

## **Dr. SANTHOSH WILSON GOVEAS** M.Sc., Ph.D.,KSET

Assistant Professor, Department of Post Graduate Studies and Research in Biotechnology

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### **EDUCATIONAL QUALIFICATIONS**

- **Ph.D (2018) in Biotechnology** from Mangalore University thesis entitled “*In vitro* and *In vivo* Studies on the Antidiabetic Properties of *Coscinium fenestratum*” under the Guidance of Dr.Asha Abraham, Associate Professor, Department of Post Graduate Studies and Research in Biotechnology, St. Aloysius College (Autonomous),Mangaluru
- **KSET Exam Qualified in 2015.**
- **M.Sc.(Biotechnology,2006)**- with distinction from St.Aloysius College, Under Mangalore University.

### **ACADEMIC IDENTITY**

- **GOOGLE SCHOLAR ID** :[SHwvOqiAAAAJ](https://scholar.google.com/citations?user=SHwvOqiAAAAJ)
- **SCOPUS ID**: [55788015400](https://scopus.com/authid/detail.url?authorID=55788015400)
- **ORCID ID**: [0000-0001-9682-2663](https://orcid.org/0000-0001-9682-2663)

### **RESPONSIBILITIES HANDLED**

- **Chief Superintendent of Examinations (2021-till date)**
- **Research Coordinator for Science (2024-till date)**
- **Coordinator for College Calendar & Handbook (2017-till date)**
- **HOD of UG Biotechnology (2017-21)**
- **Chief Admission Coordinator of the College (2017-21)**
- **Chief Examination Coordinator (2017-20)**
- **Assistant Examination Coordinator (2015-17)**
- **IMPRINTS Coordinator (2016-17)**

## RESEARCH INTERESTS

- Molecular and cellular aspects of Diabetes
- Cell Line Studies
- Molecular Biology
- Plant Tissue Culture
- Bioprocess technology
- Cancer Research

## EXPERIENCE

- ❖ Currently Working as Assistant Professor at the Department of Post Graduate Studies and Research in Biotechnology, St Aloysius (Deemed to be University) (**2021 onwards**)
- ❖ **2015-2021**, Assistant Professor, Department of UG Biotechnology, St Aloysius (Autonomous), College, Mangaluru
- ❖ **2011-2015**- Lecturer, Department of UG Biotechnology, St Aloysius (Autonomous), College, Mangaluru
- ❖ Worked as **Senior Research Fellow (SRF)** at National Research Center for Cashew (NRCC), Puttur on an ICAR project entitled “**Molecular characterization of cashew based on RAPD, ISSR, Isozyme and SSR techniques**”.  
**Group leader:** Dr.Thimmappaiah, Principal Scientist, NRCC, Puttur, India.( **Duration:**7 July 2007-31 may 2008.).
- ❖ Worked as **Junior Research Fellow (JRF)** at laboratory of Applied Biology ,St.Aloysius College, Mangalore on a DBT project entitled “**Tissue culture and propagation of RET plant *Coscinium fenestratum***”.  
**Group Leader:** Rev.Dr.L.D’Souza, Director, Laboratory of Applied Biology, St.Aloysius College, Mangalore (**Duration:** 1.08.2008 to 31.7.2010).

- ❖ Worked as **Senior Research Fellow (SRF)** at laboratory of Applied Biology ,St.Aloysius College, Mangalore on a DBT project“**Tissue culture and propagation of RET plant *Coscinium fenestratum*”**.

**Group Leader:** Rev.Dr.L.D’Souza, Director, Laboratory of Applied Biology, St.Aloysius College, Mangalore.(**Duration:** 1.08.2010 to 31.5.2011).

