

Funded Projects

Project Grants Obtained					
S.No	Project Title	Investigators	Funding Agency	Sanctioned Year	Amount Sanctioned
1.	Influence of Clonal Hematopoiesis of Indeterminate Potential (CHIP) in patients with coronary artery disease	<u>Co – Investigator:</u> Dr.V. Vettriselvi	ICMR	December 2019	Rs.27,18680
2.	Prenatal Exposure to Air Toxics and Adverse Birth Outcome: An Integrated Rural-Urban Mother-Child Prospective Cohort Study	<u>Co – Investigator:</u> Dr.V. Vettriselvi	ICMR	October 2019	100 Lakhs
3.	Quantification on interleukins in the serum:A noninvasive marker of Endometriosis	<u>Principle Investigator</u> <u>Mrs. Nandhini.B</u> <u>Co – Investigator:</u> <u>Dr. G. Usha Rani</u>	GATE, SRIHER	2019	Rs.95,000
4.	Urinary microRNAs as Potential Biomarkers for childhood Nephrotic Syndrome	<u>Co – Investigator:</u> Dr.V. Vettriselvi,	DBT- BIOCARE	July 2019	Rs.30,14739
5.	Design & Screening of novel small molecules as potential inhibitors of the oncogenic signalling kinase PAK1 for Glioblastomamultiforme	<u>Co – Investigator:</u> Dr.V.Ganesh	SERB	2018-2021	25.85Lakhs
6.	Standardization and testing of Premature Chromosome Condensation (PCC) assay for radiation triage and dose	<u>Principle Investigator</u> Dr. P.Venkatachalam	IGCAR. DAE, INDIA	2017	24.98 lakhs

	estimation				
7	A Study on the Association of Endothelial Nitric Oxide Synthase Gene Polymorphisms and the Risk of Chronic Kidney Disease in Indian Patients with Type 2 Diabetes	<u>Co – Investigator:</u> Dr. Teena Koshy	GATE SRIHER	2018	
Completed Projects					
1.	Genetics of type 2 diabetes in India: a Multicentric population specific family genetic study	<u>Principal Investigator:</u> Dr. Solomon F.D. Paul, <u>Co – Investigator:</u> Dr.V. Vettriselvi, Dr. Teena Koshy	Indo US ICMR-NIH	2016	18000000 + 250000\$
<p><u>Collaborating Institutes:</u></p> <ol style="list-style-type: none"> 1. Sri Ramachandra University (SRU)/Sri Ramachandra Medical Centre (SRMC), Chennai, Tamil Nadu 2. BM Birla Science and Technology Center (BISR), Jaipur, Rajasthan 3. Narayana Medical College and Hospital (NMC), Nellore, Andhra Pradesh 4. Rajah Muthiah Medical College, Annamalai University, Chidambaram, Tamil Nadu <p><u>NIDDK/NIH (U.S.): Project Title: Genetics of Type 2 Diabetes in Indian Populations: US-India Collaboration Project</u></p> <p><u>Collaborating Institutes:</u></p> <ol style="list-style-type: none"> 1. University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma 2. University of Texas Rio Grande Valley, Brownsville and Edinburg, Texas 					
Sri Ramachandra University, Chennai - Tamil Nadu					
Principal Investigator Dr. Solomon F. D. Paul Ph.D.		Principal Faculty of Biomedical Sciences Technology and Research, & Professor & Head, Department of Human Genetics			
Co-Principal Investigator Dr. S. Thanikachalam, M.D., D.M., D.Sc.		Chairman and Director, Cardiac Care Centre			
Co-Principal Investigator Dr. S.P. Thyagarajan Ph.D.		Professor of Eminence and Dean (Research)			

