

COVID-19 BIOBANK

Background

In the backdrop of the COVID-19 pandemic, while it is of paramount importance to provide early diagnosis and treatment to all infected individuals, it is also critical to promote research and development for larger public health benefit. For development and validation of new diagnostics, therapeutics or vaccines, access to different kinds of clinical samples from infected patients is an essential requirement. COVID-19 biosamples are very important resource for research & development for diagnostics, therapeutics and in vaccine development.

National Liver Disease Biobank (NLDB) at Institute of Liver & Biliary Sciences, New Delhi have been identified by Govt. of India for collecting, storing and maintaining clinical samples (oropharyngeal/ nasopharyngeal swabs, bronchoalveolar lavage, sputum, blood, urine and stool) of COVID-19 patients. In addition, NLDB is also authorised to share the samples with academia, industry and commercial entities involved in development of diagnostics, therapeutics, vaccines etc., after scrutinising the purpose of the request and ensuring benefit to the country.

The COVID-19 biobank at NLDB is an open facility for the researchers across India as per the notification of the Government of India, Ministry of Home Affairs order no. “40-3/2020-DM-I (A) dated 21.03.2020”. The biosamples will be shared with researchers as per Niti Aayog guidelines (<https://niti.gov.in/sites/default/files/2020-04/Guidelines-for-sharing-of-Biospecimen-and-data-for-research-related-toCOVID-19..pdf>) to conduct research to better understand the COVID-19 disease.

Types of available samples

1. Oropharyngeal swab / throat swab
2. Nasopharyngeal swab / nasal swab
3. Bronchoalveolar lavage
4. Sputum
5. Blood
6. Urine
7. Stool

Limited number of samples from COVID19 negative patients may also be collected and stored for comparative analysis.

Objectives

- ❖ To establish organized and dedicated bio-repositories of well characterized clinical samples of COVID-19 patients.
- ❖ To judiciously use these samples to promote research and development towards indigenous diagnostics, therapeutics and vaccines in line with the “Make in India” initiative.
- ❖ To promote Indian academia, industry and commercial entities for developing novel solutions for COVID-19 prevention, control and treatment.
- ❖ To conduct research to better understand the COVID-19 disease in the Indian scenario.

Designated Biorepositories for COVID19 in INDIA

SNo	Name of the Institute	Name of contact
	ICMR Institutes	
1	ICMR-NIV, Pune	Dr Priya Abraham, Director Indian Council of Medical Research National Institute of Virology (ICMR-NIV) 20-A, Dr Ambedkar Road, Pune 411001 Telephone: 020-26006201 Email: director.niv@icmr.gov.in
2	ICMR-NIV Field Unit, Bangalore	Dr Ashok M Scientist B & Director-in-Charge Field Unit, NIV Bangalore ICMR-National Institute of Virology (NIV), Bangalore Unit, 1st main, Someswarnagar (RGICD Premises) Dharmaram College (Post), Bengaluru-560029 Telephone: 080-26654084/26654074 Email: ashokmphdns@gmail.com
3	ICMR-NIV Field Unit, Allapuzha, Kerala	Dr. A.P. Sugunan Director In Charge Field Unit Kerala, Vandanam Hospital campus, NIV Allapuzzha, Kerala -688005 Telephone: 0477-2970004 Email: apsugunan@gmail.com
4	ICMR-NICED, Kolkata	Dr. Shanta Dutta, Director, National Institute of Cholera and Enteric Diseases (NICED), P-33, CIT Rd, Subhas Sarobar Park, Phool Bagan, Beliaghata, Kolkata, West Bengal 700010 Telephone: 033-2363-3373 Email: drshantadutta@gmail.com
5	ICMR NIOH, Ahmedabad	Dr. Kamalesh Sarkar, Director, National Institute of Occupational Health (NIOH) Near Raksha Shakti University, Meghaninagar, Ahmedabad, Gujarat 380016 Telephone: 079-22686110 Email: kamalesh.sarkar@gmail.com
6	ICMR- NIIRNCD, Jodhpur	Dr. G S Toteja, Director, National Institute for Implementation Research on Non-Communicable Diseases (NIIRNCD)

