



सीएसआईआर-केन्द्रीय औषधि अनुसंधान संस्थान  
CSIR-CENTRAL DRUG RESEARCH INSTITUTE



वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्  
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

21-04-2026

## List of equipment purchased with the financial assistance of Department of Biotechnology

(List updated as on 21 April 2026)

Sl. No.	Sanction Letter No.	CDRI Project Code	Title of The Project	Project Leader	Start Date	Completion Date	Sanctioned Equipment
1.	BT/37/NE/TBP/2010	GAP0079	Isolation, Identification, Characterization and Bioactivity Assay of Anti-Diabetic Drug Leads from Few Selected Medicinal Plants of North East India: Voyage for Cure of Diabetes	Dr. Anil Nilkanth Gaikwad	01-04-2011	31-03-2014	a) Electroporation Machine b) Multichannel Pipettes c) STI Make Biosafety Cabinets
2.	BT/PR2007/MED/29/311/2011	GAP0089	Investigation of Effect of Polysaccharide in Modifying Leishmanicidal Potential of Nanoparticulate System Bearing Chemotherapeutic Agent	Dr. Manish Kumar Chourasia	01-10-2011	30-09-2014	a. High Speed Homogenizer b. Ultra sonicator
3.	BT/PR4021/MED/30/676/2011	GAP0102	To Study the Activation of Glial Cell in Chronic Hypertension (National Initiative on Glial Cell Research in Health and Disease)	Dr. Kashif Hanif	25-04-2012	26-03-2016	a. Upgradation of fluorescence microscope b. Surgical microscope with computer,
4.	BT/224/NE/TBP/2011	GAP0103	Enhancing Functional Repertoire of RNAPII in Normal and Cancer Cells	Dr. Md. Sohail Akhtar	01-05-2012	26-03-2016	a. Shaker Incubator b. PCR Machine
5.	BT/PR4016/MED/30/674/2011	GAP0105	Antioxidant Capacity of Astrocytes and Neurotrophic Factors in Aging: Age and Gender Based Analysis	Dr. Sarika Singh	07-05-2012	17-10-2016	a. Laminar hood/Bio-Safety cabinet b. CO <sub>2</sub> Incubator

			(National Initiative on Glial Cell Research in Health and Disease)				c. Fluorescence visualization assembly for exiting fluorescence microscope d. Orbital Shaker e. Minor Equipment/ Homogeniser f. Liquid Cryocan
6.	BT/PR15312/MED/30/601/2011	GAP0108	Validation of the Cancer-Testis Biomarker CABYR in Cervical Squamous Cell Carcinomas	Dr. Monika Sachdev	02-01-2013	01-12-2015	a. Mini-protein Tetra Gel System (Bio-Rad)
7.	BT/PR6306/GBD/27/398/2012	GAP0114	Drugs Against Central Body Fatness and Insulin Resistance (High Peri/Post-Menopausal Prevalence) RGYI Scheme	Dr. Jiaur Rahaman Gayen	12-09-2012	10-09-2016	a. Nano drop Spectrophotometer b. Sonicator
8.	BT/PR1867/AGR/36/680/2011	GAP0127	Role of miRNAs Responsible for Bone Mass Reversal at the Time of Weaning	Dr. Ritu Trivedi	20-05-2013	19-05-2016	a. Deep Freezer (-80 degree)
9.	BT/PR6421/GBD/27/436/2012	GAP0130	Characterization of the Role of Human DNA Ligase I in Lagging Strand DNA Synthesis and DNA Replication (RGYI)	Dr. Dibyendu Banerjee	10-06-2013	09-06-2016	a. -80-degree Freezer b. Shaker Incubator
10.	BT/PR7299/MED/29/678/2012 / 07 May 2013	GAP0132	An Approaches Towards Identification and Synthesis of Antigenic Epitopes of Potential L. donavani Th1 Stimulatory Proteins for the Development of Synthetic Vaccine Against Visceral Leishmaniasis	Dr. Amogh Anant Sahasrabudhe	20-06-2013	13-12-2016	a. Graphic Work Station (One) dual boot (Linux/Windows) b. Cell Counter (One) c. Inverted Microscope with fluorescence and camera attachment (One)

