

DEPARTMENT OF BIOTECHNOLOGY

SUB: List of Biotech Facilities supported by Department of Biotechnology since 1986 onwards till October'2017

A. Biotech Facilities: The Biotech facilities are supported under the 'Task Force on Infrastructure', which has been renamed in 2012 as 'Task Force on Research Resources, Service Facilities and Platforms'.

The major facilities established are –

S. No.	Facilities Established	Name of the Institution	Year of Sanction
I	National Facilities		
1	Facility on Blue Green Algae	Indian Agricultural Research Institute, New Delhi	1986
2	National Facility for Plant Tissue Culture Repository (NFPTCR),	National Bureau of Plant Genetic Resources (NBPGR), Indian Agricultural Research Institute, New Delhi	1986
3	National Animal Tissue Culture Facility (now National centre for Cell Sciences)	University of Pune, Pune, Maharastra	1986
4	National Biochemical Engineering Research Centre	CSIR-Indian Institute of Microbial Technology, Chandigarh	
5	National Biotechnology Information System (BTIS)	Launched by Department of Biotechnology	1986
6	National Facility for oligonucleotide Synthesis was established at four regional sub-facilities	A. Indian Institute of Science, Bangalore; Karnataka B. CSIR Centre for Biochemicals (now Institute of Genomics and Integrative Biology), New Delhi, Delhi C. University of Delhi; Delhi D. Centre for Cellular and Molecular Biology, Hyderabad, Andhra Pradesh	1986
7	National facility for Production, Import and Distribution of Enzymes and Bio-chemicals	CSIR Centre for Bio-chemicals (now Institute of Genomics and Integrative Biology), New Delhi, Delhi	1986
8	Central Facilities for assembling	National Institute of Immunology (NII), New Delhi, Delhi	1986

	immunodiagnostic kits		
9	National Inhibitor Discovery Unit	International centre for Genetic Engineering and Biotechnology, New Delhi, Delhi	2010
II	Depository/Repository		
10	Repository for Medicinal and aromatic Plant	Central Institute for Medicinal and Aromatic Plants, Lucknow, Utter Pradesh	1997
11	Cryopreservation of Blood cells	Indian Institute of Heamatology, Mumbai, Maharastra	1997
12	Marine Cyanobacteria Facility	Bharathidasan University, Tiruchirappalli, Tamilandu	2002, 2007
13	Repository for Filarial Parasite and Reagents	Mahatma Gandhi Institute of Medical Sciences (MGIMS), Sevagram, Maharashtra	2003, 2007, 2012
14	Drosophilla Repository and Research Facility	Indian Institute of Technology, Kanpur, Utter Pradesh	2000-2005
15	Microbial Type Culture Collection/International Depository Authority	Institute of Microbial Technology, Chandigarh, Punjab	From 2000 ongoing
16	Drosophilla Stock centre	University of Culcutta, Kolkata, West Bengal	2004
III (17-22)	Animal House facility	A. National Institute of Nutrition (NIN), Hyderabad, Andhra Pradesh B. Central Drug Research Institute, Lucknow (CDRI), Utter Pradesh C. National Institute of Immunology (NII), New Delhi D. Translational Health Science and Technology Institute (THSTI), Fraidabad E. Indian Institute of Science (IISc), Bengaluru F. Indian Institute of Scientific Education and Research (IISER) – Knock Out and Transgenic Mice, Pune	1986-2008 2002-2007 2008 2013 2014 2016 2016
IV	Genomics and Proteomics Facility		
23	Proteomic facility	National Centre for Plant Genome Research, New Delhi	2005
24	Infrastructural support for clinical proteomics	All Indian Institute of Medical Sciences, New Delhi, Delhi	2005
25	Microcalorimetry facility	Jawaharlal Nehru University	2006
26	High Resolution Mass	Indian Institute of Bombay, Mumbai	2016

