and being Virus Repository for MoHFW of eliminated Polio viruses, implementation, and supervision on Biorisk management of laboratory operations.
5. Postgraduate teaching and laboratory training programs for postgraduate M.Sc. Virology course. Mentorship of scientist and technical staff for BSL-4 work practices, project planning, writing and paper/report preparation.
6. Preparation of various scientific documents, institutional documents reports and guidelines.
7. Preparation of diagnostic assays for viral diseases of high-risk group, reagent preparation, and distribution in the situations of any public health emergencies or WHO-Advisories on the threats of emerging infections, i.e., SARS-CoV-2, Ebola, Zika and Yellow fever virus preparedness.
8. Coordination with the team and helping in documentations, SOPs preparation, and facilitation of audits related to NABL and Polio Essential Facility.
9. Preparation and supply of diagnostic reagents to various Virus Research and Diagnostic Laboratory (VRDL), as and when needed.

10. Monitoring the WHO PT programme results; compiling of the data and reporting.
11. Providing administrative assistance in pertinent administrative issues to the Director's office.
12. Pursuing research study on virus genome, vaccine study, animal study, preclinical study, monoclonal antibody, equine serum, anti-viral study as per demand of country and currently focus on SARS-CoV-2 pandemic.
13. Focus on COVID-19 research-Pursuing research study on SARS-CoV-2 projects of virus genome, vaccine study, animal study, preclinical study, monoclonal antibody, equine serum, anti-viral study, validation of point-of-care COVID-19 assay, as per demand of country and currently focus on SARS-CoV-2 pandemic. The SARS-CoV-2 was isolated and after characterization, it was transferred to Bharat Biotech International Ltd for making the vaccine. We have standardized different ELISAs, PRNT, animal models and develop required assays for vaccine preclinical study. Hamster and Nonhuman primate's studies were performed, and it was found to be immunogenic and showed protection against SARS-COV-2. Further, we supported in Phase 1, 2 and 3 clinical trials and DCGI provided EUA to this indigenous vaccine.

Details of Fellowship/ Associateship held.

Sr. No.	Fellowship	Period	Place	Funding Agency
1	Indian Council of Medical Research Junior Research Fellowship (ICMR-JRF)	27 November 2001 – 10 May 2004	Virus Repository & High Containment Laboratory, ICMR-NIV Pune	ICMR, New Delhi
2	Indian Council of Agricultural Research NET (ICAR-NET)	2001	Dr. R. M. L. Avadh University, UP, India	ICAR, New Delhi
3	International Emerging Infectious Disease Fellow	8 August 2005 to 15 September 2006	Center for Disease Control and Prevention (CDC), United States of America (USA)	Association of Public Health Laboratories, USA
4	Japan International Corporation Agency Fellow	15 August 2011 to 15 September 2011	Hokkaido University, Japan	Zoonosis Control, Japan International Corporation Agency, Japan
5	Global COE Fellow	15 October 2012 to 26 October 2012	Hokkaido University, Japan	Global COE Office, Hokkaido University, Japan.

Significant foreign assignments:

Sr. No.	Period of visit		Institute/ country visited	Purpose of visit
	From	To		
1	08-08-2005	15-09-2006	Centre for Disease Control & Prevention (CDC), USA	To carry out research activities as IEID fellow (Post Doctoral Fellowship)
2	30-04-2009	30-04-2009	Manila, Philippines	To deliver a lecture in conference of Asia pacific biosafety association on Biosafety Challenges in India - Next Step forward as an invited speaker and representative of India
3	01-06-2011	10-07-2011	National Emerging Infectious Diseases Laboratory (NEID), USA	To participate in training program pertaining to Biosafety Level-4 laboratory to establish similar work practices in BSL-4 facility of India
4	15-08-2011	15-09-2011	Zoonosis Control, Japan International Corporation Agency, Japan	To participate in training on Zoonosis control as JICA fellowship awardee for in depth understanding about the Zoonotic diseases and their control
5	15-10-2012	26-10-2012	Global COE Office, Hokkaido University, Japan.	To participate in training on Zoonosis control, follow-up program
6	24-01-2015	30-01-2015	National Public Health Laboratory, Nepal	To provide technical assistance for validation/evaluation of BSL-III laboratory at Nepal as a WHO Consultant
7	16-10-2015	27-10-2015	Public Health Laboratory, Bhutan	To provide technical assistance for validation/evaluation of BSL-III laboratory at Bhutan as a WHO Consultant

8	17-10-2016	21-10-2016	Royal Center for Disease control (RCDC) Laboratory, Bhutan	To provide technical assistance for validation/evaluation of BSL-III laboratory at Bhutan as a WHO Consultant
9	23-11-2015	24-11-2015	Thailand, Bangkok	Regional workshop on poliovirus laboratory containment organized by World Health Organization to implement Polio Essential Facility (PEF) in NIV, Pune as a BSL-4 In-charge
10	17-04-2017	06-05-2017	Viral Special Pathogens Branch (VSPB), CDC, Atlanta USA	To attend hands on Training on “MINISEQ-Next Generation Sequencing (NGS)” platforms and associated procedures for rapid genetic characterization of viruses and utilize this platform in ICMR-NIV, Pune for discovering novel pathogens
11	10-09-2017	12-09-2017	Thessaloniki, Greece	To deliver a lecture in 2nd International Crimean Congo hemorrhagic fever (CCHF) Conference, as an invited speaker
12	18-02-2019	22-02-2019	World Health Organization Bandung, Indonesia	To attend updated GAPIII orientation program for latest developments including PIM guidance and certified with >80% score
13	04-08-2019	07-08-2019	Dhaka, Bangladesh	To participate in Subject Matter Expert Exchange (SMEE) on clinical lab and Bio-preparedness 2019: to understand different epidemiological tools and the bio-simulation exercises
14	24-09-2019	26-09-2019	Dhaka, Bangladesh	To attend the regional consultation meeting as an expert for the implementation of Nipah Clinical Trial
15	09-12-2019	10-12-2019	Singapore	To deliver a lecture on “Survey of Pteropus bats during Nipah outbreak in India revealed its association: Role of early diagnosis during Nipah outbreak” as a Invited Speaker in Nipah Virus International Conference
16	07-12-2022	12-12-2022	Singapore	Nominated by Secretary DHR and DG ICMR as an expert on molecular diagnosis of high threat pathogens and attended the international conference of the Seventh World One Health Congress (WOHC) in Singapore, from Nov 7-11, 2022.
17	15-03-2023	16-03-2023	Nepal	Invited as Public Health Expert for meeting of the South-East Asia Regional GOARN (Global Outbreak Alert and Response Network) Partners, in Kathmandu, Nepal, from 15-16 March 2023, being organized by the WHO South-East Asia Regional Office, New Delhi.
18	10-07-2023	11-07-2023	United Kingdom	Invite as speaker at International Pandemic Sciences Conference 2023, Pandemic Sciences Institute, University of Oxford, United Kingdom on 10-11 July 2023
19	28-07-2023	05-08-2023	Maldives	Invited as WHO Temporary advisor for the establishment of BSL-3 facility at New National Health Laboratory at Maldives from July 28-August 5, 2023 at Male, Maldives.

➤ **Membership of Professional Societies/ expert committees /editorial boards**

Name of the Society/expert committees/editorial boards	Date of start	Valid till
Member of DBT's "Precision Biotherapeutics - mRNA Therapy - Sub-sectorial Expert Committee	2023	–
NAMS expert member for NAMS-AFMS Joint force on Research needs and roadmaps of AFMS vision: 2030	2023	–
Co-guest editor for Virology Journal	2023	2024
Guest Associate Editor for Frontiers in Medicine	2023	2024
Life Member of the Epidemiological foundation of India	2023	Life Member
Life Member of the Indian Association of Medical Microbiology, India (IAMM)	2022	Life Member
Member for WHO's Guideline development group on COVID-19 testing	2022	2023
WHO TPP Expert Group for Monkeypox Diagnostics	October 2022	2023
Experts' member on COVID-19 care pathways supported by rapid diagnostic tests, London School of Hygiene & Tropical Medicine, UK	2022	2023
Member of WHO led effort to prioritize diseases of epidemic and pandemic threat (Bunyaviridae), World Health Emergencies, the WHO Science Division and the R&D Blueprint,	2022	2023
Associate Editor for Frontiers in Virology	2021	Continue
Guest Associate Editor for Frontiers in Medicine: Infectious Diseases – Surveillance, Prevention and Treatment Volume II	2021	
Guest Associate Editor for Frontiers in Public Health: Infectious Diseases – Surveillance, Prevention, and Treatment. Volume I	2021	–
Special issue topic edited: Emerging SARS-CoV-2 Variants: Genomic Variations, Transmission, Pathogenesis, Clinical Impact, and Interventions: Linked journals as below. <ul style="list-style-type: none"> • Frontiers in Medicine • Frontiers in Public Health • Frontiers in Microbiology 	2021	–
Life Member of The National Academy of Sciences India (NASI)	2014	Life Member
Life Member of National Academy of Vector Borne Diseases	2013	
Life member Indian Virology Society	2013	
Life Member of Virology Society of India	2013	
Life member of Society for Biosafety	2013	
Full member of American Society of Virology	2011	
Life member of NIV Research Foundation	2006	
Student Membership of American Society of Microbiology	2005	2006

Member of committee of setting up BSL-3 Lab at Kasturba Hospital, Mumbai, Maharashtra	2021	Continue
Member of National Expert Committee for validation for BSL-3 & BSL-4 laboratory for Defence Research and Development Organization	2021	Continue
Animal study group World Health Organization COVID-19 Animal Models Group	2020	Continue
Technical Working Group (SEARO) on Biosafety and Infectious diseases	2019	Continue
Member of WHO SEARO Expert Reference Group on Nipah virus	2020	Continue
ICMR-Task Force for Research group on COVID-19 diagnostics and biomarkers ICMR-Rapid Response Team member for COVID-19	2020	Continue
Biosafety Advisor for Polio Essential Facility at ICMR-National Institute of Virology, Pune	2020	Continue
Research member for development of COVID-19 ELISA (Indian Council of Medical Research)	2020	Continue
Research member for Raising hyperimmune serum against SARS-CoV-2 at ICMR-National Institute of Virology, Pune	2020	Continue
Evaluation of Antiviral Compounds at ICMR-National Institute of Virology, Pune	2020	Continue
Task Force member for Research group on COVID-19 diagnostics and biomarkers (Indian Council of Medical Research)	2020	Continue
Rapid Response Team member for Genome Sequencing of SARS-CoV-2 (Indian Council of Medical Research)	2020	Continue
Research member for SARS-CoV-2 Characterization, Virus Culture Antigen Preparation, Kit Development, Drug Repurposing at ICMR-National Institute of Virology, Pune	2020	Continue
Research member for the development of first indigenous whole virion inactivated SARS-CoV-2 vaccine (Indian Council of Medical Research and Bharat Biotech International Ltd)	2020	Continue
Member of Expert committee to issue live SARS-CoV-2	2020	Continue
Expert committee member for BSL-4 laboratory, ICMR-NIV, Pune	2020	Continue
ICMR- Nipah Task force member	2019	Continue
Member of the Regional Research Platform for Emerging Infectious Diseases of Public Health Importance in the WHO South-East Asia Region	2019	Continue
Membership of ICMR-Scientific Advisory Board, Scientific Advisory Group, Expert Groups, or of the corresponding Committees of CSIR/DST/DBT/UGC	2019	Continue
The Coalition for Epidemic Preparedness Innovations (CEPI) Standards Assays Nipah Task Force member	2019	Continue
Nipah Task Force member under Coalition for Epidemic Preparedness Innovations (CEPI) Standards Assays	2019	Continue
BSL-3 certification committee meeting (ICMR)	2019	Continue
Member of Expert group Committee for up-gradation of Virus Antigen Detection (VAD) laboratory & Molecular Laboratory, NCDC, Delhi	2019	Continue
Member of Advisory Council of International Society on Crimean-Congo Hemorrhagic Fever	2017	Continue

Membership	Name of the Organization
Membership of the technical expert groups/ Advisory groups/Study group/ or corresponding groups/committees of national agencies e.g., Planning Commission/Expert Group of Ministry of Health & Family Welfare or WHO, UNICEF or other international agencies	<ul style="list-style-type: none"> ▪ Member of Advisory Council of International Society on Crimean-Congo Hemorrhagic Fever (2017) ▪ Nipah Task Force member under Coalition for Epidemic Preparedness Innovations (CEPI) Standards Assays (2019) ▪ Member of Technical Working Group (SEARO) on Biosafety and Infectious diseases [2019] ▪ Member of the Regional Research Platform for Emerging Infectious Diseases of Public Health Importance in the WHO South-East Asia Region [2019] ▪ Member of WHO SEARO Expert Reference Group on Nipah virus (2020). ▪ Member of Animal study group World Health Organization COVID-19 Animal Models Group, [2021] ▪ Member of Guideline Development Group to support upcoming updates to the WHO recommendations on the use of SARS-CoV-2 Antigen Detection Tests [2022]
Membership of ICMR-Scientific Advisory Board, Scientific Advisory Group, Expert Groups, or of the corresponding Committees of CSIR/DST/DBT/UGC	<ul style="list-style-type: none"> ▪ ICMR- Nipah Task force member [2019] ▪ Biosafety Advisor for Polio Essential Facility at ICMR-National Institute of Virology, Pune (2019) ▪ ICMR-Nipah Task force member from India [2019 onwards] ▪ ICMR-Task Force for Research group on COVID-19 diagnostics and biomarkers ICMR-Rapid Response Team member for COVID-19 [2019] ▪ Expert committee member for BSL-4 laboratory, ICMR-NIV, Pune [2020] ▪ Research member for Raising hyperimmune serum against SARS-CoV-2 at ICMR-National Institute of Virology, Pune (2020) ▪ Evaluation of Antiviral Compounds at ICMR-National Institute of Virology, Pune (2020) ▪ Research member for development of COVID-19 ELISA (Indian Council of Medical Research) (2020) ▪ Invited Member of Task force committee of animal study for Indian council of Medical Research (2020) ▪ Member of Expert committee to issue live SARS-CoV-2, Indian Council of Medical Research, India ▪ Task Force member for Research group on COVID-19 diagnostics and biomarkers (Indian Council of Medical Research) (2020) ▪ Rapid Response Team member for Genome Sequencing of SARS-CoV-2(Indian Council of Medical Research) (2020) ▪ Member for SARS-CoV-2 Characterization, Virus Culture Antigen Preparation, Kit Development, Drug Repurposing at ICMR-National Institute of Virology, Pune (2020) ▪ Member for the development of first indigenous whole virion inactivated SARS-CoV-2 vaccine (Indian Council of Medical Research and Bharat Biotech International Ltd) (2020) ▪ Expert Group Committee Member for finalization of Standard Operating Procedures (SOP's)and guidelines of Vector Antigen Detection Laboratory at Centre for Medical Entomology & Vector Management (CME &VM) Division, NCDC, Delhi. [2021] ▪ BSL-3 certification committee of Indian Council of Medical Research, India [2021]. ▪ Member of National Expert Committee for validation of BSL-4 of DRDO/DRDE, Member of the Expert group [2021] ▪ Member of National Expert Committee for validation for BSL-3 & BSL-4 laboratory for Defense Research and Development Organization [2021]. ▪ Expert member of ICMR Pandemic Preparedness Partnership (IPPP): Preparedness for a Robust and Responsive Clinical and Public Health Research Capacity during Pandemics [2021].

	<ul style="list-style-type: none"> ▪ Member of committee of Setting up BSL-3 Lab at Kasturba Hospital, Mumbai, Maharashtra, [2021] ▪ Member of Fellowship Expert Group of ICMR for award of Fellowship under the Extramural Research Program of ICMR for the year [2022]. ▪ ICMR-Task Force expert on Neglected Tropical Diseases [2022]. ▪ Core Group Member of Task Force in Omics in Health & Disease of Indian Council of Medical Research, New Delhi [2022].
Consultancy with any UN/International organization/ Visiting Professor of a reputed University	<ul style="list-style-type: none"> ▪ Attended First health group meeting exhibition at Kerala and presented the technology and diagnosis developed by NIV and also work carried out on different viral diseases [2023]. ▪ Supported G20 second health group meeting by sending team members to show case the MBSL-3 facility and promoting the agenda of India in digital health and outbreak response [2023]. ▪ Invited as Nipah subject Expert for meeting on “Role of Stakeholders in Preparing and Preventing Re-emergence of Nipah Infection Outbreaks” in Kuala Lumpur, Malaysia organized by the Coalition for Epidemic Preparedness Innovations (CEPI) from 19 to 20 June 2023. ▪ Participated in screening twenty applications to the Wellcome funding call entitled 'Covid-19: understanding the biological significance of SARS-CoV-2 variants as Lead and co lead assessor for Wellcome Trust Epidemic Technical Advisory Panel during July 14-15 2022. ▪ To deliver a lecture on “Survey of Pteropus bats during Nipah outbreak in India revealed its association: Role of early diagnosis during Nipah outbreak” as an Invited Speaker in Nipah Virus International Conference, Singapore during 09-10 December 2019 ▪ To attend the regional consultation meeting as an expert for the implementation of Nipah Clinical Trial during the period of 24-26 September 2019 in Dhaka, Bangladesh ▪ To participate in Subject Matter Expert Exchange (SMEE) on clinical lab and Bio-preparedness 2019: to understand different epidemiological tools and the bio-simulation exercises during the period of 4-8 August 2019 in Dhaka, Bangladesh ▪ To attend updated GAPIII orientation program for latest developments including PIM guidance and certified with >80% score during the period of 18-22 February 2019, World Health Organization Bandung, Indonesia ▪ To deliver a lecture in 2nd International Crimean Congo hemorrhagic fever (CCHF) Conference, as an invited speaker during period of 10-12 September 2017, Thessaloniki, Greece ▪ To attend hands on Training on “MINISEQ-Next Generation Sequencing (NGS)” platforms and associated procedures for rapid genetic characterization of viruses and utilize this platform in ICMR-NIV, Pune for discovering novel pathogens during 17-04-2017 to 06-05-2017 at Viral Special Pathogens Branch (VSPB), CDC, Atlanta USA. ▪ To attend regional workshop on poliovirus laboratory containment ▪ organized by World Health Organization to implement Polio Essential Facility (PEF) in NIV, Pune as a BSL-4 In-charge during 23-24 November 2015 at Thailand, Bangkok ▪ To provide technical assistance for validation/evaluation of BSL-III laboratory at Bhutan as a WHO Consultant, during 17—21 October 2016, Royal Center for Disease control (RCDC) Laboratory, Bhutan ▪ To provide technical assistance for validation/evaluation of BSL-III laboratory at Bhutan as a WHO Consultant during 16-27 October 2015 at Public Health Laboratory, Bhutan. ▪ To provide technical assistance for validation/evaluation of BSL-III laboratory at Nepal as a WHO Consultant during 24-30 January 2015 at National Public Health Laboratory, Nepal ▪ To participate in training on Zoonosis control, a follow-up program at Global COE

	<p>Office, Hokkaido University, Japan during 15-26 October 2021</p> <ul style="list-style-type: none"> ▪ To participate in training on Zoonosis control as JICA fellowship awardee for in-depth understanding about the Zoonotic diseases and their control during the period of 15 August to 15 September 2011, Zoonosis Control, Japan International Corporation Agency, Japan ▪ To participate in training program pertaining to Biosafety Level-4 laboratory to establish similar work practices in BSL-4 facility of India during 01 June to 10 July 2011 in National Emerging Infectious Diseases Laboratory (NEID), USA ▪ To deliver a lecture in conference of Asia pacific biosafety association on Biosafety Challenges in India - Next Step forwards an invited speaker and representative of India on 30th April 2009, organized by BEP, USA ▪ To carry out research activities as IEID fellow (Post-Doctoral Fellowship) during 8 August 2005 to 15 September 2006 in Centre for Disease Control & Prevention (CDC), USA
WHO Temporary Adviser (or served in similar capacity with any other equivalent international organization)	<ul style="list-style-type: none"> ▪ WHO temporary advisor for 'Regional laboratory workshop on Biosafety in laboratories for SEARO country members for providing training of Ebola Preparedness' at ICMR-NIV, Pune, 17th-19th August 2014. ▪ WHO Consultant-Technical assistance for validation/evaluation of BSL-III at National Public Health Laboratory, Nepal. 24-30 January 2015. ▪ WHO temporary advisor for 'Regional workshop on quality management system (QMS), Biosafety and biosecurity' in WHO-SEARO country members at, Pune, 25-29 August 2015. ▪ WHO Consultant - Technical assistance for validation/evaluation of BSL-III at Public Health Laboratory, Bhutan. 16-27 October 2015. ▪ WHO Consultant - Technical assistance for validation/evaluation of BSL-III at Royal Center for Disease control (RCDC) Laboratory, Bhutan. 17-21 October 2016. ▪ Meeting for the Creation of a Regional Research Platform for Infectious Diseases of Public Health Importance in the WHO South-East Asia Region 7-8 August 2019 ▪ International Consultation on Research to Combat Nipah Virus Disease" titled Research priorities for Nipah Virus Disease in India at Imperial Hotel, Connaught Place, New Delhi, India during 16-18 August 2019. Participated in preparing R&D road map for Nipah. ▪ Member of the Regional Research Platform for Emerging Infectious Diseases of Public Health Importance in the WHO South-East Asia Region 3rd 4th December 2019, New Delhi and contributed to formulating one project. As a result of active deliberations during the meeting, concept proposals on following five tracks related to dengue viral disease were developed during the meeting. ▪ Co-chaired WHO's Guideline development group on the Use of SARS-CoV-2 antigen-detection rapid diagnostic tests for COVID-19 self-testing Interim guidance. ▪ Invited as Public Health Expert for meeting of the South-East Asia Regional GOARN (Global Outbreak Alert and Response Network) Partners, in Kathmandu, Nepal, organized by the WHO South-East Asia Regional Office, New Delhi from 15-16 March 2023. ▪ Invited as Consultant for the layout and design on new National Health Laboratory at Maldives by World Health Organization Country Office, Male', Maldives from 30 July to 5 August 2023.