11.	BT/PR5918/MED/30/851/2012 / 03 June 2013	GAP0133	Elucidating the Role of p53 and DNA Damage Response Pathway in Anti-Cancer Activity of a Novel Coumarin-Chalcone Hybrid	Dr. Jayanta Sarkar	20-06-2013	19-06-2016	<ul style="list-style-type: none"> <li>a. Water purification system</li> <li>b. Refrigerated centrifuge</li> <li>c. Mini vertical electrophoresis with power pack</li> <li>d. CO2 and N2 regulators</li> </ul>
12.	BT/331/NE/TBP/2012	GAP0135	Studies on Effect of Different Herbal Preparations on Wound Healing and Angiogenesis	Dr. Syed Musthapa M	15-07-2013	14-07-2016	<ul style="list-style-type: none"> <li>a. Thermal cyler</li> <li>b. Micro refrigerated Centrifuge</li> <li>c. Liquid handling system</li> <li>d. Surgery Platefor &amp; Microsurgical instrument</li> <li>e. Anaesthesia chamber</li> </ul>
13.	BT/RLF/RE-ENTRY/20/2012 / 03 March 2013	GAP0142	Genetic Manipulation and Drug Targeting Approaches Against Plasmodium berghei Sporozoite Specific Proteins S14, Serine Threonine Protein Kinase-9 and Liver Stage Specific Acyl-CoA Synthase	Dr. Satish Mishra	10-10-2013	09-01-2019	<ul style="list-style-type: none"> <li>a. Water bath</li> <li>b. Humidifier-Hydrofogger</li> <li>c. Autoclave -Pressure Steam Sterilizer</li> <li>d. humidity controller - Low high system</li> <li>e. Laptop</li> </ul>
14.	BT/HRD/NWBA/36/01/2011-12(i)	GAP0149	Assembly of Iron-Sulphur[Fe-S] Clusters on Critical Proteins of the Plasmodium Apicoplast	Dr. Saman Habib	11-10-2013	31-03-2019	<ul style="list-style-type: none"> <li>a. Weighing balance</li> <li>b. Desktop computer with printer</li> <li>c. Power pack with transfer assembly</li> <li>d. pH meter</li> <li>e. Vertical Electrophoresis</li> <li>f. Electro transfer mini dual system</li> <li>g. POWERPAC HC Power Supply</li> </ul>

							<ul style="list-style-type: none"> <li>h. Dry bath, with single heating block</li> <li>i. Refrigerator</li> <li>j. Computer</li> </ul>
15.	BT/BIPP0691/25/12 / 07 February 2014	GAP0150	Discovery and Development of Novel Bone Anabolic Agents for Accelerated Fracture Healing	Dr. Naibedya Chattopadhyay	21-02-2014	07-07-2016	<ul style="list-style-type: none"> <li>a. double sided IVCs complete with AHU and 160 cages</li> <li>b. Saw microtome for cutting fine sections of hard tissue</li> </ul>
16.	BT/PR7906/MED/30/960/2013 / 18 July 2014	GAP0166	Identification and Functional Characterization of Novel MicroRNA Candidates Altered by Phytoestrogen Medicarpin: Role in the Pathogenesis of Osteoporosis	Dr. Divya Singh	01-08-2014	31-07-2017	<ul style="list-style-type: none"> <li>a. -20 Degree refrigerator</li> </ul>
17.	BT/PR6173/BRB/10/1115/2012 / 01 November 2014	GAP0169	Exploration of Interleukin 1 Receptor Associated Kinase(IRAK) Family of Kinases During Macrophage Foam Cell Formation and Inflammation	Dr. Manoj Kumar Barthwal	22-10-2014	21-04-2018	<ul style="list-style-type: none"> <li>a. Analytical balance</li> <li>b. Vortex mixer</li> <li>c. pH meter</li> <li>d. Rotator</li> <li>e. DNA electrophoresis system</li> <li>f. Rocker</li> <li>g. Upgradation of Gel Doc Camera</li> </ul>
18.	BT/PR9584/MED/29/800/2013 / 24 December 2014	GAP0174	Molecular and Biochemical Characterization of Chaperonin Class of Heat Shock Proteins of Leishmania donovani, Their Exploration as Drug Target	Dr. Neena Goyal	19-02-2015	30-06-2018	<ul style="list-style-type: none"> <li>a. Co2 Incubator</li> <li>b. Upgradation of Microscope with two Objective</li> </ul>
19.	BT/PR8721/AGR/36/775/2013 / 26 March 2015	GAP0179	Profiling and Characterization of Early Phase Differential miRNA(s) Responsible for Downstream	Dr. Anil Nilkanth Gaikwad	28-04-2015	27-04-2018	<ul style="list-style-type: none"> <li>a. Micro Chemi Gel Documentation System</li> </ul>

