

FACULTY PROFILE

1. Name : Rubavathi. S
2. Designation : Assistant Professor
3. Date of Joining : 01.06.2017
4. Nature of Association : Regular
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7. Academic Qualifications:

Degree	Specialization	Institution	Year of Passing	CGPA/ Percentage
M.Tech	Biotechnology	K.S.Rangasamy College of Technology (Autonomous), Tiruchengode	2016	8.6
B.Tech	Biotechnology	K.S.Rangasamy College of Technology (Autonomous), Tiruchengode.	2014	7.9
HSC	State Board	SRSI Matriculation Higher Secondary School, Karamadai.	2009	83%
SSLC	Matric	SRSI Matriculation Higher Secondary School, Karamadai.	2007	86%

8. Experience

- ❖ Worked as a **CLRI EXECUTIVE** for 5 month period in POINT PERFECT TRANSCRIPTION SERVICES Ltd, Coimbatore.
- ❖ Received a sum of Rs. 1,92,000/- as “**Project Fellow**” from University Grants Commission, UGC, New Delhi, India, to carry out the research project for the one year duration.

9. Achievements

- ❖ Cleared **Gate exam 2016** with a score of 504 and All India Ranking of about 415.
- ❖ Awarded **Best paper award** in Kamaraj College of Technology held during 26 & 27th February 2015.
- ❖ Undergone **Summer Research Fellowship in National Centre for Biological science** for two months (May-july 2019) under Indian Academy of Sciences, Bengaluru.

10. List of Ongoing Funded Projects

S.No.	Title of the Project	Name of the Funding agency with reference No.	Amount (Rs.)
1.	Foldscope visualization of pathogenic virulence of household vectors for disease control	DBT, New Delhi, No. BT/IN/Indo-US/Foldscope/39/2015 dated 20.03.2018	4,00,000/-
2.	Diversity and documentation of various attributes in lichen species using foldscope for predictive healthy forest through fuzzy with ANN model	DBT, New Delhi No. BT/IN/Indo-US/Foldscope/39/2015 dated 20.03.2018	8,00,000/-
3.	Training and demonstration of novel Dehulling machine of minor millets and paddy for the production of unpolished healthy rice among Shevroy and Kolli hills tribes in Tamil Nadu	TNSCST/DIT/Grant release/16/VR/2018-2019/7076	50,000 /-
4.	Assistance to publication in Tamil on Noonanrithiran	TNSCST/PUB /AR/2018-2019/7152	20,000/-

11. List of project submitted for funding

S.No	Principal investigator	Title of Project	Sponsoring agency	Fund expected in Rs.
1.	G. Ayyappadasan and S. Rubavathi	Establishment of scientific 3D animated laboratory for popularizing science through android app, among digitalized young minds of India	DST, New Delhi	Rs. 13,75,000
2.	G. Ayyappadasan and S. Rubavathi	Portable Virtual Reality Show – A Communicative Tool On Waterless AgriTech for Smart Farmers In India	DST, New Delhi	Rs. 13,75,000
3.	G. Ayyappadasan and S. Rubavathi	Development of olfactory based breeding biostickers using lichen associated bacteriomes against controlling Aedes aegypti for mosquito transmitted viral diseases	Wos B DST, New Delhi	Rs. 24,47,000

4.	G. Ayyappadasan Dr. K. Rajadurai J. Phillip robinson and S. Rubavathi	In silico design and development of antimicrobial peptides from lichen associated actinomycetes against multidrug tuberculosis through mouse model	DBT, New Delhi	LOI
5.	G. Ayyappadasan, J. Phillip robinson and S. Rubavathi	Development of zonal level portable heritage museum using 3d virtual preservation as conservation perspective for historical India.	Science and heritage research initiative (SHRI)	Rs. 13 Lakhs
6.	G. Ayyappadasan, J. Phillip robinson and S. Rubavathi	Synchronization and tackling of microclimatic disturbance involved in impaired fecundity through neuronal fuzzy aided biological analysis of human population in intra region of Tamil nadu, India.	ICMR	Rs. 25 Lakhs Full length proposal submitted
7.	G. Ayyappadasan and S. Rubavathi	Ecological geospatial contest on protection and conservation of natural diversity for next gen ecologist in India	DST , New Delhi	Rs. 28,40,000 /- Presentation completed

12. Paper publications

Prem Kumar. S, **Rubavathi. S**, Phillip Robinson. J, 2017. Green Synthesis of Silver Nanoparticles using *Barringtonia Acutangula* and its invitro Anticancer Property , *International Journal of Advance Research, Ideas and Innovations in Technology*. vol. 3, no.6, pp. 322-331.