Fellow of the Indian National Science Academy / Indian Academy of Sciences / National Academy of Sciences / others:

- ✓ Fellow of Society for Applied Biotechnology 2013 (Biotechnology)
- ✓ Fellow Indian Virology Society, 2019 (Medical Virology)
- ✓ Fellow National Academy of Agricultural sciences, 2022 (Animal Sciences)

TOTAL SCIENTIFIC PUBLICATIONS

DR. PRAGYA D. YADAV [2003-2023]

Total Scientific publication=299	
Articles→	221
Review →	21
Editorial →	01
Book/Booklet/Manual →	03
Book chapter →	07
Preprints →	44
Policy document/Guideline →	02
Total Citations →	8585
Impact factor	2869
H-Index →	46
I-Index →	146

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- Researcher ID: AAR-2431-2021
- Google Scholar Profile Link: <https://scholar.google.com/citations?user=F2KFdPUAAAAJ&hl=en>

*First Author/Corresponding Author

Sr. No.	Papers published during 2003-2022	Impact factor	Citations
1.	Barde P.V., Rane S.R., Singh D.K., Yadav PD , Dighe V, Gokhale M.D. and Mourya D.T. Concomitant effect of Bacillus thuringiensis H-14 toxin and atropine sulphate on the gut epithelial cells of female <i>Aedes aegypti</i> mosquitoes. Entomon. 2003 28(2):161-163.	-	0
2.	Mourya DT, Singh DK, Yadav PD , Gokhale MD, Barde PV, Narayan NB, Thakare JP, Mishra AC, Shouche YS. Role of gregarine parasite <i>Ascogregarina culicis</i> (Apicomplexa: <i>Lecudinidae</i>) in the maintenance of Chikungunya virus in vector mosquito. J Eukaryot Microbiol. 2003 Sep-Oct; 50(5):379-82. DOI: 10.1111/j.1550-7408.2003.tb00153.x. PMID: 14563178.	3.880	21
3.	Mourya DT, Rohan khedkar MS, Yadav PD , Dighe V, Deobagkar DN. Enhanced esterase activity in salivary gland and midgut of <i>Aedes aegypti</i> mosquito infected with dengue-2 virus. Indian J Exp Biol. 2003 Jan; 41(1):91-3. PMID: 15267144.	0.944	3
4.	*Yadav PD , Gokhale MD, Barde PV, Singh DK, Mishra AC, Mourya DT. Experimental transmission of Chikungunya virus by <i>Anopheles stephensi</i> mosquitoes. Acta Virol. 2003; 47(1):45-7. PMID: 12828344.	1.827	32

5.	*Yadav PD , Shouche YS, Munot HP, Mishra AC, Mourya DT. Genotyping of Chikungunya virus isolates from India during 1963-2000 by reverse transcription-polymerase chain reaction. <i>Acta Virol.</i> 2003; 47(2):125-7. PMID: 14524480.	1.827	36
6.	Mourya DT, Yadav PD , Mishra AC. Effect of temperature stress on immature stages and susceptibility of <i>Aedes aegypti</i> mosquitoes to chikungunya virus. <i>Am J Trop Med Hyg.</i> 2004 Apr; 70(4):346-50. DOI: 10.4269/ajtmh.2004.70.346.PMID: 15100445.	2.345	120
7.	*Yadav P , Barde PV, Jadi R, Gokhale MD, Basu A, Joshi MV, Mehla R, Kumar SR, Athavale SS, Mourya DT. Isolation of bovine viral diarrhea virus 1, a pestivirus from autopsied lamb specimen from Tamil Nadu, India. <i>Acta Virol.</i> 2004; 48(4):223-7. PMID: 15745045.	1.827	11
8.	*Yadav PD , Barde PV, Gokhale MD, Vipat V, Mishra AC, Pal JK, Mourya DT. Effect of temperature and insecticide stresses on <i>Aedes aegypti</i> larvae and their influence on the susceptibility of mosquitoes to dengue-2 virus. <i>Southeast Asian J Trop Med Public Health.</i> 2005 Sep; 36(5):1139-44. PMID: 16438138.	0.209	34
9.	Mourya DT, Yadav PD and Mishra AC. The current status of Chikungunya virus in India: A review. Golden jubilee publication of NIV compendium. 2004, 265-267 (<i>Book chapter</i>)	-	0
10.	*Yadav PD , Vincent MJ, Nichol ST. Thottapalayam virus is genetically distant to the rodent-borne hantaviruses, consistent with its isolation from the Asian house shrew (<i>Suncus murinus</i>). <i>Virol J.</i> 2007 Aug 21; 4:80. DOI:10.1186/1743-422X-4-80. PMID: 17711577; PMCID: PMC1997112.	5.913	54
11.	Mourya DT, Yadav PD . Insect immune responses and vector competence of mosquitoes. <i>Integrated Pest Management and Biocontrol</i> , Pointer Publishers, Jaipur 2006, 275-286. (<i>Book chapter</i>)	-	0
12.	Mourya DT, Yadav PD . Vector biology of dengue & chikungunya viruses. <i>Indian J Med Res.</i> 2006 Nov; 124(5):475-80. PMID: 17213513. (<i>Review</i>)	5.274	40
13.	*Yadav PD , Mishra AC, Mourya DT. Molecular characterization of Umbre virus (Bunyaviridae). <i>Virol J.</i> 2008 Oct 8; 5:115. DOI:10.1186/1743-422X-5-115. PMID:18842123; PMCID: PMC2586634.	5.913	13
14.	Mehla R, Kumar SR, Yadav PD , Barde PV, Yergolkar PN, Erickson BR, Carroll SA, Mishra AC, Nichol ST, Mourya DT. Recent ancestry of Kyasanur Forest disease virus. <i>Emerg Infect Dis.</i> 2009 Sep; 15(9):1431-7. PMID: 19788811; PMCID: PMC2819879.	16.126	98
15.	Sivaram A, Barde PV, Kumar SR, Yadav PD , Gokhale MD, Basu A, Mourya DT. Isolation and characterization of densovirus from <i>Aedes aegypti</i> mosquitoes and its distribution in India. <i>Intervirology.</i> 2009; 52(1):1-7. DOI: 10.1159/000210044. Epub 2009 Mar 31. PMID: 19332994.	2.294	16
16.	Kumar SR, Patil JA, Cecilia D, Cherian SS, Barde PV, Walimbe AM, Yadav PD , et al. Evolution, dispersal and replacement of American genotype dengue type 2 viruses in India (1956-2005): selection pressure and molecular clock analyses. <i>J Gen Virol.</i> 2010 Mar; 91(Pt 3):707-20. DOI: 10.1099/vir.0.017954-0. Epub 2009 Nov 18. PMID: 19923266.	5.141	68
17.	Gurav YK, Raut CG, Yadav PD , Tandale BV, Sivaram A, Pore MD, Basu A, Mourya DT, Mishra AC. Buffalopox outbreak in humans and animals in Western Maharashtra, India. <i>Prev Vet Med.</i> 2011 Jul 1; 100(3-4):242-7. DOI: 10.1016/j.prevetmed.2011.03.008. Epub 2011 Apr 20. PMID: 21511350.	3.372	61
18.	*Yadav PD , Vincent MJ, Khristova M, Kale C, Nichol ST, Mishra AC, Mourya DT. Genomic analysis reveals Nairobi sheep disease virus to be highly diverse and present in both Africa, and in India in the form of the Ganjam virus variant. <i>Infect Genet Evol.</i> 2011 Jul; 11(5):1111-20.	4.393	33
19.	Raut CG, Yadav PD , Towner JS, Amman BR, Erickson BR, Cannon DL, Sivaram A, Basu A, Nichol ST, Mishra AC, Mourya DT. Isolation of a novel adenovirus from <i>Rousettus leschenaultii</i> bats from India. <i>Intervirology.</i> 2012; 55(6):488-90. DOI: 10.1159/000337026. Epub 2012 May 3. PMID: 22572722.	2.294	24
20.	*Yadav PD , Raut CG, Shete AM, Mishra AC, Towner JS, Nichol ST, Mourya DT.	2.345	104

	Detection of Nipah virus RNA in fruit bat (<i>Pteropus giganteus</i>) from India. Am J Trop Med Hyg. 2012 Sep; 87(3):576-8. DOI: 10.4269/ajtmh.2012.11-0416. Epub 2012 Jul 16. PMID: 22802440; PMCID: PMC3435367.		
21.	Mourya DT, Yadav PD , Mehla R, Barde PV, Yergolkar PN, Kumar SR, Thakare JP, Mishra AC. Diagnosis of Kyasanur forest disease by nested RT-PCR, real-time RT-PCR and IgM capture ELISA. J Virol Methods. 2012 Dec; 186(1-2):49-54. DOI: 10.1016/j.jviromet.2012.07.019. Epub 2012 Jul 31. PMID: 22874757.	2.623	72
22.	Mourya DT, Yadav PD , Shete AM, Gurav YK, Raut CG, Jadi RS, Pawar SD, Nichol ST, Mishra AC. Detection, isolation and confirmation of Crimean-Congo hemorrhagic fever virus in human, ticks and animals in Ahmadabad, India, 2010-2011. PLoS Negl Trop Dis. 2012; 6(5):e1653. DOI: 10.1371/journal.pntd.0001653. Epub 2012 May 15. PMID: 22616022; PMCID: PMC3352827.	4.781	125
23.	Mourya DT, Yadav PD and Raut CG. High Containment Laboratory and Virus Repository group. National Institute of Virology, Golden to Diamond Jubilee: The glorious decade. Edited by V Arankalle and D Cecilia. 2012: pp. 319-358. (Book chapter)	-	0
24.	*Yadav PD , Raut CG, Patil DY. <i>et al.</i> Crimean-Congo Hemorrhagic Fever: Current Scenario in India. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. 84 , 9–18 (2014). DOI: https://doi.org/10.1007/s40011-013-0197-3 . (Review)	0.96	32
25.	*Yadav PD , Sudeep AB, Mishra AC, Mourya DT. Molecular characterization of Chittoor (Batai) virus isolates from India. Indian J Med Res. 2012 Nov; 136(5):792-8. PMID: 23287126; PMCID: PMC3573600.	5.274	21
26.	*Yadav PD , Raut CG, Mourya DT. Re-occurrence of Crimean-Congo haemorrhagic fever in Ahmedabad, Gujarat, India (2012): a fatal case report. Indian J Med Res. 2013 Dec; 138(6):1027-8. PMID: 24521654; PMCID: PMC3978959.	5.274	20
27.	Mourya DT, Yadav PD , Sandhya VK, Reddy S. Spread of Kyasanur Forest disease, Bandipur Tiger Reserve, India, 2012-2013. Emerg Infect Dis. 2013; 19(9):1540-1.	16.126	62
28.	Mourya DT, Lakra RJ, Yadav PD , Tyagi P, Raut CG, Shete AM, Singh DK. Establishment of cell line from embryonic tissue of <i>Pipistrellus ceylonicus</i> bat species from India & its susceptibility to different viruses. Indian J Med Res. 2013; 138(2):224-31. PMID: 24056599; PMCID: PMC3788208.	5.274	21
29.	*Yadav PD , Cherian SS, Zawar D, Kokate P, Gunjekar R, Jadhav S, Mishra AC, Mourya DT. Genetic characterization and molecular clock analyses of the Crimean-Congo hemorrhagic fever virus from human and ticks in India, 2010-2011. Infect Genet Evol. 2013 Mar; 14:223-31. DOI: 10.1016/j.meegid.2012.10.005. Epub 2012 Nov 27. PMID: 23195573.	4.393	53
30.	Kasabi GS, Murhekar MV, Yadav PD , Raghunandan R, Kiran SK, Sandhya VK, Channabasappa GH, Mishra AC, Mourya DT, Mehendale SM. Kyasanur Forest disease, India, 2011-2012. Emerg Infect Dis. 2013 Feb; 19(2):278-81. DOI: 10.3201/eid1902.120544. PMID: 23343570; PMCID: PMC3559039.	16.126	61
31.	*Yadav PD , Gurav YK, Mistry M, Shete AM, Sarkale P, Deoshatwar AR, Unadkat VB, Kokate P, Patil DY, Raval DK, Mourya DT. Emergence of Crimean-Congo hemorrhagic fever in Amreli District of Gujarat State, India, June to July 2013. Int J Infect Dis. 2014 Jan; 18:97-100. DOI: 10.1016/j.ijid.2013.09.019. Epub 2013 Nov 7. PMID: 24211848.	12.074	34
32.	Mourya DT, Yadav PD , and Patil DY. Highly infectious tick-borne viral diseases: Kyasanur forest disease and Crimean-Congo haemorrhagic fever in India. WHO Southeast Asia J Public Health. 2014 Jan-Mar; 3(1):8-21. DOI: 10.4103/2224-3151.206890. PMID: 28607249. (Review)	2.36	52
33.	Mourya DT, Yadav PD , Basu A, Shete A, Patil DY, Zawar D, Majumdar TD, Kokate P, Sarkale P, Raut CG, Jadhav SM. Malsoor virus, a novel bat phlebovirus, is closely related to severe fever with thrombocytopenia syndrome virus and heartland virus. J Virol. 2014 Mar; 88(6):3605-9. DOI: 10.1128/JVI.02617-13. Epub 2014 Jan 3. PMID: 24390329; PMCID: PMC3957954.	4.501	90
34.	Mourya DT, Yadav PD , Majumdar TD, Chauhan DS, Katoch VM. Establishment of	5.274	37

	Biosafety Level-3 (BSL-3) laboratory: important criteria to consider while designing, constructing, commissioning & operating the facility in Indian setting. Indian J Med Res. 2014 Aug; 140(2):171-183. PMID: 25297350; PMCID: PMC4216491. (<i>Review</i>)		
35.	Mourya DT, Yadav PD , Shete A, Majumdar TD, Kanani A, Kapadia D, Chandra V, Kachhiapatel AJ, Joshi PT, Upadhyay KJ, Dave P, Raval D. Serosurvey of Crimean-Congo hemorrhagic fever virus in domestic animals, Gujarat, India, 2013. Vector Borne Zoonotic Dis. 2014 Sep; 14(9):690-2. DOI: 10.1089/vbz.2014.1586. PMID: 25229708.	2.523	20
36.	*Yadav PD , Shete AM, Patil DY, Sandhya VK, Prakash KS, Surgihalli R, Mourya DT. Outbreak of Kyasanur Forest disease in Thirthahalli, Karnataka, India, 2014. Int J Infect Dis. 2014 Sep; 26:132-4. DOI: 10.1016/j.ijid.2014.05.013. Epub 2014 Jul 22. PMID: 25063021.	12.074	44
37.	Sudeep A.B., Hundekar S.L., Yadav PD and Mourya, D.T. Detection of chikungunya virus IgM antibodies in human serum samples using virus infected <i>Aedes aegypti</i> mosquito head squashes. Int J Scientific Res. 2014 Nov; 3(11):372-73. DOI: 10.36106/ijsr.	7.662	0
38.	Mourya DT, Yadav PD , Mullick J, Patil DR. Biosafety Manual for laboratory Institutional Document 2014. (<i>Book chapter</i>)	-	0
39.	Mourya DT, Yadav PD , Shete AM, Sathe PS, Sarkale PC, Pattnaik B, Sharma G, Upadhyay KJ, Gosavi S, Patil DY, Chaubal GY, Majumdar TD, Katoh VM. Cross-sectional Serosurvey of Crimean-Congo Hemorrhagic Fever Virus IgG in Livestock, India, 2013-2014. Emerg Infect Dis. 2015 Oct; 21(10):1837-9. DOI: 10.3201/eid2110.141961. PMID: 26402332; PMCID: PMC4593432.	16.126	36
40.	Basu A, Yadav PD , Prasad S, Tadmalkar N, Mourya DT (2015) Ultrastructure and Morphogenesis of Malsoor Virus: A Novel Phlebovirus Genetically Related to the Severe Fever with Thrombocytopenia Virus. J Hum Virol Retrovirol 2(1): 00026. DOI: 10.15406/jhvr.2015.02.00026	-	6
41.	Makwana D, Yadav PD , Kelaiya A, Mourya DT. First confirmed case of Crimean-Congo haemorrhagic fever from Sirohi district in Rajasthan State, India. Indian J Med Res. 2015 Oct; 142(4):489-91. DOI: 10.4103/0971-5916.169221. PMID: 26609042; PMCID: PMC4683835.	5.274	15
42.	Badole SL, Yadav PD , Patil DR, Mourya DT. Animal models for some important RNA viruses of public health concern in SEARO countries: viral hemorrhagic fever. J Vector Borne Dis. 2015 Mar; 52(1):1-10. PMID: 25815861. (<i>Review</i>)	0.735	6
43.	Murhekar MV, Kasabi GS, Mehendale SM, Mourya DT, Yadav PD , Tandale BV. On the transmission pattern of Kyasanur Forest disease (KFD) in India. Infect Dis Poverty. 2015 Aug 19; 4:37. DOI: 10.1186/s40249-015-0066-9. PMID: 26286631; PMCID: PMC4545326.	10.485	62
44.	Tandale BV, Balakrishnan A, Yadav PD , Marja N, Mourya DT. New focus of Kyasanur Forest disease virus activity in a tribal area in Kerala, India, 2014. Infect Dis Poverty. 2015 Mar 5; 4:12. DOI: 10.1186/s40249-015-0044-2. PMID: 25750730; PMCID: PMC4351674.	10.485	36
45.	*Mourya, D.T., Yadav PD . Recent Scenario of Emergence of Kyasanur Forest Disease in India and Public Health Importance. Curr Trop Med Rep 2016; 3, 7–13. DOI: https://doi.org/10.1007/s40475-016-0067-1 . (<i>Review</i>)	NA	43
46.	Srinivas V, Yadav PD , Mittal V, Chaubal G, Chhabra M, Mattoo S, Rai A, *Mourya DT . Follow-up of Ebola Patient, 2014-2015. Emerg Infect Dis. 2016 Apr; 22(4):748-50. DOI: 10.3201/eid2204.151405. PMID: 26981772; PMCID: PMC4806952.	16.126	2
47.	*Mourya DT , Shil P, Sapkal GN, Yadav PD . Zika virus: Indian perspectives. Indian J Med Res. 2016 May; 143(5):553-64. DOI: 10.4103/0971-5916.187103. PMID: 27487998; PMCID: PMC4989828. (<i>Review</i>)	5.274	44
48.	Awate P, Yadav PD , Patil D, Shete A, Kumar V, Kore P, Dolare J, Deshpande M, Bagde S, Sapkal G, Gurav Y, *Mourya DT . Outbreak of Kyasanur Forest disease (monkey fever) in Sindhudurg, Maharashtra State, India, 2016. J Infect. 2016 Jun; 72(6):759-761. DOI: 10.1016/j.jinf.2016.03.006. Epub 2016 Mar 18. PMID: 26997635.	38.637	41

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260.	Ganneru B, Jogdand H, Dharam VK, Molugu NR, Prasad SD, Vellimudu S, Ella KM, Ravikrishnan R, Awasthi A, Jose J, Rao P, Kumar D, Raches Ella, Abraham p, Yadav PD , Sapkal GN, Shete A, Deshpande GR, Mohandas S, Basu A, Gupta N, Vadrevu KM. Evaluation of Safety and Immunogenicity of an Adjuvanted, TH-1 Skewed, Whole Virion Inactivated SARS-CoV-2 Vaccine - BBV152. bioRxiv 2020.09.09.285445. DOI: https://doi.org/10.1101/2020.09.09.285445 (Preprint)	NA	0
261.	Ella R, Reddy S, Jogdand H, Sarangi V, Ganneru B, Prasad S, Das D, Dugyala R, Usha Praturi, Gajanan Sapkal, Yadav PD , et al. Safety and immunogenicity clinical trial of an inactivated SARS-CoV-2 vaccine, BBV152 (a phase 2, double-blind, randomised controlled trial) and the persistence of immune responses from a phase 1 follow-up report. medRxiv 2020.12.21.20248643;doi: https://doi.org/10.1101/2020.12.21.20248643 (Preprint)	NA	47
262.	Sapkal GN, *Yadav PD , Ella R, Deshpande G, Sahay R, Gupta N, Mohan VK, Abraham P, Panda S, Bhargava B. Neutralization of UK-variant VUI-202012/01 with	NA	48

