



DR. V. SUGUMAR
ASSISTANT PROFESSOR

Contact

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Academic Qualifications: M.A./M.Sc./M.Phil./Ph.D./

M.Sc. (Zoology), M.Phil.(Zoology), Ph. D.(Zoology).

Teaching Experience: 12 Years

Research Experience: 15 Years (Including Ph.D. Research Period)

Additional Responsibilities

1. Deputy Coordinator – University Business Collaboration Centre
2. Department Coordinator - NAD & SWAYAM
3. Department NIRF In-charge

Areas of Research

Crustacean Biology and Marine Biomaterials

Research Supervision / Guidance

| Program of Study | | Completed | Ongoing |
|------------------|-------------|-----------|---------|
| Research | Ph.D. | 2 | 3 |
| | M.Phil. | 1 | - |
| Project | PG | 14 | - |
| | UG / Others | - | - |

Publications

| International | National | Others |
|---------------|----------|---|
| Journals | Journals | Books / Chapters / Monographs / Manuals |
| 22 | -- | 4 |

| | | |
|---------------------|---|-------|
| Cumulative Impactor | : | 40.24 |
| h-index | : | 8 |
| i10 index | : | 8 |
| Total Citations | : | 162 |

Funded Research Projects

Completed Projects

| S. No | Agency | Period | | Project Title | Budget (Rs. In lakhs) |
|-------|------------|--------|------|---|-----------------------|
| | | From | To | | |
| 1 | AURF | 2009 | 2010 | Studies on the putative role of sex pheromones in the blue swimmer crab <i>Portunus pelagicus</i> | 0.64 |
| 2 | UGC | 2011 | 2014 | Quantification of Crustacean hyperglycemic hormone and its hemolymph metabolites: following various stresses in the blue swimmer crab <i>Portunus pelagicus</i> | 9.10 |
| 3 | SERB (OYS) | 2012 | 2015 | Studies on the localization and putative role of serotonin in the blue swimmer crab, <i>Portunus pelagicus</i> | 22.28 |

Ongoing Projects: --

| S. No | Agency | Period | | Project Title | Budget (Rs. In lakhs) |
|-------|---------------|--------|------|---|-----------------------|
| | | From | To | | |
| 1. | TBRP RUSA 2.0 | 2019 | 2024 | Sustainable biomaterials from the marine resources of Palk Bay, India | 39.10 |

Distinctive Achievements / Awards

1. Recipient of **Dr. (Mrs) Sudha Varadharajan Memorial Endowment Gold Medal** from Thiru. Surjit Singh Barnala, Governor of Tamil Nadu, for the “**Best thesis 2005**”.
2. **Awarded Research Fellowship** – Department of Ocean Development, Government of India.
3. **Awarded DST – FAST TRACK for Young Scientist 2010**, Government of India

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

1. Organizing Secretary of National seminar on “Current trends and future prospects of Nanomarine Sciences”, Alagappa University, Karaikudi, Tamil Nadu, **India**. (March, 2009).
2. Organizing Secretary of National Conference on “Global Warming Now and Then”, Alagappa University, Karaikudi, Tamil Nadu, **India**. (March, 2010).
3. Organizing Member in the Second National Conference on “Bioprospecting of marine resources with special reference to marine natural products and drug discovery”, Alagappa University, Karaikudi, Tamil Nadu, **India**. (August, 2010).
4. Organizing Member in the State Level Seminar on “Sensitive Coastal Ecosystem”, Alagappa University, Thondi Campus, Tamil Nadu, **India**. (December, 2015).
5. Organizing Member in the National Workshop on “Geospatial Technology in Coastal Studies”, Alagappa University, Thondi Campus, Tamil Nadu, **India**. (February, 2016).
6. Organizing Secretary of State level Seminar on “ Exploring marine Resources” Alagappa University, Thondi Campus, Tamil Nadu, **India** (February, 2016).
7. Organizing Member in the International Conference on “Recent Trends in Biosciences” (ICRTB 2016), Alagappa University, Karaikudi, Tamil Nadu, **India**. (April, 2016).
8. Programme Co-ordinator - Short-term Training Programme on “Training and Scope of SCUBA Diving” Alagappa University, Karaikudi, Tamil Nadu, **India**. (February, 2017).
9. Organizing Secretary of National Conference on “Conservation and Sustainable Development of Marine Resources (CASDOMAR-2018)” Alagappa University, Thondi Campus, Tamil Nadu, **India** (March, 2018).
10. Organizing Secretary of Webinar Series “Recent Advances in Marine Biodiversity and Conservation” Alagappa University, Science Campus, Karaikudi, Tamil Nadu, **India** (May, 2020).

Events Participated

Conferences / Seminars / Trainings / Workshops / Webinars: 79

Overseas Exposure / Visits / Membership in

Professional Bodies

1. Life Member- Indian Society for Reproductive Biology and Comparative Endocrinology.
2. Life Member - Indian Fisheries Association.
3. Life Member - Indian Science Congress Association
4. Member - American Chemical Society, USA.

Resource persons in various capacities

Evaluator in the National Children Science State Congress 2015, 2016

Three day workshop on “Developing proposals for qualitative research”, Department of Education, Alagappa University, Karaikudi, Tamil Nadu, **India**. (June 13th -15th, **2017**).

Resource Person in the “Guest Lecture/Meet the Manager Program Series AIM 2017”, Alagappa Institute of Management, Alagappa University, Karaikudi, Tamil Nadu, **India**. (2nd August, **2017**).

Others

1. No. of Ph.D. Thesis Evaluated: 2
2. No. of Ph.D. Public *Viva-Voce* Examination Conducted: 2

Recent Publications

Saravanan, R. and **Sugumar, V. (2020)**. Activation of prophenoloxidase and hyperglycemia as indicators of microbial stress in the blue swimmer crab *Portunus pelagicus*. *Marine Pollution Bulletin*, 160: 111711. [Elsevier, UK] (**Impact Factor: 4.06**).

Rahul Varma and **Sugumar, V. (2020)**. Extraction, characterization and antimicrobial activity of chitosan from the horse mussel *Modiolus modiolus*. *ACS Omega*, 5(32): 20224-20230. [American Chemical Society, USA] (**Impact Factor: 2.87**).

Sudatta, B. P., **Sugumar, V.**, Rahul Varma and Nigariga, P. (2020). Extraction, characterization and antimicrobial activity of chitosan from the pen shell *Pinna bicolor*. *International Journal of Biological Macromolecules*, 163: 423-430. [Elsevier, USA] (**Impact Factor: 5.16**).

Paneerselvam, R., Anandhan, N., Sivakumar, G., Ganesan, K.P., Marimuthu, T and **Sugumar, V. (2019)**. Role of annealing temperatures on mechanical, optical, electrical and magnetic properties of nanohydroxyapatite biomaterial. *Journal of Nanoscience and Nanotechnology*, 19: 4366-4376. [American Scientific Publishers, USA] (**Impact Factor: 1.35**).

Beema Mahin, M. I., Saravanan, R. and **Sugumar, V. (2018)**. Isolation, identification and characterization of the bioluminescent bacteria isolated from the blue swimmer crab *Portunus pelagicus* along Thondi Coast and virulence studies at high temperatures. *Microbial Pathogenesis*, 117: 232-236. [Elsevier, USA] (**Impact Factor: 2.91**).

Saravanan, R. and **Sugumar, V. (2018)**. Heavy metal stress induced hyperglycemia in blue swimmer crab, *Portunus pelagicus*. *Acta Oceanologica Sinica*, 37 (5); 1-7. [Springer, USA] (**Impact Factor: 1.14**).