

## Biodata

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<b>Designation</b>	Associate Professor
<b>Department</b>	Botany
<b>Academic qualification</b>	M.Sc., Ph.D.
<b>Address</b>	Santhosh Bhavan Edakulangara, P. O. Karunagappally Kollam, Kerala
<b>Teaching Experience</b>	Undergraduate: 13 years 8 months (as on 4/1/2026) Post Graduate: 13 years 8 months (as on 4/2/2026)
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<b>Area of interest</b>	Physiology, Environmental Sciences
<b>Area of Research</b>	Plant Physiology, Environmental Biology, Bamboo Related research Activities

### Responsibilities Undertaken

Held the position of Head of the Department, Post Graduate Department and Research Centre of Botany, Mahatma Gandhi College, Thiruvananthapuram, Kerala, India during the period May 2016 to May 2018

Engaged as the convener of Science Club, 2016-2017, 2017-2018 in Mahatma Gandhi College, Thiruvananthapuram, Kerala

Engaged as Coordinator in Wetlands Celebration at College level, year 2017 and year 2018 in Mahatma Gandhi College, Thiruvananthapuram, Kerala

Life member in Indian Science Congress Association, Kolkata

Engaged as IQAC member, N.S.S. College, Pandalam, Pathanamthitta, Kerala, India from 2019 to 2025

Engaged as convener of the SSR preparation Committee for criteria 3 at N.S.S. College, Pandalam, Pathanamthitta, Kerala, India

Engaged as Convener of Add-on Courses, N.S.S. College, Pandalam, Pathanamthitta, Kerala from 2022-2023, 2023-2024, 2024 to 2025.

Engaged as Question setter for a Government Autonomous College in different academic years

Engaged as Chief Editor for Journal of Advances in Biological Science

## **Publications: Books/ Chapters/Journals**

**Citations- 109; h-index-5; i10index-4 (as on 26/2/2026)**

## **Research Guidance**

1. Nisha, S.A. “Physico – Mechanical and Structural Properties of *Ochlandra wightii* (Munro) C.E.C. Fisch and *O. travancorica* (Bedd.) Gamble based on growth parameters” (**awarded in 2022**).
2. Chithu, P.S. Genetic Diversity and Nutritional Analysis of Selected Bamboo Species in Western Ghats of Kerala (ongoing)
3. Jijymol, K.K. An investigation on selected phytochemical constituents in *Aristolochia indica* L. with regard to various growth parameters in southern Western Ghats (ongoing).
4. Chithra S G Seed Physiology Studies and Seedling Vigour in *Syzygium gardneri* Thw., and *Syzygium caryophyllatum* (L.) Alston (Co-Supervisor) (ongoing).

## **Research Articles in Journals**

1. Nisha, S.A., **Santhoshkumar, R.** (2025). Effect of growth parameters on fibre traits of *Ochlandra wightii* (Munro) C.E.C. Fisch.: Variation with age of culms, height of culms and wall layers of culms. *Advances in Bamboo Science*, Volume 12, August 2025, 100187 (ELSEVIER, Scopus indexed)
2. Bhavana, P. **Santhoshkumar, R.**, Rajesh Kumar, T. (2024). Effects of Different Storage Conditions on Seed Vigour and Storage Reserves of *Syzygium cumini* (L.) Skeels *Annals of Biology* 40 (2): 234-239, 2024 (Scopus Indexed)
3. Neeraja, S. and **Santhoshkumar, R.** (2023). impact of growing regions on phytochemical properties of *Vitex negundo* L. in Kerala. Volume 1-, issue 1 and 2.