	COVAXIN vaccinated human serum. bioRxiv. 2021 Jan 1. DOI: https://doi.org/10.1101/2021.01.26.426986 (<i>Preprint</i>)		
263.	*Yadav PD , Kumar S, Agarwal K, Jain M, Patil D, Maithal K, Mathapati B, Giri S, Mohandas S, Shete A, Sapkal G. Assessment of immunogenicity and protective efficacy of ZyCoV-D DNA vaccine candidates in Rhesus macaques against SARS-CoV-2 infection. bioRxiv. 2021 Jan 1. DOI: https://doi.org/10.1101/2021.02.02.429480 (<i>Preprint</i>)	NA	10
264.	Mohandas S, *Yadav PD , Nyayanit D, Aich A, Sarkale P, Hundekar S, Kumar S, Lole K. Comparison of SARS-CoV-2 VOC 202012/01 (UK variant) and D614G variant transmission by different routes in Syrian hamsters. bioRxiv preprint. doi: https://doi.org/10.1101/2021.03.26.437153 (<i>Preprint</i>)	NA	8
265.	Nyayanit D, Sarkale P, Aich A, Kumar A, Patil S, Majumdar T, Baradkar S, Gawande P, Mohandas S, *Yadav PD . Possible role of accessory proteins in the viral replication for the 20I/501Y.V1 (B.1.1.7) SARS-CoV-2 variant. bioRxiv 2021.04.30.442222; doi: https://doi.org/10.1101/2021.04.30.442222 (<i>Preprint</i>)	NA	0
266.	*Yadav PD , Sarkale P, Razdan A, Gupta N, Nyayanit D, Sahay R, Potdar V, Patil D, Baradkar S, Kumar A, Aggarwal N, Shete A, Kaur H. Isolation and characterization of SARS-CoV-2 VOC, 20H/501Y.V2, from UAE travelers. bioRxiv preprint doi: https://doi.org/10.1101/2021.05.14.443968 . (<i>Preprint</i>)	NA	1
267.	Raches Ella, Siddarth Reddy, William Blackwelder, Varsha Potdar, Yadav PD , et al. Efficacy, safety, and lot to lot immunogenicity of an inactivated SARS-CoV-2 vaccine (BBV152): a, double-blind, randomised, controlled phase 3 trial. medRxiv 2021.06.30.21259439; doi: https://doi.org/10.1101/2021.06.30.21259439 (<i>Preprint</i>)	NA	60
268.	*Yadav PD , Sapkal G, Abraham P, Ella R, Deshpande G, Patil D, Nyayanit D, Gupta N, Sahay R, Shete A, Panda S, Bhargava, Mohan K. Neutralization of variant under investigation B.1.617 with sera of BBV152 vaccinees. bioRxiv preprint. doi: https://doi.org/10.1101/2021.04.23.441101 . (<i>Preprint</i>)	NA	216
269.	*Yadav PD , Sapkal G, Abraham P, Deshpande G, Nyayanit D, Patil D, Gupta N, Sahay R, Shete A, Kumar S, Panda S, Bhargava B. Neutralization potential of Covishield vaccinated individuals against B.1.617. 1. bioRxiv preprint. doi: https://doi.org/10.1101/2021.05.12.443645 (<i>Preprint</i>).	NA	42
270.	*Yadav PD , Mohandas S, Aich A, Nayanit D, Gupta N, Patil D, Sapkal G, Potdar V, Kadam M, Kumar A, Suryavanshi D, Mote C, Abraham P, Panda S, Bhargava B. SARS CoV-2 variant B.1.617.1 is highly pathogenic in hamsters then B.1 variant. bioRxiv preprint 2021.05.05.442760; doi: https://doi.org/10.1101/2021.05.442760 . (<i>Preprint</i>).	NA	44
271.	*Yadav PD , Sapkal GN et al. Neutralization against B.1.351 and B.1.617.2 with sera of COVID-19 recovered cases and vaccinees of BBV152. bioRxiv; 2021. DOI: 10.1101/2021.06.05.447177 (<i>Preprint</i>)	NA	32
272.	Sapkal G, *Yadav PD , Ella R, Abraham P, Patil D, Gupta N, Panda S, Mohan V, Bhargava B. Neutralization of B.1.1.28 P2 variant with sera of natural SARS-CoV-2 infection and recipients of BBV152 vaccine. bioRxiv preprint doi: https://doi.org/10.1101/2021.04.30.441559 . (<i>Preprint</i>)	NA	7
273.	*Yadav PD , Mohandas S, Sarkale P, Nyayanit DA et al. Isolation of SARS-CoV-2 B.1.1.28.2 P2 variant and pathogenicity comparison with D614G variant in hamster model. bioRxiv 2021.05.24.445424. doi: https://doi.org/10.1101/2021.05.24.445424 (<i>Preprint</i>).	NA	0
274.	Cherian S, Potdar V, Jadhav S, *Yadav PD , Gupta N, Das M, Rakshit P, Singh S, Abraham P, Panda S. Convergent evolution of SARS-CoV-2 spike mutations, L452R, E484Q and P681R, in the second wave of COVID-19 in Maharashtra, India. bioRxiv. 2021 Jan 1. (<i>Preprint</i>).	NA	0
275.	Sapkal GN, *Yadav PD , Sahay RR, Deshpande GR, Gupta N, et al. Neutralization of Delta variant with sera of Covishield vaccinees and COVID-19 recovered vaccinated individuals. bioRxiv 2021.07.01.450676; doi: https://doi.org/10.1101/2021.07.01.450676 (<i>Preprint</i>).	NA	2

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277.	*Yadav PD , GN Sapkal, Priya Abraham, Gururaj Deshpande, Dimpal A Nyayanit, et al. Neutralization potential of Covishield vaccinated individuals sera against 1.617.1. bioRxiv 2021.05.12.443645; doi: https://doi.org/10.1101/2021.05.12.443645 (<i>Preprint</i>)	NA	2
278.	Shrivastav RK, Dwivedi G, Zaman K, Rima R Sahay, Sapkal, Himanshu Kaushal, Dimpal Nyayanit, *Yadav PD , et al. Serendipitous COVID-19 Vaccine-Mix in Uttar Pradesh, India: Safety and Immunogenicity Assessment of a Heterologous Regime. medRxiv 2021.08.06.21261716; doi: https://doi.org/10.1101/2021.08.06.21261716 (<i>Preprint</i>)	NA	10
279.	Mohandas S, *Yadav PD , Shete A, Nyayanit D, Sapkal G, Lole K, Gupta N. SARS-CoV-2 Delta variant pathogenesis and host response in Syrian hamsters. bioRxiv 2021.07.24.453631; doi: https://doi.org/10.1101/2021.07.24.453631 (<i>Preprint</i>)	NA	1
280.	Gupta N, Kaur H, *Yadav PD , Mukhopadhyay L, Rima R Sahay RR et al. Clinical characterization and Genomic analysis of COVID-19 breakthrough infections during second wave in different states of India. medRxiv 2021.07.13.21260273; doi: https://doi.org/10.1101/2021.07.13.21260273 (<i>Preprint</i>)	NA	18
281.	*Yadav PD , Mendiratta SK, Mohandas S, Singh AK, Abraham P, et al. ZRC3308 monoclonal antibody cocktail shows protective efficacy in Syrian hamsters against SARS-CoV-2 infection. bioRxiv 2021.09.16.460724; doi: https://doi.org/10.1101/2021.09.16.460724 (<i>Preprint</i>)	NA	2
282.	Sapkal GN, *Yadav PD , Deshpande GR et al. Development of equine antisera with high neutralizing activity against SARS-CoV-2. 2020. PREPRINT (Version 1) available at Research Square DOI: https://doi.org/10.21203/rs.3.rs-83582/v1 (<i>Preprint</i>)	NA	4
283.	Bhatnagar T, Chaudhri S, Ponnai M, Yadav PD , et al. Effectiveness of BBV152/Covaxin and AZD1222/Covishield Vaccines Against Severe COVID-19 and B.1.617.2/Delta Variant in India, 2021: A Multi-Centric Hospital-Based Case-Control Study. Available at SSRN: https://ssrn.com/abstract=3955739 . https://dx.doi.org/10.2139/ssrn.3955739 (<i>Preprint</i>)	NA	17
284.	Yadav PD* , Sahay RR, Anukumar B, Mohandas S, Radhakrishnan C, Gokhale M, et al. Nipah virus outbreak in Kerala state, India amidst of COVID-19 pandemic. medRxiv 2021.12.09.21267278; doi: https://doi.org/10.1101/2021.12.09.21267278 (<i>Preprint</i>)	NA	0
285.	Vadrevu KM, Ganneru B, Reddy S, Jogdand H, Dugyala R, Praturi U, Sapkal GN, Yadav PD , et al. Persistence of immunity and impact of a third (booster) dose of an inactivated SARS-CoV-2 vaccine, BBV152; a phase 2, double-blind, randomised controlled trial. medRxiv 2022.01.05.22268777; doi: https://doi.org/10.1101/2022.01.05.22268777 (<i>Preprint</i>)	NA	7
286.	Potdar V, Yadav PD* , Lole K, Cherian S, Shastri J, Malhotra B, et al. Detection of the omicron variant in international travelers and their family contacts in India. medRxiv 2021.12.27.21268429; doi: https://doi.org/10.1101/2021.12.27.21268429 (<i>Preprint</i>)	NA	2
287.	Yadav PD* , Gupta N, Potdar V, Mohandas S, Sahay RR, et al.. An in vitro and in vivo approach for the isolation of Omicron variant from human clinical specimens. bioRxiv 2022.01.02.474750; doi: https://doi.org/10.1101/2022.01.02.474750 (<i>Preprint</i>)	NA	5
288.	Yadav PD* , Kumar G, Mukherjee A, Nyayanit D, Shete A, Sahay RR, et al. Delta Variant SARS-CoV-2 infections in pediatric cases during the second wave in India. medRxiv 2021.12.09.21266954; doi: https://doi.org/10.1101/2021.12.09.21266954 (<i>Preprint</i>)	NA	0
289.	Mohandas S, Yadav PD , Shete AM, Nyayanit DA, Jain R, Sapkal G. Protective immunity of the primary SARS-CoV-2 infection reduces disease severity post re-	NA	1

	infection with Delta variants in Syrian hamsters. bioRxiv 2021.11.28.470293; doi: https://doi.org/10.1101/2021.11.28.470293 (<i>Preprint</i>)		
290.	Mohandas S, <u>Yadav PD</u> *, Sapkal GN, Shete AM, Deshpande GR, et al. Pathogenicity of SARS-CoV-2 Omicron in Syrian hamsters and its neutralization with different Variants of Concern. bioRxiv 2022.01.19.477013; doi: https://doi.org/10.1101/2022.01.19.477013 (<i>Preprint</i>)	NA	1
291.	Sahay RR, Patil DY, Sapkal GN, Deshpande GN, Shete AM, Nyayanit DN, Kumar S, Dutta S, <u>Yadav PD</u> *. SARS-CoV-2 Delta derivatives impact on neutralization of Covishield recipient sera. bioRxiv 2021; doi: https://doi.org/10.1101/2021.11.30.470521 (<i>Preprint</i>)	NA	2
292.	<u>Yadav PD</u> *, Sapkal G, Sahay RR, Potdar V, Deshpande G, Patil DY, et al. Substantial immune response in Omicron infected breakthrough and unvaccinated individuals against SARS-CoV-2 variants of concerns. bioRxiv 2022.01.24.477043; doi: https://doi.org/10.1101/2022.01.24.477043 (<i>Preprint</i>)	NA	0
293.	Sharma RP, Gautam S, Sharma P, Singh R, Sharma H, Parsoya D, Deba F, Bhomia N, Pal N, Potdar V, <u>Yadav PD</u> et al. Clinico epidemiological profile of Omicron variant of SARS-CoV2 in Rajasthan. medRxiv 2022.02.11.22270698; doi: https://doi.org/10.1101/2022.02.11.22270698 (<i>Preprint</i>)	NA	7
294.	Shete AM, Patil DY, Sahay RR, Sapkal GN, Deshpande GR, Yadav PD. Low immune response after 1.5 years of primary SARS-CoV-2 infection and Covishield vaccination lead to SARS-CoV-2 reinfection. bioRxiv 2022.05.12.491584; doi: https://doi.org/10.1101/2022.05.12.491584 (<i>Preprint</i>)	NA	0
295.	<u>Yadav PD</u> , Mohandas S, Shete A, Sapkal G, Deshpande G, Kumar A, Wakchaure K, Dighe H, Jain R, Ganneru B, Yemul J. Protective efficacy of COVAXIN® against Delta and Omicron variants in hamster model. bioRxiv. 2022 June 14. (<i>Preprint</i>)	NA	2
296.	<u>*Yadav PD</u> , Reghukumar A, Sahay RR, Sudeep K, Shete AM, Raman A, Pramod VK, Abraham P, Benson R, Sarin SM, Mohandas S. First two cases of Monkeypox virus infection in a traveller returned from UAE to India, July 2022. Research Square. 2022. https://doi.org/10.21203/rs.3.rs-1927719/v1	NA	10
297.	Anand T, Mukherjee A, Satija A, Velamuri PS, Singh KJ, Das M, Josten K, <u>Yadav PD</u> , Sahay RR, Keche AY, Nagarkar NM. A case control investigation of COVID-19 associated Mucormycosis in India. Research Square. 2022. https://doi.org/10.21203/rs.3.rs-1850369/v1	NA	0
298.	Relhan V, Sahay RR, Shete A, <u>Yadav PD</u> et al. Clinical presentation, viral kinetics and management of human monkeypox cases from New Delhi, India 2022. 28 August 2022, PREPRINT (Version 3) available at Research Square [https://doi.org/10.21203/rs.3.rs-1986039/v3]	NA	2
299.	<u>Yadav PD</u> , Vasu M, Abubaker F, Sahay RR, Reghukumar A, Krishnan AB, Prabha K, Papu AK, Gopalakrishnan LG, Mundangalam N, Siddiq A. A fatal case of monkeypox virus infection from Kerala India 2022. Research square. 2022	NA	1
■ Cumulative impact factor and citations		2869	8585

Editorial /Reviewer role

1. **Associate Editor for Frontiers in Virology**
2. **Guest Associate Editor for Frontiers in Medicine: Infectious Diseases – Surveillance, Prevention and Treatment.**
3. **Guest Associate Editor for Frontiers in Public Health: Infectious Diseases – Surveillance, Prevention and Treatment.**
4. **Special issue topic edited: Emerging SARS-COV-2 Variants: Genomic Variations, Transmission, Pathogenesis, Clinical Impact, and Interventions: Linked journals as below.**
 - a. Frontiers in Medicine
 - b. Frontiers in Public Health
 - c. Frontiers in Microbiology
5. **Review Editor for Microbiology Spectrum, American Society for Microbiology**

Reviewer / Referee for peer reviewed Journals

1. The Lancet Infectious Diseases
2. The Lancet Respiratory Medicine
3. The Lancet Regional Health – Europe
4. EBioMedicine
5. EClinicalMedicine
6. Frontiers in Medicine
7. Frontiers in Immunology
8. Frontiers in Microbiology
9. Frontiers in Cellular and Infection Microbiology
10. Scientific reports (Nature Portfolio)
11. Expert Review of Vaccines
12. Vaccines
13. Emerging Microbes and Infections
14. International Journal of Infectious Diseases
15. The American Journal of Tropical Medicine
16. BMC Infectious Diseases
17. Plos One
18. Viruses
19. Molecular Immunology
20. Journal of Infection and Public Health
21. Genomics
22. Expert Opinion on Drug Discovery
23. Vector-Borne and Zoonotic Diseases
24. Indian Journal of Medical Research
25. Epidemiology and Infection
26. Ethics, Medicine, and Public Health
27. STAR Protocols
28. Preventive Veterinary Medicine
29. Journal of Inflammation Research
30. Journal of Royal Society Interface
31. Biomedical Journal
32. Informatics in Medicine Unlocked
33. Future Virology
34. Computational Biology and Chemistry
35. Wellcome Open Research (F100)
36. Infection and Drug Resistance

Invited/attended lectures/meetings in India / abroad and/ or chaired any scientific International Conference Symposium

Title	Name of the Conference/meeting	Dates	Venue	Organizer
Invited speaker for the topic "COVID-19: A turning point in vaccination efforts"	Raman Science Centre and Planetarium, Nagpur	25 August 2023	Raman Science Centre and Planetarium, Nagpur	Raman Science Centre and Planetarium, Nagpur
Invited speaker for the 2nd Edition of the India Vaccine Leaders Conclave	2nd Edition of the India Vaccine Leaders Conclave	August 22-23, 2023	Courtyard By Marriott, Mumbai	Bluetech Media, Mumbai
Bio-manufacturing of Precision Bio-therapeutics-Monoclonal Antibodies, Priority areas/Discovery/ mAb Selection (Gaps/ Challenges/ Solutions)	Sectoral Expert Committee Meeting	August 11, 2023	IIT Indore	Department of Biotechnology
International Pandemic Sciences Conference 2023	Nipah an emerging threats of pandemic potentials and lesson learned by India	July 10-11, 2023.	Pandemic Science Institute, University of Oxford	Pandemic Science Institute, University of Oxford
"1st Brainstorming Meeting on "Exascale Computing in Life Sciences: Vision and Strategy for India"	Vision of the grand challenge problems in biology which demand the usage of Exascale Computing	July 20, 2023.	C-DAC, Pune	C-DAC, Pune
CBRN Workshop for Medical Officers of MOJCC at OTC, AMC Centre & College, Lucknow	Latest Developments in the Field of Biological Warfare" in the workshop.	July 11-12, 2023	Virtual	HQ IDS (Med)
Mpox emergence and the response of India	World Zoonoses Day 2023" on 7th July 2023.	July 7, 2023	Virtual	Manipal Institute of Virology (MIV), Karnataka, to commemorate
XIV Annual Conference of ISMOCD	Zika Viral Disease- Role of ICMR in capacity building, detection	May 19-21, 2023	Virtual	Thiruvananthapuram Kerala
Nipah portfolio and technical program	Role of stakeholders in preparing and preventing re-emergence of Nipah infection Outbreak. She was invited to talk on "Finding the hotspot of the Nipah virus in India, the bat survey, and outbreak	June 19-20, 2023	Virtual	Kuala Lumpur, Malaysia
TIGS webinar on Surveillance of Vector-Borne Diseases: Exploring Newer Horizons and presented the topic	A high-risk tick-borne disease Crimean Congo Hemorrhagic fever and need for surveillance in India	June 28, 2023	Virtual	Tata Institute for Genetics and Society, Bengaluru.

Attended meeting on Bioregional Expert Consultation on the Draft Asia Pacific Health Security Action Framework	Bioregional Expert Consultation on the Draft Asia Pacific Health Security Action Framework	Apr 26-28, 2023	Virtually attended from ICMR-NIV, Pune	Manila, Philippines
Attended meeting on the Interaction on behavioral levers for COVID-19 Self-test kits	Interaction on behavioral levers for COVID-19 Self-test kits	Apr 24, 2023	Virtually attended from ICMR-NIV, Pune	WHO, Geneva
Invited as an expert member for MBSL-3 validation and monitoring committee at ICMR-RMRC Gorakhpur	MBSL-3 validation and monitoring committee at ICMR-RMRC Gorakhpur	Apr 19, 2023	ICMR-RMRC Gorakhpur	ICMR-RMRC Gorakhpur
Attended meeting on Convening Policy, Innovation and Regulation Sub-Group and concept note for a Quad Senior Leaders	Convening Policy, Innovation and Regulation Sub-Group and concept note for a Quad Senior Leaders	Apr 19, 2023	Virtually attended from ICMR-NIV, Pune	Ministry of Health and Family Welfare, Government of India
Attended meeting on Quad partnership Regional Pandemic Preparedness and Response Capability Sub-Group	Quad partnership Regional Pandemic Preparedness and Response Capability Sub-Group	Apr 13, 2023	Virtually attended from ICMR-NIV, Pune	Ministry of Health and Family Welfare, Government of India
Attended meeting on WHO TPPs for mpox IVDs	WHO TPPs for mpox IVDs	Mar 29, 2023	Virtually attended from ICMR-NIV, Pune	WHO, Geneva
Attended meeting for the assistance to MoH Maldives - Review of plans for the establishment of the National Health Laboratory	Review of plans for the establishment of the National Health Laboratory, Maldives	Mar 17, 2023	Virtually attended from ICMR-NIV, Pune	MoH Maldives
Attended the meeting of the South-East Asia Regional GOARN (Global Outbreak Alert and Response Network) Partners, in Kathmandu, Nepal	Meeting of the South-East Asia Regional GOARN (Global Outbreak Alert and Response Network) Partners	Mar 15-16, 2023	Kathmandu, Nepal	WHO South-East Asia Regional Office, New Delhi
Invited talk on "Vector-borne diseases during the Covid-19 pandemic: Global neglect of surveillance and control of VBDs" and Chairperson for session on "Arboviral diseases and their control"	2nd International Conference of the Society for Vector Ecology (SOVE)	Mar13-16, 2023	ICMR-Vector Control Research Centre, Puducherry	ICMR-Vector Control Research Centre, Puducherry
Invited speaker for the talk on "Role of genomic surveillance in public health for novel pathogen discovery"	Symposium on Accelerating Biology [Discovery to Delivery] 2023	Mar 2, 2023	CDAC, Pune	CDAC, Pune
Invited talk on "Role of genomic surveillance in public health for novel pathogen discovery"	Symposium on Accelerating Biology [Discovery to Delivery] 2023	Feb 28 to March 2, 2023,	CDAC, Pune	CDAC, Pune
Attended the online meeting of WHO to discuss the	Experts' meeting on COVID care pathways supported	Feb 27, 2023	Virtually attended	WHO, Geneva