	Spectrometry Facility		
V	Structural Biology Facility		
27	Macromolecular Crystallography Facility	Bhabha Atomic Research Centre, Mumbai, Maharashtra	1997
28	X-ray facility for Structural Biology in association with Department of Science and Technology	Indian Institute of Science, Bangalore, Karnataka	2005
29	National Facility for high Field NMR	Tata Institute of Fundamental Research, Mumbai, Maharashtra	1997
30	700MHz NMR facility for Biological Research in association with Department of Science and Technology	Indian Institute of Science, Bangalore, Karnataka	2003
31	600MHz NMR facility for Biological Research	Indian Institute of Chemical Biology, Kolkata, West Bengal	2004
32	Structural Studies on Proteins and Nucleic acid Fragments	University of Madras, Chennai, Tamilnadu	2007
33	Macromolecular Crystallography	National Centre for Biological Sciences, Bengaluru, Karnataka	2013
34	700MHz NMR with Cryoprobe Facility	Bose Institute, Kolkata, West Bengal	2013
35-36	Synchrotron beam line for Macro-molecular crystallography	A. Access to Synchrotron beamline (BM14) at European Synchrotron Radiation Facility (ESRF), Grenoble, France B. Access to Synchrotron intense beamlines and SAXS at European Synchrotron Radiation Facility (ESRF), Grenoble, France	2009 2017
VI	Sequencing facility		
37	DNA sequencing facility	University of Delhi (South campus), New Delhi, Delhi	2000, 2002, 2005, 2010, 2014, 2017
38	State of the art Next generation sequencing facility	Centre for Cellular and Molecular Platforms, NCBS campus, Bengaluru, Karnataka	2013
VII (39-47)	Flowcytometry, Imaging and Microarray Facilities	A. Flowcytometry; All Indian Institute of Medical Sciences, New Delhi, Delhi B. Confocal Microscopy; Institute of Life Sciences, Bhubhaneswar,	2005 2005

		Odisha C. TEM & SEM; Banaras Hindu University, Varanasi, Uttar Pradesh D. Microarray Genetics and Cell imaging; Indian Institute of Technology, Kanpur E. Flowcytometer; Institute of Life Sciences, Bhubhaneswar, Odisha F. Microscopy and Flowcytometer; National Institute of Immunology, New Delhi, Delhi G. Magnetic Resonance Imaging (MRI), National Brain Research Centre, Manesar, Haryana H. Electron Microscopy Referral Facility, Govind Ballabh Pant Institute of Postgraduate Medical Education & Research, Delhi I. Cryo-Electron Microscopy facility (200Kv), Indian Institute of Sciences, Bengaluru	2005 2007 2007 2007 2004 2015 2017
VII I (48-49)	Transgenic Green House facility	A. Tamilnadu Agriculture University, Coimbatore, Tamilnadu B. University of Agriculture Sciences, Banglore, Karnataka	2004 2004
IX (50-52)	Containment Facilities	A. Phytotron; Indian Agricultural Research Institute (IARI), New Delhi, Delhi B. Aerosol; National Institute of Immunology, New Delhi, Delhi C. Tuberculosis Aerosol Challenge Facility, International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, Delhi	2005 2007 2016
X	Infrastructure Support for R&D		
53	Stable Isotope Discrimination Studies facility	University of Agricultural Sciences, Banglore, Karnataka	2000
54	Centre for Genetic Engineering and Strain Manipulation	Madurai Kamaraj University, Madurai, Tamilnadu	2002-2007 2007-2011
55	Programme support for Research in Health,	University of Delhi (South campus), New Delhi, Delhi	2001

