

**LIST OF THE PROPOSALS APPROVED IN RESEARCH CALL 3**

S.No	Proposal No.	Title of the Project	Name of the PI	Budget (in Rs.)
1	UOH-IOE-RC3-21-001	Molecular Phase Change Materials: Structure-Function Correlations and Write-Erase Applications	Prof. T.P. Radhakrishnan	49,24,000
2	UOH-IOE-RC3-21-002	Holobiomes of marine bio-gardens of Gulf of Mannar in search of antimicrobials	Prof. Ch. Venkata Ramana	50,00,000
3	UOH-IOE-RC3-21-003	Towards understanding the structural and physiological functions of $\alpha$ -mannosidase, $\beta$ -hexosaminidase from Snake Gourd ( <i>Trichosanthes anguina</i> ) seeds as potential glycomics tools	Prof. Nadimpalli Siva Kumar	49,95,200
4	UOH-IOE-RC3-21-004	Health beliefs and indigenous health practices related to non-communicable diseases and accessibility to healthcare services: A participatory action research on tribal communities in Telangana and Odisha	Dr. Suvashisa Rana	15,00,000
5	UOH-IOE-RC3-21-005	Exploring 3-Dimensional operons and their spatiotemporal dynamics during cellular differentiation in mammals	Prof. Sreenivasulu Kurukuti	50,00,000
6	UOH-IOE-RC3-21-006	Role of Long non-coding RNA in hiPSC derived Megakaryocytes: A lncRNA, miRNA and cell cycle regulators interaction study	Dr. Ravi Kumar Gutti	50,00,000
7	UOH-IOE-RC3-21-007	Detection of spin-waves in ferromagnetic/ferroelectric heterostructured multiferroics	Dr. Venkataiah Gorige	50,00,000
8	UOH-IOE-RC3-21-008	Protein Kinase C mediated phosphorylation of protein arginine methyltransferase 5 and its functional validation	Dr. Santosh R Kanade	46,11,000
9	UOH-IOE-RC3-21-009	Unravelling molecular mechanism governing cell differentiation/specification in embryo sacs of Arabidopsis	Prof. Y. Sreenivasulu	47,00,000
10	UOH-IOE-RC3-21-010	Role of kisspeptin in Mediobasal Hypothalamus (MBH) coordinated liver lipophagy: a novel therapeutic approach to treat age associated liver diseases	Prof. Naresh Babu V. Sepuri	49,80,000
11	UOH-IOE-RC3-21-012	Study of diabetes-induced RAS dysregulation in brain for understanding the etiology of cognitive disorders	Dr. Akash Gautam	45,00,000
12	UOH-IOE-RC3-21-013	In quest of next generation high temperature materials with high specific strength using the multi-principal element approach	Prof. Koteswararao V. Rajulapati	49,90,000
13	UOH-IOE-RC3-21-014	The Nexus between Cities, Externalities, Growth and Poverty in India: A Post Covid-19 Assessment on Urban Poor and Slum Dwellers-A Study for Setting the Context for "Cities inclusive, Safe, Resilient, and Sustainable"	Dr. Alok Kumar Mishra,	35,00,000
14	UOH-IOE-RC3-21-015	Synthesis and biophysical characterization of novel amphiphiles and bolaamphiphiles derived from amino acids, their interaction with phospholipids and application in drug encapsulation and delivery	Prof. Musti J. Swamy	49,92,000
15	UOH-IOE-RC3-21-016	Functional Characterization of Differentially Regulated Mitochondrial Processing Peptidase (Metallopeptidase M16) Protein in Miltefosine Drug-resistant <i>Leishmania donovani</i>	Dr. Radheshyam Maurya	42,14,000
16	UOH-IOE-RC3-21-017	Metamorphic history of Archean greenstone belts, in Eastern Dharwar Craton: understanding early Earth plate tectonic processes	Dr. Aliba Ao	40,34,469
17	UOH-IOE-RC3-21-019	Education, Nation Building and Social Justice: A Study of Universities in India, South Africa and the United States of America	Prof. Nagaraju Gundemeda	35,00,000
18	UOH-IOE-RC3-21-020	Identifying and isolating novel Resistance (R) genes and pattern recognition receptors (PRRs) using genetic and functional genomic approaches in garden pea	Dr. Ragiba Makandar	43,90,000
19	UOH-IOE-RC3-21-021	Wearable Thermoelectric Generator for Harvesting Human Body Heat to Electrical Energy	Dr. Raj Kishora Dash	49,64,000

