



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, त्रिवेंद्रम केरल- 695 011, भारत
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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.	Dr. Ashalatha R. Professor Dept. of Neurology	Epilepsy, Sleep Medicine, Electrophysiology, Imaging and Epilepsy	Email: drashalatha@sctimst.ac.in Tel.: 0471-2524382 Mob.: 9847416321
2.	Dr. Bejoy Thomas, Professor and Head, Dept of Imaging Sciences and Interventional Radiology	Neuroimaging, Pediatric Neuroimaging Functional and Metabolic Neuroimaging rsfMRI, DWI, DTI, SWI, QSM, DSC/ ASL Perfusion, MRS Machine Learning and Computer Vision in Neuroradiology	bejoy@sctimst.ac.in 9447719481
3.	Dr. Cibir T.R. Associate Professor, Department of Biochemistry	Advanced Glycation Endproducts (AGEs) in Tissue Fibrosis, Small molecules in Cardiac Fibrosis	Email: cibir@sctimst.ac.in Tel: 0471-2524178 Mob: 9846218889
4.	Dr. S. Harikrishnan Professor Dept. of Cardiology	Atherosclerotic coronary artery disease in the young, Epidemiology- Coronary artery disease, Rheumatic valvular heart disease, Pulmonary hypertension	Email: drhari@sctimst.ac.in Tel.: 0471-2524457 Mob: 3835125101
5.	Dr. Jayanand Sudhir B. Associate Professor Dept. of Neurosurgery	Cerebrovascular diseases: Intracranial aneurysms, arteriovenous malformations, Moyamoya disease Computational fluid dynamics in cerebrovascular diseases	Email: bjs@sctimst.ac.in Tel.: 0471-2524220 Mob.: 9447797747
6.	Dr. C. Kesavadas Professor Dept. of Imaging Sciences and Interventional Radiology	Functional neuroimaging, magnetic resonance imaging, Medical image processing	Email: kesav@sctimst.ac.in Tel.: 0471-2524215 Mob.: 9447047002
7.	Dr. Madhusoodanan U K Associate Professor Biochemistry	Neuronal DNA damage response and cell survival pathways regulation by protein post-translational modifications, Biochemical and molecular basis of lysosomal and mitochondrial dysfunction in	Email: drmaddhusoodanan@sctimst.ac.in Phone: 0471-2524478 Mob: 8157897692

		Parkinson's disease, Genetic and molecular basis of rare neurodegenerative diseases, Circulating exosomal cargoes as disease markers in Parkinson's disease	
8.	Dr. S. Manikandan Professor Dept of Anaesthesiology	Neuroanesthesia and pain medicine. Monitoring of brain in peri operative and critical care. (Clinical applications and development of neuromonitoring like Near infrared spectroscopy, evoked potential and EEG, transcranial doppler, intracranial pressure) Device development in critical care and operation theater. Public health research related to patient safety in anesthesia. Machine learning and quantum computing in perioperative care.	Email: kanmanis@sctimst.ac.in Tel: 04712524230 Mob: 9447862736
9.	Dr.Narayanan Namboodiri K.K. Professor Dept. of Cardiology	Cardiac channelopathies – Genetics, genotyping, epidemiology, treatment (partial funding available) Cardiac Arrhythmia – Epidemiology, pathophysiology, mapping of arrhythmia, treatment Cardiac pacing-Device development, algorithms, Artificial intelligence Cardiac rhythm monitoring- signal processing Recording of intracardiac signals. Device therapy for patients with heart failure /at risk of sudden cardiac arrest	Email: kknamboodiri@sctimst.ac.in Tel.: 0471-2524384 Mob.: 9447223340
10.	Dr. Neethu Mohan Scientist D Cellular and Molecular Cardiology	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: neethum@sctimst.ac.in Tel: 0471-2524505 Mob:9495186567
11.	Dr. Ramshekhar N. Menon Additional Professor Dept. of Neurology	Pediatric epilepsy cognitive neurosciences	Email: rsnmenon@sctimst.ac.in Tel:0471-2524481 Mob.: 9946916769; 9495691626
12.	Dr. G. Srinivas Scientist G Dept. of Biochemistry	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
13.	Dr.Syam K. Professor Dept. of Neurology	Parkinson's disease and other Movement Disorders, Deep Brain Stimulation, Cognitive and Behavioral aspects of Parkinson's	Email: drsyam@sctimst.ac.in Tel.: 0471-2524268 Mob.: 9847310745

