

Cell Repository

NCCS has been operating as the National Cell Repository in India, facilitating the expansion, cryopreservation, and distribution of cell lines to researchers across academia, government, private research institutions, and industry. In the 2024-25 fiscal year, we provided 3,626 cell cultures to 2,190 users from 529 organizations nationwide. Additionally, we have supplied 88 cell cultures to scientists at NCCS. We have also distributed 243 litres of various cell culture media to in-house researchers during this period. Our services include cell line authentication using Short Tandem Repeat (STR) analysis and Mycoplasma testing, available to both internal and external scientists. We have actively encouraged scientists from NCCS and other institutions to deposit their newly developed or modified cell lines into our repository. We have received one cell line for deposition from NBRC, Manesar. Efforts are underway to establish primary cells/cell lines from human normal/cancer tissues.

We conducted two National hands-on training workshops on "Basic Cell Culture Technology." The workshop covered crucial cell culture practices, including maintenance, expansion, cryopreservation, revival, and other specialized techniques. The workshop trained early-career researchers, including PhD students, young faculty, and technical staff from academic and non-academic institutions across the country. Twenty-one individuals (16 PhD scholars, 3 faculty members, and 2 technical staff) from 22 below-mentioned institutions were selected to participate in the training organized from June 10 -13, 2024.

- Parul University, Vadodara
- Ramnarain Ruia Autonomous College, Mumbai
- Indian Institute of Technology (IIT), Palakkad
- Lovely Professional University, Phagwara
- Bennett University, Greater Noida
- Institute of Veterinary Biological Products, Pune
- University of Madras, Chennai
- Indian Institute of Technology (Indian School of Mines), Dhanbad
- Sinhgad Dental College and Hospital, Pune
- National Institute of Technology Arunachal Pradesh, Jote
- Bangalore Medical College and Research Institute (BMCRI), Bengaluru
- Shivaji University, Kolhapur
- University of Allahabad, Allahabad
- Manipal College of Pharmaceutical Sciences, Manipal
- Goa University, Goa
- Dr Vishwanath Karad MIT World Peace University, Pune
- Indian Institute of Technology, Roorkee
- Indian Institute of Technology (IIT) Madras, Chennai
- All India Institute of Medical Sciences, Mangalagiri
- Indian Institute of Technology, Gandhinagar

In the training workshop arranged from October 14 -17, 2024, twenty participants (17 PhD scholars, 1 faculty member, and 2 technical staff) from 17 institutes outlined below were selected for the training.

- BLDE Deemed University, Vijayapura
- Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pune
- Banasthali Vidyapith, Tonk
- Dr. Vishwanath Karad MIT World Peace University, Pune
- Guru Nanak college, Chennai
- Motilal Nehru National Institute of Technology, Allahabad
- SASTRA Deemed University, Thanjavur
- SRM University, Mangalagiri
- Nirma University, Ahmedabad
- Indian Institute of Science Education and Research (IISER), Berhampur
- Amity University, Mumbai
- Central Food Technological Research of India (CSIR-CFTRI), Mysore
- Shivaji University, Kolhapur
- National Institute of Pharmaceutical Education and Research (IISER), Lucknow
- Sanjivani Arts, Commerce and Science College, Gandhinagar
- Central India Institute of Medical Sciences (CIIMS), Nagpur
- Pondicherry University, Kalapet, Pondicherry
- Indian Institute of Technology (IIT), Roorkee
- CSIR-National Chemical Laboratory, Pune
- All India Institute of Medical Sciences (AIIMS), Raipur

We were also engaged in outreach programs, including the Global Bio-India 2024 (September 12-14, 2024 in New Delhi), India International Science Festival (IISF 2024) (November 30 to December 3, 2024 in Guwahati). Besides out-reach programs for pre-IISF Open Day on November 8, 2024 and National Science Day on February 28, 2025, we hosted visits for diverse group of students from following institutes to Cell Repository.

- Navsahyadri Institute of Pharmacy, Pune
- TNJFU Institute of Fisheries Biotechnology, Chennai
- ICAR-Indian Veterinary Research Institute (IVRI), Pune
- Vivekanand Education Society's College of Arts, Science, and Commerce, Mumbai
- Armed Forces Medical College, Pune

At these events, we highlighted the importance and applications of cell lines in research and provided information about the services offered by Cell Repository.