



# SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY

## LIST OF APPROVED PhD GUIDES AND THEIR AREAS OF RESEARCH

(AT DIFFERENT WINGS OF SCTIMST & CENTRES CONDUCTING AFFILIATED PROGRAMS)

### HOSPITAL WING, SCTIMST

Sl. No.	Name, Designation Department/ Division/ Lab	Areas of Research	Contact details
1	<b>Dr. Asha Kishore</b> <b>Director, SCTIMST &amp;</b> <b>Professor (Senior Grade)</b> <b>Dept. of Neurology</b>	"Genetics and molecular pathology of movement disorders, Non-invasive brain stimulation-based neuro-science research (transcranial magnetic stimulation and fMRI based research)" in movement disorders, medical devices technology development for movement disorders	Email: <a href="mailto:asha@sctimst.ac.in">asha@sctimst.ac.in</a> Tel.: 0471-2524601
2	<b>Dr. Ashalatha Radhakrishnan</b> <b>Professor</b> <b>Dept. of Neurology</b>	Epilepsy, Sleep Medicine, Electrophysiology, Imaging and Epilepsy	Email: <a href="mailto:drashalatha@sctimst.ac.in">drashalatha@sctimst.ac.in</a> Tel.: 0471-2524282 Mob.: 9847416321
3	<b>Dr. S. Harikrishnan</b> <b>Professor</b> <b>Dept. of Cardiology</b>	Atherosclerotic coronary artery disease in the young, Epidemiology-Coronary artery disease, Rheumatic valvular heart disease, Pulmonary hypertension	Email: <a href="mailto:drhari@sctimst.ac.in">drhari@sctimst.ac.in</a> Tel.: 0471-2524458
4	<b>Dr. C. Kesavadas</b> <b>Professor</b> <b>Dept. of Imaging Sciences and Interventional Radiology</b>	Functional neuroimaging, magnetic resonance imaging, Medical image processing	Email: <a href="mailto:kesav@sctimst.ac.in">kesav@sctimst.ac.in</a> Tel.: 0471-2524215 Mob.: 9447047002
5	<b>Dr. Neethu Mohan</b> <b>Scientist D</b> <b>Cellular and Molecular Cardiology</b>	Fibroblasts, cardiac stem cells, exosomes and micro RNA in cardiac disease and remodelling. Role of connexins in cardiac fibroblast phenotypic transformation and extra cellular matrix synthesis in cardiac diseases.	Email: <a href="mailto:neethum@sctimst.ac.in">neethum@sctimst.ac.in</a> Telephone: 0471-2524505
6	<b>Dr. Ramshekhar N. Menon</b> <b>Additional Professor</b> <b>Dept. of Neurology</b>	Pediatric epilepsy cognitive neurosciences	Email: <a href="mailto:rsnmenon@sctimst.ac.in">rsnmenon@sctimst.ac.in</a> Mob.: 9946916769; 9495691626
7	<b>Dr. Sanjeev Thomas</b> <b>Professor (Sr. Grade)</b> <b>Dept. of Neurology</b>	Clinical epileptology, Electrophysiology, Pharmacogenomics, Molecular genetics of epilepsy, Neuropsychology, Language dysfunction	Email: <a href="mailto:sanjeev@sctimst.ac.in">sanjeev@sctimst.ac.in</a> Tel.: 0471-2524468
8	<b>Dr. K. Shivakumar</b> <b>Scientist G and Head</b> <b>Division of Cellular &amp; Molecular Cardiology</b>	<i>This laboratory focuses on molecular mechanisms that determine the critical role of cardiac fibroblasts in the structural and functional remodeling of the heart associated with several cardiovascular disease states. The specific areas of interest at this time include: 1) regulation of the cardiac fibroblast cell cycle; 2) molecular basis of the relative resistance of cardiac fibroblasts to apoptosis, and; 3) regulation of AT1, DDR2 and collagen gene expression in cardiac fibroblasts.</i>	Email: <a href="mailto:shivak@sctimst.ac.in">shivak@sctimst.ac.in</a> Tel.: 0471-2524593 Mob.: 9446192517