documents for the experts' meeting on COVID care pathways supported by RDTs	by RDTs		from ICMR-NIV, Pune	
Panelist for the discussion on mRNA made in India	mRNA made in India	Feb 25, 2023	HICC Novotel Hyderabad	Joint innovation with Wallonia Belgium
Invited speaker on "Role of genomics in preparedness and tackling of virus outbreaks"	The scientific symposium on Going Viral Illuminating the future path for virology	Feb 24, 2023	Virtually attended from ICMR-NIV, Pune	NIMHANS, Bangalore
Attended the Technical Symposium on Dengue under the Chairmanship of Union Secretary, HFW	Technical Symposium on Dengue	Feb 22-23, 2023	Virtually attended from ICMR-NIV, Pune	Ministry of Health and Family Welfare, Government of India
Invited talk on 'the status of vector borne high risk pathogens in India'	15th Conference on Vectors and Vector Borne Diseases	Feb 16 -17, 2023	Goa University, Taleigao Plateau, Goa	Goa University
Attended the QUAD Experts Group Meeting under the chairmanship of Shri. Lav Agarwal, Additional Secretary, MoHFW.	QUAD Experts Group Meeting	Feb 9 and 16, 2023	Virtually attended from ICMR-NIV, Pune	Ministry of Health and Family Welfare, Government of India
Workshop on Environmental Surveillance for One Health for interaction between implementers and researchers to understand needs and possibilities in national/state programs with different stakeholders	Workshop on Environmental Surveillance for One Health for interaction between implementers and researchers to understand needs and possibilities in national/state programs with different stakeholders	Feb 9, 2023	Virtually attended from ICMR-NIV, Pune	IISc, Bangalore
Biological security: Emerging paradigm in post COVID era	Claws seminar on CBRN: Emerging threats and challenges	Jan 30-31st 2023	Centre for Land Warfare Studies (CLAWS), New Delhi, India	Centre for Land Warfare Studies (CLAWS), New Delhi, India
Invited speaker. for the topic "The efforts of India to make an indigenous vaccine for COVID-19 a booster for future research and development"	AIIMS Bhubaneswar Research Forum	Jan 31st, 2023	Virtually attended from ICMR-NIV, Pune	AIIMS Bhubaneswar
Delivered a guest lecture on 'Role of biocontainment facility in high-risk pathogen surveillance and public health'	Two days national conference titled "Emerging Trends in Biological Sciences, ETBS 2023	Jan 27- 28, 2023	Dr. RML Avadh University Ayodhya	Department of Biochemistry, Dr. RML Avadh University Ayodhya
Invited panelist during "Scientific Writing" webinar	Webinar on "Scientific Writing" organized by Publication Ethics	Dec 28, 2022	Savitribai Phule Pune University	Publication Ethics department of Savitribai Phule

	department of Savitribai Phule Pune University Pune		Pune	Pune University Pune
Invited speaker. for the topic “Overview of the National Institute of Virology (NIV)’s work for Mpox and other zoonotic diseases”	USAID – RISE MPox Response - Project Orientation and Planning Meeting	Dec 19-21, 2022	Virtually attended from ICMR-NIV, Pune	USAID – RISE
Invited speaker on “Bio surveillance for the detection of Bioterrorism and Health emergencies”	National Conference on “Chem-Bio Defence: Futuristic Tools and Technologies”	Nov16-18, 2022	Defence Research & Development Establishment, Gwalior	Defence Research & Development Establishment, Gwalior
Invited talk on “STEM Engagement-Challenges in Biosciences”	India-UK science Museums: STEM Engagement Dialogue	Nov 16, 2022	New Delhi	National Council of Science Museums, Ministry of Culture, Government of India
Nominated by Secretary DHR and DG ICMR as an expert on molecular diagnosis of high threat pathogens	Seventh World One Health Congress (WOHC)	Nov 7-11, 2022	SingHealth Duke-NUS Global Health Institute (SDGHI) -, Singapore	SingHealth Duke-NUS Global Health Institute (SDGHI), Singapore
Invited speaker for the talk “Successfully publishing scholarly research in high impact factor journals’	Pre-Conference session II, SYMRESEARCH, 2022	Nov 3, 2022	Symbiosis Institute of Health Sciences, Lavale Pune	Symbiosis Institute of Health Sciences, Lavale Pune
Invited speaker on the topic “Lessons learnt from COVID-19 pandemic and way ahead”	CME on ‘Sawasthik Health Interaction Knowledge”	Sept 24, 2022	TNMC and BYL Nair Hospital, Mumbai	TNMC and BYL Nair Hospital, Mumbai
Invited speaker for the topic “COVID-19 vaccine booster urgency due to arrival of Omicron VOC	14th Cytometry Society Annual Conference and Workshops 2022	Oct 13-16, 2022	University of Hyderabad	University of Hyderabad
Invited speaker on the topic “Monkeypox Outbreak: The Challenging Epidemiology and Diagnosis” and chaired the session on “Preparedness for handling emerging viral infection under One Health”.	National Level Conference on Emerging Viral Infection Challenges [EVIRCON 2022]	Oct 10-12, 2022	GMC Srinagar	GMC Srinagar
Invited speaker on the topic “Role of ICMR-NIV Pune in management of monkeypox”	CME on ‘Monkeypox”	Oct 3, 2022	Department of Community Medicine, LTMMC and GH Sion Hospital Mumbai	Department of Community Medicine, LTMMC and GH Sion Hospital Mumbai
Invited member of the Panel Discussion for two forums	India Vaccine Leaders’ Conclave	Aug 25 and 26, 2022	Mumbai	BlueTech Media, Mumbai

“Addressing vaccine preparedness for emerging and re-emerging diseases and future outbreaks” and “future of the COVID-19 vaccination for human population”				
Invited to talk on the “Zoonotic Diseases in India with special reference to Rabies”	The Virtual CME on ‘Zoonotic Diseases in India with Special Reference to Rabies’	Sept 8, 2022	Department of Microbiology TNMC and BYL Nair Hospital, Mumbai.	Department of Microbiology TNMC and BYL Nair Hospital, Mumbai.
Invited to talk on the “Experiences from the COVID-19 and Pandemic Preparedness”	The workshop on the ‘Theme-Mission Rashmi’ during 4th Foundation Day of ICMR-RMRC, Gorakhpur	Sept 2, 2022	ICMR-RMRC, Gorakhpur	ICMR-RMRC, Gorakhpur
Invited to talk on the “Role of containment facility and regulation for shipment of clinical samples”	Seminar cum Workshop on Biosafety and Biosecurity	Jul 29-30 2022	Virtually attended from ICMR-NIV, Pune	VRDL, Microbiology Dept., AIIMS Jodhpur
Invited to talk on the Historical Perspective and outbreak data of Monkeypox	The 56th AFMC Global town webinar conducted to discuss on the Global threat of Monkeypox	Aug 14, 2022	Virtually attended from ICMR-NIV, Pune	AFMC
Invited to talk on the Genomic Evolution of Monkeypox virus	Citizen Forum India for the interactive discussion on Monkeypox	Aug 13, 2022	Virtually attended from ICMR-NIV, Pune	Citizen Forum India
Invited to talk on the ‘Monkeypox virus and laboratory diagnosis’	The webinar on RAPID Updates on Monkeypox- The Roadmap	Aug 11, 2022	Virtually attended from ICMR-NIV, Pune	Government of Kerala
Invited to talk on Reemerging orthopoxviruses, Global and Indian Scenario	New Molecular diagnostic tests & use of artificial intelligence in diagnosis of drug resistant tuberculosis & reemerging orthopoxviruses, global & Indian Scenario	Aug 5, 2022	HBT Medical College & Cooper Hospital, Mumbai	HBT Medical College & Cooper Hospital, Mumbai
Presented on the topic ‘Expansion of ZVD infection detection [Current evidence from ICMR VDRLs	Expert Group Consultation Meeting on Zika Virus Disease Surveillance meeting	Jul 5, 2022	Virtually attended from ICMR-NIV, Pune	DGHS, GOI
Invited to talk on Introduction, Epidemiology, Case Definition Current Scenario of Monkeypox	Chapter on Monkeypox updates for health care and field workers	Jun 18, 2022	Virtually attended from ICMR-NIV, Pune	Naipunyam-4, Andra Pradesh
Communication during SARS-CoV-2 pandemic	Media training and crisis communication	Jun 15-16 2022	Keylong, Himachal Pradesh	ICMR and GHS
Presentation of Development of Cocaxin	NAAS 29th annual general Body meeting	Jun 4-5 2022	New Delhi	NAAS, New Delhi
WHO Monkeypox Research: What are the knowledge gaps and priority research questions?	Online webinar on WHO Monkeypox Research: What are the knowledge gaps and priority research	Jun 2-3 2022	Virtually attended from ICMR-NIV, Pune	World Health Organization

	questions?			
Nipah- Kerala experiences and learnings	Online webinar on State Workshop on Nipah- Kerala experiences and learnings	May 12 2022	Virtually attended from ICMR-NIV, Pune	Government of Kerala
Development of Vaccine and challenges of Variant of concern [Invited speaker]	International conference on 'Coronaviruses- Past, Present and Future'. to be held on 10-11 May 2022 at Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), Srinagar	May 10-11 2022	SKUAST-K), Srinagar	United Kingdom- International Coronavirus Network (UK- ICN) and Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), Srinagar
Online interview with India Science Channel on Covid-19 for a weekly series 'Corona Ko Harana Hai'	'Corona Ko Harana Hai'	May 5th 2022	Virtually	Vigyan Prasar (VP) is an autonomous organization of the Department of Science and Technology, Govt. of India
Guest lecture on the "Making of Covaxin –Story of Indian vaccine against Covid-19"	Two days' workshop of the Integrated Disease Surveillance Programme (IDSP) of Maharashtra	May 4th 2022	Yashwantrao Chavan Academy of Development Administration (YASHDA), Pune	Integrated Disease Surveillance Programme (IDSP), Maharashtra
Importance of WGS in Infectious diseases [Invited speaker]	Whole genome Sequencing Symposium and Workshop	Apr 26-28th 2022	Online	Kasturba Hospital for Infectious Disease, Mumbai, and American Society for Microbiology
WHO COVID-19 Animal Models group call	World Health Organization	Apr 12, 2022	Virtually attended from ICMR-NIV, Pune	World Health Organization
Guest speaker in the international conference to deliver a talk on "The Outbreak of High-risk Pathogens and it Challenges during the COVID-19 Pandemic and its Lessons	Keystone Symposia on Molecular and Cellular Biology	Apr 11, 2022	Virtually	Linfa Wang, Sarah Catherine Gilbert and William E. Dowling, United states of America
Guest speaker on the topic Impact of Omicron and booster vaccination	National Conference of COVID-19 Pandemic on Public Life and future	Mar 26-27, 2022.	MAA Research Foundation	MAA Research Foundation Hyderabad
Invited Speaker on " Lab diagnosis of CCHF"	National One Health program for Prevention and control of Zoonotic diseases NOHPPCZ	Mar 29, 2022	SMS Medical College Jaipur [Online]	National Centre for Disease Control (NCDC) and SMS Medical College Jaipur
Invited guest speaker to	Medical Symposium	Mar 26, 2022	Virology	National

deliver lecture “India efforts towards Covaxin Development and the Variant of concern Challenges”	Theme COVID-19 Pandemic-			Conference of Virology (Virocon 2021) from AIIMS Bibinagar Hyderabad
Variant of Concern and its challenges during COVID-19 pandemic	COVID-19 lecture series	Mar 24, 2022	Virtually	Dept of Sci and Tech., Gov. Of Gujarat.
Facilitated the full day session to cover the training Module#3: Biohazards and Laboratory Preparedness for Public Health	ICMR Pandemic Preparedness Program	Mar 22, 2022.	Virtual	ICMR-HQ
Women and science the unending journey	Women and science the unending journey	Mar 10 2022	Virtual attended from ICMR-NIV, Pune	Kirori Mal College and National Service Scheme, New Delhi
Development of indigenous COVID-19 vaccines in India	Women in leadership: achieving an equal future in a COVID 19 world, Celebration of International Women’s Day	Mar 08 2022	ICMR-RMRC, Gorakhpur, UP (Virtual)	ICMR-RMRC, Gorakhpur, UP
Development of indigenous COVID-19 vaccines in India	Women Scientist at the Forefront of Fight against COVID-19, Celebration of International Women’s Day	Mar 08 2022	Indian Bureau of Mines, Nagpur (Virtual)	Indian Bureau of Mines, Nagpur, Maharashtra
WHO COVID-19 Animal Models group call	World Health Organization	Mar 3 rd and 10 th , 2022	Virtual attended from ICMR-NIV, Pune	World Health Organization
Delivered a lecture on Implementation of Research during Health Emergencies	ICMR Pandemic Preparedness Program	Feb 24-25, 2022	Virtual from ICMR-NIV, Pune	ICMR HQ, New Delhi
COVID-19 vaccines research: What recent evidence do we have that omicron is evading immunity and what are the implications	World Health Organization	Feb 8, 2022	Virtual attended from ICMR-NIV, Pune	World Health Organization
WHO R&D Blueprint consultation - COVID-19 Global research and innovation forum	World Health Organization	Feb 2, 2022	Virtual attended from ICMR-NIV, Pune	World Health Organization
WHO webinar on the update on SARS-CoV-2 VOC Omicron	World Health Organization	Feb 1, 2022	Virtual attended from ICMR-NIV, Pune	World Health Organization
WHO COVID-19 vaccines research: Why do we need a pan-sarbecovirus vaccine	World Health Organization	Jan 28, 2022	Virtual attended from ICMR-NIV, Pune	World Health Organization
WHO COVID-19 Animal Models group call	World Health Organization	Jan 27, 2022	Virtual attended from ICMR-NIV, Pune	World Health Organization
Meeting for the WHO Consultation	COVID-19 new variants – knowledge gaps and	Jan 12, 2021	Virtual attended	World Health Organization

	research priorities		from ICMR-NIV, Pune	
Invited for the talk on the "Lessons learned from COVID-19 Pandemic and Epidemic Preparedness	Symposium on New Dimensions in Health Research with Focus on emerging and Re-emerging infections and Pandemic Preparedness	Dec 8, 2021	Virtual attended from ICMR-NIV, Pune	ICMR-RMRC, Gorakhpur during the inauguration ceremony of the institute
Invited as a panelist and jury on "Research Scenario in India: Issues and Challenges" in the 3rd National Biomedical Research Competition-2021,	AIIMS, Rishikesh, in collaboration with JNU-Delhi, PGI-Chandigarh, NIPER-Mohali, CDRI-Lucknow, IITR-Lucknow, and AIIMS-Jodhpur	Dec 6, 2021, and 10 th , 2021	Virtual attended from ICMR-NIV, Pune	organized by under the aegis of the Society of young biomedical scientists (SYBS)
Award of Honour to the COVID-19 Frontline Warrior' for her outstanding work and scientific contributions towards prevention and control of COVID-19 pandemic, vaccine development and other scientific/research aspects related to SARS-CoV-2 during the pandemic	91st Annual Session and Symposium on Interface between Biological and Physical sciences towards Atmanirbhar Bharat	Dec 4, 2021	Virtual attended from ICMR-NIV, Pune	Academy of Sciences, India (NASI)
Oration speaker on Immunogenicity and protective efficacy of inactivated SARS-CoV-2 vaccine candidate, BBV152 in rhesus macaques	61st Annual Conference of National Academy of Medical Sciences at the Banaras Hindu University	Nov 28, 2021	BHU, Varanasi	National Academy of Medical Sciences
Live Phone Out Programme, to discuss about the COVID-19 vaccines and SARS-CoV-2 variants on	Jeet Jayenge Hum	Oct 30, 2021.		FM 101.6
WHO Regional meeting 'Learning from the COVID-19 response to strengthen health security and health systems resilience in South-east Asia Region	World Health Organization	Oct 21, 2021	Virtual attended from ICMR-NIV, Pune	World Health Organization
Panelist and delivered lecture on SARS-CoV-2 virus and immune response to vaccination	Society of Inflammation Research, India	Oct 2, 2021	Virtual attended from ICMR-NIV, Pune	SIRCON 2021-Virtual Conference
Participated as panelists in Panel discussion on COVID-19 in the	Annual Conference of Neuropathology Society of India (NPSICON 2021) with the Asian Oceanian Society of Neuropathology for the first time in India	Sept 24, 2021	Virtual attended from ICMR-NIV, Pune	Department of Neuropathology, NIMHANS, Bangalore
Chair a complete session on development of vaccine candidates and was invited speaker on the 'Development of an inactivated SARS-CoV-2 vaccine candidate BBV152	International Vaccine Summit	Sept 20, 2021	Virtual attended from ICMR-NIV, Pune	International Vaccine Summit, USA

and its response towards variant of concern’.				
Online Training Program of Assessors for certification of BSL-3 laboratories	Online Training Program of Assessors for certification of BSL-3 laboratories	Sept 14, 2021	Virtual attended from ICMR-NIV, Pune	ICMR-Headquarters, New Delhi
Invited speaker and presented the topic “Nipah virus infection and R&D in India”	CEPI Task Force on Nipah Standards, Assays & Animal Models	Sept 7, 2021	Virtual attended from ICMR-NIV, Pune	
Invited speaker presented the topic ‘An indigenous vaccine to fight with COVID pandemic and challenges’	Centenary year celebration of BYL Nair Hospital on COVID-19 Disease	Aug 31, 2021	Virtual attended from ICMR-NIV, Pune	BYL Nair Hospital
Invited speaker in the Global Consultation of and presented the topic “SARS-CoV-2 Delta variant pathogenesis and host response”	WHO virus Evolution Working group	Aug 16, 2021	Virtual attended from ICMR-NIV, Pune	WHO
Invited speaker on the topic “SARS-CoV-2 Delta variant pathogenesis in Syrian hamsters and host response	WHO Global Consultation on vaccine boost	Aug 13, 2021	Virtual attended from ICMR-NIV, Pune	WHO
Invited speaker to present the topic “SARS-CoV-2 Delta variant pathogenesis and host response”	WHO Animal Models group call	Aug 5, 2021	Virtual attended from ICMR-NIV, Pune	WHO
Delivered a talk on “Dr. K.M. Bhansali Oration”	Annual conference	Jul 12, 2021	Virtual attended from ICMR-NIV, Pune	Indian Association of Occupational Health
"The struggle of Indian scientific community to handle existing Zoonotic viral diseases and fight against SARS-CoV-2 Pandemic and lessons for the future” to commemorate the organized by.	Expert talk in the Webinar on World Zoonoses Day	Jul 6, 2021	Virtual attended from ICMR-NIV, Pune	ICAR-National Research Centre on Equines, Hisar (India) in collaboration with Indian Virological Society and National Centre for Disease Control New Delhi
Immune response to emerging variants-human and animal models as well” as on “Research to accelerate EUA for vaccine candidates in the pipeline, including animal models to identify correlates of protection	Teleconference on INDO-U.S. Vaccine Action Program Consultation on Opportunities for SARS-CoV-2 Research Collaboration	May 19, 2021	Virtual attended from ICMR-NIV, Pune	DBT and ICMR
Virtual seminar with the WHO collaborating centres conducted by the WHO Director-General.	Quality Assurance, Norms and Standards	Dec 16th 2020	Virtual attended from ICMR-NIV, Pune	World Health Organization
Bat derived pathogens and their presence in India	IVS International Conference on “Evolution	Feb 2020	Indian National	Indian National Science Academy

	of Viruses and Viral Diseases” - Virocon 2020		Science Academy	
Invited speaker in SESSION 3 - Progress and challenges in surveillance which was moderated by Dr. Peter Daszak, EcoHealth under the title Survey of Pteropus bats during Nipah outbreak in India revealed its association. SESSION 4 - Progress and challenges in diagnostics moderated by Dr. Joel Montgomery, CDC, I presented Role of early diagnosis during Nipah outbreak.	Nipah Virus International Conference	Dec 9-10th 2019	Singapore	Coalition for Epidemic Preparedness Innovations (CEPI)
Attended second meeting of the RESEARCH Platform: Developing joint research proposals	RESEARCH Platform, ICMR, New Delhi	Dec 3rd to 4th 2019	ICMR-HQ, New Delhi	ICMR-HQ, New Delhi
“Current scenario of outbreak of Crimean Congo Hemorrhagic Fever in Gujarat and Rajasthan state 2019”	Joint Monitoring Group of Ministry of Health and Family welfare on emerging and re-emerging diseases under the Chairmanship of Director General of Health Services, Govt of India	Dec 2 nd , 2019	Nirman Bhavan, New Delhi	Ministry of Health and Family welfare, New Delhi
Attended the 2nd NAC meeting for debriefing and the management of PEF at as per GAP-III guidelines.	Polio Essential facility meeting	Nov 27 th , 2019.	ICMR-NIV, Pune	ICMR-NIV, Pune
Trainers for Rapid Response teams on preparedness and response to Ebola Virus Disease	Preparedness and response to Ebola Virus Disease from 14th to 16th November 2019 at Westin Hostel, Pune, Maharashtra. (Number of participants-30)	Nov 14-16 th , 2019	Westin Hostel	Ministry of Health and family Welfare, Government of India
Emerging Viral Infections’	India International Science Festival (IISF): 2019 Outreach Program	Oct 18, 2019	Nehru Memorial Hall, Pune, India	ICMR- NIV, Pune
‘Emerging Viral Infections’	An Open Day Event	Oct 9 th , 2019	BSL-4 Facility, ICMR-NIV, Pune.	ICMR-NIV, Pune.
‘Virology and society’	A half-day ‘Public health lectures	Oct 8 th , 2019	Nehru Memorial Hall, Pune	ICMR-NIV, Pune
The implementation of Nipah Clinical Trial	Regional consultation meeting	Sept 24-26 th 2019	Dhaka Bangladesh	IEDCR Dhaka
KFD- PoC, primate study and follow up study on KFD cases along with Biosafety	workshop on “National consultation on Kyasanur Forest Disease”	Aug 20-21 st , 2019	Ashok Lalit Hotel, Bengaluru	ICMR- NIV, Pune

and Biosecurity concerns in KFD including present status and challenges.				
Research priorities for Nipah Virus Disease in India at Imperial Hotel, Connaught Place,	International Consultation on Research to Combat Nipah Virus Disease Participated in preparing R&D road map for Nipah.	Aug 16-18 th 2019.	New Delhi, India	ICMR-HQ, New Delhi with support of World Health Organization
Steps for preparedness of the country to deal with high-risk pathogens, Nipah an example' for the increasing the awareness and preparedness for handling and detection of high-risk pathogens.	A half-day workshop was organized on 'A total of 74 participants attended the workshop which included participants from various Government medical colleges and hospitals in Pune and Mumbai, Maharashtra state health officials and scientists from ICMR-NIV, Pune. Also, all the VRDL centres countrywide and ICMR-NIV field units in Mumbai, Bengaluru and Kerala joined the workshop through video conferencing.	Half day workshop on Aug 16 th 2019	ICMR-NIV, Pune.	ICMR-NIV, Pune.
In view of the current situation of emerging viral infections and the recent outbreak of Nipah virus in Kerala	Workshop on laboratory preparedness and response for handling and detection of high-risk pathogens'	Aug 13-17 th 2019	ICMR- NIV, Pune	ICMR- NIV, Pune
Setting up of the field laboratory during Nipah outbreak"	Half Day workshop on Steps for the preparedness and response for high-risk pathogens- Nipah, an example	Aug 6 th 2019	ICMR-NIV, Pune.	ICMR-NIV, Pune
Delivered talk on the Biosafety, Biocontainment and role of ICMR for the diagnosis of Viral Diseases in India	Subject Matter Expert Exchange (SMEE) on clinical lab and Bio-preparedness 2019	Aug 4-7 th 2019	Dhaka, Bangladesh	Armed Forces Medical Sciences, Dhaka Bangladesh &
Workshop on strengthening national capacity on prevention, detection, and response to biological hazards and emergencies for Medical Research Institute, Sri Lanka at ICMR-National Institute of Virology, Pune.	Workshop on strengthening national capacity on prevention, detection, and response to biological hazards and emergencies,	Jul 20-26 th , 2019	ICMR-NIV, Pune.	ICMR-NIV, Pune.
Nipah POC validation and laboratory testing protocols for Nipah RCT"	The National Institute of Allergy and Infectious Diseases (NIAID) -ICMR-World Health Organization Nipah Clinical Trial Workshop	May 7-9 th 2019	New Delhi, India	ICMR-HQ, New Delhi
Nipah outbreak in India and Ebola outbreak and its preparedness.	Joint Monitoring Group (JMG) under the Chairmanship of Director	May 7 th 2019	Nirman Bhawan, New Delhi	Ministry of Health and Family welfare, New

