

**List of Concept Notes selected for full proposal development under Call 3 (Component-4)**

<b>S.No.</b>	<b>Project Title</b>	<b>CPI Name</b>	<b>Name of Organization</b>
1	Assesment of oncolytic potential of different viral genes	Dr. Ashok K. Tiwari	Indian Veterinary Research Institute, Izatnagar, Bareilly
2	Management of soil- water system in low productive acidic fish ponds in eastern and north-eastern India optimization of their productivity	Dr. G.N. Chattopadhyay,	Visava-Bharati, Santiniketan, Birbhum West Bengal-731235,
3	Molecular ecology of cryptic freshwater bivalves from the Western Ghats	Dr. S. Thippeswamy	Mangalore University, Mangalagangothri Mangalore, Karnataka-574199
4	Nano encapsulated conventional pesticides and their interactions with environment, plants, soil microbes and insects: Basics, biosafety and mechanism of action at the molecular, biochemical and physiological level	Dr. Arunava Goswami	Indian Statistical Institute 203 B.T. Road, Kolkata West Bengal-700 108
5	Bioprospecting of indigenous ENBI complex (entomopathogenic nematodes, their bacterial symbionts and insect host), and to decipher the nature of symbiosis and virulence mechanism	Dr. Sudershan Ganguly	IARI, New Delhi-110012
6	Studies on the ecology and taxonomy of whitefly and aphid biotypes in India, their symbiosis with various obligate and facultative bacteria and understanding the functional role (at the molecular and physiological level) played by these endosymbionts	Dr. Rajagopal Raman	ICGEB, New Delhi
7	Molecular and biochemical diversity analysis of potential and industrially important lac insect populations and identification of genes related to resin production in Indian lac insect	Dr. Ranganathan Ramani	Indian Institute Natural Resins and Gums, Ranchi Jharkhand
8	RNA interference (RNAi): A novel approach for the management of insect pests of crops	Dr. R. Asokan	Indian Institute of Horticultural Research (IIHR) Hessaraghatta Lake, Bangalore

<b>9</b>	Design and Development of innovative mechanical devices for the management of pests of agriculture importance	Dr. Surender Kumar Singh	NCIPM, LBS building IARI Campus New Delhi-110012
<b>10</b>	Research Into Precision Farming Technologies Using Gis, Gps And Electronic Control Systems For Enhancing Input Application Efficiency In Production Agriculture	Dr. Anurag Kumar Dubey	Central Institute of Agricultural Engineering Nabibagh, Berasia Road, Bhopal Madhya Pradesh-462038
<b>11</b>	Empowering Rural Business through institutional transformations and innovations	Dr. Viswanadham Nukala	Indian School of Business, Gachibowli, Hyderabad Andhra Pradesh-500 032
<b>12</b>	Development of Integrated System Framework for IT in Agriculture	Dr. G.V. Ramaraju,	708-723, 7th Floor, Devika Towers, 6 Nehru Place New Delhi
<b>13</b>	Development of vaccine against virulent foot rot	Dr. Shakil Wani,	Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir Shalimar Campus, Srinagar Jammu & Kashmir-191121
<b>14</b>	Signal transduction mechanisms in buffalo sperm functions; analysis of Phosphoproteome and Transcriptome in fresh and cryopreserved semen	Dr. Suresh Atreja	National Dairy Research Institute, Karnal-132001
<b>15</b>	Development of genetic markers for high rejection rate in crossbred bulls on account of semen quality and their use for sustainable semen production	Dr. Indrajit Ganguly	Directorate on Cattle Post Box No. 17, Grass Farm Road, Meerut Cantt
<b>16</b>	Genomic Expression Of Parthenogenetic Diploid Cells And Their Comparison With Biparental Cells In Farm Animals	Dr. Sadhan Bag	Indian Veterinary Research Institute Uttar Pradesh-243122
<b>17</b>	"Bovine Mastitis: Unraveling molecular details and development of strategic interventions for reduction of economic losses using nano-biotechnological advances	Dr. Bibek Shome	ADMAS, Hebbal, Bangalore Karnataka-560024
<b>18</b>	Understanding the role of Toll-like receptors (TLRs) signalling in activating the innate immune responses in freshwater carps and prawns	Dr. Mrinal Samanta	Central Institute of Freshwater Aquaculture (CIFA) Kausalyaganga, Bhubaneswar Orissa-751002
<b>19</b>	Control of white spot syndrome virus (WSSV) infection in shrimp using RNAi technology	Dr. Kshitish Majumdar	Scientist 'F', Centre for Cellular and Molecular Biology Uppal Road, Hyderabad