## RESEARCH GRANTS RECEIVED

### Completed Research Project:

1. “Evaluation of antidiabetic activity of the stem extract of *Coscinium fenestatum*” . **UGC Minor Research Grant-2,00,000/- (2013-15).**
2. **Co-PI** for the project funded by **VGST under RGS-F** category for Study on the Ecotoxicity effect of microplastics on marine fauna on the coast of Karnataka (**Rs 3,00,000, 2019-20**)
3. MJES seed grant for students on the topic- “*Unveiling the antimicrobial, nutritional, and therapeutic potentials of Sonerila konkanensis: a novel discovery from Goa*” by Heidi Rodrigues, Deandra Figueiredo and Merilyn Furtado. (**Rs.9,000/-** ) (2023-24).

### Ongoing Research Projects:

1. **Co-PI** for the Project funded by **VGST under ECRA category** for “*Assessing the impact of Pollution on Marine derived fungus on the West Coast of India*” (**Rs.10,00,000, 2023-2025, Ongoing**).
2. **PI** for the Major Research Project **funded by MJES** on the topic “*Unveiling Seaweed's Medicinal Secrets: Bioactive Extraction and Evaluation from Coastal Karnataka Region*” (**Rs.7,00,000, Ongoing**).
3. MJES seed grant for students on the topic- “**valorization of chitin and chitosan: unlocking sustainable industrial application and economic viability**” by Tejaswini R Poojari, Prerana Rai M, Shanmitha B Rai (**Rs.7500/-**)

## STUDENT PROJECTS GUIDED

**Undergraduate level:** 20projects

## **Postgraduate level: 09 projects**

### **2020-2022**

1. Comparative study on antimicrobial, antifungal and anticancer properties of *Azadirachta indica*, *Plectranthus barbatus* and *Curcuma longa*. (Aiswarya Krishnan, Aminath Yushra, Keerthana V. M)
2. Extraction & Evaluation of salt from *Cocos nucifera* and *Areca catechu* petiols and green synthesis of silver nanoparticles (Hithashree, Reg. No. 209220)
3. Production of bioplastic from natural sources. (Danya Rego, Reg. No. 209232, Shethila, Reg.No. 209233)

### **2021-2023**

4. Phytochemical, antioxidant, antimicrobial and synthesis of silver nanoparticles from *Lawsonia inermis* leaves and *Punica granatum* peels (Swathi Udupa, Reg.No. 219201, Rajeshwari, reg.No.219217)
5. A comparative study on the phytochemical, antioxidant, antimicrobial properties of *Garcinia indica* and *Garcinia intermedia* peels and synthesis of silver nanoparticles (Prival Jyothi Dsouza, Reg. No. 219215, Raksha, Reg.No.219218)

### **2022-2024**

6. Unveiling the antimicrobial, nutritional, and therapeutic potentials of *Sonerila konkanensis*: a novel discovery from Goa''(Heidi Rodrigues, Reg.No. 229203, Deandra Figueiredo, Reg.No. 229208 and Merilyn Furtado, Reg. No. 229213).
7. Preliminary phytochemical studies, Anti-oxidant properties of *P.rubra* extract and Unraveling milk clotting and coagulant activities of Plumerin -R (Riyan Roy, Reg.No.229221, Sreelakshmi VM,Reg.No.229226, Nimisha Sunil Kumar, Reg.No.229217)

### **2023-2025**

8. Valorization of chitin and chitosan: unlocking sustainable industrial application and economic viability (Tejaswini R Poojari, Prerana Rai M, Shanmitha B Rai)
9. Antioxidant, Antibacterial and Phytochemical screening of three seaweeds: Exploring bioactive potential (Shriya Rao, Deeksha A, Anagha G)