9	<b>Dr. S. Sivasankaran</b> <b>Professor</b> <b>Dept. of Cardiology</b>	Pediatric and preventive cardiology and cardiovascular epidemiology	Email: siva@sctimst.ac.in Tel.: 0471-2524458
10	<b>Dr. G. Srinivas</b> <b>Scientist F</b> <b>Dept. of Biochemistry</b>	Mitochondrial metabolism and function in diabetic heart, myocardial autophagy in diabetes, protein modifications in type 2 diabetes, role of macrophages in amyloid beta clearance in Alzheimer's disease.	Email: srinivasg@sctimst.ac.in Tel.: 0471-2524689 Mob.: 8547547918
11	<b>Dr. P. N. Sylaja</b> <b>Professor</b> <b>Dept. of Neurology</b>	Neuroimaging in stroke, stroke rehabilitation and stroke genetics, Biomarkers in stroke, community stroke care.	Email: sylajapn@sctimst.ac.in; sylajapn@hotmail.com Tel.: 0471-2524482 Mob.: 9446566287

### **ACHUTHA MENON CENTRE FOR HEALTH SCIENCE STUDIES, SCTIMST**

Sl. No.	Name, Designation Department/ Division/ Lab	Areas of Research	Contact details
1.	<b>Dr. Biju Soman</b> <b>Professor</b>	Public Health, Public health technologies (Informatics, GIS-Public Health, Telemedicine & HTA). Epidemiology, disease surveillance & precision public Health; Data science & public health analytics.	Email: bijusoman@sctimst.ac.in Tel.: 0471-2524230 Mob.: 9447862736
2.	<b>Dr. P. Jeemon</b> <b>Assistant Professor</b>	Chronic diseases, Complex public health interventions, disease registry	Email: jeemon@sctimst.ac.in Tel.: 0471-2524250
3.	<b>Dr. Mala Ramanathan</b> <b>Professor</b>	Public Health, Medical Anthropology, Gender in public health, Population Sciences	Email: mala@sctimst.ac.in Tel.: 0471-2524234
4.	<b>Dr. V. Raman Kutty</b> <b>Emeritus Professor</b>	<i>Epidemiology, Health System Research, Public health, Epidemiology of diabetes, Health policy</i>	<i>Email: rkutty@sctimst.ac.in Tel.: 0471-2524240 Mob.: 9847060199</i>
5.	<b>Dr. P. Sankara Sarma</b> <b>Professor</b>	Applications of Biostatistics and Demography in Health and Medical Sciences	Email: sarma@sctimst.ac.in Tel.: 0471-2524232
6.	<b>Dr. K. Srinivasan</b> <b>Professor</b>	Public Health, Health Management, Health System Research	Email: ksriini@sctimst.ac.in Tel.: 0471-2524243 Mob.: 9895162657

### **BIOMEDICAL TECHNOLOGY WING, SCTIMST**

1	<b>Dr. P.R. Anil Kumar</b> <b>Scientist E</b> <b>Division of Tissue Culture</b>	3D Bioprinting, Stem Cells, Tissue Engineering and Regenerative Medicine, Novel Polymeric Scaffolds Cell Technologies-Cell Sheet Technology, 3D culture systems, <i>In vitro</i> organotypic systems, Bioreactors.	Email: anilkumarpr@sctimst.ac.in Tel.: 0471-2520311 Mob.: 9447340754
2	<b>Dr. T.V. Anilkumar</b> <b>Scientist G</b> <b>Division of Experimental Pathology</b>	Experimental Pathology, Mammalian derived extracellular matrix for tissue engineering applications	Email: tvanilkumar@sctimst.ac.in Tel.: 0471-2520305
3	<b>Dr. T. Anoop Kumar</b> <b>Scientist G</b> <b>Division of Molecular Medicine</b>	Molecular Neurobiology	Email: anoop@sctimst.ac.in Tel.: 0471-2520257; 2520256 Mob.: 9495200824