		disease and movement disorders	
14.	Dr. P. N. Sylaja Professor Dept. of Neurology	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
15.	Dr Soumya Sundaram Additional Professor In charge, Pediatric Neurology and Neurodevelopmental Disorders Department of Neurology SCTIMST, Trivandrum	Child neurology Autism and Neurodevelopmental Disorders —clinical and functional neuroimaging Neurogenetic and Neurometabolic disorders	drsoumya@sctimst.ac.in ssdr.soumya@gmail.com
16.	Dr Sruthi S Nair, Additional Professor, Department of Neurology	Neuromuscular disorders (myopathy, myasthenia gravis, neuropathy, anterior horn cell disease), Multiple sclerosis and related central nervous system demyelinating diseases, electromyography	sruthisn@sctimst.ac.in 0471-2524488
17.	Dr Sapna Erat Sreedharan Professor, Department of Neurology	Stroke-atrial cardiopathy markers, cryptogenic strokes, nutritional intervention and stroke outcomes, neuroimaging biomarkers, medical complications after stroke Sleep medicine-Polysomnography signals in disorders of consciousness in intensive care units, cardiac signals and OSA prediction.	0471-2524581 9061989994 sapnaerat@sctimst.ac.in sapnaerat@yahoo.com
18.	Dr.Kavita Raja, Professor Sr Grade, Department of Microbiology, Hospital Wing SCTIMST	Clinical research including Infective endocarditis, Hospital acquired infections, antimicrobial resistance, infectious diseases like Leptospirosis, dengue and outbreak management Laboratory research including Antimicrobial resistance genes, molecular diagnostic techniques and sequencing to trace outbreaks, homograft tissue banking, Viral diagnostics	kavita_rajaa@sctimst.ac.in Off; 04712524222
19.	Dr Ajay Prasad Hrishi, Additional professor, Neuroanesthesia and Critical care	Neuroinflammation and Anesthesia, Heart Brain Interaction in Neurologically injured, Postoperative cognitive Dysfunction, Artificial Intelligence in Anesthesia	Email: drajay@sctimst.ac.in Ph: 9495239765
20.	Dr. Ganesh Divakar Assistant Professor Neurosurgery	Spinal instrumentation Spinal tumors Minimally invasive spine surgery Disorders of the spine and spinal cord Neuro-oncology	gd@sctimst.ac.in drganeshdivakar@gmail.com
21.	Dr. Rajalakshmi P Additional Professor Department of Pathology Hospital Wing	Epilepsy Pathology Brain tumors Cardiovascular Pathology	rajalakshmip@sctimst.ac.in 0471-2524594