	General of Health Services, Govt of India			Delhi
Mock-up Audit Exercise	Advanced Auditor's Training	Mar 5-9 th 2019	ICMR-NIV, Pune.	ICMR-NIV, Pune with support of World Health Organization
Growth kinetics and susceptibility of Kyasanur Forest Disease virus to mammalian cell lines	14th International Conference on Vector and Vector borne Diseases (ICOV-14)	Jan 9-11, 2019	Bhubaneswa r, Odissa, India	International society of Vector and Vector borne Diseases
Prospective cohort study for understanding the kinetics of viral RNA, IgM, and IgG antibodies amongst Kyasanur Forest Disease virus patients from Maharashtra state	14th International Conference on Vector and Vector borne Diseases (ICOV-14)	Jan 9-11, 2019	Bhubaneswa r, Odissa, India	International society of Vector and Vector borne Diseases
Development of serodiagnostic assays for vector borne high risk group viral hemorrhagic fever diseases	14th International Conference on Vector and Vector borne Diseases (ICOV-14)	Jan 9-11, 2019	Bhubaneswa r, Odissa, India	International society of Vector and Vector borne Diseases
Next-generation sequencing platform involved in the Novel viral discovery and genomic signature identification for Novel vector-borne /zoonotic viral infections and important as high-risk group category and its use for future preparedness'	14th International Conference on Vector and Vector borne Diseases (ICOV-14)	Jan 9-11, 2019	Bhubaneswa r, Odissa, India	International society of Vector and Vector borne Diseases
Emerging and re-emerging viral diseases in India	Biosafety & Biosecurity in the context of Emerging Infectious Diseases	Dec 3rd - 7th 2018	ICMR-NIV, Pune.	ICMR-NIV, Pune.
High Risk pathogens in India	42 nd Annual Conference of Indian Association of Medical Microbiologists (Microcon-2018)	November 28-30 th 2018	NIMHANS Convention Centre, Bengaluru	NIMHANS, Bangalore
Lessons learned from Nipah outbreak	27 th International conference of the Indian Virological Society (Intervirocon-2018)	Nov 10-14 th 2018	PGIMER, Chandigarh, India	PGIMER, Chandigarh.
Self-assessment of Biosafety in the laboratory	Workshop on Establishment of Biosafety Level- 3 Laboratory' for the officers of the Ministry of Health and Medical Research Institute of Sri Lanka	Aug 13-15, 2018	ICMR-NIV, Pune.	ICMR-NIV, Pune.
Research priorities for Nipah Virus Disease in India	Workshop on International Consultation on Research to Combat Nipah Virus Disease	Aug 6-8 th 2018	Imperial Hotel, Connaught Place, New Delhi, India	Indian Council of Medical research and World Health Organization
Emerging and re-emerging viral diseases in India	Workshop on Crimean "Congo Haemorrhagic Fever and Bio-risk	May 7-10, 2018	Sawai Man- Singh Medical College,	Sawai Man-Singh Medical College, Jaipur, Rajasthan,

	mitigation in handling infectious materials in laboratories and hospital settings		Jaipur, Rajasthan, India	India
Role of Women Scientist in implementation of the research in India	Program on Integrated Scientific Project Management for Women Scientists/Technologists	Jan 29-Feb 2, 2018	Centre for Organization Development (COD), Hyderabad, India	Centre for Organization Development (COD),
'Yellow Fever antigen capture ELISA' & 'Indigenously developed ELISA Kits for diseases of public health importance'	DHR NIV Conference on Virology	Oct 26-27 th , 2017	ICMR-NIV, Pune	ICMR-NIV, Pune
'CCHF epidemiology in India' in the '2 nd International Conference on Crimean-Congo Hemorrhagic Fever'	2 nd International CCHF Conference	Sept 10-12 th 2017	Thessaloniki, Greece	Department of Microbiology, Medical School, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece
"KFD and Indian Scenario"	Biorisk management in Laboratory, hospital & field settings	Oct, 30 th - 31 st 2017	Sindhudurg, Maharashtra	IDSP and Health officers Sindhudurg
Current Scenario of KFD in India	XII Joint Annual Conference of ISMOCD & IAE. Innovate, Empower and Share: Combat Communicable Diseases	Sept 1 st 2017	AFMC, Pune	AFMC, Pune
'Role of translation research in diagnosis of Zoonotic diseases and its impact on public health of India	13 th Conference on Vectors and Vector Borne Diseases	Feb 26 th - Marc 1 st h, 2017	Central University, Chennai, Tamil Nadu.	Central University, Chennai, Tamil Nadu (CUTN).
Presented a talk on Biosafety and Biosecurity	Biosafety preparedness to handle potential bio-hazardous material in laboratory setting Training workshop	March 19 th -20 th 2016	NDTL, New Delhi	NDTL, New Delhi
Presented a talk on Biosafety and Biosecurity	Biosafety preparedness to handle potential bio-hazardous material in laboratory setting Training workshop	April 11 th 2016	IISc, Bangalore	IISc, Bangalore
Delivered a lecture on Emergence of CCHF in Gujarat and Rajasthan State during year 2011-2014	Rajasthan Conclave-2	Sept 21-23 rd 2014	Desert Medicine Research Center, Jodhpur, Rajasthan	Desert Medicine Research Center, Jodhpur, Rajasthan
Emergence of Crimean Congo hemorrhagic fever virus in Gujarat during 2013	SK Majumdar Trust Oration Award	Oct 9 th , 2013	Brig. S.K. Mazumdar Memorial Trust Inmas, Delhi	Brig. S.K. Mazumdar Memorial Trust Inmas, Delhi
Current Scenario of	XII International	Sept 16-18 th	Dept of	Mohanlal

Crimean–Congo hemorrhagic fever virus in India	Symposium on Vectors and Vector Borne Diseases and Annual Conference of NAVBD	2013.	Zoology, University College of Science, Udaipur, Rajasthan	Sukhadia University, Udaipur
Recurrence of Crimean–Congo hemorrhagic fever virus in Gujarat, India	3rd Molecular Virology Meeting, NIV Pune	Jan 10-11 th , 2013	ICMR-NIV, Pune.,	ICMR-NIV, Pune.
Spread of Kyasanur Forest Disease in new areas of Karnataka State, India	3rd Molecular Virology Meeting, NIV Pune	Jan 10-11 th , 2013	ICMR-NIV, Pune.	ICMR-NIV, Pune.
Delivered a lecture on Bunyaviruses in India: An overview	XI Symposium on Vector and Vector Borne Diseases of	Oct 15-17 th , 2011	National Academy of Vector borne Diseases, Jabalpur, MP	National Academy of Vector borne Diseases, Jabalpur, MP
Delivered a lecture on “Phylogenetic comparison of Ganjam virus isolated From India with other Nairoviruses	VIROCON 2010	2010	SV University, Tirupati	SV University, Tirupati
Buffalopox zoonotic outbreak investigations from Western Maharashtra	VIROCON 2010	2010	SV University, Tirupati	SV University, Tirupati
Invited speaker on Biosafety Challenges in India - Next Step forward	Conference of Asia Pacific Biosafety Association	Apr 30 th , 2009	Manila, Philippines	APBA Society
Invited speaker on Kyasanur forest disease diagnosis by TaqMan based real time PCR	Indian Association of Medical Microbiologist conference, Microcon 2008	2008	AFMC, Pune, India	AFMC, Pune, India
Genotyping of Kyasanur Forest Disease virus strains isolated from India	International Conference on ‘Emerging and re-emerging viral diseases in the tropics and subtropics	Dec 11th – 14th 2007	IARI, New Delhi	IARI, New Delhi
Genetic variations of Aedes aegypti populations from Western Coastal areas of India and their insecticide and Dengue virus susceptibility	8th International Symposium on Vectors and Vector Borne Diseases	Oct 13th – 15th 2006	IARI, New Delhi	IARI, New Delhi
Chikungunya virus activity in Karnataka state, India.”	International Conference on Emerging Infectious Diseases (ICEID)	Mar 19-22 nd 2006	Atlanta, Georgia, USA.	ICEID, USA
Invited speaker on Genomic comparison of Ganjam virus M segment with that of Crimean Congo Hemorrhagic Fever virus	American Society of Virology conference	Jul 2006	Wisconsin University, USA	American Society of Virology
Detection and Characterization of Bovine viral diarrhea virus (BVDV), a Pestivirus from autopsied goat specimen from Tamil Nadu, India	International Symposium on “Emerging Viral Infections: New frontiers and Challenges	Oct 11-13 th , 2004	Tamil Nadu, India	ICMR-NIV, Pune.
Study on the molecular characterization of dengue	International Symposium on “Emerging Viral	Oct 11-13 th , 2004	Tamil Nadu, India	National Institute of Virology, Pune

virus strains isolated in India	Infections: New frontiers and Challenges			
Genotyping of Ganjam virus isolated in India.	International Symposium on “Emerging Viral Infections: New frontiers and Challenges	Oct 11-13 th , 2004	Tamil Nadu, India	ICMR-NIV, Pune.
Experimental transmission of Chikungunya virus by <i>Anopheles stephensi</i> mosquito's laboratory	First International Symposia of Medical Entomology	Feb 19-20 th , 2003	Bhopal, India	ICMR-NIV, Pune.

Statement regarding collaboration with scientists abroad.

I. Collaboration with Centre for Disease Control & Prevention (CDC), USA

- Dr. Pragya D. Yadav has a long term official professional relationship with Centre for Disease Control & Prevention (CDC), USA for almost a decade. She has worked primarily with Dr. Stuart Nichol, chief of the Molecular Biology Section, Special Pathogens Branch, CDC, USA.
- This collaboration helped in supply of critical diagnostic reagents, kits, and extensive training of the staff on various disciplines of virology. Besides this, a viral hemorrhagic fever network laboratory was established across the country under the project sanctioned under Global Health Security Agenda (GHS) and CDC, USA. This network has been successfully utilized for screening of CCHF, KFD, and Nipah preparedness for the unknown virus threat in future.
- She has also collaborated with Dr. Cesar G Albarino, Dr. Jonathan Towner, Matthew R Mauldin, Lisa W Guerrero, Shannon L M Whitmer, Terry Fei Fan Ng, Cynthia S Goldsmith (Electron Microscopy), Punya Shrivastava-Ranjan, Alicia Francis, John D Klena and of Pox virus division Mathew D Esona and Nakazawa of CDC, USA.
- The collaborative efforts have led to the discovery and characterization of novel and emerging and re-emerging viruses e.g. Equine encephalosis virus, Buffalo pox virus, novel Reoviruses, Ortho-Bunyaviruses, identification and characterization of novel mosquito-borne (Kammavanpettai virus) and tick-borne (Wad Medani) reoviruses isolated in India.
- This collaboration and joint efforts made ICMR-NIV, Pune to self-resilient and presently any diagnosis can be made quickly for any novel virus. A number of publications were done in peer review journals.

II. Collaboration with The Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh

- A MoU was signed between ICMR-NIV and IEDCR, Dhaka for actively working on Nipah virus. Nipah virus (NiV) is a potential global human threat due to its fatality rates. With no licensed vaccines and therapies, India has seen four NiV outbreaks till 2019. Timely NiV diagnosis is of utmost importance to curtail the NiV transmission. NiV is a risk group-4 pathogen; it requires a containment laboratory to handle clinical samples and high-end instrumentation to carry out molecular assays. There are no commercial kits available in the market for the serological assays of the virus. Hence a specific and sensitive serological assay for the early diagnosis of the viruses and its surveillance is required. In view of the above development, standardization, and internal validation of anti-NiV human IgM and anti-NiV human IgG ELISA and Point of Care assay for the detection of the NiV was carried out.
- Onsite validation of Nipah human IgM and IgG ELISA and Point of care Real Time RT-PCR for Nipah Virus in IEDCR, Dhaka found satisfactory results. The papers are published in Indian Journal of Medical Research and received CDCSO, India approval for emergency use and production for Point of care.

III. Regional consultation on Nipah virus

- Subject Matter Expert Exchange (SMEE) on clinical lab and Bio-preparedness 09” in Dhaka, Bangladesh from 4th to 7th August 2019 to understand different epidemiological tools and the bio-simulation exercises which would help in the establishing a regional platform in the country to address the Biosecurity and will enhance the country’ preparedness for future threats of high consequences pathogens.
- Regional consultation meeting attended as an expert for the implementation of Nipah Clinical Trial in Dhaka Bangladesh from 4th to 6th September 2019. The main agenda was to discuss the Bangladeshi and Indian Nipah surveillance systems, clinical management , diagnostics for surveillance and point of care diagnosis, potential candidate therapeutics, revise, and finalize a possible regional clinical trial of novel therapeutics for NVD, operational issues for protocol implementation including existing clinical trial systems, Bangladeshi and Indian regulatory

requirements for a therapeutic clinical trial, governance and regional coordination and sharing of data and samples .

IV. SEAR RESEARCH Platform

- With the joint efforts of ICMR and WHO a RESEARCH Platform is established in year 2019 for Member States of the Southeast Asia Region. SEAR countries face similar challenges of emerging / re-emerging/novel infectious diseases and they have limited or no access to the experiences and learnings of neighboring countries. The SEAR Member States struggle to access the best science and products available regionally and globally, as their national and regional problems are often not addressed at global level. Since infectious diseases do not respect geographic boundaries, it is important that regional collaborations are undertaken to address these problems. Hence, public health solutions to address these issues should rely on three basic principles of Solidarity, where no country addresses its challenges alone, equity, where Countries work as equal partners, and autonomy, where countries make their own decisions about their own local problems. Under this, I am working as expert on development and evaluation of Point of care diagnostic for dengue in collaboration with other member state.

Details of Books/manuals published, if any: Total No. 10

1. Mourya DT, Yadav PD and Mishra AC. "The current status of Chikungunya virus in India: A review" Golden jubilee publication of NIV compendium. 2004, 265-267
2. Mourya DT, Yadav PD. "Insect immune responses and vector competence of mosquitoes" Integrated Pest Management and Biocontrol, Pointer Publishers, Jaipur 2006, 275-286.
3. Mourya DT, Yadav PD and Raut CG. High Containment Laboratory and Virus Repository group. National Institute of Virology, Golden to Diamond Jubilee: The glorious decade. Edited by V Arankalle and D Cecilia. 2012: pp. 319-358.
4. Mourya DT, Yadav PD, Mullick J, Patil DR. Biosafety Manual for laboratory Institutional Document 2014.
5. Mourya DT, Yadav PD. Nairobi Sheep Disease virus. Dongyou Liu (Ed.) Molecular detection of animal viral pathogens, CRC Press, May 12, 2016, Chapter 60. ISBN: 9781498700368. Mourya DT, Sakpal G, Sudeep AB, Mullick J, Shete A, Yadav PD, Patil D. Virology Technical Manual. Indian J Med Res. 2016, pp1-300.
6. Yadav PD, Sahay R, Sapkal G. Efforts towards Biosafety and dual use of science and technology by India. ICMR Hindi Bulletin, Pp 23-25 April 2017; Year 31, order 4. ISSN: 0971-9873. Index NA 8. 2017
7. Mourya DT, Yadav PD. Monkey fever, ICMR-Coffee Book. 2017, 114-119.
8. Mourya DT, Ullas PT, and Yadav PD. Molecular pathogenesis of Nipah virus infection. In Dongyou Liu (Ed.) MOLECULAR FOOD MICROBIOLOGY. CRC Press; Chapter 40; 3rd Edition, First Published 2021, Imprint CRC Press, Pages 13, eBook ISBN 9781351120388
9. Mourya DT, Patil DY, Kulkarni R, Belani S, Yadav PD. History of pandemics. In COVID-19 PANDEMIC (History, Science & Society), Publications division, Ministry of Information and Broadcasting, Government of India. Chapter one. Pp1-14, 2021.
10. Yadav PD, Gupta N, Patil DY, Sahay RR, Shete AM, Abraham P. Regional Manual for the Laboratory Diagnosis of Nipah Virus. World Health Organization. 2022.

Community-based health education (Electronic media, magazines, newspapers, talks, books, manuals etc.

- I. Featured in Special program: Gantanta Divas-Kartavya Path Par Nari Shakti on DD News on January 26, 2023.
- II. Featured in Special program: Gantanta Divas-Kartavya Path Par Nari Shakti on DD News on January 26, 2023.
- III. Featured in Special program: Tejasvini on DD News on December 24, 2022.
- IV. Featured in Special program: Safar Swadeshi Vaccine ka on DD News on April 16, 2022.
- V. Featured in the E-Samwad Patrika of ICMR in February 2021 titled '**ICMR Salutes Women's' Scientists for the contribution in the fight against COVID-19**' as an appreciation of her efforts for dealing with the COVID-

19 pandemic in India at page no 7.

- VI. Featured in the E-Samwad Patrika of ICMR in March 2021 titled 'Women Warriors of ICMR Women scientists leading India's fight against COVID-19' as an appreciation of her efforts for dealing with the COVID-19 pandemic in India at page no 8.
- VII. The world this week News in focus. CORONAVIRUS VARIANTS ARE SPREADING IN INDIA — WHAT SCIENTISTS KNOW SO FAR. Variants including B.1.617 have been linked to India's surge in infections. Researchers are hurrying to determine how much of a threat they pose. Nature | Vol 593 | 20 May 2021 | 321-22
- VIII. What it means to work in a Biosafety Level-4 laboratory at NIV, By Dr Pragya D. Yadav Issue Date: October 17, 2021, Updated: October 07, 2021, 19:44 IST
- IX. Appeared and provided input on Rajya Sabha TV, CNN, Republic TV, Radio Lucknow, Radio Indore, Radio Pune and explained about SARS-COV-2 variants, vaccine, breakthrough infections to deliver message to citizen of country in Hindi and English language to avoid vaccine hesitancy.
- X. A number of newspaper published scientific studies in simple language for common man to explain scientific research on Nipah and its containment, role of bats in spread of disease, not involvement of bats in SARS-COV-2 spread in India, Canine distemper virus outbreak in Gujarat, Gir Forest, CCHF and its containment during year 2011 when first cases detected, Zika virus and its detection and preventive measures, genomic relevance, novel virus discovery in India , SARS-COV-2 , its variants, breakthrough cases, about vaccine and its impact during introduction of variant of concerns, Monoclonal antibody and its animal efficacy etc.
- XI. Delivered talk on **"Women in Leadership: achieving an equal future in COVID-19 world"** to grace the occasion of the International Women' Day 8th March 2021 for the scientific and technical staff of ICMR-RMRC Gorakhpur.
- XII. Delivered talk on the International Women' Day 2021 on 10th March 2021 for the staff of Mineral Processing division, Ministry of Mines, Indian Bureau of Mines, Hingna Nagpur.
- XIII. Panelists Dr Pragya Yadav, Dr Kiran Coelho, Ananya Birla, Swara Bhasker, Commander (Retd) Prasanna E. they came together and expressed the thought, on THE WEEK's International Women's Day event, in Mumbai THE WEEK honours 40 'sheroes' on International Women's Day. March 09, 2022

Community-based health systems research/ Delivery of health care to people living in underserved (Rural, tribal, or urban slum population)/ Extraordinary Community-based service (Disease specific, operational research etc.)

