



# SRI RAMACHANDRA MEDICAL COLLEGE & RESEARCH INSTITUTE

## DEPARTMENT OF PHARMACOLOGY

### RESEARCH PROJECTS

#### CURRENT AREAS OF RESEARCH

| S.No  | Title of the Project  | Names of the Research Scholar<br>a. Research Scholar<br>b. Research Supervisor | Course Name                 | Duration in Years | Name of the Funding Agency  |
|---|---|--|-----------------------------|-------------------|---|
| <b>ICMR MD PhD - Talent Search Scheme (TSS)</b> |   |  |                             |                   |   |
| 1   | Pharmacological Evaluation Of Silver Nanoparticles Synthesized Using Piper Nigrum (L )  | a.Dr.Aparna Mani<br>b.Dr.Vasanthi  | MD PhD – completed          | 2011              | ICMR – TSS  |
| 2   | Role Of Vasicine In Modulation Of Neuronal Inflammation And Cognitive Function In Zebra Fish  | a.Dr. Arthi Balasundaram<br>b.Dr.Darling Chellathai David                      | MD PhD – completed          | 2014              | ICMR - TSS  |
| 3   | Detection of novel serum bio-markers and genetic polymorphism that predict SSRI treatment outcome in South Indian Population with Major Depressive Disorder | a. Dr.Varsha Ramesh<br>b. Dr.Vetri Selvi                                       | MD PhD Integrated – Ongoing | 2015              | ICMR-TSS  |
| 4   | Evaluation and comparison of the anticancer effect of the marine algae Cladophora genesis and Cladophora Glomerata –an Insilico, Invitro and Invivo study   | a. Dr.Sharanya<br>b. Dr.D.Anusha   | MD PhD Integrated – Ongoing | 2015              | ICMR-TSS  |
| 5   | Preclinical evaluation of antidiabetic activity of a novel algae- Ulva paschima - an Insilico, Invitro and Invivo study                                     | a. Dr.Lathapriya<br>b. Dr.D.Anusha   | MD PhD Integrated– Ongoing  | 2016              | ICMR-TSS  |
| 6   | Evaluation of Anti-cancer activity of Kunitz Soybean Trypsin inhibitors-Protease Inhibitor family   | a. Dr.V.Ariarasudhan<br>b. Dr.K.Punnagai                                       | MD PhD Integrated– Ongoing  | 2020              | ICMR-TSS  |
| <b>FULL TIME PhD</b>                            |   |  |                             |                   |   |
| 7   | Evaluation Of Neuroprotective Activity Of Carvacrol Against Neuro Inflammation Induced By Chronic Stress In Mice  | a.Mr.Boddu.<br>V.S.Chandrashekar<br>b.Dr.Elango                                | PhD Full Time - completed   | 2014              | Shri.NPV Ramasamy Udayar Founder Chancellor's Research Fellowship |