<b>20</b>	Modulation of the rumen microbial ecosystem through cloning of cellulase genes by using DNA / RNA based technologies for improved utilization of crop residues in ruminants	Dr. Matam Chandrasekharaiah	National Institute of Animal Nutrition and Physiology Hosur Road, Adugodi. Bangalore, Karnataka-560030
<b>21</b>	Technology for sustainable off season mango production and augmenting extended period of availability	Dr. B.M.C. Reddy	Central Institute for Subtropical Horticulture Rehmankhara, Lucknow-227107
<b>22</b>	Assessment of Impact of Micronutrients Deficiencies in Soils on Crops, Animal and Human Health in selected bench mark sites	Dr. M.V. Singh	Indian Institute of Soil Science Nabibagh, Berasia Road, Bhopal-462038
<b>23</b>	Effects of change on biophysical and biochemical processes in air, water and soil components of dominant cropping systems over Orissa	Dr. Surendranath Pusupalak	Orissa University of Agriculture and Technology Bhubaneswar, Orissa-751 003
<b>24</b>	Georeferenced soil information system for assisting land use planning and monitoring soil quality changes	Dr. Dilip Kumar Pal	National Bureau of Soil Survey and Land Use Planning Amravati Road, Shankarnagar Nagpur- 440010
<b>25</b>	A Holistic Approach for Sustainable and Profitable use of Weeds from Food and Commercial Crops Under Different Ecosystems of Andhra Pradesh	Dr. Battu Ganga Rao,	University College of Pharmaceutical Sciences Andhra University, Visakhapatnam Andhra Pradesh-530 003
<b>26</b>	Diversity analysis of bacillus and Bacillus derived genera in extreme environments and its utilisation in agriculture and allied sectors	Dr. Dilip K. Arora	National Bureau of Agriculturally Important Microorganisms Kaithauli, Kusmaur, Mau Uttar Pradesh-275101
<b>27</b>	Development of Novel Value Added Shrimp Products through High Pressure Processing	Dr. P.S. Rao	IIT, Kharagpur, West Bengal-721302
<b>28</b>	Cryogenic technology for spice grinding: A novel approach	Dr. Krishna Singh	CIPHET, PO-PAU, Ludhiana Punjab-141004

<b>29</b>	Understanding mechanism of production of nutraceuticals from milk and Indian herbs, their interaction and delivery in model food systems aimed at developing functional dairy foods	Dr. R.R.B. Singh	National Dairy Research Institute Karnal Haryana-132001
<b>30</b>	Novel biotechnological processes for production of high value products like enzymes, bioethanol, organic acids and speciality chemicals from agricultural residues	Dr. Bhupinder Chadha,	Department of Microbiology, Guru Nanak Dev University Amritsar Punjab-143005
<b>31</b>	Strategic superimposition of indigenous technology knowledge on modern food processing systems for preservation and value addition of ethnic foods for export markets	Dr. K. Suresh Kumar	Indian Institute of Crop Processing Technology Pudukkottai Road, Thanjavur Tamil Nadu-613005
<b>32</b>	Development of a comprehensive approach for detection and mitigation of dairy pathogens and adulterants using chemical biology and forward chemical genetics	Dr. Naveen Kumar Navani,	Assistant Professor, Indian Institute of Technology, Roorkee Uttaranchal-247667