On Nipah, CCHF, KFD, SARS-CoV-2 disease several research is being performed and outcome were helpful in understanding the containment response, genomic evolution, prevalence of disease, identification of virus vector cycle, its control, health education, development of indigenous digastric reagents and its, new technology development, vaccine development for COVID-19, clinical trials, preclinical studies, host pathogen interaction and impacts on health system etc. Based on all this information policy decision was taken in benefit of country and people. From year 2010 to 2022, several viral diseases (KFD, CCHF, Nipah, Zika) outbreaks were investigated and early diagnosis and confirmation of viral etiology, containment response helped in saving a huge number of lives. During H1N1 Pandemic 2009, laboratory services were provided; laboratories were trained to increase the response. During COVID-19 pandemic, I have worked towards the goal of self-reliant India and successfully led preclinical research on the first indigenous inactivated SARS-CoV-2 vaccine (BBV152/COVAXIN™) developed in collaboration with Bharat Biotech International Limited and ICMR. This was the first of its kind preclinical studies of the COVID-19 vaccine carried out in non-Human primates and Syrian hamsters in India. This has helped to determine the immunogenicity and efficacy of the COVAXIN™ in animal models. I have also studied the pathogenicity of different variants in Hamster model and therapeutics for COVID-19 of Monoclonal antibody and preclinical study for ZyCO-DNA vaccine which is enhanced our scope against COVID-19 pandemic fighting.

List of the most outstanding Technical Reports/ Review Articles

Sr. No.	Year	Reviews/Comments/Technical/Special Reports	Impact factor	Citation
1.	2006	Mourya DT, Yadav P. Vector biology of dengue & chikungunya viruses. Indian J Med Res. 2006 Nov; 124(5):475-80. PMID: 17213513. <i>[Review]</i>	5.274	40
2.	2013	Mourya DT, Yadav PD. Raut, CG, Patil DY. Crimean-Congo Hemorrhagic Fever: Current Scenario in India. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. 84 , 9–18 (2014). DOI: https://doi.org/10.1007/s40011-013-0197-3 . <i>[Review]</i>	0.96	32
3.	2014	Mourya DT, Yadav PD. and Patil DY. Highly infectious tick-borne viral diseases: Kyasanur forest disease and Crimean-Congo haemorrhagic fever in India. WHO South East Asia J Public Health. 2014 Jan-Mar; 3(1):8-21. DOI: 10.4103/2224-3151.206890. PMID: 28607249. <i>[Review]</i>	2.36	51
4.	2014	Mourya DT, Yadav PD. Majumdar TD, Chauhan DS, Katoch VM. Establishment of Biosafety Level-3 (BSL-3) laboratory: important criteria to consider while designing, constructing, commissioning & operating the facility in Indian setting. Indian J Med Res. 2014 Aug; 140(2):171-183. PMID: 25297350; PMCID: PMC4216491. <i>[Special report]</i>	5.274	36
5.	2015	Badole SL, Yadav PD. Patil DR, Mourya DT. Animal models for some important RNA viruses of public health concern in SEARO countries: viral hemorrhagic fever. J Vector Borne Dis. 2015 Mar; 52(1):1-10. PMID: 25815861. <i>[Review]</i>	0.735	6
6.	2015	Mourya, D.T., Yadav, PD. Recent Scenario of Emergence of Kyasanur Forest Disease in India and Public Health Importance. Curr Trop Med Rep 3 , 7–13 (2016). DOI: https://doi.org/10.1007/s40475-016-0067-1 <i>[Review]</i>	NA	35
7.	2016	Mourya DT, Shil P, Sapkal GN, Yadav PD. Zika virus: Indian perspectives. Indian J Med Res. 2016 May; 143(5):553-64. DOI: 10.4103/0971-5916.187103. PMID: 27487998; PMCID: PMC4989828. <i>[Review]</i>	5.274	40
8.	2016	Mourya DT, Shahani HC, Yadav PD. Barde PV. Use of hydrogen peroxide vapour & plasma irradiation in combination for quick decontamination of closed chambers. Indian J Med Res. 2016 Aug; 144(2):245-249. doi: 10.4103/0971-5916.195039. PMID: 27934804; PMCID: PMC5206876. <i>[Review]</i>	5.274	1
9.	2017	Yadav PD. Chaubal GY, Shete AM, Mourya DT. A mini-review of Bunyaviruses recorded in India. Indian J Med Res. 2017 May; 145(5):601-610. DOI: 10.4103/ijmr.IJMR_1871_15. PMID: 28948950; PMCID: PMC5644294. <i>[Review]</i>	5.274	10
10.	2017	Mourya DT, Viswanathan R, Jadhav SK, Yadav PD. Basu A, Chadha MS. Retrospective analysis of clinical information in Crimean-Congo haemorrhagic fever patients: 2014-2015, India. Indian J Med Res. 2017 May; 145(5):673-678. DOI: 10.4103/ijmr.IJMR_65_16. PMID: 28948959; PMCID: PMC5644303. <i>[Review]</i>	5.274	12
11.	2017	Mourya DT, Yadav PD. Khare A, Khan AH. Certification & validation	5.274	2

		of biosafety level-2 & biosafety level-3 laboratories in Indian settings & common issues. Indian J Med Res. 2017 Oct; 146(4):459-467. DOI: 10.4103/ijmr.IJMR_974_16. PMID: 29434059; PMCID: PMC5819027. <i>[Special Report]</i>		
12.	2017	Yadav PD , Sapkal GN, Sahay RR. Indian efforts towards the interventions of dual use of science and technology. IJMR Hindi Patrika. <i>[Review]</i>	-	0
13.	2018	Yadav PD , Mourya DT (2018) Shrew-borne Thottapalayam Virus: An Indian Perspective. J Emerg Dis Virol 4(1): DOI: 10.16966/2473-1846.140 <i>[Review]</i>	0.85	0
14.	2019	From crisis to opportunity, india's response to the Nipah Virus outbreak, Kerala 2018/2019 released by ICMR-HQ on 7th December 2019. <i>ICMR Booklet</i>	0	0
15.	2019	Yadav PD et al. General Guidelines on "Establishment of Biosafety Level-3 Laboratory" was released by the Secretary DHR and DG ICMR during the 2nd meeting of the Regional Platform on Infectious Diseases of the Public Health Importance in WHO SEAR in Dec 2019. <i>[Policy Guideline]</i>		
16.	2020	Mourya DT, Sapkal G, Yadav PD , M Belani SK, Shete A, Gupta N. Biorisk assessment for infrastructure & biosafety requirements for the laboratories providing coronavirus SARS-CoV-2/(COVID-19) diagnosis. Indian J Med Res. 2020 Feb & Mar; 151(2 & 3):172-176. DOI: 10.4103/ijmr.IJMR_763_20. PMID: 32242878; PMCID: PMC7357401. <i>[Review]</i>	5.274	31
17.	2020	Gupta N, Potdar v, Yadav P , Patil DY, Sapkal G. perspective. Journal of Infection and Public Health. 2020: 13(7): 949-955. DOI:https://doi.org/10.1016/j.jiph.2020.03.016 <i>[Review]</i>	7.537	3
18.	2020	Gupta N, Potdar V, Praharaj I, Giri S, Sapkal G, Yadav P , Choudhary ML, Dar L, Sugunan AP, Kaur H, Munivenkatappa A, Shastri J, Kaveri K, Dutta S, Malhotra B, Jain A, Nagamani K, Shantala GB, Raut S, Vegad MM, Sharma A, Choudhary A, Brijwa M, Balakrishnan A, Manjunatha J, Pathak M, Srinivasan S, Banu H, Sharma H, Jain P, Sunita P, Ambica R, Fageria B, Patel D, Rajbongshi G, Vijay N, Narayan J, Aggarwal N, Nagar A, Gangakhedkar RR, Abraham P. Authors' response.Laboratory preparedness for SARS-CoV-2 testing in India: Harnessing a network of Virus Research & Diagnostic Laboratories.Indian J Med Res. 2020 May; 151(5):496. DOI: 10.4103/0971-5916.286255. PMID: 32611921; PMCID: PMC7530453. <i>[Review]</i>	5.274	41
19.	2020	ICTV Executive Committee has accepted TaxoProp 2019.027M (Create three new species and rename two species in the genus Coltivirus, family Reoviridae) and this proposal ratification by the IUMS Virology Division February 2020. https://talk.ictvonline.org/taxonomy/	-	-
20.	2021	Gupta S, Gupta N, Yadav PD, Patil DY. Ebola preparedness plan for developing countries: Lessons learned from Ebola outbreaks. J Infect Public Health, 2021 March: 14 (3):293-305.DOI:	7.537	5

		https://doi.org/10.1016/j.jiph.2020.12.030 . <i>[Review]</i>		
21.	2020	Sahay RR, *Yadav PD , Gupta N, Shete AM, Radhakrishnan C, et al. Experimental learnings from the Nipah virus outbreaks in Kerala towards containment of infectious public health emergencies in India. Epidemiol Infect. 2020 Apr 23; 148:e90. DOI: 10.1017/S0950268820000825. PMID: 32321607; PMCID: PMC7253795. <i>[From the field]</i>	4.434	9
22.	2021	Mourya DT, Yadav PD , Patil DY, Sahay RR. Experiences of Indian Council of Medical Research with tick-borne zoonotic infections; Kyasanur Forest disease and Crimean Congo hemorrhagic fever in India with one health focus. Indian J Med Res. 2021. DOI:10.4103/ijmr.IJMR_532_21. Corpus ID: 233428738. <i>[Review]</i>	5.274	1
23.	2021	Yadav PD *, Kumar S. Global emergence of SARS-CoV-2 variants: an urgent need of new foresight for improved vaccine efficacy. The Lancet Infectious Diseases. Published online November 23, 2021 https://doi.org/10.1016/S1473-3099(21)00687-3 <i>[Comment]</i>	71.421	0
24.	2022	Ketki Deshpande, Ullas PT, Ojas Kaduskar, Neetu Vijay, Aparna Rakhe, Shankar Vidhate, Kirtee Khutwad, Gururaj Rao Deshpande, Bipin Tilekar, Sanskruti Saka, Kshitija Gadekar, Roshni Patil, Yadav PD, Varsha Potdar, Yogesh Gurav, Priyanka Gupta, Harmanmeet Kaur, Jitendra Narayan, Gajanan Sapkal, Priya Abraham. Performance assessment of seven SARS-CoV-2 IgG enzyme-linked immunosorbent assays IJMV https://doi.org/10.1002/jmv.27251 2.32 [Technical report]	20.693	1
25.	2022	Made in India kits developed by ICMR-NIV, Pune , contributed as Technology intendors , released on foundation day of NIV, Pune	-	-
26.	2022	Mourya DT, Yadav PD et al. Re-assessing the biosafety level requirement and defining surveillance need for Kyasanur forest disease virus: Changed paradigm. Indian J Med Res. 2021. <i>[Accepted] [Review]</i>	5.274	0
27.	2022	Yadav PD , Gupta N, Patil DY, Sahay RR, Shete AM, Abraham P. Regional Manual for the Laboratory Diagnosis of Nipah Virus. World Health Organization. 2022. (Manual)	-	-
28.	2022	World Health Organization. (2022). Use of SARS-CoV-2 antigen-detection rapid diagnostic tests for COVID-19 self-testing: interim guidance, 9 March 2022. World Health Organization. https://apps.who.int/iris/handle/10665/352350 [Member of Guideline development group]	-	-
Cumulative impact factor and citations			174.5	356

List of documents prepared for BSL-4 laboratory, ICMR-NIV, Pune validation and propagation

1.	2013	<ul style="list-style-type: none"> I. BSL-2 and BSL-3 safety Manual, II. BSL-4 Safety Manual, III. Training Program for BSL-4 laboratory IV. Emergency Management Plan for BSL-4 Laboratory V. Molecular biology, Tissue culture procedures booklet, serological technical booklet for diagnosis of different viruses VI. SOPs were prepared for the installed equipment's at Maximum Containment Laboratory (BSL-4). VII. Validation Document of BSL-4 laboratory to present High Powered Committee to validate the BSL-4 facility at MCC, Pune VIII. Validation Document of India's first mobile BSL-3 laboratory at ICMR-NIV, Pune
2.	2019	<ul style="list-style-type: none"> I. Nipah clinical trial Standard operating procedures II. Nipah diagnostic and field laboratory setup documents III. Bat survey field setup document IV. Nipah outbreak report and publication
3.	2020	<ul style="list-style-type: none"> I. Prepared Standard operating procedures for animal experiment [pathogenicity, preclinical studies for hamster and non-human primates] during COVID-19 for experimentation. II. Multiple project reports were prepared, new proposal prepared, Extramural funded projects reports were shared to funding agency.
4.		<p>Administrative support provided to the institute / ICMR / WHO in developing policy documents.</p> <ul style="list-style-type: none"> I. NABL accreditation documents prepared for BSL-4 lab test protocol for KFD and CCHF. Reviewed by NATIONAL ACCREDITATION BOARD FOR TESTING AND CALIBRATION and laboratory got certified (ISO/IEC-17025-2004). II. As per directives received from ministry: Developed SOP for Zika virus diagnosis with dengue and Chikungunya virus and three training programs organized for VRDL network (19 centers of DHR/MoH program) and VHF network (7 centers of CDC VHF project) and prepared diagnosis reagents were shared with them for performing diagnosis. III. Being WHO collaborative center for emerging infectious diseases, reagents and SOP were supplied to SEAR party state during Zika emergency. IV. Provided input in developing testing algorithm for Zika preparedness plan developed for India. V. Developed SOP for Yellow fever virus diagnosis and three training organized for VRDL network (7 centers of DHR/MoH program) and NCDC, Delhi covering main parts of country and prepared diagnosis reagents were shared with them for providing diagnosis. VI. Being WHO collaborative center yellow fever molecular diagnostic reagents and SOP were provided to other SEAR countries during this threat. VII. NIV, Pune is WHO-CC for "Emerging and re-emerging infectious diseases". I prepared Annual report for 2016-2022. VIII. Prepared replies to queries on parliament questions on CCHF & KFD for ICMR, HQ. IX. Redesignation of WHO-CC was done by submitting revised document on WHO portal for coming four years. X. ICMR regularly participates in various events/ outreach programmes/exhibitions to showcase its activities to students, public and local

		<p>media. This provides an opportunity for ICMR's Institutes to showcase their achievements and research facilities to the general public and for the latter to get an insight into the work done by researchers. Five new posters were made and shared with Dr. Neeraj Tondan on various research programs, success story of Nipah, Zika and translational technology with latest information/ achievements from Institute. These were displayed in many National programs by ICMR.</p> <p>XI. Contributed for General Guidelines on "Establishment of Biosafety Level- 3 Laboratory" was released by the Secretary DHR and DG ICMR during the 2nd meeting of the Regional Platform on Infectious Diseases of the Public Health Importance in WHO SEAR in Dec 2019.</p> <p>XII. Disaster Management Plan was made for Institute and submitted to ICMR-Hq on 24th May 2020.</p> <p>XIII. Guidelines of CCHF were revised as per the need of the hour and shared with MoH, ICMR and ICMR-NIV scientist for feedback to finalise it.</p> <p>XIV. The input was given for Nipah guideline and preparedness documents.</p> <p>XV. Audit Documents were prepared for NABL accreditation of diagnostic tests for CCHF and KFD for ISO/IEC 705:005 and it has been granted.</p> <ul style="list-style-type: none"> ▪ Testing algorithm for Zika preparedness plan, 2017 ▪ Kyasanur Forest Disease: a public health concern, 2018 ▪ Treatment Guidelines for Kerala: Nipah Virus Disease, 2018 ▪ Hospital Infection Prevention and Control Guidelines for Nipah virus Disease, 2018 ▪ Guidelines for Handling Human Remains of Nipah Virus Infection, 2018 ▪ Guidelines on roles and responsibilities of VRDLs during outbreaks with suspected high risk viral pathogens, 2018 ▪ Guidelines for collection, packaging, and transport of specimens for testing for high-risk viral pathogens, 2018 ▪ Updated Guidelines for the clinical management of CCHF, 2019 ▪ Guidelines for the Aircraft and Airport shuttle bus Disinfection: Novel Coronavirus 2019 ▪ Guidelines for the Airline Crew: Novel Coronavirus 2019 <p>XVI. General Guidelines on Establishment of Biosafety Level-3 Laboratory 2019</p> <p>(i) GAPIII orientation updated for latest developments including PIM guidance Bandung, Indonesia, PEF establishment at ICMR-NIV, Pune, Attended the training on GAP III Indonesia 18th – 22nd FEB 2019</p>
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Research Grants from recognized National and International Agencies

Sr. no.	Project	Period of research grant	Source of grant	PI / CO-PI	Amount of grant received
1)	Serosurvey for Monkeypox virus antibodies among close contacts of laboratory confirmed Monkeypox cases, India. Initiating	2023-2024	ICMR, Delhi	PI	78.25 Lakhs
2)	Exploratory study for Human Monkeypox virus infection. Initiating	2023-2024	ICMR, Delhi	PI	86 Lakhs
3)	Characterization of monkey pox virus isolates and develop serological assays and vaccine candidates	2022-2024	ICMR-NIV, Pune	PI	58.56 Lakhs
4)	Recurring Grant-in-aid under Prevention & Control of Diseases-Development of Tools to prevent Outbreaks of Epidemics, to NIV Pune for "Testing of ongoing global. outbreak of viral disease- Monkeypox"	2022-2023	ICMR, Delhi	PI	2.84 Crore
5)	Development and dissemination of serological assays for priority pathogens. Initiating	2022-2023	CEPI	PI	1.09 Crore
6)	Assessment of cross-neutralization of human antibodies against Monkeypox (virus) among smallpox vaccine recipients by Plaque Reduction Neutralization Test. Initiating	2022-2023	ICMR, Delhi	PI	43.49 Lakhs
7)	Immune response to precautionary third dose of COVISHIELD/ COVAXIN among healthy adult population: an ICMR Cohort study, India"	2022-2023	ICMR, Delhi	PI	1.96 Crore
8)	Generation and characterization of mouse-human chimeric monoclonal antibodies against SARS-CoV-2	2022-2023	ICMR, Delhi	Co-PI	48.76 Lakhs
9)	Immunogenicity and safety of Covishield and Covaxin administered in an interchangeable dosing schedule among healthy Indian adults: A phase IV, single-blind, randomized controlled trial Ongoing	2021-2022	ICMR, Delhi	PI	3.776 Crore
10)	Reinfection with Severe Acute Respiratory Syndrome Coronavirus-2 (SARS CoV-2) among healthcare workers in India Ongoing	2021-2023	ICMR, Delhi	PI	43.22 Lakhs
11)	Development and validation of magnetic bead multiplex immunoassay for detecting SARS-CoV-2 antibodies	2021-2023	ICMR, Delhi	Co-PI	67.74 Lakhs
12)	Risk factors for Covid Associated Mucormycosis in India: a case control investigation Ongoing	2021	ICMR, Delhi	PI	21 Lakhs
13)	Countrywide survey of Nipah virus (NiV) in Pteropus bats Initiating	2021-2023	ICMR, Delhi	PI	74.79 Lakhs
14)	Assessment of prophylactic and therapeutic role of BCG vaccine against SARS-CoV-2	2021-2022	DBT, New Delhi	Co-PI	18.01 Lakhs

	infection in hamster model Ongoing				
15)	Sustainable laboratory network for monitoring of Viral Hemorrhagic Fever viruses in India and enhancing bio-risk mitigation for High-risk group pathogens Initiating	2020-2023	ICMR, Delhi	PI	2.58 Crore
16)	Effectiveness of Covaxin and Covishield vaccines against severe COVID-19 in India, 2021: Multi- centric hospital-based case control study Ongoing	2021-2022	ICMR, Delhi	PI	2.30 Crore
17)	A Phase II, Open Label, Randomized Controlled Trial to Assess the Safety and Efficacy of Convalescent Plasma to Limit COVID-19 Associated Complications in Moderate Disease	2020-2021	ICMR, Delhi	PI	1.2 Crore
18)	Molecular epidemiological analysis of SARS-CoV-2 circulating in different regions of India Ongoing	2020-2021	ICMR, Delhi	PI	1.3 Crore
19)	Comparative Analysis of Host Immune Responses in Symptomatic and Recovered cases of Kyasanur Forest Disease Ongoing	2020-2023	ICMR, Delhi	Co-PI	16.86 Lakhs
20)	Development of serodiagnostic assays for Nipah virus Ongoing	2019-2021	ICMR, Delhi	PI	82.85 Lakhs
21)	Prospective investigation of transmission of Crimean Congo Haemorrhagic Fever (CCHF) amongst close contacts of confirmed CCHF cases: Ongoing	2019-2021	ICMR, Delhi	Co-PI	25.11 Lakhs
22)	Development of tools to prevent outbreaks of epidemics	2019-2020	ICMR, Delhi	Co-PI	1.63 Crore
23)	Workshop on laboratory preparedness and response for handling and detection of high-risk pathogens	2019-2020	ICMR, New Delhi	PI	96.39 Lakhs
24)	Surveillance for Zika virus infection in humans, India. Ongoing	2016-2019	DHR, New Delhi	Co-PI	2.33 Crore
25)	Establishment of facility for production of standard virus positive controls for diagnostic PCRs and RT-PCRs tests for the important public health viral diseases: Ongoing	2016-2018	ICMR, New Delhi	PI	69.89 Lakhs
26)	Generation and characterization of monoclonal antibodies against Kyasanur forest disease virus:	2016-2018	Zoonosis task Force, DHR	Co-PI	14.11 Lakhs
27)	Potential Species Distribution and detection of Kyasanur Forest Disease (KFD) virus in tick population in forest area of Kerala:	2016-2018	Zoonosis task Force, DHR	Co-PI	53.92 Lakhs
28)	Epidemiology, risk factors and seroprevalence of Crimean-Congo Hemorrhagic Fever (CCHF) infection among human in rural population in Gujarat:	2016-2018	Zoonosis task Force, DHR	PI	73.63 Lakhs

29)	Enhancing Biorisk mitigation awareness in public health community and creating laboratory networks for enhanced diagnostic capabilities to deal with surveillance and outbreaks of Viral Hemorrhagic Fever and Respiratory Illness diseases:	2015-2019	CDC, USA	PI	19.81 Crore
30)	Nationwide serosurvey of Crimean Congo hemorrhagic fever virus (CCHFV) in domestic animals and Epidemiology, risk factors and seroprevalence of CCHF infection among humans in rural population in Gujarat.	2016-2018	ICMR, Delhi Zoonosis task Force	Co-PI	73.63 Lakhs
31)	Multi-site epidemiological and virological survey of Nipah virus: Special emphasis on Northeast Region of India:	2014-2016	ICMR, Delhi	PI	1.2 Crore
32)	Recovery of infectious Chandipura virus entirely from cDNA clones and its application in vaccine development.	2009-2012	DBT, Delhi	Co-PI	30 Lakhs
33)	Survey for zoonotic viral pathogens in bats and other domestic animals.	2010-2011	CDC, USA	Co-PI	30000 USD
34)	Molecular characterization of viruses (Bunyaviruses) isolated from India.	2007-2010	DST, Delhi	PI	7 lakhs

List of Workshops / Training / Symposia / Conference organized by Dr. Pragya Yadav [2016-2023]

- Create awareness amongst the students on Biosafety on the occasion of National Safety Week at Department of Chemistry, Modern College, Pune on March 10, 2023.
- Training on Dengue diagnosis for the Southeast Asia Regional Research platform (SEAR RRP) at ICMR-NIV Pune on February 20, 2023.
- Training for the data entry and KFDV diagnostic algorithm for the newer laboratories under the sustainable laboratory network for the data management at NIE Portal. Online training organized by ICMR-HQ and ICMR-NIV Pune and ICMR-NIE team on February 2, 2023.
- Experience of first responder to an emerging disease: Nipah virus story” in the International Health & Research Convention (IH&RC) 2023 CME on Emerging and Re-emerging Diseases MGMCRI, Puducherry on January 21, 2023.
- The WHO training course on “Vector Borne Diseases with emphasis on Mosquitoes, Ticks, and Mites at NCDC, New Delhi on December 19, 2022.
- Hands on training of donning and doffing of BSL-3 PPE, entry exit protocol of BSL-3 and MBSL-3, setting up of traps for bats including pole and harp trap, Fire management and triple packaging and shipment of clinical samples at ICMR-NIV, Pune on December 19, 2022.
- The one-month training on performing the field validation of MBSL-3 stationed at ICMR-RMRC Gorkahpur was initiated from November 7, 2022. The team [scientist, technical and engineering staff] from ICMR-RMRC Gorakhpur, Uttar Pradesh is being trained by resource persons from Maximum Containment Facility, Polio Virus Group and Engineering Department of ICMR-NIV, Pune.
- “Training for working in Biosafety Level-3 and the molecular and serological diagnosis of Crimean Congo Hemorrhagic Fever’ was conducted under the extramural project funded by Indian Council of Medical Research New Delhi. The Three days training was organized by the scientists and technical team of the Maximum Containment Facility of ICMR-National Institute of Virology, Pune, from June 21-23, 2022, for the participants from 7 CCHF network laboratories identified in the country.