4	<b>Dr. P.R. Harikrishna Varma</b> <b>Head, BMT Wing</b>	Synthesis and characterization bioactive ceramics and their composites, nano ceramic and inorganic materials for biomedical applications, Chemical methods of synthesis of bioceramic materials, biomimetic preparation and processing of advanced inorganic-organic materials , biosensors and their fabrication using advanced ceramic processing methods, ceramic coatings by pulsed laser ablation and other techniques	Email: varma@sctimst.ac.in Tel.: 0471-2520201 Mob.: 9446454427
5	<b>Dr. R.S. Jayasree</b> <b>Scientist F</b> <b>Division of Biophotonics and Imaging</b>	Synthesis and characterization of nanomaterials for sensing, therapy and imaging applications. Gold Quantum cluster based-biosensors, imaging contrast agents and therapeutic agents, iron oxide based-MRI and optical imaging contrast agents, gold nanorod based-therapeutic and optical imaging agents, QD-CNT based systems for imaging etc. Fluorescence spectroscopic techniques for the differentiation of normal and diseased tissues. Development of low cost diagnostic systems for fluorescence and diffuse reflectance spectra and imaging. In vivo and ex vivo Fluorescence Spectroscopy, Imaging and Image processing.	Email: jayasree@sctimst.ac.in Tel.: 0471-2520273
6	<b>Dr. Kamalesh K. Gulia</b> <b>Scientist F</b> <b>Division of Sleep Research</b>	Neurophysiology of sleep and Cognition; Role of sleep in developmental programming; Neural dynamics after sleep deprivation using animal models, and simulation protocols in human; Mechanism for interaction of sleep and thermoregulation; Identification of non-pharmacological interventions for treating insomnia ; Evaluation of ayurvedic principles for regulation of sleep.	Email: kkgulia@sctimst.ac.in Tel.: 0471-2520398 Mob.: 9048344712
7	<b>Dr. Lissy K. Krishnan</b> <b>Scientist G</b> <b>Division of Thrombosis Research</b>	<i>Major goal of research is to develop autologous cells for regenerative medicine with specific emphasis on applications of adult stem cells for vascular tissue engineering, skin tissue engineering and neural regeneration. The strategy adopted by the group is to design cell-specific fibrin composite comprising adhesive proteins and growth factors as niche for adult stem cell isolation, differentiation &amp; transplantation in animal models. The research guided by her has led to: differentiation of multi potent adult progenitor cells (MAPC) in human peripheral blood mononuclear cell (PBMNC) fraction to endothelial cells, smooth muscle cells, keratinocytes, and neurons; differentiation of human adipose derived mesenchymal stem cells (ADMSC) to dermal fibroblasts, epidermal keratinocytes and cardiomyocyte progenitors; and differentiation of rat bone marrow derived mesenchymal stem cells (BMDMSC) to neurons. Stem cell/ differentiated cells are characterized by studying expression of specific markers at transcriptional and translational level using modern techniques</i>	Email: lissykk@sctimst.ac.in Tel.: 0471-2520219 Mob.: 9447046727
8	<b>Dr. P.P. Lizymol</b> <b>Scientist F</b> <b>Division of Dental Products</b>	Bioactive nanocomposites for dental and orthopaedic applications; Synthesis & characterization of radiopaque, cyto-compatible and bioactive polymers for biomedical applications; Tissue adhesives for	Email: lizymol@sctimst.ac.in Tel.: 0471- 2520221