Kalaiselvi Mani, Subbaiya R. Ayyappadasan G. and **Rubavathi S.** 2017, Evaluation of silver nanoparticles as a comparative study and determination of its effect on *Vigna radiate*, *International Research Journal of Pharmacy*, vol. 8, no.1, pp. 33-40.

Ayyappadasan G. **Rubavathi S.** Deepak Kumar P. Uthira M. 2016. Metabolite profiling and in vitro assessment of antimicrobial and antioxidant activities of lichen *Ramalina inflata*, *International Research Journal of Pharmacy*, vol. 7, no.12, pp. 132-138.

Rubavathi S. and Ramya M. *Invitro* Assessment of Antimicrobial and Antioxidant Activity of Bioactive Compounds from Marine Algae, *International Journal of Current Microbiology and Applied Sciences*, vol. 5, no.7, pp. 253-266.

Rubavathi, S Ram Narendran and Maleeka Begum. 2018. Development and characterization of biocompatible polyhydroxy butyrate impregnated with herbal plants against wound healing activity, *Asian Journal of Pharmaceutical and clinical Research*, Vol 12, No. 2 , pp. 1-6

- B. Kesavaraj, Sharath Asokan, P.R. Geethapriya, V.Vijayasankari and **S. Rubavathi** 2019. Antibacterial effect of *cissus quadrangularis* against cariogenic microorganisms : An Invitro study, SRM Journal of Research Dental sciences. Vol.10, pp.57-60.

13. Book publication

G. Ayyappadasan and S. Rubavathi 2019. Intelligence

14. Patent publication

Sumaya Fathima I. **Rubavathi S.** Santhosh N. Robin Jabaraj D. and Ayyappadasan G. 2017. Process design and fabrication of sodium alginate from *Sargassum wightii* as a coating roof of proteinated grape fruits using agricultural waste proteins, filed on 07.10.2017.

15. Copyright publication

Ayyappadasan, G. **Rubavathi S.** Robin jabaraj, D. Santhosh N. and Ponnurugan P. 2016. Experimental Laboratory Manual for Bioprocess Technology, Diary Number: 12981/2016CO/L dated 09.11.2016.

Ayyappadasan, G. **Rubavathi S.** Deepak kumar and Philip Robinson J. 2019. Experimental Laboratory Manual for Fermentation Technology 5115/2019-CO/L dated 04.04.2019.

16. Sequence deposition

Bacterial sequence was submitted to NCBI., Maryland, USA

S.No	Name of the organisms	Reference Number
1.	<i>Bacillus aryabhatai</i>	MG101839
2.	Uncultured <i>Brevibacillus sp</i>	MG087839
3.	<i>Brevibacillus brevis</i>	MG063273
4.	<i>Vibrio sp</i>	MG190340
5.	<i>Vibrio sp</i>	MG189586
6.	<i>Vibrio sp</i>	MG190323
7.	<i>Streptomyces enissocaesilis</i>	MK178496
8.	<i>Streptomyces mutabilis</i>	MK168592

17. Projects undertaken

- ❖ Isolation and Characterization of amylase producing Bacteria and Fungi from Different Samples
- ❖ *Invitro* assessment of Antimicrobial and Antioxidant activities of Lichen
- ❖ Evaluation of antioxidant and anticancerous activity of bioactive compounds from marine algae
- ❖ Lichen compound purification and characterization for biomedical application
- ❖ Acoustic performance of the plants for the development of sound barrier in an urban context.

