

Name and Qualification: Dr. R Sumitha M.Sc, M.phil, PGDIT., Ph.D.



Designation with Address of the Institution:

Assistant Professor

Department of Biomedical Sciences

Sri Ramachandra College of Biomedical Sciences, Technology and Research

Sri Ramachandra Institute of Higher Education and Research (D.U.)

Porur, Chennai 600116, India

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Education:

Institution and Location	Degree (UG/PG/ PhD)	Year Conferred	Field of Specialization
Vels University	PhD	March 2021	Marine Biotechnology
University of Madras	PGDIT	June 2006	Immunotechnology
Bharathidasan University, Trichy	M. Phil	July 2005	Microbiology
D.G. Vaishnav College, Chennai	PG	June 2001	Applied Microbiology
S.R.M Arts and science College, Chennai	UG	June 2004	Microbiology

Teaching & Research Experience:

Institute	From	To	Designation
Department of Biomedical Sciences, Sri Ramachandra Institute of Higher Education Technology and Research (DU)	July 2021	Till Date	Assistant Professor
Faculty of Biomedical Sciences and Environmental health and Sciences, Sri Ramachandra Institute of Higher Education Technology and Research (DU)	Aug 2020	Till Date	Assistant Dean of Students
Department of Biomedical Sciences, Sri Ramachandra Institute of Higher Education Technology and Research (DU)	Dec 2015	July 2021	Senior Lecturer
Department of Biomedical Sciences, Sri Ramachandra University	Dec 2008	Dec 2015	Lecturer
Department of Biomedical Sciences, Sri Ramachandra University	Sep 2007	Dec 2008	Tutor

Training Experience (if any):

- ❖ Six months training in **Mediclone Pvt, Ltd**. The training program includes extensive training in maintenance of Cell lines, animal handling and cell culture techniques.
- ❖ Six month training in **Tuberculosis Research centre** (ICMR). The training program includes the collection and processing samples from TB patients. Culturing, Staining and analysis using fluorescence Microscope.
- ❖ Three years of training and work experience in all **Cytogenetic and Molecular Genetic techniques** in the Department of Human Genetics, Sri Ramachandra University.

Research Interests:

- ❖ Medical and Applied Microbiology
- ❖ Marine Biotechnology
- ❖ Cancer Biology
- ❖ Molecular immunology
- ❖ Drosophila Biology

Research Projects Conducted:

- ❖ **Ongoing** - Awarded (**GATE 2019**) - **Co Investigator** by Ramachandra Institute of Higher education and Research in October 2019 for project titled "Nanopesticide induced genotoxic studies in *D. melanogaster*"o Grant Amount: Rs. 90,000/- Period: 1 Year.

- ❖ **GATE project sanctioned in the year 2014-2015** “Tracing an apoptotic inducing compound from Marine Echinoderm: *Stellaster equestris* in cancer cell lines” Grant amount – Rs 70,000
- ❖ **Research Supervisor** for Summer research fellowship to UG students. Student: Ms. Padmini sekar, III Year B.Sc. BMS for project titled “Synthesis, Characterization and Genotoxic Assesment of Cadmium Sulphide Nanoparticels on *Drosophila melanogaster*. Period: May – June 2017.
- ❖ **Research Supervisor** for Summer research fellowship to UG students. Student: Ms. Swetha mohan, III Year B.Sc. BMS for project titled “Toxicity assessment of aspartame ob *Drosophila* by biochemical analysis Period: May – June 2015.
- ❖ **Research Supervisor** for Summer research fellowship to UG students. Student: Ms. Aishwarya, III Year B.Sc. BMS for project titled “Genotoxic assessment of Titanium dioxoide nanoparticle on fresh water prawn. Period: May – June 2015.
- ❖ **Research Supervisor** for Summer research fellowship to UG students. Student: Ms. Saranya, III Year B.Sc. BMS for project titled “Microbial Intensification and Biofilim formation of drinking water in and around Chennai Period: May – June 2012. Fellowship issued to student : Rs.10,000/-.

Patents filled & Approved:

Not Applicable

Ph.D. Research Guidance:

Not Applicable

M.Phil. Research Guidance:

NIL

Post graduate Project Guidance:

- ❖ The effect of Phytoheamagglutinin on UV-C induced apoptosis in human peripheral blood lymphocytes 2008. Ms. Sumadha, Department of Human Genetics, Sri Ramachandra University.
- ❖ *Invivo* and *Invitro* Genotoxic assessment of Silver nitrate. 2012. Ms Pavithra, VIT

Under Graduate Project Guidance:

- ❖ **Project Title:** Isolation And Identification of Pathogenic Microorganisms Associated With Electronic devices From Healthcare Professionals in and Around Chennai. 2019. Ms. B. Bhavani, Department of Biomedical Sciences, SHIHER.
- ❖ **Project Title:** Antibacterial And Antifungal Activity of Partially Purified Compound From Echinoderm *Stellaster equestris*. 2019. Ms. M. Dharshana, Department of Biomedical Sciences, SHIHER.

