

Curriculum Vitae

Dr. Ambarish C.N

M.Sc. PhD. KSET

Assistant Professor, Stage-II

Department of Biochemistry

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Education

Mangalore University, Mangalagangothri, Karnataka, India-574199

- **Ph.D. Biosciences**
- **M.Sc. Biochemistry**
- **B.Sc. Chemistry, Botany and Pharmacognosy.**

Qualified Karnataka State Eligibility Test in 2015

Awards

- **First Rank** by Department of Biochemistry Mangalore University, Mangalore.
- **INSPIRE Fellowship (IF110540)** by Department of Science and Technology, Govt of India, New Delhi.

Academic Bodies

1. **Board of Studies** member of UG Dept of Biochemistry, Mangalore University (2017-2020)
2. **Board of Assigning Examiners** member of UG Dept of Biochemistry, Mangalore University 2018-2019.
3. **Board of Examination** member of UG Dept of Biochemistry, Mangalore University
4. **Board of Examination**, Department of Biotechnology and Biomedical sciences, NITTE (Deemed to be University), Mangalore.
5. **Board of Studies, Department of Microbiology (UG)**, Yenepoya Arts and Science College, Mangalore.

Teaching experience

1. Seven years of Teaching Experience in **Department of Biochemistry. St. Aloysius College**, Mangalore, India (2016-2024).
2. **One year** teaching experience in P.G. Department of Biochemistry, Mangalore University, Mangalore, India (2015-2016).
3. **Two years** of experience in **Department of Biochemistry. St. Aloysius College**, Mangalore, India (2009-2011).
4. **One year** of teaching experience in P.G. Department of Biochemistry, Mangalore University, Mangalore, India (2008-2009).

Research experiences

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1. Working on the ongoing Research project **Study on the Ecotoxicity Effect of Microplastics on Marine fauna on the Coast of Karnataka.**
2. Worked on the research project “**Variation in the activity of different enzymes in sildenafil citrate treated rats**”.
3. Worked and guided the project “**Biopotentials of secondary metabolites isolated from an endophytic fungus *Eupenicillium senticosum***”.
4. Worked on the research project “**Acidified vegetable waste- Novel feedstock for biomethanation**”.

Research Project

1. **VGST, GOK sanctioned Rs 3 Lakh** under RGS/F scheme for project titled “**Study on the Ecotoxicity Effect of Microplastics on Marine fauna on the Coast of Karnataka**” in the year 2020-2021

Research interest

1. Bioinformatics
2. Characterizations of secondary metabolites and its bioactivities
3. Cancer biology/cytogenetics

Training experiences

- Attended Induction Programme for College Teachers, conducted by Centre of Excellence in Science and Mathematics Education (CoESME) at Indian Institute of Science Education and Research (IISER), Pune from **1st May to 26th May 2018**. The program was for teachers of undergraduate courses in basic sciences under MHRD's Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMMNMTT) Scheme.
- Training experience in PCR, RT-PCR and DNA bar coding in vistas in marine biotechnology at CMFRI Cochin as **winter fellow of ICAR**, New Delhi for 21 days.
- Training experience in LC-MSMS and SEM, **DST-PURSE**, Mangalore University.
- Preliminary working experience in Gas chromatography
- Preliminary working experience in UV-visible, IR-spectrophotometer.
- Basic working experience in microbiology and cell lines.
- Basic knowledge in computers and statistical software (SPSS, Origin Pro, Sigma Plot).

Publication Highlights

- **Journal Publications**
- 1. Sapna P V and **Ambarish C.N** 2018. Antioxidant Activities of Medicinal Plant *Fagraea ceylanica* from Western Ghats, Southern India. **Current Nutrition & Food Science**, 14 (5): 406-413
- 2. **Ambarish CN** and Sridhar KR. Zoogeography and Diversity of Endemic Pill-Millipedes in the Southern Hemisphere (Sphaerotheriida: Diplopoda). **Discovery**, 2022, 58(317), 385-398.
- 3. **Ambarish CN** and Sridhar KR. Comparative morphology of eight endemic *Arthrosphaera* (pill-millipedes) of the Western Ghats. **Species**, 2022, 23(71), 213-245.