## PUBLICATIONS

1. Ambarish Cheviry Nair, **Santhosh Goveas**, Laveena D'Souza, Flavia D'Cunha, Viana D'Souza (2017). Antibacterial and antioxidant potential of organic solvents extract of mangrove endophytic fungus *Eupenicillium senticosum* Scott. ***Journal of Alternative Medicine Research.***, 65-73.
2. Thimmappaiah, Shobha, D, **Santhosh, W G**, Melwyn, G S, Mohana, G S, Nayak, M G (2016). Identification of unique subset of cashew germplasm using DNA marker analysis. ***Indian Journal of Biotechnology.***, 15(3):363-374.
3. **Goveas SW** and Abraham A (2014): Extraction and secondary metabolite analysis of *Coscinium fenestratum* (Gaertn.) Colebr: An important medicinal plant of Western Ghats. ***International Journal of Pharmaceutical Sciences and Research.***, 5(8): 3484-89.
4. Neethu P., Haseena P., ZevaluKezo, Sona Thomas R., **Santhosh Wilson Goveas** and Asha Abraham (2014). Antioxidant properties of *Coscinium fenestratum* stem extracts on Streptozotocin induced type 1 diabetic rats. ***Journal of Applied Pharmaceutical Science.***, 4 (01): 29-32.
5. **Santhosh Wilson Goveas** and Asha Abraham (2013).“Evaluation of Antimicrobial andAntioxidant Activity of Stem and Leaf Extracts of *Coscinium fenestratum*. ***Asian Journal of Pharmaceutical and Clinical Research.***, 6(3): 218-221.
6. Aparna A., Josline Pinto, **Santhosh W. Goveas** and Smitha Hegde (2012). SSR marker based germplasm assessment amongst cultivated varieties of *Oryza sativa* of Dakshina Kannada district. ***Global Journal of Applied Agricultural Research***, 2(2):71-80.
7. Santhosh W. Goveas, Shashi Kiran Nivas and D’Souza L. (2011). Breaking Dormancy and Improving Germination of *Coscinium fenestratum* Seeds, A Red Listed Endangered Medicinal Plant. ***Adv Bio Tech.***, 10(11):39-41

8. **Santhosh W Goveas**, Madtha R, Nivas SK, D'Souza L (2011). Isolation of endophytic fungi from *Coscinium fenestratum* -a red listed endangered medicinal plant. *Eurasian J Biosci.*, 5: 48-53.
9. **S.W.Goveas**, Shashi Kiran Nivas and L.D'Souza.(2011). Development of high frequency multiple shoots in the yellow cactus *Selenicereus megalanthus*. *Journal of Applied Horticulture.*, 13 (1):42-44.
10. **Santhosh W Goveas**, Shashi Kiran Nivas and L.D'Souza (2011). Conserving Biodiversity-case of *Coscinium fenestratum*, a red listed plant of Western Ghats. *Swamy Botanicals.*, 28:33-38
11. **Santhosh W.Goveas**, Smitha Hegde, S.K.Nivas and L.D,Souza (2011).Study of berberine content in stem and callus extracts of *Coscinium fenestratum* using HPTLC and HPLC techniques. *International Journal of Applied Biotechnology and Biochemistry.*, 1(2):145-152.
12. **Santhosh W. Goveas**, Eldrich C. Miranda, Sahadevan Seenan and Sridhar, K.R.2006. *Observations on guano and bolus of Indian flying fox, Pteropus giganteus.* **Current Science.**, 90(2): 160-162.
13. Thimmappaiah, W.G. Santhosh, D. Shobha and G.S. Melwyn, 2008. Assessment of Genetic diversity in Cashew Germplasm using RAPD and ISSR markers,. *Scientia Horticulturae.*, 120 (3):411-417.

#### BOOK CHAPTERS

1. Thimmappaiah, D. Shobha, G.S. Melwyn and **W.G. Santhosh.**,2011. Advances in Horticulture Biotechnology-Molecular marker and marker assisted selection. Vol III:Fruit crops, plantation crops and spices, 225-232, Westville Publishing House, New Delhi.

