

IEC Applications Processed

Dr GR Chandak

Renewal submission

Identifying variants causal for Type 2 Diabetes in major human populations- [IEC/CCMB49/2009/10-01-2012] - APPROVED

Dr Anant Patel

NMR based Metabolomics Investigations in Tissue and Biofluids in Amyotrophic Lateral Sclerosis and Hereditary Motor Sensory Neurons Disorders – [IEC-1/2010]- APPROVED

Dr Puran Singh Sijwali

Proteases and Exported Proteins of Malaria Parasites – [IEC-2/2010] -APPROVED

Dr Shailendra Saxena

Mechanisms of Neuro-AIDS by HIV 1B and C Clades – [IEC-3/2010] - APPROVED

Dr Lekha Dinesh Kumar

Multiple Myeloma/ Plasma Cell Myeloma/ Myelomatosis/ medullary plasmacytoma/ Kahler's disease – [IEC-4/2010] - APPROVED

Dr Lekha Dinesh Kumar

Molecular analysis of Chronic Myelogenous Leukemia (CML) towards novel protein biomarker discovery – [IEC-5/2010] - APPROVED

Dr Shashi Singh

Establishing pure cultures of corneal cell types and their organization into a cornea – [IEC-6/2010]

Dr Shashi Singh

Isolation and expansion of islets – [IEC-7/2010]

Dr Shashi Singh

Characterization of mesenchymal stem cells from other alternative sources and generation of iPS – [IEC-8/2010]

Dr K Thangaraj

Myocarditis: miRNAs as a predictive biomarker and a therapeutic target – [IEC- 9/2010] - APPROVED

Dr Shashi Singh

Preparation of organ scaffolds by decellularization for tissue engineering – [IEC-11/2011] – APPROVED

Dr Sunit Kumar Singh

HIV Neuropathogenesis – [IEC-12/2011] - APPROVED

Dr Lekha Dinesh Kumar

Protein profiling of oropharyngeal cancer for the identification of novel biomarkers –[IEC-13/2011]

Dr Lekha Dinesh Kumar

Novel disease models of colorectal neoplasia by gene knock in and knockout technologies: An answer to the enigma of the role of deregulators in colon cancer and a platform to assess efficacy of nanoparticles as biological drug cargos [IEC-16/2013] - APPROVED

Dr Lekha Dinesh Kumar

Tissue vs plasma & serum proteomics : Novel serological biomarker discovery for early diagnosis of breast cancer [IEC-17/2013] - APPROVED

Dr Gopal Pande

Studies on EpCAM + hepatic cells isolated from human fetuses after transplanting them into SCID mice [IEC-18/2013] - APPROVED

Dr GR Chandak

Intergenerational programming of diabetes in offspring of women with Gestational Diabetes Mellitus [InDiaGDM] – [IEC-20/2014] - APPROVED

Dr GR Chandak

Molecular basis of nutrient mediated fetal programming of diabetes – [IEC-21/2014]- APPROVED

Dr K Sridhar Rao

Screening of K-Ras and B-RAF mutations in tumor tissues and circulating nuclei acids present in blood-plasma and urine of Colorectal Cancer patients in India – [IEC-22/2014] - APPROVED

Dr Suman Thakur

Studies on TB meningitis to search biomarkers for its early diagnosis in cerebrospinal fluid using mass spectrometry base quantitative proteomics – [IEC-23/2014]

Dr M Mohammad Idris

Understanding Osteoarthritis, Rheumatoid Arthritis, Osteoporosis and Intervertebral disc regeneration through transcriptomics and proteomics analysis – [IEC-24/2014]

Dr P Chandra Shekar

Disc Degenerative Disease and siRNA therapy – [IEC-25/2014]

Dr GR Chandak

Prevalence and predictors of vitamin B12 deficiency: Genetic associations for low vitamin B12 levels-multi-center a Pan-India study – [IEC-26/2015] - APPROVED