			Development of Insulin Resistance in hMSC Derived Adipocytes				b. Refrigerated incubator 42R shaker
20.	BT/Bio-CARe/01/421/2011-12 / 21 April 2015	GAP0180	Tissue-Specific Transcripts and Cardiac Glycoside Profiling of Calotropis Plant After Different Biotic and Abiotic Elicitors	Dr. Vineeta Tripathi	20-04-2015	20-10-2018	a. Gel Doc EZ System Complete b. upright Showcase freezer
21.	BT/PR10468/MED/29/815/2013 DT: 21 March 2016	GAP0204	Induction of Autophagy as a Strategy for Treatment of Tuberculosis	Dr. Amit Misra	01-06-2016	31-05-2019	a. Indigenous Spray Dryer (Spray Dryer Model SPD-P-111 Table Top with software without Air Compressor)
22.	DBT/IC-2/INDO-BRAZIL/2016-19/03 DT: 09 June 2016	GAP0209	Deciphering the Roles of Secreted Proteases in Host-Mycobacterium Tuberculosis Interaction: Implications for Novel Drug Discovery and Vaccine Development	Dr. Arunava Dasgupta	13-07-2016	12-09-2018	a. High Speed centrifuge b. R2P-2.0 Bot Drive Three Tier Cell Roller Base
23.	BT/09/IYBA/2015/08 DT: 11 August 2016	GAP0223	Understanding the Role of RBR-E3 Ubiquitin Ligase in P. falciparum and Exploring its Potential for Pharmacological Intervention	Dr. Niti Kumar	08-11-2016	09-02-2020	a. Equipment / Software: Incubator Shaker with Refrigeration
24.	BT/PR14480/MED/97/265/2015 DT: 27 July 2016	GAP0224	Evaluation of TGF- $\beta$ Mediated Signaling Mechanism in Endometriosis Using Mouse Model	Dr. Rajesh Kumar Jha	08-11-2016	26-01-2020	a. Microtome with all the necessary accessories b. Fluorescence attachment module with all the necessary accessories
25.	BT/PR12866/MED/29/954/2015; DT 15 Jun 2017	GAP0238	Characterization of L. donovani S-Adenosyl Methionine Decarboxylase: Spermidine Synthase Interactions	Dr. J. Venkatesh Pratap	25-06-2017	14-12-2020	a. Incubator shaker

26.	BT/PR14876/MED/29/981/2015; DT 30 Jun 2017	GAP0243	Functional Characterization and Validation of Drug Target Potential of a Unique Triacylglycerol Synthase of Mycobacterium tuberculosis	Dr. Manju Y Krishnan	17-07-2017	16-07-2020	a. Roller Bottle Incubator b. Bacteriological incubator c. Deep Freezer
27.	BT/PR15667/BRP/10/1465/2015; DT 25 July 2017	GAP0247	Exploring the Role of Nucleotide Binding Oligomerization Domain Proteins (NODs)-Mediated Inflammation in Diet-Induced Insulin Resistance	Dr. Akhilesh K. Tamrakar	25-07-2017	24-07-2020	a. Steripette pipette controller b. Orbital shaker Bath c. Trans-Blot Turbo (Transfer System Blotting instrument includes base) d. Mini-Protean Tetra Electrode Assemble Spare for western instrument e. Mini gel cassette holder for Western blot
28.	BT/RLF/Re-entry/03/2015; DT 29 September 2017	GAP0254	Discovery of Novel Cell-Autonomous Host Pathways and Contracting Immune Evasion Strategies Employed by Vacuolar Pathogens- An Approach to Identify New Antimicrobial Host-Factors and Novel Microbial Targets	Dr. Arun Kumar Haldar	09-08-2017	08-08-2024	a. Xerox b. FAX machines c. vertical electrophoresis d. Western trans blot e. POWER PACK BASIC
29.	BT/PR22304/MED/29/1154/2016; DT 25 September 17	GAP0259	Deciphering Organellar Genome Maintenance in the Malaria Parasite	Dr. Saman Habib	25-09-2017	24-09-2020	a. Microwave b. Vertical gel electrophoresis c. Analog power supply (small)x2