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|----------------------|---|---|------------------------------|-------------------|---|
| 8                    | Neuroprotective Effects Of Momordica Charantia Extractin 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine[MPTP] Induced Apoptosis Of Striatal Neurons In Mice Model Of Parkinsonism | a.Mr.Mohan Krishna<br>b.Dr.Elango               | PhD<br>Full Time - completed | 2015              | Shri.NPV Ramasamy Udayar Founder Chancellor's Research Fellowship |
| 9                    | Psychopharmacological and Toxicological Profile of The Brown Algae Sargassum Tenerrimum In Adult Zebrafish Model  | a. Mr. Raman Yadav<br>b. Dr. K. Punngai         | PhD<br>Full time – Ongoing   | 2019              | Shri.NPV Ramasamy Udayar Founder Chancellor's Research Fellowship |
| 10                   | Evaluation of the Relationship Between Serum Homocysteine, Sortilin, Folate and Genetic Biomarkers in Patients with Affective Disorders in a Tertiary Care Hospital             | a.Dr. Remya Bhaskaran<br>b.Dr. S. Ramya         | PhD<br>Full time – Ongoing   | 2022              | Shri.NPV Ramasamy Udayar Founder Chancellor's Research Fellowship |
| 11                   | Evaluation of Levetiracetam Neuroprotective Effect in Mice Models of Parkinsonism   | a.Mr. Neeraj Pandey<br>b.Dr.V.P.Karthik         | PhD<br>Full time – Ongoing   | 2022              | Shri.NPV Ramasamy Udayar Founder Chancellor's Research Fellowship |
| <b>PART TIME PhD</b> |   |   |                              |                   |   |
| 12                   | Pharmacoeconomics of Atypical Antipsychotics in Schizophrenia   | a. Ms.Shweta Lizbeth Oommen<br>b. Dr. Elango P  | PhD<br>Part Time – Ongoing   | 2015<br>4-6 Years | Self-Funded   |
| 13                   | Assessment of Antidepressant Activity of Lycopene and Its Possible Mechanism of Action in Wistar Rats   | a. Mr. Venkata Naveen Kumar<br>b. Dr. P. Elango | PhD<br>Part Time– Ongoing    | 2015<br>4-6 Years | Self-Funded   |
| 14                   | Study of Myristica Fragrans Extract for its Anti Obesity Action Targeting Lipase and Cyclic AMP Dependent Kinase Enzymes in Invitro and Invivo Obese Models                     | a. Mr.Yakaiah Vangoori<br>b. Dr.D.Anusha        | PhD<br>Part Time-completed   | 2015<br>4-6 Years | Self-Funded   |
| 15                   | Effect Of Selected Dihydroxy Flavone On Chemotherapy Induced Peripheral Neuropathy in Mice  | a. Dr.R.Kavitha<br>b. Dr. Vishwanathan          | PhD<br>Part Time– Ongoing    | 2016<br>4-6 Years | Self-Funded   |
| 16                   | Evaluation of Neuropharmacological Properties of Methanolic Extract of Cayratia Auriculata  | a. Mr.Nagaraju Kancerla<br>b. Dr.D.Anusha       | PhD<br>Part Time– Ongoing    | 2016<br>4-6 Years | Self-Funded   |
| 17                   | Studies on Dicliptera Cuneata Nees For Anti Inflammatory Potential in Animal Models   | a. Mr.Parepalli Suresh<br>b. Dr.V.P.Karthik     | PhD<br>Part Time– Ongoing    | 2017<br>4-6 Years | Self-Funded   |

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| 18 | Pharmacological Evaluation of Zinc Nanoparticles Synthesized Using Ethanolic Bark Extract of Bauhinia purpurea For Anti-Obesity Effect                | a. Mrs.M.Saranya<br>b. Dr.D.Anusha             | PhD<br>Part Time–<br>Ongoing | 2017<br>4-6 Years     | Self-Funded |
| 19 | Effect of Ethanolic Extract of Cayratiaauriculata on a Alpha Synuclein Aggregation and its Expression in Rotenone - Induced Zebrafish Parkinson model | a.Mrs.S.Lalitha<br>b.Dr.D.Anusha               | PhD<br>Part Time–<br>Ongoing | 2018<br>4- 6<br>Years | Self-Funded |
| 20 | Bio Surfactant Mediated Nano Particle Synthesis and Its Application Studies   | a.Mrs.N.Shyamala<br>b.Dr.K.Punnagai            | PhD<br>Part Time–<br>Ongoing | 2019<br>4-6 Years     | Self-Funded |
| 21 | Respiratory Viruses and Co-infections in Acute Exacerbations of Chronic Obstructive Pulmonary Disease   | a.Mrs.Raakhee Baby<br>Thananki<br>b.Dr.V.Gowri | PhD<br>Part Time–<br>Ongoing | 2022<br>4-6 Years     | Self-Funded |