		New Pali Rd, Air Force Area, Jodhpur, Rajasthan 342005 Telephone: 0291-2720618 Email: gstoteja@gmail.com
7	ICMR-NIMR, Delhi	Dr. Amit P Sharma, Director, National Institute of Malaria Research (NIMR) Sector 8 Dwarka, Dwarka, New Delhi, Delhi 110077 Telephone: 011-25307103 Email: directornimr@gmail.com
8	ICMR-NIE, Chennai	Dr. Manoj Murhekar, Director, National Institute of Epidemiology (NIE) R 127, 3rd Avenue, 2nd Main Rd, near Ambattur, Ayapakkam, Chennai, Tamil Nadu 600077 Telephone: 044-26136201 Email: mmurhekar@nieicmr.org.in
9	ICMR-NIRRH, Mumbai	Dr. Smita D Mahale, Director, National Institute for Research in Reproductive Health (NIRRH), J Merwanji St, Parel East, Parel, Mumbai, Maharashtra 400012 Telephone: 022-24192000 Email: smitamahale@hotmail.com
	DBT Institutes	
10	DBT-NCR Biotech Cluster (a) Clinical Sample – THSTI (b) Viral Sample – RCB	Dr. Gagandeep Kang, Executive Director Translational Health Science and Technology Institute, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurgaon Expressway PO Box#4, Faridabad, Haryana-120001 Phone <u>+91 129 2876400</u> Email: <u>gkang@thsti.res.in</u> Prof. Sudhanshu Vrat, Executive Director Regional Centre for Biotechnology NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurgaon Expressway Faridabad-121001 Phone: <u>0129-2848801</u> Email: <u>vrati@rcb.res.in</u>
11	DBT-ILS, Bhubaneswar	Dr. Ajay Parida, Director

		Institute of Life Sciences (Dept. of Biotechnology, Govt. of India) NALCO Square, Chandrasekarpur Bhubaneswar - 751023, India Ph: <u>+91-674-2301900</u> ; Fax: <u>+91-674-2300728</u> e-mail: director@ils.res.in
12	DBT – InSTEM – Bangalore	Dr. Apurva Sarin, Director Institute for Stem Cell Science and Regenerative Medicine, GVKK - Post Bellary Road, Bangalore 560065 Phone: 91 80 23666001 Email: sarina@instem.res.in
13	DBT funded Biorepository – ILBS, New Delhi	Dr. Shiv Kumar Sarin, Director Institute of Liver and Biliary Sciences D-1, Vasant Kunj, New Delhi Email: sksarin@ilbs.in
	CSIR Institutes	
14	CSIR – IGIB	Dr. Anurag Agrawal, Director, CSIR Institute of Genomics and Integrative Biology, Bus Depot, South Campus, Mathura Road, Opp:, Sukhdev Vihar, New Delhi 110025 Phone no:+91-11-2766 6156/7 Extn: 171 e-mail: a.agrawal@igib.in
15	CSIR – CCMB	Dr. Rakesh K Mishra, Director Centre for Cellular & Molecular Biology Habsiguda, Uppal Road Hyderabad - 500 007 Telangana, India Telephone: +91 40 27160222-31, Email: director@ccmb.res.in
16	CSIR - IMTECH	Dr. Sanjeev Khosla, Director CSIR - Institute of Microbial Technology 39A, Sector 39A, Chandigarh, 160036 Email: director@imtech.res.in

National Oversight Committee:

1. Dr. V. M. Katoch, NASI ICMR Chair on Public Health Research & RUHS, Jaipur, Chairperson
2. Dr. D. A. Gadkari, Former Director, NIV Pune, Member, co-Chair
3. Dr. Madhuri Thakar, Scientist F, NARI, Pune Member
4. Prof. Udaykumar Ranga, JNCASR, Bangalore, Member
5. Dr. Nikhil Tandon, AIIMS, New Delhi, Member
6. Dr. Lalit Dar, Professor, Virology, AIIMS, New Delhi
7. ICMR Nominee - Dr. Nivedita Gupta, Scientist F, ICMR Delhi, Member & Convenor
8. CSIR Nominee – Dr. Vibha Malhotra Sahni, Scientist – ‘H’, Member & Convenor
9. DBT Nominee - Dr. Sundeep Sarin, Adviser/Scientist – ‘G’, DBT, Member & Convener