D.Sc.		
Co- Investigator Dr. V. Vettriselvi Ph.D.	Associate Professor Department of Human Genetics	
Co- Investigator Dr. Teena Koshy M.Sc. (Ph.D.)	Senior Lecturer Department of Human Genetics	
Co- Investigator Dr. N. Chidambaram, M.D.	Dean of Medicine, Department of Medicine, Rajah Muthiah Medical College, Annamalai University, Chidambaram, Tamil Nadu, India	
Co- Investigator Dr. R. Umarani, M.D.	Department of Medicine, Rajah Muthiah Medical College, Annamalai University, Chidambaram, Tamil Nadu, India	
BM Birla Science &Technology Center (BISR), Jaipur -Rajasthan		
Co-Principal Investigator	Dr. Rajeev Gupta MD Ph.D.	Chairman & Visiting Professor, Academic and Research Development Unit, RUHS
Co-Principal Investigator	Dr. Krishna Mohan Medicherla Ph.D.	Scientist, BISR
Narayana Medical College & Hospital, Nellore -Andhra Pradesh		
Co-Principal Investigator	Dr. Kandregula Dileep Kumar MD, DM	Prof & HOD, Department of Endocrinology
USA Collaborators: <u>The University of Texas Rio Grande Valley</u>, Edinburg, Texas, USA		
Principal Investigator	Dr. Ravindranath Duggirala, Ph.D.	Professor, South Texas Diabetes and Obesity Institute, School of Medicine, The <u>University of Texas Rio Grande Valley</u> , Edinburg, Texas, USA.
Co-Principal Investigator	Dr. John Blangero, Ph.D.	Director, Genomics Computing Center, South Texas Diabetes and Obesity Institute, School of Medicine, The <u>University of Texas Rio Grande Valley</u> , Edinburg, Texas, USA.
USA Collaborators - <u>The University of Oklahoma, College of Medicine, Oklahoma , USA</u>		
Principal Investigator	Dr. Sanghera, Dharambir (HSC)	Professor & Director, Molecular Genetic Epidemiology Laboratory, Department of Pediatrics, Section of Genetics <u>College Of Medicine / Peds - Genetics</u> , The University of Oklahoma, College of

				Medicine, Oklahoma, USA.	
2.	Evaluation of genetic polymorphisms in ABCBI and CEP72 genes as pharmacogenetic markers in patients receiving vincristine based chemotherapy	<u>Co-Investigator:</u> Dr. S. Harpreet Kaur	GATE, SRU	2016	85,000
3.	Study on the role of mir-20, mir-146, mir-196 and mir-499 gene polymorphisms in prostate cancer	<u>Principal Investigator:</u> Dr.V. Vettriselvi	DBT Pilot Project Grant for young Investigators in Cancer Biology	2015	24 lakhs
4.	Study on the genetic variants of thiopurine and folate metabolic pathway and 6-Mercaptopurine - mediated hematological toxicity in childhood acute lymphoblastic leukemia	<u>Principal Investigator:</u> Dr. Harpreet Kaur <u>Co – Investigator:</u> Dr. Teena Koshy	DBT Pilot Project Grant for young Investigators in Cancer Biology DBT	2015	24,37,400
5.	Ovarian cancer Susceptibility Genes in a South Indian Population	<u>Principal Investigator:</u> Mrs. Andrea Mary F <u>Co – Investigators:</u> Dr. Usha Rani G Dr. Ramya R Dr. Nalini Ganesan	DBT Pilot Project Grant for young Investigators in Cancer Biology	2015	24.3lakhs
6.	Investigating serum PAK1 as a diagnostic and prognostic marker in breast cancer patients	<u>Principal Investigator:</u> Dr.Ganesh Venkatraman	Board of Research in Nuclear Sciences-DAE	2015	30.85lakhs
Collaborating Institute: IIT Madras					
7.	Chemoprotective efficacy of resveratrol against Cisplatin and Bleomycin induced chromosome	<u>Principal Investigator:</u> Dr. J. Vijayalakshmi <u>Co – Investigators:</u>	GATE, SRU	2015	90,000