Dr B Kiran Kumar

Effects of small heat shock proteins on self renewal in adult mesenchymal stem cells – [IEC-28/2015] - APPROVED

Dr Suman Thakur

A comprehensive and deep coverage of human tissue proteomic profiling stated from difference ages using Mass Spectrometry based studies – [IEC-29/2015]

Dr Suman Thakur

Identification of pre-/biomarkers as potential candidates for coronary artery disease using quantitative proteomics – [IEC-30/2015]

Dr Suman Thakur

Studies on Pre/Post diabetic complications to search biomarkers for its early diagnosis using Mass Spectrometry based quantitative Proteomics – [IEC-31/2015]

Dr Shashi Singh

Cheminduction of MSC into iPS or progenitor cells– [IEC-32/2015] - APPROVED

-Induction of pluripotency by cheminduction and viral vectors

-Induction of pancreatic lineage by cheminduction

Dr Shashi Singh

Differentiations of MSC in presence of modified niche- [IEC-33/2015] - APPROVED

Dr Shashi Singh

Understanding intervertebral disc regeneration in cultures- [IEC-34/2015] - APPROVED

Dr Sandeep Goel

Buffalo Ocular Fluid as Serum Replacement for Cryopreservation of Human Peripheral Blood Mononuclear Cells (PBMC) – [IEC-35/2015] - APPROVED

Dr Lekha Dinesh Kumar

Novel disease models of colorectal neoplasia by gene knock in and knockout technologies: An answer to the enigma of the role of deregulators in colon cancer and a platform to assess efficacy of nanoparticles as biological drug cargos – [IEC-36/2015] –APPROVED

Dr Lekha Dinesh Kumar

Unique microRNA signatures: Potential and Novel Biomarkers to detect different types, grades and stages of Breast Cancer- [IEC-37/2015] - APPROVED

Dr Puran Singh Sijwali

Investigation of Autophagy in Malaria Parasites – [IEC-38/2015] - APPROVED

Dr K Sridhar Rao

Thrombocytopenia in Children Admitted to Intensive Care Units: An Immunological Exploration- [IEC-39/2015] - APPROVED

Dr Archana B Siva

The Oral Microbiome as a Determinant of progression of Rheumatic Heart Disease in Indian Children [IEC-40/2015] - APPROVED

Dr Shashi Singh

Aging of Stem Cells [IEC-41/2015] - APPROVED

Dr GR Chandak

Epigenetic Mechanisms Linking Maternal Pre-conceptional Micronutrient Supplementation with Offspring Health in India and The Gambia 9Under a DBT, India and MRC, UK Initiative, called as Newton Fund Initiative) - [IEC-41/2015] - APPROVED

Dr Ghanshyam Swarup

Use of Human Retinal Cells to Explore the Functional Defects – [IEC-43/2016] - APPROVED

Dr Shashi Singh

Reconstruction of Kidney and Pancreas after Decellularization – [IEC-44/2016] - APPROVED

Dr N Madhusudhana Rao

Random Baseline Study on Urine Proteome - [IEC-46/2015] - APPROVED

Dr Lekha Dinesh Kumar

An Integrated Multi Omics Approach (Genomics, Transcriptomics, miRnomics and Proteomics) to Identify Alterations in Malignant Phyllodes Tumors – [IEC-47/2016] - APPROVED

Dr Marshal Dayal

Developing Biocompatible Coatings for Bone Implants: Remodeling of Degenerated/Damaged Bone Tissues by Using a Combination of Nanocomposites and Human Umbilical Cord Derived Stem Cells – [IEC-48/2016]

Dr Marshal Dayal

Pulp Stem Cells Isolation, Culture and Differentiation on Metal Surfaces for Potential Uses in Implants – [IEC-49/2016]

Dr Amit Asthana

Development of paper-based biochemical sensors/assay and novel approach to synthesize nano-particles for detection enhancement – [IEC-50/2016] - APPROVED

Dr AJ Rachel

Transcription profiling of Y ampliconic transcripts from somatic tissues and investigation into trans-splicing involving Y noncoding RNA by deep-sequencing – [IEC-51/2016]- APPROVED

