

Faculty Profile



Name : Dr S. SUMATHI
Designation : Assistant Professor
Department of Zoology
Chikkanna Govt. Arts College, Tirupur
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Date of Joining in Collegiate Education : 26.02.2011

Date of Joining in the Present College : 02.08.2016

Academic Profile :

Degree	Institute/College	University	Period
B.Sc.,	Auxilium College Vellore,	University of Madras	Apr 1998
M.Sc.,	University of Madras	University of Madras	Apr 2000
M.Phil.,	University of Madras	University of Madras	Aug 2001
Ph.D.,	University of Madras	University of Madras	Mar 2006

Teaching Experience : 18 years
i) **Total** : 18 Years 7 Month
ii) **UG** : 18 Years 7 Month
iii) **PG** : 14 Years 4 Month

Name of the college	Position held	Period
Sri Akilandeswari Women's College, Wandiwash	Lecturer	01.07.2005 to 22.02.2011
Arignar Anna Govt. Arts College for Women, Walajapet.	Assistant Professor	26.02.2011 to 01.08.2016
Chikkanna Govt. Arts College, Tirupur - 641 602	Assistant Professor	02.08.2014 to Till date

Honors and Research Awards : Nil

Field of Interest :

- i) **Teaching** : Invertebrata, chordate ,
Economic entomology and
Sericulture , Biotechnology,
Animal physiology, Genetics ,
Microbiology and immunology
- ii) **Research** : **Zoology** (Entomology)
- iii) **Proficiency in instrumentation** :

Domain Areas	Skills
Molecular biology & Biotechnology	Isolation and estimation of DNA, RNA, Polymerase Chain Reaction (PCR), Primer selection and Standardization of PCR Electroportion, Blotting techniques (western blotting, southern blotting), Agarose gel electrophoresis, Poly Acrylamide Gel Electrophoresis, Sequencing gel electrophoresis
Microbiology	Identification and isolation of microbes especially bacteria from various samples. Electron microscopic analysis and Differentiation of the Phages using molecular techniques
Biochemistry	Detailed analysis & estimation of biochemical constituents such as protein, carbohydrates and lipid. Estimation of Fatty acid profiles from biological samples using (Gas chromatograph). Estimation of amino acid profiles from biological samples using with HPLC(High performance liquid chromatograph) Detail analysis of Enzyme especially digestive enzymes using spectrophotometers
Aquaculture	Analysis of water quality parameter viz., Ammonia, Nitrite, Nitrate, Phosphorous using spectrophotometers, Estimation of ions such as calcium, sodium, potassium, lithium using flame photometer colorimeter

Research Guidance

Guidance Number

: **19986/A2/2018 & 27/08/2018**

(If have more than one university, given them against university name)

Bharathiar University, Coimbatore

S. No	M.Phil/Ph.D	Name of the Student	Thesis Title	Completed/ongoing

Funded Projects

: Nil

Membership in Professional Bodies : Nil

S. No	Name of the Professional Body	Membership Detail with Number

Research Publications :

- i) **Research Papers** : Attached Annexure – I
- ii) **Book/Book Chapters** : Nil
- iii) **Patent** : Nil

National and International Conferences : Attached Annexure – II

- i) **Participated** : 01
- ii) **Paper Presented** : 01
- iii) **Poster Presented** : Nil

Conference/Seminars Organized : Nil

Workshop attended : 03

Resource Person/Invited Lectures : Nil

Faculty Development Programs Attended : 03

Course	University/Institute	Subject	Period
UGC SPONSORED REFRESHER COURSE IN	University of Madras	Environmental Sciences	15.02.2022 to 28.02.2022
UGC SPONSORED REFRESHER COURSE IN	Bharathiar University, Coimbatore	Zoology	20-06-2019 to 03-07-2019
UGC SPONSORED REFRESHER COURSE IN LIFE SCIENCES	Madurai Kamaraj University, Madurai	Advances in biological sciences	09-03-2018 to 29-03-2018
ORIENTATION COURSE	University of Madras	Intensive training programme	04-05-2011 to 02-06-2011

Academic Activities :

- i) **Subject Handled** : Microbiology, Biotechnology, Biotechnology Allied Zoology, Developmental biology, Genetics, Entomology Environment Science and management, Cell Biology,

Aquaculture, Invertebrata, Chordata, Advanced Human Physiology, Immunology

ii) Class Advisor : II B.Sc., Zoology Class tutor

iii) Special Coaching : Initiatives under taken to develop below averages, conducted extra special classes and coaching, Taking remedial classes for SC/ST students, Educate the students about their social behavior, responsibility and moral values.

iv) Student Community Beneficial Activities : Internal complaints committee, Coordinator of ECO club

v) Co-curricular and extracurricular activities: Appointed as Programme officer NSS, Red Ribbon Club (RRC), Women development Cell, placement Officer and Acting as Organizer of Environmental Club (ECO Club) Responsibilities include academic advising of students, Participation in College committees and activities.