- Online training for 15 VRDLs identified for the Monkeypox diagnosis on June 29, 2022. The topics covered were- Introduction and Epidemiology of Monkeypox, Clinical features, management and sample collection and Laboratory diagnosis of Monkeypox virus.
- 'Fire Safety training and Mock drill including evacuation and Fire management' for all the security staff of BSL-4 Facility at ICMR-NIV Pune
- The 11th BSL-4 Expert Committee meeting through virtual mode on October 21, 2022, under the chairmanship of Dr. DT Mourya, Chair for Virology and Zoonoses
- Online training for 15 VRDLs identified for the Monkeypox diagnosis on June 29, 2022. The topics covered were- Introduction and Epidemiology of Monkeypox, Clinical features, management and sample collection and Laboratory diagnosis of Monkeypox virus.
- Training for working in Biosafety Level-3 and the molecular and serological diagnosis of Crimean Congo Hemorrhagic Fever at ICMR-NIV, Pune on 21-23 June 2022.
- Orientation program on various research conducted by the team of BSL-4 facility on high risk viral pathogens and challenges faced on April 26, 2022, for Scientist B at ICMR -NIV, Pune.
- Dr. Pragya Yadav and team from ICMR-NIE, Chennai and ICMR-NARI, Pune organized Pandemic Preparedness training on 24th February 2022.
- Graph Pad Prism Statistical Training was coordinated by Dr. Pragya Yadav for the 25 staff from different department of ICMR-NIV, Pune for two days during February 8-9, 2022.
- The two days "virtual training on Biosafety and KFDV molecular and serological diagnosis" was organized by the Maximum Containment Facility of ICMR-National Institute of Virology, Pune, on September 30 and October 1, 2021, for microbiologist, consultant, technical team members from laboratories of the three hospitals- North Goa Hospital, South Goa Hospital and Goa Medical College
- A six days "Orientation and Hands-on Training on Illumina NGS platform" was organized by the Maximum Containment Facility of ICMR-National Institute of Virology, Pune, from October 4-9, 2021, for participants from BMCRI, Bengaluru
- Three days "Second virtual training on Biosafety and KFDV molecular and serological diagnosis" was organized by the Maximum Containment Facility of ICMR-National Institute of Virology, Pune, on October 27-29, 2021, for participants from eight laboratories Kerala (GMC Kozhikode; ICMR-NIV Kerala unit); Karnataka (VDL Shivamogga; ICMR-NIV Bangalore unit); Tamil Nadu (KIPMR Chennai) and Maharashtra (Kasturba infectious diseases hospital Mumbai, GMC Nagpur, and GMC Miraj).
- Training on Zika virus detection by real time RT-PCR assay was conducted for 26 VRDLs all over the country on December 1, 2021.
- Training on molecular and serological detection of the Kyasanur Forest Disease (KFDV) was organized in June 2020 for Sindhudurga District Laboratory, Maharashtra state.
- Various online trainings for the Virus Research and Laboratory Networks (VRDLNs), medical college hospitals and clinical trial sites were undertaken for detection of SARS-CoV-2 by real time RTPCR and COVID Kawach ELISA in March, April, May, June, and September 2020.
- COVID-19 PCR training was provided to state government microbiologist and technicians during April, May, June, and September 2020.
- Molecular detection for SARS-CoV-2 trainings were given to the staff from Goa medical college, AFMC, BJMC Pune, GMC Aurangabad, as well as other government institutes such as National Centre for Cell Sciences, Pune, Indian Institute of Science Education & Research Pune and National AIDS Research Institute, Pune during Feb-March 2020.
- Conducted online meetings for "The procedures of RT-PCR and ELISA test analysis for COVID-19 phase 3 efficacy study" on 7th November 2020.
- Conducted training for SARS-CoV-2 ELISA handover to seven company for making kits during May 2020.
- ICMR-NIV, Pune has conducted 2 days special program on account of "India International Science Festival (IISF): 2019 Outreach Program". A half day 'Public health lectures on virology and society' was conducted at Nehru Memorial Hall on 18th October 2019 for the invited school and college students. On 19th October 2019 an open day event for students to showcase the various aspects of virology research in public health and benefits to society and challenges was organized at ICMR-NIV, Pashan campus. BSL-4 facility scientist and technical staff had participated in the demonstration of Biosafety, BSL-4 PPEs, short films, and questions/answers session. Dr. I delivered the lecture on 'Emerging Viral Infections' and participated in panel discussion.
- Workshop on strengthening national capacity on prevention, detection, and response to biological hazards and emergencies, 20-26th July 2019 at ICMR-NIV, Pune.

- Workshop on laboratory preparedness and response for handling and detection of high-risk pathogens from 13th to 17th August 2019 at ICMR- NIV, Pune
- Half day workshop on 'Steps for preparedness of the country to deal with high-risk pathogens, Nipah an example, 16th August 2019 at ICMR-NIV, Pune.
- Advanced Auditor's Training, during 25-29 March 2019 & Mock-up Audit Exercise, 1-5 April 2019 organized by WHO at ICMR-NIV, Pune
- Workshop on "Biosafety and Biosecurity in the context of Emerging Infections", December 3-7, 2018, was conducted by ICMR-NIV, Pune. In the workshop, 10 laboratories (including 5 Regional VRDLs and 5 State VRDLs) across the country have participated. A total of 20 participants (including clinical microbiologists, scientists, and technical team members) from these laboratories and an international delegate from Bhutan attended the workshop. Dr. Allan Levesque, Director FHI 360 had visited BSL-4 facility of ICMR-NIV, Pune for the pre-site assessment audit related laboratory preparedness for Nipah Clinical trial from 10th to 11th Oct 2019.
- Conducted "Hands-on training for diagnosis of KFD Virus by molecular and serological methods" from 17th to 21st December for two technical staffs from ICMR-NIV, Bangalore Unit.
- Organize a meeting on 'Setting up network in the Pune city for handling emerging and re-emerging infections of high-risk origin' on 24th January 2019. Meeting was attended by all the stakeholders from Joint Director Office of Maharashtra state, State Surveillance Department, Medical Officers of Health from the Municipal corporations of Pune and Pimpri Chinchwad and deans of private and government medical colleges. A road map for the preparedness of the hospital was planned in a phase wise manner.
- ICMR-NIV, Pune conducted a meeting with Dr. Tran Minh Nhu Nguyen, Team Leader, Health Security and Emergency Response, WHO Country Office for India on 11th November 2019 for briefing the activities and research conducted at ICMR-NIV, Pune.
- Workshop on Good Clinical Laboratory Practices (GCLP) Viral Research and Diagnostic Laboratory (VRDL) Network ICMR, DHR, New Delhi, India organized by ICMR Headquarters, New Delhi Dates: 8th to 10th January 2020. On the request of ICMR three presentations were prepared and shared for using as resource material
 - ✓ Laboratory kits, reagents, and materials (Review of requests, Purchasing Services, Supplies, Service to the customer, Complaints)
 - ✓ Safety in laboratories: General safety measures, Biosafety Precautions,
 - ✓ Levels of Biosafety Laboratories (BSL) 3. Management of spills in laboratory (Major, Minor spills)
- Involved in validation of LAMP assay for KFD and anti-CCHF ELISA assays with DRDE team headed by Dr. P.K. Dash, Sci. F, Head, Virology Division, Dr. Jyoti S. Kumar, Sci.E and Ms. Neha Shrivastava, SRF during 19-20 December 2018.
- Workshop organized by WHO on Biosafety & Biosecurity in the context of Emerging Infectious Diseases during 3rd – 7th December 2018 at ICMR-NIV Campus, Pashan, Pune
- BSL-4 expert committee meeting with Lt. Gen. (Retd.) Dr. D. Raghunath organized during 14th-15th November 2018 at BSL4 facility, ICMR-NIV, Pune
- Organized a NGS training for BSL-4 laboratory staff given by CDC Officials during 17-25 September 2018 at BSL-4 facility, ICMR-NIV, Pune
- Organized a meeting of Principle Investigators of VHF/RI centers under GHSA-CDC Project of ICMR-NIV, Pune on 14th September 2018 at Hotel Crown Plaza, Pune
- Establishment of Biosafety Level-3 Laboratory' for the officers of Ministry of Health and Medical Research Institute of Sri Lanka during 13th to 15th of August 2018 at ICMR-NIV, Pune.
- Attended the 'International Consultation on Research to Combat Nipah Virus Disease" from 6th to 8th August 2018 at ICMR-HQ, New Delhi.
- Organized NGS training to BSL-4 group staff by CDC officials during 17-27 August 2018 at BSL-4 facility, MCC, ICMR-NIV, Pune
- Annual Review Meeting of CDC-GHSA project organized on 14th Sept. 2018 at Hotel Crown Plaza, Pune.
- BSL-4 expert committee members' meeting organized on 25th May 2018 at BSL-4 facility, MCC, ICMR-NIV, Pune.
- Training & Laboratory setup for diagnosis of Nipah virus by real-time RT-PCR at Alapuzzha, NIV, Kerala Unit during 24th – 31st May 2018.

- Workshop on Crimean “Congo Hemorrhagic Fever and Biorisk mitigation in handling infectious materials in laboratories and hospital settings” organized by NIV, Pune at Department of Microbiology, Sawai Man-Singh Medical College, Jaipur during 7th to 10th May 2018.
- Meeting of BSL-4 Engineering Experts to certify the reports for Re-validation of BSL-4 laboratory which was performed in 2017-18 held at BSL-4 facility, MCC, Pashan, Pune on 25th April 2018.
- Training on Outbreak Investigation and Outbreak Case Discussion at Seminar Hall, MCC on 12th Jan 2018
- Workshop on Biorisk management in Laboratory, hospital & field settings at Sindhudurg, Maharashtra on 30th - 31st October 2017
- DHR NIV Conference on Virology at NIV, Pune on 26th - 27th October 2017
- Annual Review meeting of PI and Co-PI of CDC Project VHF and RI centers in India. Venue Hotel O, Pune on 19th September 2017
- Annual meeting of PIs of VHF and RI centres of NIV CDC Project network to take review of progress of network centres at Hotel Lords Plaza, Jaipur (Hosted by SMS Medical College, Jaipur) 9th – 10th March 2017.
- Epi info software Training for GHSA, NIV partners at Hotel JW Marriott, Pune during 16th - 19th January 2017

➤ **National/ International conferences/Seminars etc. attended as an invited speaker detail**

- Delivered a talk in the webinar conducted Manipal Institute of Virology (MIV), Karnataka, to commemorate "World Zoonoses Day 2023" on 7th July 2023.
- The Vaccines World Summit & Great Indian Biologics Festival 2023 [Public health expert], Centre for Cellular and Molecular Platforms (C-CAMP), Bangalore, Karnataka at Hotel Tiptop International, Pune on March 28, 2023.
- The meeting on WHO TPPs for mpox IVDs as [Public health expert], WHO, Geneva, Virtually attended from ICMR-NIV, Pune on March 29, 2023.
- Webinar on "How India's G20 presidency is aiming for better management of future health emergencies through JHFTF" [Public health expert], Ministry of Health and Family Welfare, Government of India, Virtually attended from ICMR-NIV, Pune on March 28, 2023.
- National Consultative meeting at the TIFAC TECHNOLOGY VISION 2047. [Invited speaker] Banaras Hindu University, Varanasi, Uttar Pradesh on March 20, 2023.
- The meeting for the assistance to Ministry of Health, Maldives- Review of plans for the establishment of the National Health Laboratory [Technical expert], Ministry of Health, Maldives, Virtually attended from ICMR-NIV, Pune on March 17, 2023,
- The meeting of the South-East Asia Regional GOARN (Global Outbreak Alert and Response Network) Partners, in Kathmandu, Nepal [Technical expert], WHO South-East Asia Regional Office, New Delhi on March 15, 2023.
- Topic: Vector-borne diseases during the Covid-19 pandemic: Global neglect of surveillance and control of VBDs [Invited speaker]. Topic: Arboviral diseases and their control [Chairperson] at ICMR-Vector Control Research Centre, Puducherry, virtually attended from ICMR-NIV, Pune on March 13, 2023.
- Topic: DD Dialogue on Women on 6th March, 2023 in connection with International Women's Day celebrations. Feature a panel of outstanding women who with their grit and determination have made a mark in public life and stand out as inspiration to women all over the country. [Invited Panelist], Doordarshan Bhavan, Copernicus Marg, New Delhi on March 6, 2023.
- Topic: Role of genomic surveillance in public health for novel pathogen discovery [Invited speaker]. Centre for Development of Advanced Computing, Pune on March 2, 2023.
- The experts' meeting on COVID care pathways supported by RDTs by WHO [Technical expert], WHO, Geneva, virtually attended from ICMR-NIV, Pune on February 27, 2023.
- Topic: Discussion on mRNA made in India [Invited panelist], Joint innovation with Wallonia Belgium, virtually attended from ICMR-NIV, Pune on February 25, 2023.
- Topic: Role of genomics in preparedness and tackling of virus outbreaks [Invited speaker]. National Institute of Mental Health and Neurosciences, Bangalore on February 24, 2023.
- Technical Symposium on Dengue under the Chairmanship of Union Secretary, Ministry of Health and Family Welfare, Government of India [Technical expert]. Ministry of Health and Family Welfare, Government of India on February 22, 2023.
- Topic: The status of vector borne high risk pathogens in India [Invited speaker]. Goa University, Taleigao Plateau, Goa on February 9, 2023.

- Workshop on Environmental Surveillance for One Health for interaction between implementers and researchers to understand needs and possibilities in national/state programs with different stakeholders [Workshop] Indian Institute of Science, Bangalore on February 9, 2023.
- Topic: Biological security: Emerging paradigm in post COVID era [Invited speaker] Centre for Land Warfare Studies (CLAWS), New Delhi, India on January 30, 2023.
- Topic: The efforts of India to make an indigenous vaccine for COVID-19 a booster for future research and development [Invited speaker]. AIIMS, Bhubaneswar virtually attended from ICMR-NIV, Pune on January 31, 2023.
- Topic: Role of biocontainment facility in high-risk pathogen surveillance and public health' [Invited speaker]. Department of Biochemistry, Dr. RML Avadh University Ayodhya, Uttar Pradesh on January 27, 2023.
- Webinar on "Scientific Writing" [Invited panelist] . Department of Publication Ethics, Savitribai Phule Pune University, Pune on December 28, 2022.
- Invited speaker on NIV's role in responding to Mpox and other zoonotic diseases" on the 19th December 2022 organized by SAID RISE – Jhpiego.
- Invited speaker on current scenario of Ticks, mites, and flies borne disease in India and Lab diagnosis of Zoonotic disease during WHO training course on "Vector Borne Diseases with emphasis on Mosquitoes, Ticks and Mites" at NCDC, Bangalore, 19th December 2022.
- Invited as a speaker for the session 'Emerging Viral Infections in the context of Climate change' in AMRITACON 2022 at Dec 2-3, 2022
- Invited Panelist in Panel I- Science - Epidemiology, Virology, Immunology. Product development and access for preventing HIV and other infections: Leveraging lessons from COVID-19. IAVI-India. Nov 29-30, 2022.
- Invited speaker on "Biosurveillance for the detection of Bioterrorism and Health emergencies". Defence Research & Development Establishment, Gwalior. Nov 16-18, 2022
- Dr. Pragya Yadav as a invited speaker participated and presented Immune response against Covaxin and Covishield vaccines studied in IUBMB focussed meeting on Biochemistry & Molecular Biology of RNA viruses' organized at Regional Centre for Biotechnology, Faridabad, India during 15th November, 2022.
- Invited talk on "STEM Engagement-Challenges in Biosciences". India-UK science Museums: STEM Engagement Dialogue. National Council of Science Museums, Ministry of Culture, Government of India. Nov 16, 2022.
- Nominated by Secretary DHR and DG ICMR as an expert on molecular diagnosis of high threat pathogens. Seventh World One Health Congress (WOHC). SingHealth Duke-NUS Global Health Institute (SDGHI) -, Singapore, Nov 7-11, 2022.
- Invited speaker on the topic "Lessons learnt from COVID-19 pandemic and way ahead". CME on 'Sawasthik Health Interaction Knowledge". TNMC and BYL Nair Hospital, Mumbai. Sep 24, 2022.
- Dr. Pragya Yadav as an invited speaker participated and presented Omicron - a Variant of Concern Change the Course of Pandemic in International Conference on Frontiers in Nutrition, Medical Genomics, and Drug Discovery (Inbix'22) to be held at the Department of Biotechnology, VFSTR on 31st October 2022 under the aegis of Bioclues.
- Invited speaker for the topic "COVID-19 vaccine booster urgency due to arrival of Omicron VOC. 14th Cytometry Society Annual Conference and Workshops 2022. University of Hyderabad. Oct 13-16, 2022
- Invited speaker on the topic "Monkeypox Outbreak: The Challenging Epidemiology and Diagnosis" and chaired the session on "Preparedness for handling emerging viral infection under One Health". National Level Conference on Emerging Viral Infection Challenges [EVIRCON 2022]. GMC Srinagar. Oct 10-12, 2022
- Invited speaker on the topic "Role of ICMR-NIV Pune in management of monkeypox". CME on 'Monkeypox". Department of Community Medicine, LTMMC and GH Sion Hospital Mumbai, Oct 3, 2022
- Invited member of the Panel Discussion for two forums "Addressing vaccine preparedness for emerging and re-emerging diseases and future outbreaks" and "future of the COVID-19 vaccination for human population". India Vaccine Leaders' Conclave. BlueTech Media, Mumbai. Aug 25-26, 2022
- Invited to talk on the "Zoonotic Diseases in India with special reference to Rabies". The Virtual CME on 'Zoonotic Diseases in India with Special Reference to Rabies'. Department of Microbiology TNMC and BYL Nair Hospital, Mumbai. Sep 8, 2022
- Invited to talk on the "Experiences from the COVID-19 and Pandemic Preparedness". The workshop on the "Theme-Mission Rashmi" during 4th Foundation Day of ICMR-RMRC, Gorakhpur, Sep 2, 2022
- Invited to talk on the "Role of containment facility and regulation for shipment of clinical samples". Seminar cum Workshop on Biosafety and Biosecurity. VRDL, Microbiology Dept. AIIMS Jodhpur, Jul 29-30, 2022