							<ul style="list-style-type: none"> <li>d. Electrophoresis power supply</li> <li>e. -20-degree freezer</li> <li>f. Humidifier regulator</li> <li>g. Water bath</li> <li>h. Speed vac + Micro centrifuge (2 items as per sanction)</li> <li>i. -80-degree freezer</li> <li>j. Tissue homogenizer</li> <li>k. Mini-vertical electrophoresis system</li> <li>l. Orbital shaker</li> </ul>
30.	BT/PR19198/MED/30/1695/2016; DT 15 November 17	GAP0263	Regulation of Pancreastatin to Control the Energy Homeostasis in Diabetes	Dr. Jiaur Rahaman Gayen	30-12-2017	29-12-2020	a. Oxygraph O2 K Respirometer
31.	BT/21394/BRB/10/1553/2016	GAP0273	Identification of the Role of Serine 7 Phosphorylation of RNA Polymerase II CTD in the mRNA Transcription	Dr. Md. Sohail Akhtar	26-03-2018	25-09-2021	a. Bench top high speed cooling centrifuge
32.	BT/PR27480/MED/138/2018 dated 04 February 2019	GAP0315	Exploration of Role of ACE-2/Ang-(1-7)/Mas Receptor (ACE2/Ang-(1-7)/MasR) Axis in Neuroinflammation and Glial Activation in Hypertension and Neurodegeneration	Dr. Kashif Hanif	04-02-2019	03-02-2022	<ul style="list-style-type: none"> <li>a. Small Animal Ventilator</li> <li>b. Refrigerated centrifuge</li> <li>c. Western Blot Assembly</li> <li>d. Weighing Balance</li> </ul>
33.	BT/PR27780/MED/29/1266/2018 dated 12 June 2019	GAP0325	Repurposing of Anticancer Drugs for the Treatment of Malaria	Dr. Renu Tripathi	12-06-2019	11-12-2022	a. Upright Plain/ Fluorescence Microscope
34.	BT/PR31893/MED/29/1390/2019 dated 22 July 2019	GAP0328	Structure-Activity Validation of Inhibitors of Bacterial Peptidyl-tRNA Hydrolase for Tackling AMR	Dr. Ashish Arora	22-07-2019	21-07-2023	a. HPLC with Fluorescence Detector

35.	BT/PR30749/MED/97/421/2018 dated 02 September 2019	GAP0331	To Investigate the 4-hydroxyisoleucine Signaling Mechanism in the Ovarian Follicular Development for the Management of Polycystic Ovarian Syndrome	Dr. Rajesh Kumar Jha	02-09-2019	01-03-2023	a. CO2 Incubator with necessary accessories b. Drying Oven Dry heat based sterilizing oven
36.	BT/PR25604/NER/95/1263/2017 dated 30 September 2019	GAP0334	Bioprospecting of Medicinal Plants of Sikkim Himalaya Against Breast Cancer Angiogenesis	Dr. Druga Prasad Mishra	30-09-2019	29-03-2023	a. Steriotoxic System for Murine Angiogenesis Studies
37.	BT/PR30759/MED/97/420/2018 dated 02 September 2019	GAP0337	To Investigate the Role of HOXB1 in Spermatogenesis and Male Infertility	Dr. Rajender Singh	02-09-2019	31-07-2023	a. Refrigerated mini centrifuge
38.	BT/PR25028/NER/95/966/2017 date 14 January, 2020	GAP0343	Studies on Clinical Efficacy of Identified Herbal Leads on Wound Healing and Veterinary Dermatological Complications	Dr. Manish Kumar Chourasia	14-01-2020	13-01-2024	a. Rheometer
39.	BT/MED/32/11/2019 Date 28 February 2020	GAP0348	Development of Small-Molecular-Weight Antivirals Against Chikungunya and Japanese Encephalitis Virus	Dr. Sanjay Batra	28-02-2020	27-02-2025	a. Rotavaor with vacuum pump b. Magnetic stirrers c. Chiller d. Electronic Balance e. ElctraSyn f. Desktop computer g. Laptop computer
40.	BT/RLF/Re-entry/14/2019 dated 24 August 2020	GAP0357	Unravelling the Role of Musashi2 (Msi2) in Cardiac Pathophysiology	Dr. Shashi Kumar Gupta	15-05-2020	14-05-2026	a. UV trans-illuminator b. Cryocan c. Refrigerated centrifuge
41.	BT/N/Indo-UK/AMR-Env/04/IQ/2020-21 dated 16 December 2020	GAP0363	SELECTAR: Selection for Antimicrobial Resistance by Antimicrobial Production Waste	Dr. Sidharth Chopra	16-12-2020	15-12-2025	a. Water Purification System

