

Clinical Training: Biochemical screening, cytogenetics, molecular cytogenetics, molecular diagnosis of various genetical disorders is routinely done at the department of human genetics. More over prenatal screening of samples of high risk patients carried out in the department regularly. Karyotyping using cytovision Image analyzer system.

PROJECT SANCTIONED						
S. No.	Project Title	Investigators	Funding Agency	Year of Sanction	Cost in Rupees	Status
On-going Projects						
1.	Genetics of type 2 diabetes in India: a Multicentric population specific family genetic study	Principal Investigator Dr. Solomon F.D. Paul	Indo US ICMR-NIH	2016-2018	18000000 + 2500000\$	Ongoing
<p><u>Collaborating Institutes:</u> 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> <p><u>NIDDK/NIH (U.S.):</u> Project Title: Genetics of Type 2 Diabetes in Indian Populations: US-India Collaboration Project</p> <p><u>Collaborating Institutes:</u> 1. University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma 2. University of Texas Rio Grande Valley, Brownsville and Edinburg, Texas</p>						
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. D.Sc.		Professor of Eminence and Dean (Research)				
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		Dean of Medicine, Department of Medicine, Rajah Muthiah Medical				

	Dr. N. Chidambaram, M.D.	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: The <u>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 - The University of Oklahoma, College of Medicine, Oklahoma , USA						
	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.			
Completed Projects						
1.	Development of potential response to radiation phenotypes (RRPs) for genetic studies: a pilot study.	PI- Dr. Ravindranath Duggirala Co-PI Solomon F.D. Paul	Forum Grant – Texas Biomed Research Institute. Owens Research Foundation	2012-2013	\$ 35000.00	C2014
2.	Ex-vivo of chondrocytes in a 3D novel thermo gelatin	Principal Investigator Dr.	DST, India	2010-	3635000.00	C2013

	polymer scaffold – characterization and experimental <i>in-vivo</i> transplantation in animal models	S. Arumugam Co-Investigator Dr. Samuel J.K. Abraham Dr. Solomon F.D. Paul		2013		
3.	Molecular cytogenetic studies in mental retardation and to provide Genetic services and counselling as an ICMR networking centre on Human Genetics	Principal Investigator Dr. Solomon F.D. Paul	ICMR, India	2010-2013	3300000.00	C2013
4.	Study of effects of pulsed electromagnetic field on cultured chondrocytes	Principal Investigator Dr. Ganesh M. Co- Investigator Dr. Solomon F.D. Paul	DRDO, India	2009	992450.00	C 2012
5.	Biological Dosimetry - Preparedness	Dr. Solomon F.D. Paul, Department of Human Genetics	Institute of nuclear Medicine and Allied Sciences (INMAS), DRDO, Delhi, India	2009	989200.00	C 2011
6.	Genomic Instability In Bystander Human Cells And Their Progeny Exposed To Radiomimetic Drug Using 3-D Cultures	Dr. P. Venkatachalam and Dr. Solomon F.D. Paul, Department of Human Genetics	Department of Science and Technology (DST), New Delhi	2007	2292280.00	C 2011
7.	Validation On The Measurement Of Translocation Frequency For Cumulative Dose Estimation	Dr. P. Venkatachalam and Dr. Solomon F.D. Paul, Department of Human Genetics	Atomic Energy Regulatory Board (AERB), Mumbai	2002	1843360.00	C 2007
8.	Molecular Study On The Genetics Of Prostrate Cancer	Dr. Solomon F.D. Paul, Department of Human Genetics	Council of Scientific and Industrial Research (CSIR)	2003	677065.00	C 2007

			New Delhi			
9.	Somatic Cell Mutational Immunoassay Of Glycophorin A (GPA) Using Monoclonal Antibody For Biological Dosimetry	Dr. Solomon F.D. Paul, Department of Human Genetics	Atomic Energy Regulatory Board (AERB), Mumbai	2000	1709420.00	C 2004
10.	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	Dr. Solomon F.D. Paul, Department of Human Genetics, SRU	Council for Scientific and Industrial Research (CSIR), New Delhi	2003	157997.00	C 2003