- ❖ **Project Title:** Extraction, Qualitative Assessment and Antimicrobial Sensitivity of Active Crude Extracts of Microbial Co Culture from Soil Samples of Cardamom Plantations (Western Ghats, India). 2019. Ms. Padmini V Sekar, Department of Biomedical Sciences, SHIHER.
- ❖ **Project Title:** Effect of Sterol from Marine Echinoderm *Stellaster equestris* by In-vitro Toxicity Assessment using Human peripheral blood. 2020. Ms. V. Krithika, Department of Biomedical Sciences, SHIHER.
- ❖ **Project Title:** Synthesis, Characterization and *In Vitro* Evaluation Of Cadmium Sulfide Nanoparticle Using *Bacillus licheniformis*.2020. Mr. T. Swaminathan, Department of Biomedical Sciences, SHIHER.

Conferences/Workshops/Seminars Organized:

S. No.	Name of the event (Specify nature of event)	Venue	Year & Date
1.	Recent advances in Biomedical Research	Department of Biomedical Sciences Sri Ramachandra Institute of Higher Education and Research	27.01.2020
2.	Work shop for Biology Teacher	Department of Biomedical Sciences Sri Ramachandra Institute of Higher Education and Research	23 – 24 Jan 2020
3.	Leadership Workshop- Leaving a Legacy	SRWCA Sri Ramachandra Institute of Higher Education and Research	07- 08 March 2017
4.	HERBESCON - 2016 National Conference on Phytochemical as Bio therapeutics- Unravelling the mystery of Natural products.	Department of Biomedical Sciences Sri Ramachandra Institute of Higher Education and Research	17 th -18 th Feb 2016
5.	Setting benchmarks in teaching and learning through ICT	IQAC, Sri Ramachandra University	5 th - 6 th Feb 2016
6.	Workshop on grant writing and publication	CRF, Sri Ramachandra University	Sep 2014
7.	Skills in Governance	Sri Ramachandra Centre for Women's Advancement	March 8 th 2013
8.	Stem Cells, regenerative medicine in orthopedic applications	Department of Biomedical Sciences, Sri Ramachandra University	January 23 rd 2010
9.	WAT 2009 – Workshop on assays in Toxicology	Sri Ramachandra University	February 2 nd -13 th 2009

10.	PERIOGEN – Hands on Training in Immunochemical techniques	Department of Human Genetics, Sri Ramachandra University	December 20 th and 21 st 2008
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Conference presentations (Oral and Poster):

S.No	Name of Author (s)	Title of papers presented	Name of Conference / Seminars etc.,	National/International (Specify)	Place	Year/Date
1.	Ms R Sumitha	Effect of sterol isolates from Echinoderm <i>Stellaster equestris</i> on Zebra fish (<i>Danio rerio</i>)	Interdisciplinary Research Innovation in Science and Humanities (IC-IRISH' 19)	International	Sharjah, united Arab Emirates	11 th – 12 th of November 2019
2.	Ms R Sumitha	Cytotoxicity Testing of Star Fish <i>Stellaster equestris</i> Extracts on Pa1 Celline.	International Conference on Advances in Medical and Industrial Biotechnology	International	Satyabham a Institute of Science and Technology, Chennai, India.	20 th - 22 nd March 2019
3.	Ms R Sumitha & Ms Padmini V Sekar	Poster - Extraction, Toxicity and Antimicrobial Assessment of Secondary Metabolite from Microbial Co-Culture Extracts of Soil Samples from Cardamom Plantation, Western Ghats of India	International Conference on Advances in Medical and Industrial Biotechnology	International	Satyabham a Institute of Science and Technology, Chennai, India.	20 th - 22 nd March 2019
4.	Rhea Thomas Thommana, Trishala Gopikrishna, Sumitha R*	Poster Presentation ANTIMICROBIAL PEPTIDES A SURVEY FROM MARINE SOURCES- REVIEW	NATCON 2018 National conference on Interdisciplinary Research and Innovation in Biosciences	National	Mohamed Sathak College of Art & Science, Sholinganallur, Chennai-600119	April 2018
5.	Ms Padmini V Sekar, Sumitha R*	Biosynthesis of cadmium sulphide nanoparticles from microorganism and their prospects for future application.	National conference on Biomaterials from Microorganisms and medicinal plants for Human welfare.	National	Department of Biotechnology, Vel University	Sep 2016

Academic and/or Research awards:

Services award - Long Service Award (10 Years) at SRIHER- September 2016.