42.	BT/PR38444/MED/29/1499/2020 dated 24 September 2021	GAP0380	Exploring DNA Transactions and Genome Maintenance in the Malaria Parasite	Dr. Saman Habib	24-09-2021	23-03-2025	<ul style="list-style-type: none"> <li>a. Gel and blot documentation System</li> <li>b. GPU- enabled workstation</li> <li>c. Refrigerated Centrifuge</li> <li>d. Dissection Microscope</li> <li>e. Real time PCR Machine</li> </ul>
43.	BT/PR40131/BTIS/137/26/2021 dated 14 October 2021	GAP0384	Establishment of Bioinformatics and Computational Biology Centre at CSIR-CDRI: Innovation in Drug Discovery Research Using Bioinformatics and Computational Biology-BIC at CSIR, Central Drug Research Institute, Lucknow	Dr. Mohammad Imran Siddiqi	14-10-2021	13-10-2026	<ul style="list-style-type: none"> <li>a. Desktop Computer (8)</li> <li>b. UPS with Batteries (10KV)</li> <li>c. Multi-function Laser Printer</li> <li>d. Colour Laser Printer</li> <li>e. Interactive Flat panel for Smart Classroom</li> <li>f. Projector for Smart Classroom</li> <li>g. Chairs for Smart Classroom (24 nos.)</li> <li>h. Meeting Table/ 24 Seater Work Bench</li> <li>i. Storage Wooden Almira</li> <li>j. Online UPS 10 KVa</li> <li>k. Air Conditioner (2)</li> <li>l. 3D-Printer</li> <li>m. Compute Workstation (3 No)</li> <li>n. Mobile Workstation</li> <li>o. Network Switch (2)</li> <li>p. Video Conferencing Camera</li> <li>q. GPU Server</li> <li>r. Data storage network device</li> </ul>

							<ul style="list-style-type: none"> <li>s. Desktop Computers</li> <li>t. UPS Batteries for computers</li> </ul>
44.	IC-12044 (11)//5/2021-ICD-DBT dated 16 February 2022	GAP0395	Apelin-ACE2 Axis Fate in Hypertension and Macrophage Syndrome as Complications in COVID-19: Focus on Gender, Age and Comorbidities	Dr. Manoj Kumar Barthwal	16-02-2022	15-02-2027	<ul style="list-style-type: none"> <li>a. Co2 Incubator</li> <li>b. Biological Safety Cabinet</li> <li>c. Ultra deep freezer -80 degree</li> <li>d. Protein transfer apparatus</li> </ul>
45.	BT/PR41361/MED/30/2289/2020 dated 21 March 2022	GAP0403	Elucidating the Role of Nucleotide-Binding Oligomerization Domain-Containing Proteins (NODs) in Development and Progression of Non-Alcoholic Fatty Liver Disease (NAFLD)	Dr. Akhilesh K. Tamrakar	21-03-2022	20-03-2026	<ul style="list-style-type: none"> <li>a. Multimode Plate Reader</li> <li>b. -20 Freezer</li> </ul>
46.	BT/PR44902/MED/30/2407/2022 dated 17 March 2023	GAP0433	Understanding the Role of Wat1/mLst8, a TOR Complex Protein in the Regulation of Mitochondrial Integrity and Calcium Ion Homeostasis	Dr. Shakil Ahmed	17-03-2023	16-03-2026	<ul style="list-style-type: none"> <li>a. Refrigerated Shaker Incubator</li> <li>b. Thermal Cycler</li> </ul>
47.	BT/PR40197/BTIS/137/68/2023 Dated 20 October 2023	GAP0449	National Network Project of CSIR-Central Drug Research Institute, Lucknow	Dr. Mohammad Imran Siddiqi	20-10-2023	19-10-2028	<ul style="list-style-type: none"> <li>a. Desktop Computers with accessories including, external storage device, UPS etc.</li> <li>b. Storage Freezer (-20<sub>o</sub>C)</li> <li>c. Storage refrigerator (4<sub>o</sub>C)</li> <li>d. Centrifuge with Rotors</li> <li>e. Gel Electrophoresis system</li> <li>f. Weighing Balance</li> <li>g. Magnetic Stirrer</li> </ul>

							h. Orbital shaker
48.	BT/PR44897/TRM/120/544/2021 dated 29 January 2024	GAP0466	Preclinical Development of a Natural Molecule (N-012-0006) from <i>Crotalaria juncea</i> for the Management of Diabetic Nephropathy	Dr. Akhilesh K. Tamrakar	02-05-2024	01-05-2027	a. Rotary Microtome b. Minor Equipment: pH meter c. micropipettes set
49.	BT/PR51212/MED/97/677/2033 dated 13 June 2024	GAP0474	Preclinical Development and Scientific Validation of Putranjiva Seeds for Female Pro-fertility	Dr. Monika Sachdev	12-06-2027	13-06-2027	a. Programmable Digital Rocker b. Cryocan for Liquid Nitrogen