

LIST OF SHORT-LISTED RESEARCH PROPOSALS SUBMITTED FOR FUNDING UNDER

DBT-ALSBT Hub (Assam) Micro-grants to Young Scientists of NER for Innovative Research

Sl. No.	Proposal No.	Title	Name & address of PI
1.	1001	Engineering of betalain biosynthetic DOPA dioxygenase to improve its activity	Dr. Mohammad Imtiyaj Khan, Assistant Professor, Dept of Biotechnology, Gauhati University, Guwahati
2.	1008	Unravelling the role of <i>Clostridium perfringens</i> as an etiological agent of diarrhoea in neonatal pigs– A case-control study	Dr. G. Bhuvana Priya M.V.Sc. (Veterinary Bacteriology), Ph.D. (Veterinary Bacteriology), Assistant Professor, College of Agriculture (Central Agricultural University, Imphal), Kyrdemkulai, Meghalaya 793104
3.	1009	Therapeutic potential of ErpY-like protein of pathogenic <i>Leptospira</i> in hemostasis and host complement evasion	Dr. Manish Kumar, Professor, Department of Bioscience and Bioengineering, IIT Guwahati
4.	1014	Development of serological diagnostics for rapid and reliable detection of <i>Erysipelothrix rhusiopathiae</i> infection in porcine	Dr Samir Das, Senior Scientist, Division of Animal & Fisheries Sciences, ICAR RC NEH, Umiam, Meghalaya-793103
5.	1018	16S rRNA-based metagenomic analysis of the skin and gut microbiome of healthy and diseased catfish, <i>Clariasbatrachus</i> (Linn.)	Dr. Chittaranjan Baruah, Assistant Professor (Stage III), Department of Zoology (Postgraduate & Research), Darrang College, Tezpur-784001
6.	1025	Screening of phytotherapeutic potential of medicinal plants in treatment of fish diseases with special importance to Argulosis and Epizootic Ulcerative Syndrome (EUS) utilising Gold fish, <i>Carassius auratus</i>	Dr. Shamim Rahman, Assistant Professor, Dept. of Zoology, DCB Girls' College K.K. Barua Road, Jorhat
7.	1026	Ethnopharmacological study of <i>Natsiatum herpeticum</i> Buch.-Ham. ex Arn, a less known ethnomedicinal plant of Darrang District	Dr. Debashree Kakati Mangaldai College, Mangaldai, 784125

8.	1028	Explore the pharmacological potential of <i>Myrica. esculenta</i> in the management of inflammation and myocardial infarction	Dr. Manas Das, Assistant Professor, Department of Zoology, Gauhati University
9.	1030	Development of an Autologous Endophytic Bacterial Consortium to Enhance Seed Germination and Growth Promotion of 'Kopou phul' (<i>Rynchosyilis retusa</i>), the State Flower of Assam.	Dr. Rupak Kumar Sarma Assistant Professor, Department of Botany SBMS College, Sualkuchi, Assam – 781103
10.	1032	Production of commercial grade banana fruit beer and assessment of its nutritional values	Dr. Debajit Borah Associate Professor Department of Biotechnology The Assam Royal Global University, Guwahati-781035
11.	1038	Development of cost effective archeosome based vaccine delivery system for necrotic enteritis	Dr. Shantanu Tamuly, Assistant Professor, Department of Veterinary Biochemistry, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati. 781022
12.	1044	Mining the secretome of neglected food-borne zoonotic trematode <i>Artyfechinostomum sufrartyfex</i> and <i>Fasciolopsis buski</i> for diagnostic targets	Dr. Sudeep Ghatani Assistant Professor Department of Zoology Sikkim University
13.	1046	Conservation of four medicinally important <i>Garcinia</i> species in Assam: Recovery and Capacity Building	Dr. Kishor Deka; Assistant Professor, Darrang College, Mahabhairab Paruwa Road, Mahabhairab, Tezpur, Assam 784001
14.	1052	Standardization of peptide based enzymatic immuno assay (iELISA) for population survey of pasteurellosis in livestock with particular reference to swine in North-East India	Dr. Arijit Shome Assistant Professor, Department of Veterinary Biochemistry, CVSc, AAU, Khanapara –781022
15.	1054	Development of reliable diagnostics for detection of bovine haemoparasitic infection at field level	Dr. Syed A. Arif Assistant Professor Department of Veterinary Clinical Medicine, Ethics & Jurisprudence College of Veterinary Science, Assam Agricultural University Khanapara, Guwahati

16.	1057	Development of earthworms-microbe formulations for management of refinery sludge	Dr. Hemen Deka, Assistant Professor, Gauhati University, Gopinath Bordoloi Nagar, Jalukbari, Guwahati-781014, Assam
17.	1058	Therapeutic application of Canine Mesenchymal Stem Cells in clinical cases of spinal cord injury	Dr. Chandan Kumar Singh, Assistant Professor, College of Veterinary Science, Khanapara, Assam Agricultural University, Pin-781022
18.	1065	Fortification and utilization of aquatic plants through suitable conservation methodology to encourage resource use efficiency	Dr. Papori Talukdar Assistant Professor Department of Animal Nutrition, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-781022
19.	1066	Development of biocompatible scaffold for addressing corneal defects	Dr. Bitupona Deuri, Assistant Professor, College of Veterinary Science, AAU, Khanapara
20.	1068	Nano-magnetic purification of cryopreserved buck semen to optimize fertilization	Mohua Das Gupta, Assistant Professor, Department of ARGO, College of Veterinary Science, Khanapara-22
21.	1071	Development of synergistic combination of compounds from synergistic essential oil mixture against <i>Culex quinquefasciatus</i> (Diptera: Culicidae)	Dr. Bulbuli Khanikar, Assistant Professor, Dept. of Zoology, Gauhati University
22.	1076	Evaluation of the dichlorophenol indophenol (DCIP) method and development of suitable DCIP-based testing algorithms for screening haemoglobin E carriers from Assam	Dr. Kaustubh Bora, Scientist-C (medical), Haematology Division, ICMR-Regional Medical Research Centre, North-East Region, Dibrugarh, Assam
23.	1084	Exploration of oleaginous endophytic fungi ---biofuel production	Dr. Sushmita Paul Assistant Professor Assam Royal Global University Opp. Balaji Temple, Guwahati-781035
24.	1095	Molecular basis of host-biting preference in the context of Odorant Receptor (OR) genes of <i>Anopheles</i> mosquito from malaria-endemic districts of Assam	Dr. Waseem Akram Malla, Scientist-B, ICMR-National Institute of Malaria Research, Field Unit Guwahati

25.	1106	Fabrication of bacterial nanocellulose film activated with plant essential oils for application as green, edible and antimicrobial food packaging material	Dr. Anurag Kashyap Assistant Professor Dept. of Plant Pathology, College of Agriculture, Assam Agricultural University, Jorhat, Assam
26.	1109	Development of Boron nitride Quantum dot nanozyme based multiplex colorimetric immunosensor for selective and sensitive detection of viral hepatitis	Dr. Subhash Medhi, Assistant Professor, Department of Bioengineering and Technology, Gauhati University-14