		dental and orthopaedic applications; Bioactive bone cement for load carrying applications, cemented arthroplasty, to reconstruct the diseased bone and deliver bioactive agents to the body and for the treatment of osteoporotic vertebral compression fractures; Periodontal Guided tissue regeneration; Dental caries preventing materials; Novel photopolymerizable polymeric scaffolds for tissue engineering and regeneration; Controlled drug delivery systems; Tomographic studies of dental microstructure and polymerization shrinkage; FT Raman spectroscopic studies of biomaterials; Plasticizers free flexible PVC for medical applications; Synthesis of advanced inorganic-organic polymeric materials using green chemistry and environmentally friendly chemical processes.	
9	<b>Dr. Manoj Komath Scientist G Division of Bioceramics</b>	Materials Physics, Design and development of synthetic bone substitute materials, Design of injectable bioactive bone cements, Development of bioactive coatings on implants, Development of protective and functional carbon coatings on medical devices.	Email: manoj@sctimst.ac.in Tel.: 0471-2520240 Mob.: 9387414142
10	<b>Dr. A. Maya Nandkumar Scientist G Division of Microbial Technology</b>	Developing Tissue Engineered models for study of cell – material – bacterial interactions. Gene expression profiling in microbial biofilm.	Email: anmaya@sctimst.ac.in; amayanandkumar@gmail.com Tel.: 0471-2520260 Mob.: 9446559543
11	<b>Dr. P.V. Mohanan Scientist G Division of Toxicology</b>	Toxicological/biocompatibility studies of materials, Nanomaterial toxicology, Molecular and Immunotoxicology, Toxicology of degradable materials, Development of In vitro alternative methods in toxicology, Hypersensitivity (allergy) studies of biomaterials	Email: mohanpv@sctimst.ac.in Tel.: 0471-2520266 Mob.: 9446542702
12	<b>Dr. Prabha D. Nair Scientist G (Sr. Grade) Division of Tissue Engineering and Regeneration Technologies</b>	Tissue engineering and stem cell research. Novel biomaterials and scaffolds- Synthesis & characterization, Controlled drug delivery.	Email: prabha@sctimst.ac.in Tel.: 0471-2520242 Mob.: 9895574350
13	<b>Dr. P. Ramesh Scientist G Division of Polymeric Medical Devices</b>	Polymeric biomaterials for medical devices and implants, processing of biomedical polymers, nanocomposites, biodegradable and bioactive composites, electrospinning of polymers and composites, polymeric bioelectrodes and conductive hydrogels	Email: rameshp@sctimst.ac.in Tel.: 0471-2520225 Mob.: 9446489752
14	<b>Dr. M.R. Rekha Scientist F Division of Biosurface Technology</b>	Polymeric biomaterials for therapeutic molecule delivery applications; focusing on oral peptide delivery systems, advanced wound care materials for chronic wounds and non-viral gene delivery systems.	Email: rekhamr@sctimst.ac.in Tel.: 0471-2520284 Mob.: 9847955634
15	<b>Dr. Roy Joseph Scientist G Division of Polymeric Medical Devices</b>	Radiopaque polymers for embolization–liquid and microspheres, Polymer-ceramic/bioglass composites, bioink for 3D bioprinting, cell-nanomaterial interactions, metal–curcumin complexes for medical applications, surface modification of medical devices, hydrogel systems, translational research	Email: rjoseph@sctimst.ac.in Tel.: 0471-2520275 Mob.: 9447000987

16	<b>Dr. P.R. Umashankar</b> <b>Scientist G</b> <b>Division of In vivo Models and Testing</b>	Regenerative medicine, Guided tissue regeneration, Scaffold induced regeneration, Pharmacological modulation of tissue response, Animal models, Medical device safety/efficacy.	Email: umashnkr@sctimst.ac.in Tel.: 0471-2520226 Mob.: 9495984231
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**PhD GUIDES OF AFFILIATED PROGRAMS AT**  
**CHRISTIAN MEDICAL COLLEGE, VELLORE**