	Transgenic Crops and microbial enzymes		
56	Advanced Biomedical Research facility	Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, Uttar Pradesh	2003
57	Programme support in Plant Biotechnology	Banglore University, Banglore	2002, 2007
58	Programme Support in high priority areas of Biology	Indian Institute of Science, Banglore, Karnataka	2002
59	Centre for conducting research and training in Liposome technology	Delhi University, South campus, New Delhi, Delhi	1996
60	Toxicological evaluation of genetically engineered products, development of products/guidelines for certification	Shriram Institute for Industrial Research, New Delhi, Delhi	2005
61	Bioinformatics Facility	Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana	2005
62	Automated DNA sequencing and Controlled Environment Plant Growth Chamber facility	National Centre for Plant Genome Research, New Delhi, Delhi	2006
63	P3 facility for studying dangerous pathogens w.r.t Anthrax	Jawaharlal Nehru University, New Delhi, Delhi	2007
64	Host Pathogen Biology Signalling Events and development of New Model Systems	Indian Institute of Science, Banglore, Karnataka	2007
65	High throughput Genomic Analysis in Human Complex Disorders	Jawaharlal Nehru University, New Delhi, Delhi	2007
66	Breeding by Design	University of Delhi, Delhi	2007
67	UoH-DBT Centre for Research and Education in Biology and Biotechnology	University of Hyderabad, Hyderabad, Telangana	2007
68	Infrastructure support for Basic Biological Research	Indian Institute of Science, Banglore, Karnataka	2007
69	Small molecule inhibitor	International centre for Genetic	2011

	discovery unit for Tuberculosis	Engineering and Biotechnology (ICGEB), New Delhi, Delhi	
70	DBT-JNU Training Facility	JawaharLal Nehru University, New Delhi, Delhi	2013
XI	Platforms		
71	DBT-ICRISAT Platform for Translational Research on Transgenic Crops	International Crops Research Institute for the Semi-arid Tropics, Hyderabad, Telangana	2008
72	Translational Research Platform for Veterinary Biologicals (TRPVB)	Tamilnadu Veterinary and Animal Sciences University	2011 2016 (extended for two years)
73	SRM-DBT Partnership Platform for contemporary Research, Services and Skill Development	School of Bio-engineering, SRM University, Kanchipuram	2015
	Diagnostics Facility/Laboratory		
74	Centre for Advance Research and Education in Diagnostics (CARE Daignostics)'	Indian Institute of Technology, Bombay, Mumbai	2017

II. DBT-Builder Programme: Since 2007, 'DBT-University Interdisciplinary School of Life Sciences for advanced research and education (DBT-ISLS) programme' was initiated for advanced education and research for the up gradation/reengineering/remodelling/creation of Life Science departments in central and state universities. The programme is now renamed from 2011 as 'DBT-Boost to University Interdisciplinary Departments of Life Sciences for Education and Research (DBT-BUILDER)'. This programme is merged in 'Research Resources, Service Facilities and Infrastructure' programme of DBT as per the recommendations of the external expert committee constituted for evaluation of DBT's Schemes/Programmes beyond 12th Plan from 6th September'2017 onwards.

S. No.	Year of Sanction	Universities supported
1	2007-08	University of Hyderabad, Hyderabad, Telangana
2-3	2009-10	A. Banaras Hindu University, Varanasi, Utter Pradesh B. Osmania University, Hyderabad, Telangana
4-9	2010-11	A. Maharaja Sayajirao university of Baroda, Baroda, Gujrat; B. Madurai Kamaraj University, Madurai, Tamilandu; C. University of Calcutta, Kolkata, West Bengal; D. Karnataka University, Dharwad, Karanatka; E. Pondiocherry University, Puducherry

		F. University of Rajasthan, Jaipur, Rajasthan
10-17	2011-12	A. University of Agricultural Sciences, Bengaluru, Karnataka; B. Maharishi Dayanand University, Rohtak, Haryana; C. Mahatama Gandhi University, Kottayam, Kerala; D. Punjabi University, Patiala, Punjab; E. Shivaji University, Kolhapur, Maharashtra; F. Jawaharlal Nehru University, New Delhi, Delhi; G. Patna University, Patna, Bihar H. Aligarh Muslim University, Aligarh, Utter Pradesh
18	2012-13	Barkatullah University, Bhopal, Madhya Pradesh
19-20	2013-14	A. Guru Ghasidas University, Bilaspur, Chhattisgarh B. Presidency University, Kolkata, West Bengal
21-23	2014-15	A. Anna University, Chennai, Tamilnadu; B. University of Madras, Chennai, Tamilnadu; C. Central University of Jharkhand, Ranchi, Jharkhand
24	2015-16	Kuvempu University, Shimoga, Karnataka
25	2017-18	Jawaharlal Nehru centre for Advanced Scientific Research