

Title	Name	Thrust Areas	Infrastructure/equipment costing more than 5 lakhs	Collaborating institutions	Patents	M.D/M.S/M.D.S/Ph.D ongoing
Mr.	Benedict Paul	Incidence and Characterization of virulence factors of the dental pathogen, Enterococcus faecalis				
Mr.	Benedict Paul	In silico identification of potential Aromatase Inhibitors for breast cancer				
Mr.	Benedict Paul	Development of biological databases				
Dr.	Magesh R	Mutations were found to be common among the increase in genetic disorders and drug resistance. These mutations play a significant role in altering the protein structure thereby alters the protein function. The mutations can sometimes have a null effect on the function of the protein. Understanding and classifying the mutations based on the pathogenicity is highly required before considering for drug discovery as well as drug resistance studies. Our research is focused on classifying those mutations through in silico studies.		Vellore Institute of Technology		Currently guiding three full time PhD scholars.

Dr. Magesh R	Screening and Characterization of Microbial Enzymes Screening novel natural compounds by In-vitro and In-silico methods Computational analysis of single nucleotide polymorphisms Molecular modeling Drug designing and docking analysis				
Dr. Elavarashi E	Food and Environmental Microbiology; Functional importance of <i>Bacillus</i> species in Biotech industry				Ongoing 1 PhD student (fulltime) - as Co-Guide
	Bacillus species as a potent biocontrol agent for harmful pathogens				
Dr. Charles Emmanuel Jebaraj W	Development of novel biomarkers including glycoconjugates		Department of Biochemistry, University of Madras; Integrative Biology, VIT University; Human Genetics, Sree Balaji Dental College & Hospital		4 Full time PhD Scholars
	miRNA markers for Cancer Diagnosis.				
	Construction of peptides for drug delivery.				
	Developing inexpensive glycoprobes for disease diagnosis.				

Dr.	Arun V	Plant Biotechnology - Isolation and characterization of plant promoters for plant genetic engineering; Tissue culture of medicinal plants			A Method for Detecting Banana Bunchy Top Virus. Kumar Perumal, Arun Viswanathan Thirupangadu Srinivasan Lokeswari, Indian Patent Application No: 2117/CHE/2013 Date: 13th May 2013, CBR No. 7973	Currently guiding 2 PhD student (1 part-time and 1 full-time); 1 PhD student (full-time) submitted synopsis (Jan 2020); 1 PhD student (as Co-guide - full time) - submitted thesis (Sept 2019)
		Nanodiagnosics - Deveopment of detection method for plant viruses (BBTV & Begomovirus) using functionalized gold nanoparticles; Capture of microorganisms using magnetic nanoparticles			Development of Visual Detection Method to Detect Begomovirus using Gold Nanoparticles. Lavanya R, Arun V. Indian Patent Application No: 201941007582 Date: 27th February 2019.	
Ms.	Kalaivani D	Bioactivity screening of herbal extracts using In Vitro & In				

		Vivo models. Cytotoxicity screening & Hepatoprotective activity of Crude Natural Products on zebra fish				
Dr	Kumar P	Chaaracterization of virulence genes of environmental E coli and detection using functionalized gold nanoparticles			A Method for Detecting Banana Bunchy Top Virus. Kumar Perumal, Arun Viswanatha n Thirupanag adu Srinivasan Lokeswari, Indian Patent Application No: 2117/CHE/2 013 Date: 13th May 2013, CBR No. 7973	
Dr	Kumar P	Control of antimicrobial resistance by biomolecular approach				
Dr	Mary Elizabeth. K. G	Marine Biotechnology, Marine Natural Product Isolation and characterization, Anti- bacterial and Anti-cancer research, Environmental Microbiology, Hexadecane Bioremediation research		1) Pachaiyappa s College, Chennai, 2) Vellore Institute opf Technology, Vellore, 3) Center for Brackishwate r acquaculture (CIBA), Chennai	A process of extraction of bio-active compounds exhibiting anticancer property from Conus inscriptus and product thereof Application No: E2/2723/20	1) Ms. Christina. V. S- Regn No: Ph.D(RR)/389- F.T./VII/2014 2) Ms. Shailaja. V. L- Regn No: Ph.D(RR)/390- F.T./VII/2014 3) Ms. Rachel Veronica - Regn.No.U02B1 90613 4) Ms. Lavanya.B - Regn.No.U02B1

					16/CHE, Patent published in The Patent Office Journal No. 46/2017 Dated 17/11/2017 and filed for examination on 10th Sep 2019, Mary Elizabeth Gnanambal. K., Christina. V. S, Shailaja. V. L and Lakshmi Sundaram. R	90614
Dr	Mary Elizabeth. K. G				A process of extraction of bio-active compounds exhibiting anticancer property from Cymodocea serrulata and product thereof Application No: E2/2724/20 16/CHE, Patent published in The Patent Office Journal No. 46/2017 Dated 17/11/2017 and filed for	

					<p>examination on 10th Sep 2019, Mary Elizabeth Gnanambal. K, Easwaramoorthy. R. Christina. V. S, Lakshmi Sundaram. R and Shailaja. V. L</p>	
Dr	Mary Elizabeth. K. G				<p>A process of extraction of bioemulsifiers from Pseudomonas guguaneensis Application No: E2/3084/2017/CHE , Patent Published in The Patent Office Journal No. 46/2017 Dated 17/11/2017, Mary Elizabeth Gnanambal Krishnan, Ramyadevi Koppampudur Chinnaraj, Lakshmi Raman Sundaram</p>	