	damage in human peripheral blood lymphocytes evaluated by Cytokinesis Blocked Micronucleus (CBMN) and Sister Chromatid Exchange Assay.	Dr. Solomon F.D. Paul,			
8.	A population Pharmacokinetic & pharmacogenetic study on capox therapy on colorectal cancer patients	Co – Investigators: Dr.V.Vettriselvi	ICMR (Indian Council of medical Research)	2015	7 lakhs
9.	Biological effects of low dose alpha particle radiation exposure to blood lymphocytes for biodosimetry	Principal Investigator: Dr. P.Venkatachalam Co – Investigators: Dr. Solomon F.D. Paul,	AERB	2014	48.15 lakhs
10.	PAK-1 as a therapeutic target in Glioma	Principal Investigator: Dr.Ganesh Venkatraman	DBT	2014	37.58lakhs
Collaborating Institute: IIT Madras					
11.	Study on the genetic variants of thiopurine methyltransferase(TPMT) in 6 mercaptopurine mediated hemotolgical toxicity in childhood ALL	Principal Investigator: Dr. S. Harpreet Kaur	GATE SRU	2014	1lakh
12.	Biological effects of low dose ionizing radiation received during diagnostic radiological procedures	Principal Investigator Dr. P Venkatachalam	DST SERB	2013	46.23lakhs
13.	Standardization, establishment and inter laboratory comparison of γ -H2AX assay for triage	Principal Investigator Dr.P. Venkatachalam Co – Investigators:	LSRB/DRDO	2012-2014	24.90lakhs

	biodosimetry	Dr. J. Vijayalakshmi			
14.	Study On The Role Of HLA -C And KIR Genes In Unexplained Recurrent Spontaneous Abortion	<u>Principal Investigator</u> Dr.V.Vettriselvi	DST	2012 - 2015	21 Lakhs
15.	Role of Gene Environment Interactions in Modifying Associations between Exposure to Air pollution and Birth Weight	<u>Co – Investigator:</u> Dr.V.Vettriselvi	ICMR (Part of ICMR – CAR funded to EHE Department)	2010 - 2015	19 Lakhs
16.	Interleukin 1 gene polymorphisms in chronic periodontitis – a causal or casual association	<u>Co – Investigator:</u> Dr.V.Vettriselvi	DST	2012 - 2015	33 Lakhs
17.	Development of potential response to radiation phenotypes (RRPs) for genetic studies: a pilot study.	<u>Principal Investigator:</u> Dr. Ravindraranath Duggirala <u>Co –Investigator:</u> Dr.Solomon F.D. Paul	Forum Grant – Texas Biomed Research Institute. Owens Research Foundation	2012-2013	\$ 35000.00
18.	Genetic polymorphism in estrogen metabolizing enzymes and breast cancer risk	<u>Principal Investigator</u> Mrs. Andrea Mary F <u>Co – Investigator:</u> Dr. Ramya R. Dr. Nalini Ganesan	GATE project - SRU	2013	0.90 lakhs
19.	Inter laboratory comparison of radiation dose response calibration curve using dicentric assay.	<u>Principal Investigator</u> Dr. P Venkatachalam <u>Co – Investigator:</u> Dr.J Vijayalakshmi	DRDO-INMAS	2013	14.9 lakhs
20.	Role of MTHFR gene polymorphism in male infertility	<u>Principal Investigator</u> Mrs.B Nandhini	GATE project - SRU	2013	0.80 Lakh
21.	Cytogenetics of idiopathic mental retardation	<u>Co – Investigator:</u> Dr.P. Venkatachalam	ICMR	2010-2013	20.9 lakhs
22.	99mTc Radiolabeled	<u>Principal</u>	Board of	2010-2013	20.58 lakh