18. Cocurricular activities

- ❖ Participated in “**Regional Medical Coding Workshop**” Conducted by Aldos Institute in Association With Medical Coding Society held on 13th&14th August ,2012

- ❖ Participated in one day workshop on “**Cytogenetics and Banding Techniques**” held on 20th August 2011 in K.S.Rangasamy College of Technology
- ❖ Participated in “**National Workshop on Biostatistics in Biomedical Sciences**”(NWBBS“13) held during 6th to 8th February ,2013 in Karunya University
- ❖ Participated in One day Workshop on “**Neural Networks and its Applications**” held on 22nd Septembers 2012 in Sri Krishna College of Engineering and Technology
- ❖ Participated in technical workshop on “**Forensic DNA Technology for Biotechnology Graduates**” held during 17-19th July,2013 in K.S.Rangasamy College of Technology
- ❖ Participated in Two day Workshop on “**Image Fusion Techniques using Matlab and Open source tools for beginners & Researchers**” held on 28 and 29th August 2015 in Kongu College of Engineering.
- ❖ Participated in “**Environmental Awareness Programme**” held on 23rd January 2018 conducted by Nature Science Foundation, Coimbatore.
- ❖ Idea presentation on “ **Commercialization of probioticated date fruit formulation against arthritis**”, at Department of Chemical Engineering, Kongu Engineering College, Perundurai, Erode.
- ❖ Participated in National Conference on “**New paradigms in the development of biotechnology for healthcare**” and presented on a topic at Department of Biotechnology, Karpagam University, Coimbatore.
- ❖ Participated in “**Commercialisation workshop at TNAU**” on 24th & 25th January 2017 conducted by Technology Development Board.
- ❖ Participated in Interdisciplinary national conference on “**Recent trends in Life Science: Research, Practices and Application for Sustainable Development**” during 7th& 8th September 2017 at Bharathiar University, Coimbatorein collaboration with „National Academy of Biological Sciences“
- ❖ Participated in National seminar on “Design of experiments in Bioprocess optimization” held during 04 & 05th January 2018.
- ❖ Participated in **Foodborne pathogenesis National conference** and presented Development of antifouling paint coated steel pipes using lichen associated bacteria on a surface of a bioreactor in Dr. G.R.Damodaran College of Science on 10 ,11th January 2019.
- ❖ Participated in **National conference on Innovations in Biochemical And Food Technology** and presented a topic on Commercial utilization of uv protectant properties of marine seaweed as a cool roof against temperate regions at Kumarguru College of Technology in 2nd Febraury 2019

19. Training undertaken

- ❖ Participated in two week equivalent Faculty Development Programme (FDP101x) on Foundation Program in ICT for Education conducted by IIT Bombay
- ❖ Gained practical Knowledge in the Inplant Training about Gelatin in Sterling Biotech Limited-Ooty
- ❖ Participated in non-formal course on “**Separation of Biomolecules**” held during 1st to 17th January, 2012 at K.S.Rangasamy College of Technology
- ❖ Participated in non-formal course on “**Empowerment of research design in biotechnology**” conducted from 18th July to 8th August,2013 at K.S.Rangasamy College of Technology

20. Membership of professional bodies

S.No	Name of the Professional Bodies and Societies	Type of Membership (Annual / Life Member)	Remarks
1.	ASR (Asia Society for Researchers)	Life Member	R218110802
2.	IAENG(International Association of Engineers)	Life Member	224389

21. Extra-curricular activities

- ❖ Served as a Joint Secretary in the CARE club in K.S.Rangasamy College of Technology.
- ❖ Served as a Editor-In-charge for the BIOZOOM annual magazine with ISSN 2250-0693.
- ❖ Act as a **Clean India Coordinator** for **Department** and **Hostel Day coordinator** for Hostel
- ❖ Participated in the *zonal level Basket ball and Volley ball* matches. Secured winner up in *throw ball* and runner up in *Volley ball* in the *Intra- Department level* matches .
- ❖ Actively participated in quiz competition, sports and cultural events.

22. Instruments and techniques handled

- UV-Visible Spectrophotometer
- HPLC & GC
- SDS PAGE
- Lyophilizer, Rotary Vacuum Evaporator
- Antioxidant assays (DPPH, FRAP, Hydrogen peroxide, Cupric oxide assay)
- Graphpad prism software
- Biochemical analyzer and Hematology Analyser
- Experienced in MS office (word, excel and ppt)
- Animal model (Rat handling)

23. Personal profile

Date of Birth & Age : 06.11.1991 & 27 years

Parent's Name : Mr. P.Subbaiyan (late), Mrs.S.Mani

Gender : Female

Strengths : Ambitious, Friendly nature, Optimistic & Hard working

Hobbies : Gardening, Playing Volleyball

Languages Known : Tamil, English