Professional Activities

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i) Reviewer

ii) Board of Studies/UR

: Acted as university representative (UR) at Thiruvalluvar university, Vellore

iii) Examiner/Scrutiny

: External Examiner in Varies Colleges and Universities

iv) Senate/Syndicate

: Nil

National/ International Collaborators

: Nil

Annexure – I

PUBLICATION

NATIONAL AND INTERNATIONAL (Research Articles Published)

1. Stalin. P., Chitra.T., **Sumathi. S.**, 2017. Advances In Freshwater Rotifer *Brachionus Calyciflorus*, Culture and its Application for Larviculture of Finfish's Technology in Abstracts book of "Advances in Toxicological Research -2017" (ATR- 2017)
2. Stalin. P., Chitra.T., **Sumathi. S.**, 2017. Nutrition-related histopathology observations in intestine of rearing milkfish, *Chanos chanos* fry using different diets.in Abstracts book of National Seminar on "Advances in Pathophysiology" (APPY-2017)
3. Stalin. P., **Sumathi, S.**, Poonguzali, J., Nagarathinam M., 2015. Mosquitocidal activities of essential oil (*Foeniculum vulgare* L.) against *Culex quinquefasciatus* (Diptera : Culicidae) in Abstract book of UGC sponsored one day National Seminar on Current trends in Zoology.
4. P Stalin, **S.Sumathi**, J.Poonguzali, M. Nagarathinam, S.S Muthiah. 2015. Effect of various plant extracts against *Fusarium pallidroseum* - the causal agent of twig blight of mulberry. Bhamathi microbiology news Letter Vol-5 (1)
5. P Stalin, **S.Sumathi**, J.Poonguzali, M. Nagarathinam, S.S Muthiah. 2014. Antimicrobial Activity Of Some Medicinal Plants And Antibiotics Against *Staphylococcus* Sp. *J.Adv. Zool* :35 (1):
6. Poonguzali, J., Muthiah, S.S., Sarala. P., **Sumathi, S.**, Stalin, P., 2013. Infertility due to chromosomal Abnormalities in men of South India- A case study, *Journal of Ecobiology* Vol.32 (3), 167-176
7. **S. Sumathi**. 2011. Effect of some plant extracts on biochemical changes in haemolymph of silkworm *Bombyx mori* L *J.Ecotocol Environ. Monit.*21 (3) 269 – 272.
8. **S. Sumathi** and G. Singaravelu. 2009. Biochemical investigations on bancroftian filariasis control with diethylcarbamazine citrate (DEC) *J.Adv. Zool*:30(1):53-57.
9. **S. Sumathi** and G. Singaravelu. 2009. Supplementation of plant extracts on physiological studies in silkgland of silkworm *Bombyx mori* L. *J.Adv. Zool*:30(2): 88-92
10. **S. Sumathi**, 2009. Influence of supplementation of plant extracts on nucleic acids studies in silkgland of silkworm *Bombyx mori* L. *J.Ecobiol.*25(3) 215-220
11. **S. Sumathi** and G. Singaravelu. 2009. Effect of diethylcarbamazine citrate with physiotherapy on certain haematological constituents in filarial patients *J.Adv. Zool*:30(2):125-130
12. **S. Sumathi**, 2008. Supplementation of plant extracts on economic parameters of silkworm *Bombyx mori* L. *J.Ecotox.Environ.Monit.*18 (5) 445-450

13. **S. Sumathi**, 2008. Effect of plant extracts on physiology of silkworm *Bombyx mori* L. *J. Ecotoxicol Environ. Monit.* 18 (5) 407 – 411.
14. **S. Sumathi** and G. Singaravelu. 2008. Percentage of disease infection (PDI) of bacterial flacherie in silkworm *Bombyx mori* L. *J. Adv. Zool.* 29 (1): 62-66.
15. **S. Sumathi** and G. Singaravelu. 2005. Isolation and Identification of antibacterial compound from *Lantana camera* against flacherie in silkworm *Bombyx mori* L. *Jour. Scott. Res. Forum. Sect B. Vol. 1 No.1*
16. G. Singaravelu, **S. Sumathi**, P. Prabu and L. Jagapriya. 2004. Biological activity of azadirachtin on certain reproductive aspects of female moth of *Bombyx mori* L.
17. **S. Sumathi** and G. Singaravelu. 2003. Ethnopharmacological investigation on the antibacterial activity of silkworm *Bombyx mori* L. XXII Annual conference of STOX.
18. G. Singaravelu, **S. Sumathi**, J. Dhananchezhiyan and T. Lakshmi Devi. 2001. Administration of azadirachtin on certain reproductive aspects of female moth of *Bombyx mori* L. *Nat. Sem. Seri. Res. Ind.* 26-28.
19. G. Singaravelu, S. Mahalingam and **S. Sumathi** 1999. Estimation of different degrees of provocation by DEC (diethylcarbamazine citrate) medication in bancroftian filariasis in Vellore, Tamil Nadu. *Ind. J. Experi. Biol.* Vol.37. 1142-1143