- Invited to talk on the Historical Perspective and outbreak data of Monkeypox, the 56th AFMC Global town webinar conducted to discuss on the Global threat of Monkeypox, Aug 14, 2022
- Invited to talk on the Genomic Evolution of Monkeypox virus Citizen Forum India for the interactive discussion on Monkeypox. Citizen Forum India, Aug 13, 2022
- Invited to talk on the 'Monkeypox virus and laboratory diagnosis' The webinar on RAPID Updates on Monkeypox- The Roadmap, Government of Kerala, Aug 11, 2022
- Invited to talk on Reemerging orthopoxviruses, Global and Indian Scenario. New Molecular diagnostic tests & use of artificial intelligence in diagnosis of drug resistant tuberculosis & reemerging orthopoxviruses, global & Indian Scenario. HBT Medical College & Cooper Hospital, Mumbai. Aug 5, 2022
- Presented on the topic 'Expansion of ZVD infection detection [Current evidence from ICMR VDRs]. Expert Group Consultation Meeting on Zika Virus Disease Surveillance meeting. DGHS, Government of India. Jul 5, 2022
- Invited to talk on Introduction, Epidemiology, Case Definition Current Scenario of Monkeypox. Chapter on Monkeypox updates for health care and field workers. Naipunyam-4, Andhra Pradesh. June 18, 2022
- Communication during SARS-CoV-2 pandemic. Media training and crisis communication. Keylong, Himachal Pradesh. June 15-16, 2022
- Presentation of Development of Covaxin. NAAS 29th annual general Body meeting. New Delhi. June 4-5, 2022
- WHO Monkeypox Research: What are the knowledge gaps and priority research questions? Online webinar on WHO Monkeypox Research: What are the knowledge gaps and priority research questions? World Health Organization. June 2-3, 2022
- Online webinar on State Workshop on Nipah- Kerala experiences and learning's. Government of Kerala. May 12, 2022
- Development of Vaccine and challenges of Variant of concern [Invited speaker]. International conference on 'Coronaviruses- Past, Present and Future'. Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), Srinagar. May 10-11, 2022
- Online interview with India Science Channel on Covid-19 for a weekly series 'Corona Ko Harana Hai'. Corona Ko Harana Hai'. Vigyan Prasar (VP) is an autonomous organization of the Department of Science and Technology, Govt. of India. May 4, 2022
- Guest lecture on the "Making of Covaxin –Story of Indian vaccine against Covid-19". Two days workshop of the Integrated Disease Surveillance Program (IDSP) of Maharashtra. Yashwantrao Chavan Academy of Development Administration (YASHDA), Pune. May 5, 2022
- Importance of WGS in Infectious diseases [Invited speaker]. Whole genome Sequencing Symposium and Workshop. Kasturba Hospital for Infectious Disease, Mumbai, and American Society for Microbiology. Apr 26-28, 2022
- WHO COVID-19 Animal Models group call. World Health Organization. Apr 12, 2022
- Guest speaker in the international conference to deliver a talk on "The Outbreak of High-risk Pathogens and it Challenges during the COVID-19 Pandemic and its Lessons. Keystone Symposia on Molecular and Cellular Biology. Virtual. Apr 11, 2022
- Guest speaker on the topic Impact of Omicron and booster vaccination. National Conference of COVID-19 Pandemic on Public Life and future. MAA Research Foundation Hyderabad. Mar 26-27, 2022.
- Invited Speaker on "Lab diagnosis of CCHF". National Centre for Disease Control (NCDC) and SMS Medical College Jaipur. Mar 29, 2022
- Invited guest speaker to deliver lecture "India efforts towards Covaxin Development and the Variant of concern Challenges". Medical Symposium Theme COVID-19 Pandemic. National Conference of Virology (Virocon 2021) from AIIMS Bibinagar Hyderabad. Mar 26, 2022
- Variant of Concern and its challenges during COVID-19 pandemic. Dept of Science and Technology. Gov. of Gujarat. Mar 24, 2022
- Facilitated the full day session to cover the training Module #3: Biohazards and Laboratory Preparedness for Public Health Safety on the topics covered were Role of laboratories in Outbreaks and Pandemic, Sample Shipment, Emergency Action Plan, and demonstration sessions on Sample packaging, Fire drills, CPR, etc. ICMR Pandemic Preparedness Program. Mar 22, 2022.
- Women and science the unending journey. Kirori Mal College and National Service Scheme, New Delhi. Mar 10, 2022
- Development of indigenous COVID-19 vaccines in India. Women in leadership: achieving an equal future in a COVID 19 world, Celebration of International Women's Day. ICMR-RMRC, Gorakhpur, UP. Mar 08, 2022

- Development of indigenous COVID-19 vaccines in India. Women Scientist at the Forefront of Fight against COVID-19, Celebration of International Women's Day. Indian Bureau of Mines, Nagpur, Maharashtra. Mar 08, 2022
- WHO COVID-19 Animal Models group call. World Health Organization. Mar 3-10, 2022
- Delivered a lecture on Implementation of Research during Health Emergencies. ICMR Pandemic Preparedness Program. Feb 24-25, 2022
- COVID-19 vaccines research: What recent evidence do we have that omicron is evading immunity and what are the implications. World Health Organization. Feb 8, 2022
- WHO R&D Blueprint consultation - COVID-19 Global research and innovation forum. World Health Organization. Feb 2, 2022
- WHO webinar on the update on SARS-CoV-2 VOC Omicron. World Health Organization. Feb 1, 2022
- WHO COVID-19 vaccines research: Why do we need a pan-sarbecovirus vaccine. World Health Organization. Jan 28, 2022
- WHO COVID-19 Animal Models group call. World Health Organization. Jan 27, 2022
- Meeting for the WHO Consultation. COVID-19 new variants – knowledge gaps and research priorities. World Health Organization. Jan 12, 2021
- Invited for the talk on the "Lessons learned from COVID-19 Pandemic and Epidemic Preparedness. Symposium on New Dimensions in Health Research with Focus on emerging and Re-emerging infections and Pandemic Preparedness. ICMR-RMRC, Gorakhpur. Dec 8, 2021
- Invited as a panelist and jury on "Research Scenario in India: Issues and Challenges" in the 3rd National Biomedical Research Competition-2021, AIIMS, Rishikesh, in collaboration with JNU-Delhi, PGI-Chandigarh, NIPER-Mohali, CDRI-Lucknow, IITR-Lucknow, and AIIMS-Jodhpur. Dec 6-10, 2021
- Award of Honor to the COVID-19 Frontline Warrior' for her outstanding work and scientific contributions towards prevention and control of COVID-19 pandemic, vaccine development and other scientific/research aspects related to SARS-CoV-2 during the pandemic. 91st Annual Session and Symposium on Interface between Biological and Physical sciences towards Atmanirbhar Bharat. Academy of Sciences, India (NASI). Dec 4, 2021
- Oration speaker on Immunogenicity and protective efficacy of inactivated SARS-CoV-2 vaccine candidate, BBV152 in rhesus macaques. 61st Annual Conference of National Academy of Medical Sciences at the Banaras Hindu University. Nov 28, 2021
- WHO Regional meeting 'Learning from the COVID-19 response to strengthen health security and health systems resilience in South-East Asia Region. World Health Organization. Oct 21, 2021
- Jury Member for 3rd National Biomedical Research Competition, 2021 organized by AIIMS-Rishikesh, JNU-Delhi, PGIMER-Chandigarh, NIPER-Mohali, CDRI-Lucknow, IITR-Lucknow, and AIIMS-Jodhpur under the aegis of Society of Young Biomedical Scientists, India from 6 to 10 December 2021, on virtual platform.
- Panelist and delivered lecture on SARS-CoV-2 virus and immune response to vaccination. SIRCON 2021-Virtually Conference. Oct 2, 2021
- Participated as panelists in Panel discussion on COVID-19 in the Annual Conference of Neuropathology Society of India (NPSICON 2021) with the Asian Oceanian Society of Neuropathology for the first time in India. NIMHANS, Bangalore. Sept 24, 2021
- Chair a complete session on development of vaccine candidates and was invited speaker on the 'Development of an inactivated SARS-CoV-2 vaccine candidate BBV152 and its response towards variant of concern'. International Vaccine Summit, USA. Sep 20, 2021
- Online Training Program of Assessors for certification of BSL-3 laboratories ICMR-Headquarters, New Delhi. Sep 14, 2021
- Invited speaker and presented the topic "Nipah virus infection and R&D in India". CEPI Task Force on Nipah Standards, Assays & Animal Models. Sep 7, 2021
- Invited speaker presented the topic 'An indigenous vaccine to fight with COVID pandemic and challenges. Centenary year celebration of BYL Nair Hospital on COVID-19 Disease. BYL Nair Hospital, Mumbai. Aug 31, 2021
- Invited speaker in the Global Consultation of and presented the topic "SARS-CoV-2 Delta variant pathogenesis and host response". WHO virus Evolution Working group. Aug 16, 2021
- Invited speaker on the topic "SARS-CoV-2 Delta variant pathogenesis in Syrian hamsters and host response. WHO Global Consultation on vaccine boost. Aug 13, 2021
- Invited speaker to present the topic "SARS-CoV-2 Delta variant pathogenesis and host response". WHO Animal Models group call. Aug 5, 2021

- Delivered a talk on “Dr. K.M.Bhansali Oration”. Annual conference. Indian Association of Occupational Health. Jul 12, 2021
- “The struggle of Indian scientific community to handle existing Zoonotic viral diseases and fight against SARS-CoV-2 Pandemic and lessons for the future”. Expert talk in the Webinar on World Zoonoses Day. ICAR-National Research Centre on Equines, Hisar (India) in collaboration with Indian Virological Society and National Centre for Disease Control New Delhi. Jul 6, 2021
- Immune response to emerging variants-human and animal models as well” as on “Research to accelerate EUA for vaccine candidates in the pipeline, including animal models to identify correlates of protection. Teleconference on INDO-U.S. Vaccine Action Program Consultation on Opportunities for SARS-CoV-2 Research Collaboration. DBT and ICMR. May 19, 2021
- Virtual seminar with the WHO collaborating centers conducted by the WHO Director-General. Quality Assurance, Norms and Standards. World Health Organization. Dec 16, 2020
- Delivered a talk on Bat derived pathogens and their presence in India. IVS International Conference on “Evolution of Viruses and Viral Diseases” - Virocon 2020. Feb 2020
- Invited speaker in SESSION 3 - Progress and challenges in surveillance which was moderated by Dr. Peter Daszak, EcoHealth under the title Survey of Pteropus bats during Nipah outbreak in India revealed its association. Nipah Virus International Conference. Coalition for Epidemic Preparedness Innovations (CEPI). Singapore. Dec 9-10, 2019
- Attended 2nd meeting of the RESEARCH Platform: Developing joint research proposals. RESEARCH Platform, ICMR, New Delhi Dec 3-4, 2019
- “Current scenario of outbreak of Crimean Congo Hemorrhagic Fever in Gujarat and Rajasthan state 2019”. Joint Monitoring Group of Ministry of Health and Family welfare on emerging and re-emerging diseases under the Chairmanship of Director General of Health Services, Govt of India. Nirman Bhavan, New Delhi. Dec 2, 2019
- Attended the 2nd NAC meeting for debriefing and the management of PEF at as per GAP-III guidelines. Polio Essential facility meeting. ICMR-NIV, Pune. Nov 27, 2019.
- Live Phone out Program, to discuss about the COVID-19 vaccines and SARS-CoV-2 variants on Jeet Jayenge Hum. FM 101.6, Oct 30, 2021.
- Research on KFD primate studies, KFD follow up diagnostic algorithm and KFD PoC development. Workshop on “National consultation on Kyasanur Forest Disease” Karnataka IDSP and NCDC New Delhi and Funded by World Health Organization. Ashok Lalit Hotel, Bangalore. Aug 20-21, 2019
- Research priorities for Nipah Virus Disease in India at Imperial Hotel, Connaught Place, International Consultation on Research to Combat Nipah Virus Disease participated in preparing R&D road map for Nipah. ICMR-HQ, New Delhi with support of World Health Organization. Aug 16-18, 2019.
- Setting up of the field laboratory during Nipah outbreak”. Half Day workshop on Steps for the preparedness and response for high-risk pathogens- Nipah, an example. ICMR-NIV, Pune. Aug 6, 2019
- Nipah POC validation and laboratory testing protocols for Nipah RCT’. The National Institute of Allergy and Infectious Diseases (NIAID) -ICMR-World Health Organization Nipah Clinical Trial Workshop. ICMR-HQ, New Delhi. May 7-9, 2019
- The implementation of Nipah Clinical Trial. Regional consultation meeting. IEDCR Dhaka. Sep 24-26, 2019
- Nipah outbreak in India and Ebola outbreak and its preparedness. Joint Monitoring Group (JMG) under the Chairmanship of Director General of Health Services, Govt of India. Ministry of Health and Family welfare, New Delhi. May 7, 2019
- Delivered talk on the Biosafety, Biocontainment, and role of ICMR for the diagnosis of Viral Diseases in India. Subject Matter Expert Exchange (SMEE) on clinical lab and Bio-preparedness 2019. Armed Forces Medical Sciences, Dhaka Bangladesh. Aug 4-7, 2019
- ‘Virology and society’. A half-day ‘Public health lectures. Nehru Memorial Hall, Pune. Oct 8, 2019
- ‘Emerging Viral Infections’. An Open Day Event. BSL-4 Facility, ICMR-NIV, Pune. Oct 9, 2019
- Strengthening national capacity on prevention, detection, and response to biological hazards and emergencies, for participants from Medical Research Institute, Sri Lanka. ICMR-NIV, Pune. Jul 20-26, 2019
- In view of the current situation of emerging viral infections and the recent outbreak of Nipah virus in Kerala. Workshop on laboratory preparedness and response for handling and detection of high-risk pathogens. ICMR- NIV, Pune. Aug 13-17, 2019
- Mock-up Audit Exercise. Advanced Auditor’s Training. ICMR-NIV, Pune with support of World Health Organization. Mar 5-9, 2019

- KFD- PoC, primate study and follow up study on KFD cases along with Biosafety and Biosecurity concerns in KFD including present status and challenges. Workshop on “National consultation on Kyasanur Forest Disease” Ashok Lalit Hotel, Bangalore. Aug 20-21, 2019
- Emerging Viral Infections. India International Science Festival (IISF): 2019 Outreach Program. ICMR- NIV, Pune. Oct 18, 2019
- Trainers for Rapid Response teams on preparedness and response to Ebola Virus Disease. Preparedness and response to Ebola Virus Disease from 14th to 16th Nov 2019 at Westin Hostel, Pune, Maharashtra. (Number of participants-30). Ministry of Health and family Welfare, Government of India. Westin Hostel. Nov 14-16, 2019
- Steps for preparedness of the country to deal with high-risk pathogens, Nipah an example’ for the increasing the awareness and preparedness for handling and detection of high-risk pathogens. A half-day workshop was organized for participants from various Government medical colleges and hospitals in Pune and Mumbai, Maharashtra state health officials and scientists from ICMR-NIV, Pune. Also, all the VRDL centers countrywide and ICMR-NIV field units in Mumbai, Bangalore, and Kerala. Aug 16, 2019
- Research priorities for Nipah Virus Disease in India. Workshop on International Consultation on Research to Combat Nipah Virus Disease. Indian Council of Medical research and World Health Organization. Imperial Hotel, Connaught Place, New Delhi, India. Aug 6-8, 2018
- Next-generation sequencing platform involved in the Novel viral discovery and genomic signature identification for Novel vector-borne /zoonotic viral infections and important as high-risk group category and its use for future preparedness’. 14th International Conference on Vector and Vector borne Diseases (ICOV-14). Bhubaneswar, Odissa, India. Jan 9-11, 2019
- Emerging and re-emerging viral diseases in India. Biosafety & Biosecurity in the context of Emerging Infectious Diseases. ICMR-NIV, Pune. Dec 3-7, 2018
- High Risk pathogens in India. 42nd Annual Conference of Indian Association of Medical Microbiologists (Microcon-2018). NIMHANS Convention Centre, Bengaluru. Nov 28-30, 2018
- Lessons learned from Nipah outbreak. 27th International conference of the Indian Virological Society (Intervirocon-2018). PGIMER, Chandigarh. Nov 10-14, 2018
- Self assessment of Biosafety in the laboratory. Workshop on Establishment of Biosafety Level- 3 Laboratory’ for the officers of the Ministry of Health and Medical Research Institute of Sri Lanka. ICMR-NIV, Pune. Aug 13-15, 2018
- Emerging and re-emerging viral diseases in India. Workshop on Crimean “Congo Hemorrhagic Fever and Bio-risk mitigation in handling infectious materials in laboratories and hospital settings. Sawai Man-Singh Medical College, Jaipur, Rajasthan, India. May 7-10, 2018
- Role of Women Scientist in implementation of the research in India. Program on Integrated Scientific Project Management for Women Scientists/Technologists. Centre for Organization Development (COD), Hyderabad, India. Jan 29-Feb 2, 2018
- ‘Yellow Fever antigen capture ELISA’ & ‘Indigenously developed ELISA Kits for diseases of public health importance’. DHR & NIV Conference on Virology. ICMR-NIV, Pune. Oct 26-27, 2017
- ‘CCHF epidemiology in India’ in the ‘2nd International Conference on Crimean-Congo Hemorrhagic Fever’. Department of Microbiology, Medical School, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece. Sep 10-12, 2017
- “KFD and Indian Scenario”. Biorisk management in Laboratory, hospital & field settings IDSP and Health officers Sindhudurg, Maharashtra. Oct 30-31, 2017
- Current Scenario of KFD in India. XII Joint Annual Conference of ISMOCD & IAE. Innovate, Empower and Share: Combat Communicable Diseases. AFMC, Pune. Sep 1, 2017
- ‘Role of translation research in diagnosis of Zoonotic diseases and its impact on public health of India. 13th Conference on Vectors and Vector Borne Diseases. Central University, Chennai, Tamil Nadu (CUTN). Feb 26 – Mar 1, 2017.

Faculty Member for M.Sc. virology students on the following topics:

- Replication of Bunyaviruses
- Replication of Single strand RNA viruses
- Replication of ambisense RNA viruses
- Replication of Bacteriophage lamda
- Bacteriophage lamda and cloning and expression.
- Kyasanur Forest Diseases virus
- Crimean Congo hemorrhagic fever virus
- Overview of Tick-borne encephalitis.

Biosafety Module:

1. **Concepts of biosafety & biosecurity-3** [Risk & Hazard Assessment, Factors associated with a risk, Pre-requisites for assessing risk, Main parameters of Risk Assessment, Behavioral Elements etc.]
2. **Concepts of biosafety & biosecurity-4** [Primary Barriers, Respiratory protection (N95, PAPR), Laboratory specific requirement, Fit testing required through Employee Health, Secondary Barriers, isolated zone, Double-door entry, negative pressure with different zoning and BSC]

Names, address, and area of specialization of 15 Distinguished/Renowned Scientists

Sr. no.	Name	Complete Address (With designation & department)	Specialization	Email address
1.	Prof. (Dr.) Balram Bhargava	Chief, Cardio-Thoracic Sciences Centre All India Institute of Medical Sciences, New Delhi	Cardiologist, Virology, Clinical Research, Product development, Technology, Policy, Drug/ vaccine intervention	balrambhargava@yahoo.com
2.	Dr. V. K. Paul	Member, NITI Aayog	Medical scientist and a public health exponent	vinodk.paul@gov.in
3.	Dr. V.M. Katoch	President, Jawaharlal Institute of Postgraduate Medical Education and Research, JIPMER Campus Rd, Gorimedu, Dhanvantari Nagar, Puducherry, 605006.	Microbiology	vishwamohan_katoch@yahoo.co.in
4.	Dr. Soumya Swaminathan	Former Chief Scientist at the World Health Organization	Pediatrician and clinical scientist	soumya.s@nic.in, doctorsoumya@yahoo.com
5.	Dr. Raman Gangakhedkar	Former Head, Epidemiology and Communicable Diseases, Indian Council of Medical Research, V. Ramalingaswami Bhawan, P.O. Box No. 4911 Ansari Nagar, New Delhi - 110029, India	Epidemiology	rrg7@rediffmail.com
6.	Lt. Gen. (Dr.) Velu Nair	Consultant- Haemato Oncology & Bone Marrow Transplant, Block A, 1A, Bhat GIDC Industrial Estate, Gandhinagar - 382428, Gujarat, India	Haemato Oncology & Bone Marrow Transplant	nairvelu2000@yahoo.com
7.	Dr. Narinder Mehra	Honorary Emeritus Scientist of Indian Council of Medical Research and Former Dean (Res) and National chair at All India Institute of Medical Sciences, New Delhi	Immunology	narin.mehra@gmail.com
8.	Lt. Gen. Raghunath	Formerly Director General, Armed Forces Medical Services, Karnataka	Microbiology	dasarathyraghunath@gmail.com
9.	Lt. Gen Madhuri Kanitkar	Vice-chancellor, Maharashtra University of Health Sciences (MUHS)	Pediatrician	vc@muhs.ac.in
10.	Dr. D.T. Mourya	ICMR- Chair for Virology and Zoonoses, ICMR- National Institute of Virology, Pune, Maharashtra, India. Pin 411021	Virology, Biocontainment and Vector biology	dtmourya@gmail.com
11.	Dr. Manoj Murhekar	Director, National Institute of Epidemiology, Chennai, India	Epidemiology & Public Health	mmurhekar@gmail.com
12.	Dr. V Ravi	National Institute of Mental Health and Neurosciences (NIMHANS),	Neurovirology	virusravi@gmail.com

		Hosur Road / Marigowda Road, (Lakkasandra, Wilson Garden), Bangalore-560029, Karnataka, India.		
13.	Dr. Amita Jain	Professor & Head, Department of Microbiology, King George's Medical University, Shah Mina Rd, Chowk, Lucknow, Uttar Pradesh 226003, India	Tuberculosis, Clinical Microbiology, Virology	amita602002@yahoo.com
14.	Dr. Cesar Albarino	Viral Special Pathogens Branch, Division of High-Consequence Pathogens and Pathology, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA, USA.	Virology and Biocontainment	bwu4@cdc.gov
15.	Dr. A.C. Mishra	Director, Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth Educational Campus, Pune -411 043 Maharashtra, India	Virology and Vector biology	acm1750@gmail.com