	dendrimer drug conjugates targeted to ovarian cancer cells	<u>Investigator:</u> Dr. Ganesh Venkatraman	Research in Nuclear Sciences-DAE		
23.	Evaluation of radioprotective efficacy of anti-oxidants by assessing chromosomal aberrations in bone marrow of mice	<u>Principal Investigator:</u> Dr J. Vijayalakshmi	DRDO	2010-2013	4.32 lakhs
24.	Synthesis and antiproliferative activity of novel glycoprolidines	<u>Principal Investigator:</u> Dr. Ganesh Venkatraman	DST	2011 – 2013 (Three)	50 .0 lakhs
25.	Assessment for Pre-clinical utility of peptide nanostructures	<u>Principal Investigator:</u> Dr. Ganesh Venkatraman	DBT	2010 -2013 (Three)	9.38 lakhs
26.	Phycocyanin - a novel COX-2 inhibitor for chemotherapy of epithelial neoplasms	<u>Principal Investigator:</u> Dr.Ganesh Venkatraman	DST	2010 -2013 (Three)	13.83 lakhs
27.	Production of immunoassay compatible monoclonal antibodies against human thyroid stimulating hormone (hTSH) and their application in Immunoassay development (Co-I)	<u>Co-Investigator:</u> Dr.Ganesh Venkatraman	BRNS	2012-1015 (Three)	34.99 lakhs
28.	Synthesis and antiproliferative activity of novel glycoprolidines	<u>Principal Investigator:</u> Dr. V Ganesh Venkatraman	DST	2011 – 2013 (Three)	50 .0 lakhs
29.	Development of potential response to radiation phenotypes (RRPs) for genetic studies: a pilot study.	<u>Principal Investigator:</u> Dr. Ravindraranath Duggirala <u>Co-Investigator:</u> Dr.Solomon F.D. Paul	Forum Grant – Texas Biomed Research Institute. Owens Research Foundation	2012-2013	\$ 35000.00

30.	Ex-vivo of chondrocytes in a 3D novel thermo gelatin polymer scaffold – characterization and experimental <i>in vivo</i> transplantation in animal models	<u>Principal Investigator:</u> Dr. S. Arumugam <u>Co-Investigators</u> Dr. Samuel J.K. Abraham Dr. Solomon F.D. Paul	DST, India	2010-2013	3635000.00
31.	Molecular cytogenetic studies in mental retardation and to provide Genetic services and counselling as an ICMR networking centre on Human Genetics	<u>Principal Investigator:</u> Dr. Solomon F.D. Paul	ICMR, India	2010-2013	3300000.00
32.	Study of effects of pulsed electromagnetic field on cultured chondrocytes	<u>Principal Investigator:</u> Dr. Ganesh M. <u>Co-Investigator:</u> Dr. Solomon F.D. Paul	DRDO, India	2009	992450.00
33.	Biological Dosimetry - Preparedness	<u>Principal Investigator:</u> Dr. Solomon F.D. Paul	Institute of nuclear Medicine and Allied Sciences (INMAS), DRDO, Delhi, India	2009	989200.00
34.	Genomic Instability In Bystander Human Cells And Their Progeny Exposed To Radiomimetic Drug Using 3-D Cultures	<u>Principal Investigator:</u> Dr. P. Venkatachalam <u>Co-Investigator:</u> Dr. Solomon F.D. Paul,	Department of Science and Technology (DST), New Delhi	2007	2292280.00
35.	Validation On The Measurement Of Translocation Frequency For Cumulative Dose Estimation	<u>Principal Investigator:</u> Dr. P. Venkatachalam and Dr. Solomon F.D. Paul.	Atomic Energy Regulatory Board (AERB), Mumbai	2002	1843360.00
36.	Molecular Study On The Genetics Of Prostrate	<u>Principal Investigator:</u>	Council of Scientific and	2003	677065.00

	Cancer	Dr. Solomon F.D. Paul,	Industrial Research (CSIR) New Delhi		
37.	Somatic Cell Mutational Immunoassay Of Glycophorin A (GPA) Using Monoclonal Antibody For Biological Dosimetry	<u>Principal Investigator:</u> Dr. Solomon F.D. Paul,	Atomic Energy Regulatory Board (AERB), Mumbai	2000	1709420.00
38.	Radio-Protective Effect Of 2-Dg In Human Peripheral Blood Lymphocytes From Normal Persons And Cervical Cancer Patients Exposed In-Vivo To High Dose-Rate Gamma Radiation As Indicated By Chromosomal Aberrations And Micronuclei Assay	<u>Principal Investigator:</u> Dr. Solomon F.D. Paul,	Council for Scientific and Industrial Research (CSIR), New Delhi	2003	157997.00