ACHUTHA MENON CENTRE FOR HEALTH SCIENCE STUDIES, SCTIMST

Sl. No.	Name, Designation Department/ Division/ Lab	Areas of Research	Contact details
1.	Dr. Biju Soman Professor	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.	Dr. P. Jeemon Assistant Professor	Chronic diseases, Complex public health interventions, disease registry	Email: jeemon@sctimst.ac.in Tel.: 0471-2524250 Mob:9899246116
3.	Dr.Jissa VT, Scientist C, AMCHSS, SCTIMST	Cancer Epidemiology, Women health, Reproductive Health	Email: jissa@sctimst.ac.in Phone:0471-2-524270 (office) 9497130421 (mobile)
4.	Dr. Mala Ramanathan Professor	Public Health, Medical Anthropology, Gender in public health, Population Sciences	Email: mala@sctimst.ac.in Tel.: 0471-2524234
5.	Dr. Rakhal Gaitonde Professor	Health Policy Implementation Research Health Systems Research Accountability, Governance and Corruption Health Inequity	Email: rakhal.gaitonde@sctimst.ac.in Tel:0471-2524241 Mob:9940246089
6.	Dr Ravi Prasad Varma P Additional Professor AMCHSS, SCTIMST	Epidemiology, Rehabilitative and palliative care in health systems	rpvarma@sctimst.ac.in 0471-2524261 9400570835
7.	Dr. P. Sankara Sarma Professor and Head	Applications of Biostatistics and Demography in Health and Medical Sciences	Email: sarma@sctimst.ac.in Tel.: 0471-2524232 Mob:9387801579
8.	Dr. K. Srinivasan Professor	Public Health, Health Management, Health System Research	Email: ksrini@sctimst.ac.in Tel.: 0471-2524243 Mob:9895162657
9.	Dr. A. Srikant Asst. Professor	Molecular epidemiology of chronic diseases, genetic and epigenetic biomarker discovery, public health biology	Email: asrikant@sctimst.ac.in Tel:0471-2524233 Mob:8921499987

BIOMEDICAL TECHNOLOGY WING, SCTIMST

Sl. No.	Name, Designation Department/ Division/ Lab	Areas of Research	Contact details
1	Dr. P.R. Anil Kumar Scientist F Division of Tissue Culture	3D Bioprinting, Hepatotoxicity Test Systems, Biofabrication of Liver Constructs, Tissue Specific Bioinks, Stem Cells, Tissue Engineering and Regenerative Medicine, Regenerative Dentistry, Cell Sheet Technology, Ocular surface regeneration, Microfluidic on-chip devices for drug testing, In vitro organotypic systems, 3D culture systems, Bioreactors, Cytocompatibility evaluation	Email: anilkumarpr@sctimst.ac.in Tel.: 0471-2520311 Mob.: 94473 40754

2	Dr. T.V. Anilkumar Scientist G Division of Experimental Pathology	Experimental Pathology, Mammalian derived extracellular matrix for tissue engineering applications	Email: tvanilkumar@sctimst.ac.in Tel.: 0471-2520305 Mob: 9447017506
3	Dr. T. Anoop Kumar Scientist G Division of Molecular Medicine	Molecular Neurobiology	Email: anoop@sctimst.ac.in Tel.: 0471-2520256 Mob.: 8943746480
4	Dr. Anugya Bhatt Scientist F Divn. of Thrombosis Research	3D bioprinting, wound healing, platelet biology, full thickness skin substitute, tissue oriented bioink formulations, Stem cells, tissue regeneration, proteomics, coagulation.	Email: anugyabhatt@sctimst.ac.in Tel.: 0471-2520219 Mob.: 9446150443
5	Dr. P.R. Hari Krishna Varma Head, BMT Wing	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
6	Dr. R.S. Jayasree Scientist F Division of Biophotonics and Imaging	Development of biomaterials, with focus on nanomaterials for bio-sensing, photodynamic therapy, photothermal therapy, hyperthermia, and imaging applications are the main focus of the group. Nanomaterials of interest include gold quantum clusters, gold nanorods, quantum dots, carbon nanotubes, carbon dots, iron oxide nanoparticles, vanadium nanoparticles and hybrid materials. The group also works on different optical spectroscopic techniques including fluorescence, infrared, Raman and diffuse reflectance spectroscopy, and chemometric and artificial intelligence based classification of spectral data including spectral maps. In vivo and ex vivo optical imaging, MR imaging, contrast agents for imaging applications and image processing, AI and machine learning are other major areas of works, being carried out by this group.	Email: jayasree@sctimst.ac.in Tel.: 0471-2520273 Mob:9495948221
7	Dr. Kamalesh K. Gulia Scientist F Division of Sleep Research	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.: 0471-2520298 Mob.: 9048344712