Publications (Journals):

S. No.	Name of Authors / Department	Title of Publication in full	National/ International (specify)	Title of Journal	Specify Indexed/Accredited/ Others	Year of Journal	Volume No.	Pages From - to
1.	R Sumitha, Narasiman Banu Swaminathan Vijayalakhmi and , Venkatesan Krithika	<i>In vitro</i> toxicity evaluation of sterol isolates from Echinoderm <i>Stellestar equisteris</i> against human peripheral blood	International	International journal of pharmaceutical investigation	WOS UGC care listed journal	2021	11(2)	184-188
2.	Padmini Sekar, V Deepa Parvathi and R Sumitha*	Green Nanotechnology in cadmium sulphide nanoparticles and understanding its toxicity and antimicrobial properties	International	Biomedical Research	Scopus indexed	2019	30 (05)	805 - 809
	R Sumitha* , V Deepa Parvathi and N Banu	Effect of sterol isolate from echinoderm <i>Stellaster equestris</i> on zebrafish (<i>danio rerio</i>).	International	International Journal of Pharmaceutical Science and Research	Scopus and WOS indexed	2019	10 (7):	1000 - 1007
	V.Deepa Parvathi, Janani Boominathan, Swetha SridharKumar, R Sumitha	Induction and evaluation of inflammatory markers by zinc oxide nanoparticles: A comparative study using in vitro and in vivo approaches	International	Biomedical Research	Scopus indexed	2019	30(1) 1	5
	R. Sumitha , V. Deepa Parvathi, N Banu	Cytotoxicity Testing of Star Fish <i>Stellaster equestris</i> Extracts on PA 1 Celline.	National	Research Journal of Pharmacy Technology	Scopus indexed	2017	10(9)	1-5
	Sumitha R , Banu N and Deepa Parvathi V.	Novel Natural Products from Marine Sea Stars.	International	Current trends in Biomedical engineering and biosciences	WOS indexed	2017	2(4)	1-5

	Deepa Parvathi V, Rajagopal K and Sumitha R	Standardization of alternative methods for nanogenotoxicity testing in Drosophila melanogaster using iron nanoparticles: a promising link to nano dosimetry	International	Journal of Nanotechnology	Scopus Indexed	2016	Article ID 2547467	
	V Deepa Parvathi, Kalyanaraman Rajagopal, Jalpan Pandya, Betty Lincoln, R Sumitha.	Synthesis, characterisation and in vitro toxicity assessment of nano iron	International	International Journal of nanoparticles	Scopus Indexed	2015	8	302-315
	Fahira Reshman, R Sumitha, V Deepa Parvathi	In vivo toxicity assessment of aspartame in D.melanogaster and D. rerio	National	Indian Journal of Science and Technology	Scopus Indexed	2015	8(34)	1-7
	Betty Lincoln, Akhil Menon, V Deepa Parvathi, Sumitha Ravindran	In Vivo Evaluation of Genotoxicity Of Acorus Calamus Mediated Silver Nanoparticles.	International	International Journal of Pharmaceutical Research and Bio-Science	Index Copernicus	2014	3(2)	126 - 132
	MZ Fahira Reshman, Sumitha R and Deepa Parvathi V	Genotoxic effect of Lead acetate on Drosophila melanogaster	National	Research Journal of Pharmaceutical, Biological and Chemical Sciences	PubMed and Scopus Indexed	2013	4	584 - 588
	Deepa Parvathi V, Sumitha R and Swarna Raman	Evaluation of Genotoxicity of Ethyl Methane sulfonate (EMS) Using Human Lymphocytes	National	Research Journal of Pharmaceutical, Biological and Chemical Sciences	PubMed and Scopus Indexed	2013	4	708 - 714
	Sumitha R, Swarna Raman,	In vivo and In vitro Genotoxicity	International	Drosophila Information Service	Web of Science	2012	95	42-49

	Priyanka V and Deepa Parvathi V	Analysis of Silver Nitrate			Google Scholar			
	R Ponnudurai, B Srinivasan, R Sumitha, Teena Koshy, Solomon F D Paul	Klinefelter's syndrome (mosaic) with chromosome 9 inv and schizophrenia	National	Indian Journal of Psychiatry	Pub med	2012	54	88-90

Publications (Books and Monographs):

S. No.	Name of Author (s)	Title of Chapter	National/ International (Specify)	Title of Book	Publisher details	Year
1.	V Deepa Parvathy, R Sumitha and Smitha	Microbiology for Nurses	National	Microbiology for Nurses	Publisher Pearson ISBN 978-93-325- 2527- 6	2014
2.	R Sumitha and N Banu	Current protocols in Immunology and immuno technology	National	Current protocols in Immunology and immuno technology	Digital Age Publishers (ISBN no. 978-93-84692-02-5.)	2017

Consultancy – UILIC- University Industry Linked Consultancy:

Ms V Pavithra, VIT 2013. Total amount generated – 25,000/-

Membership in University Committees:

- IQAC core committee member- 2020-2022
- Women cell member
- Q cell member- 2015-2018