Dr Suman Thakur

Biomarker discovery for gestational diabetes for risk prediction and disease progression in Gestational Diabetic Mellitus [GDM]– [IEC-52/2016]

Dr Suman Thakur

A study of proteomic analysis: Urine and placenta in Preeclampsia– [IEC-53/2016]

Dr Ch Mohan Rao

Determination and characterization of protein corona formed on polymeric nanoparticles upon incubation with human serum- [IEC 54/2016] - APPROVED

Dr Sourabh Kumar Srivastava

Affordable and rapid paper based SERS device for early tuberculosis detection – [IEC-55/2016] - APPROVED

Dr Shahila Parween

Low cost paper-based microfluidics device for early detection of cancer – [IEC-56/2017] - APPROVED

Dr V Radha

Identification of novel molecule for diagnosis and prognosis of brain tumors]– [IEC-57/2016]- APPROVED

Dr Marshal Dhayal

Development of functionally active hybrid bone composite- [IEC 58/2017]

Dr Lekha Dinesh Kumar

Role of osteopontin (SPP1 gene) in the initiation and progression of colorectal cancer – [IEC 59/2017] - APPROVED

Dr A Paramasivam [DST-SERB-NPDF/Dr K Thangaraj's Lab]

A critical analysis on the role of MPV17 gene governing the cellular and molecular mechanisms associated with mitochondrial disorder– [IEC-60/2017]- APPROVED

Dr Amit Asthana

Development of paper-based isothermal amplification – [IEC-61/2017] - APPROVED

Dr Anant B Patel

Correlative neuroimaging, genetical and psychological studies in drug or substance of abuse: 1H NMR based metabolomic study – [IEC-62/2018] - REVISE

Dr B Kiran Kumar

Generation of brain organoids from adult human mesenchymal stem cells- [IEC-63/2018] – RESUBMIT

Dr Jyotsna Dhawan

Derivation of induced pluripotent stem cells (iPSCs) from human somatic cells- [IEC-64/2018] – APPROVED

Dr K Thangaraj

Identification and functional characterisation of novel nuclear genes association with mitochondrial dysfunction and diseases – [IEC- 65/2018] – REVISE

Dr Puran Singh Sijwali

Investigation of Autophagy in Malaria Parasites– [IEC-38-R3/2019] - APPROVED

Dr GR Chandak

CSIR Sickle Cell Anaemia Mission [IEC-65/2019] – CONDITIONAL APPROVAL

Dr GR Chandak

Influence of Maternal One-Carbon (1C) Metabolism in Placental Function, Fetal Growth and Programming [IEC-66/2019] – CONDITIONAL APPROVAL

Dr GR Chandak

Early-life Origins of Brain Resilience to Mental Illness and Cognitive Impairment Across the Life-Course [IEC-67/2019] – CONDITIONAL APPROVAL

Dr GR Chandak

Investigating Mechanisms Leading to Preeclampsia [IEC-68/2019] – CONDITIONAL APPROVAL

Dr Shashi Singh

To Establish National Resource for iPS Cell and Derived Lineage Bank Representing the Diversity of Indian Genetic Background for Use in Drug Development and Disease Modeling [IEC-69/2019] – CONDITIONAL APPROVAL

Dr Kartikeyan Vasudeven

In-vitro evaluation of Antivenom-venom Complexes Using Size-Exclusion [IEC-70/2019] - APPROVED

Dr V Radha

Modulation of C3G Levels in iPSC's to Induce Lineage Specific Differentiation, and Generation of Developmental Disease Associated Mutations [IEC-71/2019] - APPROVED

Dr N Nagesh Multi-analyte Sensing Platforms and Molecular Probes for Detection of Target Biomarkers Using Electrochemical and Optical Methods. [Development of Optical Sensors/ Devices of Glutathione, Homocysteine, and Spermine/Spermidine for Diagnostic Use] [IEC-72/2019] –APPROVED