<b>Sl. No.</b>	<b>Name and Designation</b>	<b>Areas of Research</b>	<b>Contact details</b>
1.	<b>Dr. Alok Srivatsava</b>	Stem Cell Biology, molecular haematology and gene therapy	Email: aloks@cmcvellore.ac.in
2.	<b>Dr. E. Eunice Sindhuvi</b>	Characterization of genes involved in iron metabolism. Regulation of globin synthesis in Haemoglobin E syndromes	Email: Eunice@cmcvellore.ac.in Tel.: 0416-2283569
3.	<b>Dr. Gagandeep Kang</b>	Public Health, communicable diseases, Vaccine preventable diseases, enteric infections, molecular Epidemiology	Email: gkang@cmcvellore.ac.in Tel.: 0416-2282052
4.	<b>Dr. Jacob John</b>	Public Health: Infectious disease epidemiology, Vaccine preventable pediatrics infectious diseases.	Email: Jacob@cmcsph.org Tel: 0416-2284207
5.	<b>Dr. Jasmin Helan</b>	Public Health, Reproductive and Adolescent Health Women's Health - Reproductive Tract Infection - Sexually Transmitted Infection - HIV Prevention - Economic Evaluation Studies	Email: jasminp@cmcvellore.ac.in Tel.: 0416-2284400
6.	<b>Dr. Mohankumar K. Murugesan</b>	Stem Cell Biology, Gene editing for hematological disorders, Molecular hematology and Gene therapy	mohankumarkm@cmcvellore.ac.in Tel.: 0416-3075140
7.	<b>Dr. Murugan Ramalingam</b>	Focused on the development of multiphase biomedical materials, through conventional to nanotechnology to biomimetic approaches, microfabrication, cell patterning, stem cell differentiation, tissue engineering and drug delivery	Email: murugan@cmcvellore.ac.in Tel.: 0416-3075137
8.	<b>Dr. B. Poonkuzhali</b>	Mechanisms and modulation of drug resistance in leukemias, pharmacogenetics of anticancer agents, Conditioning regimens in Allogeneic stem cell transplantation	Email: bpoonkuzhali@cmcvellore.ac.in Tel.: 0416-2283476
9.	<b>Dr. R.V. Shaji</b>	Stem Cell Biology, Molecular Haematology	Email: rvshaji@cmcvellore.ac.in Tel.: 0416-3075114
10.	<b>Dr. Srinivas Babu</b>	Neurophysiology	Email: srinivas@cmcvellore.ac.in Tel.: 0416-2282442
11.	<b>Dr. Suresh Devasahayam</b>	Biomedical Signal Processing, Biomedical Instrumentation, Rehabilitation Engineering, Physiological Measurement.	Email: surdev@cmcvellore.ac.in Tel.: 0416-2285097; 2285098
12.	<b>Dr. Vikram Mathews</b>	Leukemia biology and resistance, Evaluation of novel combination therapy for leukemia. Allogeneic stem cell transplantation, graft manipul	Email: vikram@cmcvellore.ac.in Tel.: 0416-3072801
13.	<b>Dr. Vrisha Madhuri</b>	Tissue Engineering and Regenerative Medicine, Musculoskeletal Stem Cells in Orthopaedics	Email: madhuriwalter@cmcvellore.ac.in Tel.: 0416-2282171

**PhD GUIDES OF AFFILIATED PROGRAM AT**  
**INDIAN INSTITUTE OF PUBLIC HEALTH, NEW DELHI**

<b>Sl. No.</b>	<b>Name and Designation</b>	<b>Areas of Research</b>	<b>Contact details</b>
1	<b>Prof. Sanjay Zodpey</b> Vice President – PHFI and Director – IIPH Delhi	Epidemiology and Health Systems	Email: sanjay.zodpey@phfi.org Mob.: 09871115640
2	<b>Dr. Habib Hasan Farooqui</b> Associate Professor	Pharmaceutical economics, Economic burden of diseases, Cost Effectiveness Analysis, Access to Medicines, Access to vaccines, medicine utilisation and expenditures, Impact evaluation of policy interventions	Email: habib.hasan@iiphd.org Mob.: 09999984673
3	<b>Dr. Suparna Ghosh-Jerath</b> Additional Professor	Public Health Nutrition	Email: suparna.ghoshj@iiphd.org Mob.: 09711311910
4	<b>Dr. Sutapa Bandyopadhyay</b> Neogi Additional Professor	Maternal, newborn and child health	Email: sutapa.bneogi@iiphd.org Tel.: 0124-4722911

**PhD GUIDES OF AFFILIATED PROGRAM AT**  
**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY & MANAGEMENT –**  
**KERALA**

<b>Sl. No.</b>	<b>Name and Designation</b>	<b>Areas of Research</b>	<b>Contact details</b>
1.	<b>Dr. Joseph Suresh Paul</b> Associate Professor	Medical Image Processing, Magnetic Resonance Imaging, MR Image Acquisition and Signal Processing	Email: j.paul@iiitmk.ac.in Tel.: 0471-2527567 Mob.: 9846627817

**PhD GUIDES OF AFFILIATED PROGRAM AT**  
**NATIONAL INSTITUTE OF EPIDEMIOLOGY, CHENNAI**

<b>Sl. No.</b>	<b>Name and Designation</b>	<b>Areas of Research</b>	<b>Contact details</b>
1.	<b>Dr. Manoj Murhekar</b> Scientist G	Epidemiology	Email: mmurhekar@gmail.com Tel.: 044-26136426 Mob.: 9444414663

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