STATE LEVEL

1. B. Palani and **S. Sumathi**. 2000. Biochemical alteration in filarial patients during the course of therapy. Eighth seminar cum exhibition on student projects scheme. Tamil Nadu State Council for Science and Technology, Chennai.

Annexure – II

CONFERENCE, SEMINAR AND WORKSHOPS ATTENDED

CONFERENCE

1. Participated in the one day National Conference on “Frontiers in Translational Microbiology” organized by Sri Sankara Arts & Science College, Kanchipuram (SANMICROFEST- 2015) on 8th Jan 2015.

WORKSHOP

1. Participated in the UGC and IQAC Sponsored one day state level Workshop on “Faculty development Programme” Organized by Erode Arts and Science College (Autonomous) Erode- 9 during 24th February 2018
2. Participated in the NAAC Sponsored one day workshop on “Access, Quality and Curriculum Development Paradigms in Higher Education” organized by Internal Quality Assurance Cell (IQAC) held at Erode Arts and Science College (Autonomous) Erode, Tamil Nadu on February 2017
3. Participated in the one day workshop on “Recent Advances in Aquatic Research” Jointly organized by Dr. M. Aruchami Research Foundation and PG & Research Department of Zoology, held at Kongunadu Arts and Science College (Autonomous) Coimbatore, Tamil Nadu on 12th December 2013.

SEMINAR

1. Participated in National Seminar on “Advances in Pathophysiology [APPY-2017]” organized by Department of Zoology, School of Life Sciences, Periyar University, Salem - 636 011, Tamil nadu, India on 13th September, 2017
2. Participated in UGC funded International Seminar on “Current Environmental Issues and Measures of Mitigation: A Multidisciplinary Approach” organized by Department of Chemistry and Department of Zoology, Vellalar College for Women, Erode-12, on 22nd and 23rd September 2016.
3. Participated in UGC sponsored one day One day National Seminar on “Biodiversity and Conservation of Medicinal Plants(NSBCMP-2016)” organized by Department of Botany, Arignar Anna Government Arts College For Women, Walajapetv-632513, Vellore Dist. Tamil Nadu on 25th February 2016
4. Participated in UGC sponsored one day National Seminar on “Recent Advances in Biological Sciences “ BIOFEST -2016” organized by Department of Zoology, Arignar Anna Government Arts College For Women, Walajapetv-632513, Vellore Dist. Tamil Nadu on 28th Jan, 2016
5. Participated in UGC sponsored one day National Seminar on Current trends in Zoology (NSCTZ 2015) organized by Thiru Kolanjiappar Govt. Arts College (GRADE - I), Vriddhachalam on 23rd Jan, 2015.

6. Participated in Inter- Collegiate Women's Seminar on " Gender justice in the New millennium" Organized by the Women's Cell, Voorhees College, Vellore on 18th and 19th of February 2000.

EXTENSION ACTIVITIES

- Appointed as NSS Programme Officer by Thiruvalluvar University in Sri Akilandeswari Women's College , Wandiwash. During the period the Personality Development and Leadership Quality Training Programmes and various kinds of awareness programmes for the benefit of NSS volunteers have been implemented.
- Participated in the General Orientation Course conducted by the Training, Orientation and research centre – National Service Scheme, Madras School of Social Work from 15th 24th September , 2010.
- Participated as Programme Officer from Thiruvalluvar University in the Pilot Testing of Training Module on Youth in Panchyati Raj Organised by Rajiv Gandhi National Institute of Youth Development at Youth Hostel, Tirupathi during 21 & 22nd October, 2010.
- Participated in a "Personality Development Programme" under National Service scheme organized by Voorhees College, Vellore.
- Participated in Orientation Program Health awareness Programme conducted by Dept of Public Health and Preventive Medicine Zonal Entomological Team Vellore. During 6th and 7th April 2000,