Dr Amit AsthanaDevelopment of Affordable Paper Based Microfluidic Devices for HCV Detection [IEC-73/2019] – CONDITIONAL APPROVAL

Dr V Radha

Development of a CNT-FET based biosensor for HbA1C [IEC-74/2019] –APPROVED

Dr Amit Asthana

Development of an Integrated Paper-Based Protocol for RNA Extraction, Reverse Transcription and Isothermal Amplification from Human Blood. [IEC-75/2019] –APPROVED

Dr K Thangaraj

Creation of International Centre for Genomic Research in Neuromuscular Diseases [IEC-76/2019]- CONDITIONAL APPROVAL

Dr GR Chandak

Healthy Life Trajectories Initiative (HeLTI); Early Interventions to Support Trajectories for Healthy Life in India (EINSTEIN) [IEC-77/2019] – APPROVED

Dr Mohan Babu Appaiahgari [AIC-CCMB],

Identification of early biomarkers of severe dengue in patient plasma [IEC-78/2019] – APPROVED

Dr K Thangaraj

GenomeIndia: Cataloguing the Genetic Variation in Indians [IEC-80/2019] – APPROVED

Dr Santosh Kumar

Obtaining TCR Repertoire of a Small Number of Healthy Individuals [IEC-81/2019] – APPROVED

Dr Rakesh Mishra

Screening of Suspected Individuals using Existing Kits and Development of Affordable and Reliable Diagnostic Tests for Patient and Community Screening in COVID-19 Infection [IEC-82/2020] - APPROVED

Dr Rakesh Mishra & Dr Puran Singh Sijwali

Investigation of the Effect of Genomic, Immunological and Microbiome Factors on COVID-19 Pathogenesis [IEC-83/2020] – APPROVED

Dr Rakesh Mishra

Establishment of COVID19 Biorepository at CSIR-CCMB [IEC-84/2020] – APPROVED

Dr Santosh Kumar

Post-vaccination monitoring of immune response against COVID-19 [IEC-85/2021] – APPROVED

Dr Pavithra Chavali

Role of Microcephaly proteins in neurodevelopment and Cancers [IEC-86/2021]- IEC PROCESSING NOT REQUIRED

Dr Mohammed Idris

Synthesis of therapeutic proteins for Biopharmaceutical Reference standards [IEC-87/2021] – APPROVED

Dr Chandra Shekar

Generation of hiPSCs with extended potential from healthy donors for research purpose [IEC-88/2021] – APPROVED

Dr G Narmada

Understanding the role of mitochondrial dynamics in rheumatic heart disease [IEC-89/2021] – CONDITIONAL APPROVAL

Dr Nitin Tupperwar

Identification and characterization of genetic factors associated with multiple morphological abnormalities of the sperm flagella (MMAF) [IEC-90/2021] – CONDITIONAL APPROVAL

Dr Vinay K Nandicoori

Genomics guided COVID-19 surveillance [IEC-91/2021] –APPROVED

Dr GR Chandak

Generation of Genetic Risk Score to discriminate between Type 1 and Type 2 Diabetes in Indians [IEC-92/2022]- APPROVED

Dr Kalyan Ram Uppaluri, AIC-CCMB

The Genetics of Inflammatory Bowel Disease and Its Association with Complex Diseases in Indian Population by Whole Exome Sequencing [WES] [IEC-93/2022] - RESUBMISSION

Dr Kalyan Ram Uppaluri, AIC-CCMB

Pharmacogenomics in Clinical Practice [IEC-94/2022]- RESUBMISSION

Dr T Karthik Bharadwaj

Precise, Predictive, Preventive, Personalized and Participatory Medicine in India: Host and Microbiota [IEC-95/2022] -APPROVED

Dr T Karthik Bharadwaj

Indian Breast Cancer Genome Atlas [IEC-96/2022] - APPROVED

Dr Shivranjani Moharir

Wastewater based surveillance of SARS-CoV-2 in urban, semi-urban and rural regions of Telangana and Andhra Pradesh-APPROVAL NOT REQUIRED