4. **Santhoshkumar, R. (2022)**. Significance of the Theoretical Concept of “Gene Maturation Clock” and Attempts to Further Clarify it. *Advanced Studies in Biology*, Vol. 14, 2022, no. 1, 97 – 110 (Web of Science indexed)
5. Chithra, S G , Neethu S Kumar, **Santhoshkumar R** (2022). A study on variations in viability of *Syzygium caryophyllatum* (L.) alston seeds stored at various conditions. *International Journal of Botany Studies*. Volume 7, Issue 4, 2022, Page No. 15-21. (Web of Science indexed).
6. **Santhoshkumar, R.** (2021). "A concept of Gene Maturation Clock" Is it real?. *Annals of Biology*. Volume 37(1), 2021 (Scopus Indexed)
7. Jijymol, K.K., **Santhoshkumar, R.**, Neethu, S. Kumar (2020). An anatomical comparison of *Aristolochia inndica* L. with reference to the geographical region and certain climatic parameters . *Journal of Advances in Biological Science*. Volume 7. Issue 1 and 2.
8. Nisha S.A., Grima G. & **Santhoshkumar R.** (2018). Impact of reed bamboos on the surrounding vegetation in reserve forests of Thiruvananthapuram, Kerala. *IJRAR- International Journal of Research and Analytical Reviews*. Volume 5, Issue 3.
9. Nisha, S.A., Grima, G. and **Santhoshkumar, R.** (2018). Soil Analysis for Macro and Micro Nutrients from the Bamboo (*Ochlandra*) growing forest areas in Thiruvananthapuram, Kerala. *International Journal of Advanced Scientific Research and Management*, Volume 3 Issue 10.
10. S.A.Nisha and R. **Santhoshkumar (2018)**. Soil Nutrient Analysis from the Germplasm Conservation Sites of *Ochlandra* Species at TBGRI, Palode, Thiruvananthapuram. *Trends in Biosciences* 11(7), 2018
11. **Santhoshkumar, R.**, Rajesh Kumar, T., Raveendran, P.B., Lalithambika, R., Arya, S.. Allelopathic Effectt of Shampoo Ginger; *Zingiber zerumbet* (L.) Smith against the Germination of Bengal gram; *Cicer arietinum* (L.). *Journal of Advances in Biological Science* Volume 4 (2), 2017
12. **Santhoshkumar, R.**, Rajesh Kumar, T., Arya, S., Lalithambika, R., Raveendran, P.B. (2017). Allelopathic effect of different concentration of water extract of *Zingiber zerumbet* against the germination of *Cicer arietinum* with a special attention to assess variation in percentage of chemical constituents after germination. *Indian Journal of Tropical Biodiversity*, 25(2):199-203
13. Sreeja Devi, P.S., Jijymol, K.K., Neethu, S. Kumar, **Santhoshkumar, R.** and Raveendran, P.B., (2016). “Variation in Density and Moisture content in Bamboo culms, *Bambusa vulgaris* var. *striata* (Lodd.ex Lindl.) before and after the sprouting in vegetative propagation “, *Journal of Advances in Biological Science*, Vol-3, No-1and 2, Pages: 15 -17,