#### PAPERS PRESENTED

- Poster presented -Tejaswini R Poojari, Prerana Rai M, Shanmitha B Rai and **Santhosh W Goveas.** “Valorization of chitin and chitosan: unlocking sustainable industrial application and economic viability” at the National Conference on Recent Advances and

Innovations in Biological Science, Organized by Department of PG Biotechnology, Alva's College, Moodbidri on 21.3.2025

- Poster presented- Shriya Rao, Deeksha A, Anagha G and **Santhosh W Goveas**. **“Antioxidant, Antibacterial and Phytochemical screening of three seaweeds: Exploring bioactive potential”** at the National Conference on Recent Advances and Innovations in Biological Science, Organized by Department of PG Biotechnology, Alva's College, Moodbidri on 21.3.2025 (**Won Third prize**)
- Poster presented- Alister Dsouza, Sharon Joanna, Shruti Dessai, **Santhosh Goveas** and Melwyn D' Cunha. **Nature's rhizofiltration potential of *canna indica* (*canna lily*): a comparative study of cadmium removal from industrial and agricultural wastewater in Mangalore**, at the National Conference on Recent Advances and Innovations in Biological Science, Organized by Department of PG Biotechnology, Alva's College, Moodbidri on 21.3.2025
- Poster Presented- Christy Travaso, Melvia Fernandes and **Santhosh W Goveas**, **“Phytochemical analysis, antioxidant, antimicrobial and synthesis of silver nanoparticles of *S.konkanensis* from south Goa”** at the National conference on advances in Biotechnology and Nanotechnology conducted by the Department of Microbiology and nanotechnology, Karnatak University Dharwad held on 14-15<sup>th</sup> March 2023(**Won the first place in poster category**)
- Riyan Roy, Sreelakshmi VM, Nimisha Sunil Kumar and **Santhosh Wilson Goveas**. **“Phytochemical studies, Anti-oxidant properties of *P.rubra* extract and Unraveling milk clotting and coagulant activities of Plumerin -R”**. Book of proceedings page No. 90 organized by faculty of PG sciences. International Conference on Environmental Sustainability: “Harmony with Nature” ICESHN 2024 April 5-6, 2024
- Merilyn Furtado, Deandra Figueirido, Heidi Rodrigues and **Santhosh Wilson Goveas**. **“Elemental analysis and synthesis of nanoparticles of *Sonerila konkanensis*: A novel discovery from South Goa”**. Book of proceedings page No. 83 organized by faculty of PG sciences. International Conference on Environmental Sustainability: “Harmony with Nature” ICESHN 2024 April 5 - 6, 2024

- Danya Rego, Shethila and Santhosh W Goveas. “**Production of bioplastic from natural sources**” which is presented in 25<sup>th</sup> Edition of Bengaluru Tech Summit 2022 held on 18-21, November 2022
- Christy Travasso, Melvia Fernandes and Santhosh W Goveas. “**Phytochemical analysis, antioxidant, antimicrobial and synthesis of silver nanoparticles of *S.konkanensis* from south Goa**” at the National conference on advances in Biotechnology and Nanotechnology conducted by the Department of Microbiology and nanotechnology, Karnatak University Dharwad held on 14-15<sup>th</sup> March 2023(**Won the first place in poster category**)
- Oral presentation on the topic “**In vitro cytotoxic activity of *C. fenestratum* stem extract on human adrenocarcinoma cell line**” at National conference on Natural Bioactive compounds and potential effects on health, organized by Department of Botany and PG studies and Research in Biochemistry held on 27th January 2017 at St Aloysius College.

#### WORKSHOPS/FDP ATTENDED

- Participated in a hands on workshop on **Cytotoxicity and Genotoxicity – *In vitro*** conducted by Manipal School of Life Sciences, MAHE, Manipal on 10-11, May 2024
- Participated in Skill development Workshop on **Liquid Chromatography-Mass Spectrometry under DBT-BUILDER Scheme**, Organised by School of Life Sciences (Departments of Biochemistry, Biotechnology and Food Science), St Aloysius (Deemed to be University), Mangaluru on 13th September 2024.
- 7 Day National Level Online Faculty Development Program on *ChatGPT & AI Tools for Educators*, in-line with OBE organized by St Joseph's College (Autonomous), Irinjalakuda in association with The Kerala State Higher Education Council from 19-26 July, 2023.
- One day workshop on IPR Awareness programme organised by Department of UG & PG Biotechnology, Biochemistry & Microbiology in Association with Department of Promotion of Industry and Internal Trade Ministry of Commerce & Industry, Government of India, St Aloysius College (Autonomous) Mangaluru on 2<sup>nd</sup> March 2023.