Dr Santosh Kumar

Isolation and study of lymphocytes from blood of healthy human donors [IEC-97/2022] - APPROVED

Dr Karthikeyan Vasudevan

Mobilizing implementation of R3s [Reduction, Replacement and Refinement] in antivenom efficacy assessment using preclinical in vitro assays for big four snake venoms [IEC-98/2022] -APPROVED

Dr Kiran Kumar Bokara

Biometric hydrogel for Biometric hydrogel for the treatment of blinding corneal diseases [IEC-99/2022] -APPROVED

Dr GR Chandak

Understanding the association and underlying molecular mechanisms of early life 'Double-burden' of malnutrition and non-communicable disease risk in adolescence [IEC-100/2023] - APPROVED

Dr T Karthik Bharadwaj

APSI: Setting up pathogen surveillance systems beyond SARS-CoV-2 [IEC-101/2023]- APPROVED

Dr Swasti Raychaudhuri

Investigation of Amyloid inclusions in patient brain sections and patient derived iPSCs [IEC-102/2023] -APPROVAL NOT REQUIRED

Dr Puran Singh Sijwali

Propagation and genetic alteration of malaria parasites to investigate roles of proteolytic machineries [IEC-103/2023] -APPROVED

Dr Karthikeyan Vasudevan

Epidemiological assessment of the snakebite cases in rural India [IEC-104/2023]- APPROVED

Dr Swasti Raychaudhuri

Investigation of lewy bodies in postmortem in brains [IEC-105/2023]-APPROVED

Dr CB Tripura Sundari

Identifying novel molecular marker panel for non-invasive, early diagnosis of NAFL/NASH in Indian population [IEC-106/2023]-APPROVED

Dr Ira Bhatnagar

Oral care by 3D printed biomaterial mesh for dentoalveolar bone bed regeneration towards osseointegration of dental implant. [IEC-107/2023]-APPROVED

Dr Pavithra Chavali

Delineating roles of neurodevelopmental proteins in glioma progression. [IEC 108/2023]- APPROVED ¹¹_{SEP}

Dr T Karthik Bharadwaj

Diagnostic outcomes of various molecular and cytogenetic tests and techniques in patients with rare genetic diseases – experience from a genetic diagnostic laboratory [IEC-109/2023]- APPROVED

Dr T Karthik Bharadwaj

Phenome India-CSIR Health Cohort Knowledgebase (PI-CheCK)- [IEC-110/2023]- APPROVED

Dr K Thangaraj

Harmonized Diagnostic Assessment of Dementia (DAD) for Longitudinal Aging Study of India (LASI)' [IEC-112/2024] -APPROVED

Dr K Thangaraj

Population screening for genetic mutation responsible for Junctional Herlitz Epidermolysis Bullosa (JHEB) [IEC-113/2024] -APPROVED [for IEC & Stem Cell Ethics]

Dr T Karthik Bharadwaj

Utilization of left-over clinical samples for validation of new diagnostic assays [IEC-114/2024]- APPROVED

Dr GR Chandak

Development of a DNA-based ASSURED point-of-care test for screening of Sickle Cell Anaemia [IEC-115/2024]-APPROVED

Dr P Chandra Shekar

Development of blastoid and endometrial organoid-based robust cell culture model mimicking embryo implantation events in humans [IEC-116/2024]- APPROVED [for IEC & Stem Cell Ethics]

Dr P Chandra Shekar

Derivation of Human Trophoblast Stem Cells (TSCs), Naïve ESCs, and Naïve iPSCs for research purposes [IEC-117/2024]- APPROVED [for IEC & Stem Cell Ethics]

Dr T Karthik Bharadwaj

Program on complement-mediated kidney diseases: Developing commercial ELISA and pipelines for genetic screening, identifying biomarkers, and refining therapies- Sub Proposal- to determine the genetic basis of complement-mediated kidney diseases [IEC-118/2024]- APPROVED