14. **Santhoshkumar R.**, Bhat, K.V. ,(2016). “Variation in moisture content and density within the internode of the culm of *Bambusa bambos* and *Dendrocalamus strictus*. “, *Indian J Trop Biodiv* , Vol-24, No-1, Pages: 103 -105,
15. Neethu Simon K, **Santhoshkumar R** and Neethu S Kumar ,(2016). “Phytochemical analysis and antimicrobial activities of *Annona squamosa* (L) leaf extracts. Journal of Pharmacognosy and Phytochemistry “, *Journal of Pharmacognosy and Phytochemistry*, Vol-5, No-4, Pages: 128 -131.
16. Arya, B.S., Adarsh, G., Anand, S.K., Neethu, S. Kumar., **Santhoshkumar, R.** (2015). “Selected Medicinally and Economically Important Plants Growing in Aruvippuram Area of Thiruvananthapuram District, Kerala, India.”, *Journal of Tropical Medicinal Plants.* , Vol-15, No-January-December, Pages: 19 -31,
17. **Santhoshkumar, R.** and Bhat (2015). “Variation in density and its relation to the distribution, frequency and percentage of tissues in Bamboo culms, *Dendrocalamus strictus* Nees”, *J. Indian bot. Soc.* , Vol-94, No-1&2, Pages: 104 -110, June 2015
18. Reshma Mohan, Anchu Jayaraj L, Athira AP, Raveendran PB, **Santhoshkumar R**,(2015). “Selected traditional uses of medicinally and economically important plants grown in Kallara Panchayath area of Thiruvananthapuram district, Kerala.”, *J Trop Biodiv* , Vol-23, No-1, Pages: 58 -63, June 2015
19. **R. Santhoshkumar** and K.V. Bhat (2015). “Variation of Shrinkage in Relation to Anatomical properties and age of Selected Bamboo species, *Bambusa bambos* (L.) Voss and *Dendrocalamus strictus* Nees.”, *Indian Journal of Forestry* , Vol-38, No-1, Pages: 87 -89,
20. Neethu, S. Kumar, Dhanyaraj, F.S., **Santhoshkumar, R.**, Sreekutty, J.I., and Padma Priya, C.K. (2015). , “Phytochemical Analysis of *Sesbania grandiflora* (L.) Leaf. “, *Journal of Advances in Biological Science*,, Vol-2, No-1&2, Pages: 45 -49,
21. **Santhoshkumar R.**, K. V. Bhat (2014), “Variation in Density and its Relation to Anatomical Properties in Bamboo Culms, *Bambusa Bambos* (L.) Voss.”, *Journal of Plant Sciences, Science Publishing Group, USA*, Vol-2, No-3, Pages: 108 -112,
22. **Santhoshkumar, R.** and Bhat, K.V. (2014). “Various changes of starch content in the culms of Bamboo species, *Bambusa bambos* (L.) Voss and *Dendrocalamus stricus* Nees at different storage methods. “, *J. Indian bot. Soc.* , Vol-93, No-1 and 2, Pages: 82 -86,
23. **Santhoshkumar, R** and Bhat, K.V. (2014). “Variation of starch content in bamboo culms in relation to different parameters.”, *Indian Journal of Tropical Biodiversity* , Vol-22, No-1, Pages: 78 -81,
24. **Santhoshkumar R**, Santhosh R, Shibu B, Hareesh kumar H, Gayathri SS ,(2014). “A Novel Cold Boat (Cold Plate) Method to Overcome the Irregular Solidification of Paraffin Wax during

the Time of Preparation of Blocks for Microtomy.”, *J Cytol Histol, special issue Histology and Histopathology (1)*, Vol-5, No-Special Issue, Pages: 1 -2,

25. Bhat, K.V., Varma, R.V., Raju Paduvil, Pandalai, R.C., and **Santhoshkumar, R.**, “Distribution of starch in the culms of *Bambusa bambos* (L.) Voss, and its influence on borer damage”, *Bamboo Science and Culture, Journal of American Bamboo Society*, Vol-19, No-1, Pages: 1 -4, 2005

26. **Santhoshkumar, R.**, Raju Paduvil, Bhat, K.V. and Varma, R.V., “A Simple method for Judging the maturity of Bamboo culms”, *INBAR (International Network for Bamboo and Rattan)*, Vol-News Letter, Pages: 12 -12, December 2003

## Popular Articles

1. **Santhoshkumar, R.**, Lalithambika, R. (2020). A New National Election Reforms “One India One Election and also people with three Votes” **Voice of Intellectual Man-An International Journal**, Volume, 10, Issue 1 and 2, 123-130.

2. **Santhoshkumar, R.** (2019). A New Parallel Number System in Hindi with Hindi Version and Transliteration. *Voice of Intellectual Man- An International Journal*, 9(1), 109. doi:10.5958/2319-4308.2019.00010.0

3. **Santhoshkumar, R.** and Lalithambika, R. (2018). A New Concept on ‘One India One Academic Opening Day’ for All Schools and Institutions of Higher Education. *International Journal of Research*, Vol. 7 (2), Pages: 34-36, January - June 2018