20	UOH-IOE-RC3-21-023	Customer Acceptance of Artificial Intelligence (AI) in Healthcare Service Encounters- A Study in the Indian Context	Dr. D. V. Srinivas Kumar	29,72,200
21	UOH-IOE-RC3-21-024	HeathcaRF: A Radio Frequency based Non-Invasive and Invisible Healthcare Module for Assisted Living	Prof. Siba K Udgata	49,89,000
22	UOH-IOE-RC3-21-025	Migration, Marginality and Social Transformation exploring North East India and Beyond	Prof. Salah P	35,00,000
23	UOH-IOE-RC3-21-026	Role of tumor microenvironment in Retinoblastoma	Prof. Geeta K Vemuganti,	49,62,000
24	UOH-IOE-RC3-21-027	The Role of Bioactive Secondary Metabolites from the Medicinal Plants, Terminalia arjuna (Roxb.) Wight & Arn. and Tinospora cordifolia (Thunb.) Miers in Peroxisomal Function: Alleviating Oxidative Stress and Vascular Disease.	Prof. Sarada D. Tetali	49,99,000
25	UOH-IOE-RC3-21-029	Financial Wellbeing in India: A Study of Determinants and Desirable Interventions	Prof. V. Mary Jessica	30,32,000
26	UOH-IOE-RC3-21-031	Public Distribution System in Telangana: Impact assessment of E-PDS and portability under Aadhaar initiatives pre and post Covid-19 times	Dr. Krishna Reddy Chittedi	17,15,000
27	UOH-IOE-RC3-21-033	Structural elucidation of exosome like complex using Cryo-EM and its functional role in photosynthetic optimization during high light and cold acclimation in Synechocystis sp. PCC6803	Prof. Jogadhenu S. S. Prakash	49,90,000
28	UOH-IOE-RC3-21-034	Profitability and Efficiency of Summer Paddy versus Autumn and Winter Paddy in Assam: A Non-Parametric Approach	Prof. Phanindra Goyari	35,00,000
29	UOH-IOE-RC3-21-035	Visualizing mitochondrial signatures of cell state modulation for disease modeling and infection	Dr. Akash Gulyani	50,00,000
30	UOH-IOE-RC3-21-036	Evaluation of M32 metalloproteases for the development of therapeutics against leishmanial parasites	Dr. Insaf Ahmed Qureshi	49,50,000
31	UOH-IOE-RC3-21-037	Exploring and Applying Concepts of Indian Research Methodology in Modern Context	Dr. J.S.R. Prasad	24,55,000
32	UOH-IOE-RC3-21-038	Fibril association mechanism of $\alpha$ -synuclein and the effect of amino acids on its fibrillation propensity: extensive molecular dynamics simulation and in vitro studies	Dr. N. Prakash Prabhu	45,00,000
33	UOH-IOE-RC3-21-040	Corelative Microscopy of Substructure During Processing of High Strength Steels	Dr. J. Gautam	50,00,000
34	UOH-IOE-RC3-21-041	Decoding the mechanism of melatonin-induced delayed leaf senescence and its relationship with autophagy in upland cotton ( <i>Gossypium hirsutum</i> L.) under drought stress conditions	Prof. G. Padmaja	49,98,080
35	UOH-IOE-RC3-21-042	Mandated Work from Home (WFH)- A Sectoral Study of the Issues and Implications for Individuals and Organizations in India	Dr. Sita Vanka	34,09,250
36	UOH-IOE-RC3-21-043	Exploring the advantages of organic-free transition metal sulphides as electrodes in Li-ion batteries and as electrocatalyst in hydrogen evolution reaction	Prof. K. Muralidharan	49,43,360
37	UOH-IOE-RC3-21-044	Forms of Mobility in Contemporary Bollywood	Dr. Saradindu Bhattacharya	6,00,000
38	UOH-IOE-RC3-21-046	High pressure studies of organic and inorganic solids using Computational Methods	Prof. G. S. Vaitheeswaran	43,83,360
39	UOH-IOE-RC3-21-047	Political Geography and Structural Change: Status of Women in the Indian Extractive Industry	Dr. Prajna Paramita Mishra	25,30,000
40	UOH-IOE-RC3-21-048	Fog computing framework for monitoring campus flora and fauna using AI/ML	Dr. Satish Narayana Srirama	49,98,356
41	UOH-IOE-RC3-21-050	An Automated System for tracking Physical Characteristic Changes in Tomatoes	Dr. Vineet Padmanabhan	49,95,000
42	UOH-IOE-RC3-21-051	Particle Nanotracker Integrated with Microfluidics for Biorheology of Cells and Tissue	Prof. Sharath Ananthamurthy	38,90,000

43	UOH-IOE-RC3-21-052	Integrative data analysis to identify key molecular players involved in lung cancer progression	Dr. Vaibhav Vindal	10,00,000
44	UOH-IOE-RC3-21-055	Identifying Markers for Circadian Dysfunction induced Anxiety and Mood disorders and their epigenetic regulation in Sleep Deprivation and Aging: Therapeutic effects of Melatonin	Prof. Anita Jagota	49,96,000
45	UOH-IOE-RC3-21-057	An Exploratory Study of the Marginalized Children's Education at School Level in Telangana	Prof. Ravula Krishnaiah	15,55,000
46	UOH-IOE-RC3-21-058	Transcription visualization of E2A during T cell clonal selection	Prof. Jagan M.R. Pongubala	50,00,000
47	UOH-IOE-RC3-21-061	Strengthening SC Women participation in Economic, Social and Civic Activities	Prof. P.Thirumal	32,50,000
48	UOH-IOE-RC3-21-062	Pan-cancer development: gene expression regulation by long non-coding RNAs	Dr. Seema Mishra	49,09,000