- Faculty Development Program in Entrepreneurship (Sponsored by Department of Science & Technology (DST-NIMAT) Organized by MUTBI in association with Department of Humanities & Management, MIT ON 17-28, March 2014.
- Selected and participated in “**STEM teacher training workshop to develop research pedagogy (RBPT)**” held at Pt. Ravishankar Shukla University Raipur, Chattisgarh, from 6th to 9th October, 2017.

#### SEMINARS/CONFERENCE ATTENDED

- .International Conference on Environmental Sustainability “Harmony with Nature” ICESHN-2024 on 5th and 6th of April 2024 organized at St Aloysius (Deemed to be University), Mangaluru, Karnataka.
- Online International lecture on “*Climate change and Environmental devastation*” by Prof. Nancy C. Tuchman, Loyola University, Chicago on 22 March, 2024.
- Attended a Training Programme on “*Evaluation Reforms in Higher Education*” conducted by University Grants Commission (Ministry of HRD), New Delhi on 18th & 19th July, 2019 at Savitribai Phule -DST Auditorium, University of Hyderabad
- Attended a National Conference on “*Data Revolution in Computational Biology and Drug Development*” held on 17 and 18 December 2019, at St Joseph’s College (Autonomous) Bengaluru.
- Attended "Insearch one day Symposium on Insects in Research" Conducted by Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur, Bangalore on Januray 5, 2018
- Attended a International Symposium on universal health coverage “ The key to achieve sustainable development goal 3” conducted by K S Hegde College, Deralakatte, Nitte university held on 8th April 2017.
- Attended Science Academies lecture workshop on “Recent Trends in Biological Research: health and Disease perspective” conducted by department of Applied Zoology, Mangalore University held on 7-8 October 2016.

- Attended three days national seminar on “Science and Technology for indigenous Development in India” from 5th October to 7th October 2015 held at MS Ramaiah College of Science, Bangalore.
- Attended a 7th KSTA national Conference on “Science, Technology and Production –A means for growth” jointly organized by Karnataka Science and Technology Academy (KSTA) & The Oxford College of Science held on 5th and 6th February-2015, Bangalore
- Attended a National Symposium on “Biotechnology and Molecular Biology for Industry and Common Man” and XXXVI PTCA (I) Annual Meet held on 29-31st January 2015, St Aloysius College(Autonomous),Mangalore.
- Attended a National Level Seminar on “New Vistas in Biological Sciences” conducted by Department of Biological Sciences ,St.Aloysius College, Mangalore on 15 and 16th January, 2015.
- Attended a Academia Sensitization Training in Intellectual Property Rights “Training-the-Trainer Workshop” conducted by St. Aloysius College in collaboration with Visvesvaraya Trade Promotion Centre, Govt. of Karnataka, Bangalore on August 11, 2014.
- Attended a National Seminar on “Nuclear energy for a Better Society” organized by St. Aloysius College (Autonomous) in association with Bhabha Atomic Research Centre (BARC) Mumbai on 12-13 December, 2013.
- Attended a National Seminar on “Trend in environmental Biotechnology and its Applications” organized by Department of Biotechnology and Botany, St. Aloysius College (Autonomous), Mangalore on 10-11 December, 2013.
- Attended a National seminar on “Recent trends in Probiotics and Food biochemistry- Significance and Relevance” organized by Department of Biochemistry and Microbiology, St. Aloysius College (Autonomous), Mangalore on 23 August, 2013.
- Attended a National seminar on Pteridophyta, organized by St. Aloysius College (autonomous), Mangalore, 8-9th Feb, 2013
- Attended an International conference on “Recent advances and challenges in biotechnology” organized by Department of Biotechnology Engineering, NMAM Institute of Technology, Nitte, 27-29th Dec, 2012.

- Attended a National seminar on “Waste Management and alternative energy source” organized by department of Zoology, St. Aloysius College (Autonomous), Mangalore, 10-11 Dec, 2012.