4. **Santhoshkumar, R.** and Neethu, S. Kumar, “Systematically Introduce API (Academic Performance Indicators) Score in Higher Education”, **Mainstream Weekly**, Volume 55, No.11, Pages 21-31, March, 2017

5. **Santhoshkumar, R.** and Lalithambika, R., “Introducing New Policy in Real Estate—Special Attention to Control Black Money: Facts and Challenges”, **Mainstream Weekly**, Vol-54, No-39, Pages: 27 -29, September 2016

6. **Santhoshkumar, R.**, “Normalisation of Marks in Competitive Examinations, Eligibility Tests of the UPSC Present Problems and a Solution in the “Perfect List Rotating Method”, **Mainstream**, Vol-LIV, No-26, Pages: 33 -35, June 2016

7. Lalithambika, R. and **Santhoshkumar, R.**, “A New Approach to control the fake notes, Black money and increase the Revenue of State Governments in India.”, **Journal of Indian Development Review**, Vol-13, No-1&2, Pages: 21 -23, 2015

8. **Santhoshkumar, R.**, “A new parallel number system for Hindi language “, **International Journal of Language and Linguistics**, Science Publishing Group, USA., Vol-2, No-3, Pages: 203 -222, May 2014

## Book Published

1. F George D'cruz, Vijayakumaran Nair, **Santhoshkumar, R.** (2016) “*Greening the Earth*” (Core Text for First Programme under CBCSS common for B.A./ B.Sc. EN 1211.1 and 2 (a) CG 1271; Environmental Studies, University of Kerala). Scientific International Private Limited (Publishers and Distributors) 4850/24, Ansari Road, Dayaganj, New Delhi, 110002. 168 pp.

## **Chapter in Book**

1. Chithra S G, Neethu S Kumar, Santhoshkumar R. (2021). A study on variation in growth performance of *Syzygium gardneri* Thw. Seeds stored at different conditions. Seminar on Biodiversity Conservation and Ecosystem Restoration. Publisher: Vimala College, Thrissur, Kerala. ISBN: 978-81-950842-9-6.

## **Papers Presented in Seminars/ Conferences**

1. **Santhoshkumar, R.** (2015). A Chance to Introduce New Parallel Number System for Hindi Language with Transliteration. *In proceeding* of Indian Science Congress held at Mumbai from 3rd January to 7th January 2015

2. **Santhoshkumar, R.**, Lalithabmika, R., Neethu, S. Kumar, and Raveendran, P.B. (2015) “Vehicle Sharing and Use of Bicycle for Travelling; An Effective Panacea to deal with Automobile Pollution”. *In proceedings* of National Seminar on October 14-15, 2015 held at N.S.S. College, Pandalam, Kerala, supported by University Grants Commission, New Delhi and Kerala State Council for Science, Technology and Environment, Government of Kerala. pp 98-100.

## **Courses and Workshops attended**

Participated in UGC – Sponsored Refresher Course in Life Science Interdisciplinary conducted by the UGC- Academic Staff College, University of Kerala, Kariavottom, Thiruvananthapuram from 2/7/ 2014 to 22/7/2014

Participated in 99th Orientation Programme Conducted by University of Rajasthan, Jaipur, Rajasthan from 16th November to 12th December, 2015

Participated in Refresher course in “Education and Teaching Methods” conducted by UGC-HRDC, University of Kerala, Kariavottm, Thiruvananthapuram from 4/3/2020 to 11/3/2020 and 22/7/2020 to 3/8/2020.

Participated in Refresher course in “Environmental Sciences (interdisciplinary)” conducted by UGC-HRDC, University of Kerala, Kariavottom, Thiruvananthapuram from 10/2/2021-23/2/2021.

Participated in a Short tem Course in “Academic writing, Research and Publication ethics” conducted by HRDC, University of Kerala, Karavottom, Thiruvananthapuram from 26/10/2023 to 1/11/2023.

Participated in a short term course in “Curriculum design and outcome based education” conducted by HRDC, University of Kerala, Kariavottom, Thiruvananthapuram from 2/8/2023 to 8/8/2023