8	Dr. P.P. Lizymol Scientist F Division of Dental Products	Bioactive nanocomposites for dental and orthopaedic applications; Synthesis & characterization of radiopaque, cyto-compatible and bioactive polymers for biomedical applications; Tissue adhesives for 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.	Email: lizymol@sctimst.ac.in Tel.: 0471- 2520221 Mob.: 9447216561
9	Dr.Lynda Velutheril Thomas Scientist E Division of Tissue Engineering and Regeneration Technologies	Synthesis and fabrication of novel biomaterials for wound healing applications and their characterization, Bioprinting of tissue engineered constructs, Electrospinning and freeze drying of polymers, Development of polymeric scaffolds for Tissue engineering of vascular grafts, osteochondral, cartilage etc, Bioreactor culture, Effect of mechanical forces on improving the quality of tissue engineered construct, Influence of biomaterial composition/ surface properties/ pore size & morphology on cell response during in vitro tissue development, effect of culture conditions in in-vitro tissue development. Development of microfluidic paper based biosensing platforms.	Email: lyndavt@sctimst.ac.in Tel.: 0471-2520332 Mob.: 9591393254
10	Dr. Manju S. Scientist E Division of Dental Products, Department of Biomaterial Science and Technology, Biomedical Technology Wing, SCTIMST	Polymers/ Composites for biomedical applications. Hydrogels, Superabsorbent polymers, Nanotherapeutics, Mucoadhesive polymers and drug delivery devices, Surface modifications of polymeric biomaterials, Antibiofilm coatings, Dental materials (Glass ionomer cements, composites and their modifications), Nanogel additives and its applications in dental restorations, Regenerative dentistry, Development of plasticizer free polymer matrix for various biomedical applications (e.g. softliners, blood bags)	Office: +91-471-2520441 Mob: +91-9539263017 Emil: manjus@sctimst.ac.in manjumathevan@gmail.com

11	Dr. Manoj G. Scientist D <i>Division of Artificial Internal Organs</i>	knowledge-based translational solutions for different kinds of diseases and personalized medicine. Industrial problem-solving research and solutions, In-vitro diagnostics-related process developments, product developments. Use of computational tools for the FMEA, design of Experiments, simulations, validations, and analysis, etc Upstream and downstream productions, Clinical Validations, Stability, Sensitivity, specificity reliability, and reproducibility studies of products and/or processes, etc	Email: manojgopi@sctimst.ac.in Tel.: 0471-2520319 Mob.: 9745221704
12	Dr. Manoj Komath Scientist G <i>Division of Bioceramics</i>	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.: 0471-2520320 Mob.: 9387414142
13	Dr. A. Maya Nandkumar Scientist G <i>Division of Microbial Technology</i>	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
14	Dr. P.V. Mohanan Scientist G <i>Division of Toxicology</i>	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
15	Dr. Naresh K Scientist-C, Div. of Tissue Culture, Dept. of Applied Biology, BMT Wing	(a) Mesenchymal stem cells and exosomal based therapeutics for regenerative medicine applications. (b) 3D Bioprinting and electrospinning based approaches for engineering of tissue equivalents in vitro. (c) Silk fibroin and other natural polymers based biomaterials for biomedical and other allied areas	Email: naresh.kasoju@sctimst.ac.in Phone: +91-471-2520311
16	Dr. P. Ramesh Scientist G <i>Division of Polymeric Medical Devices</i>	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
17	Dr. M.R. Rekha Scientist F <i>Division of Biosurface Technology</i>	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.: 0471-2520214 Mob.: 9847955634
18	Dr Renjith P Nair, Scientist C Division of Thrombosis Research, Department of Applied Biology, BMT Wing, SCTIMST	Blood Derived products, Blood compatibility testing. Development of PRP isolation devices. Development of Biomimetic approaches for homeostasis and wound healing. Skin Tissue Engineering, Adult progenitor stem cells, Secretome based therapeutics,	Mob: 9037476796 Off: 0471-2520332/239 E mail: renjith@sctimst.ac.in

		3D Bioprinting, Development of Bioprinted constructs for anticancer drug testing, molecular diagnostics	
19	Dr. Roy Joseph Scientist G Division of Polymeric Medical Devices	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
20	A.Sabareeswaran Scientist – G Histopathology lab Division of Experimental Pathology Department of Applied Biology	Molecular pathology, Immunopathology, Biocompatibility and Preclinical evaluation of medical devices, Tissue-material interactions, Epigenetics	E-mail: asw@sctimst.ac.in, Ph: +91 471 25 20 251 Mob: 9895672769
21	Dr. Shiny Velayudhan, Scientist – E, Division of Dental Products, Department of Biomaterials Science and Technology, BMT wing	3D Bioprinting, Polymeric Microneedles, 3D Printing Hydrogels for Bioprinting	shiny@sctimst.ac.in 8547357351; 9946846880
22	Dr. P.R. Umashankar Scientist G Division of In vivo Models and Testing	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

PhD GUIDES OF AFFILIATED PROGRAMS AT
CHRISTIAN MEDICAL COLLEGE, VELLORE

	Name and Designation	Areas of Research	Contact details
1.	Dr. AlokSrivatsava	Stem Cell Biology, molecular haematology and gene therapy	Email: aloks@cmcvellore.ac.in Tel: 0416-2285102, 0416-2282472 Mobile: 9894621882
2.	Dr. E. Eunice Sindhuvi	Characterization of genes involved in iron metabolism. Regulation of globin synthesis in Haemoglobin E syndromes	Email: eunice@cmcvellore.ac.in Tel.: 0416-2283569 Mobile: 9487306828
3.	Dr. Gagandeep Kang	Public Health, communicable diseases, Vaccine preventable diseases, enteric infections, molecular Epidemiology	Email: gkang@cmcvellore.ac.in Tel.: 0416-2282052 Mobile: 98940-70266
4.	Dr. Jacob John	Public Health: Infectious disease epidemiology, Vaccine preventable pediatrics infectious diseases.	Email: jacob@cmcsph.org Tel: 0416-2284207 Mobile: 94426-31628
5.	Dr. Jasmin Helan	Public Health, Reproductive and Adolescent Health Women's Health <ul style="list-style-type: none"> • Reproductive Tract Infection • Sexually Transmitted Infection • HIV Prevention <p>- Economic Evaluation Studies</p>	Email: jasminp@cmcvellore.ac.in Tel.: 0416-2284403 Mobile: 94423-82466
6.	Dr. Mohankumar K. Murugesan	Stem Cell Biology, Gene editing for hematological disorders, Molecular hematology and Gene therapy	Email:mohankumarm@cmcvellore.ac.in Tel.: 0416-3075140 Mobile: 8610346877
7.	Dr. B. Poonkuzhali	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 Mobile:9941635837
8.	Dr. R.V. Shaji	Stem Cell Biology, Molecular Haematology	Email: rvshaji@cmcvellore.ac.in Tel.: 0416-3075114 Mobile: 9751366680
9.	Dr. Srinivas Babu	Neurophysiology	Email: srinivas@cmcvellore.ac.in Tel.: 0416-2282442 Mobile: 9486528444

10.	Dr. Vikram Mathews	Leukemia biology and resistance, Evaluation of novel combination therapy for leukemia. Allogeneic stem cell transplantation, graft manipulation	Email: vikram@cmcvellore.ac.in Tel.: 0416-3072801 Mobile:9443339340
11.	Dr. Vrisha Madhuri	Tissue Engineering and Regenerative Medicine, Musculoskeletal Stem Cells in Orthopaedics	Email: madhuriwalter@cmcvellore.ac.in Tel.: 0416-2282171 Mobile: 999-451-6360

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