4. **Ambarish C.N** and Prajna S K.2016. Medicinal Mushrooms (Genus: Lenzites) of Western Ghats. A Future Source for Chitin?. **Trends in Biomaterials and Artificial Organs** 30(1): 13-19.
5. **Ambarish C.N**, Laveena D'Souza, Flavia D'Cunha, Viana D'Souza and Santhosh S W.2017. Antibacterial and antioxidant potential of organic solvents extract of mangrove endophytic fungus *Eupenicillium senticosum* Scott. **J Altern Med Res** 9(1):65-73.
6. **Ambarish C N** and Sridhar K R.2016. Pattern of Distribution of Endemic Pill-Millipedes in the South-Western India; **Proc Zool Soc** 69(2):229-236.
7. **Ambarish C N** and Sridhar K R.2016. Chemical and Microbial Characterization of Feed and Faeces of Two Giant Pill-Millipedes Occurring in Forests of the Western Ghats. **Pedosphere**; 26(6):861-871.
8. **Ambarish C N** and Sridhar K R.2018. Occurrence, Distribution and Morphological Description of 11 Species of Endemic Giant Pill-Millipedes of the Genus *Arthrosphaera* (Diplopoda: Sphaerotheriida: Arthrosphaeridae) in Southern India. **Proc Zool Soc** 71: 1–8.
9. **Ambarish C N** and Sridhar K R.2016.Stridulation and Courtship Behaviour of Four Endemic Pill-Millipedes, *Arthrosphaera* spp. (Sphaerotheriida: Arthrosphaeridae) of the Western Ghats of India; **Proc Zool Soc** 69 (1):104-113.
10. **Ambarish C N** and Sridhar K R.2015.Diurnal periodicity of three giant pill-millipedes (Sphaerotheriida: Arthrosphaera) of the Western Ghats: An ex situ study. **Lepcey** 04 (1):1-10.
11. **Ambarish C N** and Sridhar K R.2016. Biochemical composition of two giant pill-millipedes of the Western Ghats of India. **Biological Letters** 52(1-2):45-61.
12. **Ambarish C N** and Sridhar K R.2015. Pill-millipedes (*Arthrosphaera*: Sphaerotheriida) of the Western Ghats: A future source of antioxidants?. **International Journal of Tropical Insect Science** 35(3):117-124.
13. **Ambarish C N** and Sridhar K R.2015. Isolation and Characterization of Chitin from Exoskeleton of Pill-Millipedes. **Trends in Biomaterials and Artificial Organs**; 29(2):155-159.
14. **Ambarish C N** and Sridhar K R.2016. Microbial dynamics in food, intestine and faecal pellets of two endemic pill-millipedes (*Arthrosphaera*: Sphaerotheriida) of the Western Ghats. **Journal of Agricultural Technology** 9(1): 61-79.
15. **Ambarish C N** and Sridhar K R.2014.Moulting behaviour of giant pill-millipedes (Sphaerotheriida: Arthrosphaera) of the Western Ghats of India: an ex situ study **Lepcey**, 03 (1).12-22.
16. **Ambarish C N** and Sridhar K R.2014. Do the giant pill-millipedes (*Arthrosphaera*: Sphaerotheriida) disseminate arbuscular mycorrhizal spores in the Western Ghats?. **Symbiosis** 64(2): 95-99.
17. **Ambarish C N** and Sridhar K R.2014.Cytological and karyological observations on two endemic giant pill-millipedes *Arthrosphaera* (Pocock 1895) (Diplopoda: Sphaerotheriida) of the Western Ghats of India. **Caryologia** 67(1); 49-56.
18. **Ambarish C N** and Sridhar K R.2013.Production and Quality of Pill-Millipede Manure: A Microcosm Study; **Agricultural research** 3(2):258-264.
19. **Ambarish C N** and Sridhar K R.2013. Pill millipede compost: A viable alternative to utilize urban organic solid waste. **Current science**; 104(11):1543-1547.

20. **Ambarish C N.**, Sridhar K R and Kadamannaya, B.S. 2013. Chromosome studies on two endemic pill-millipedes of the genus *Arthrosphaera* (Diplopoda: Sphaerotheriida) from the Western Ghats of India. *Nucleus* 56(3):205–210.
21. **Ambarish C N** and Sridhar K R.2013. Observations on pill-millipedes of the Western Ghats (India). *Journal of Agricultural Technology* 9(1): 61-79.
22. Kadamannaya B S., **Ambarish C N** and Sridhar K R.2012. Morphological features of three endemic pill-millipedes of the genus *Arthrosphaera* in Western Ghats of India. *Animal Biology Journal* 3 (4); 181-193.

• **Books Written**

1. Ambarish C.N and Vaishali Rai. 2020. SAC campus macrofungus-coffee table book. St Aloysius College, Mangalore (1):pp1-50.

• **Book Chapters**

1. Karun NC, Sridhar KR, **Ambarish CN**, Pavithra M, Greeshma AA and Ghate SD: 2017. Health perspectives of medicinal macrofungi of South western India. Handbook of Nutrition in Heart Health, Edited by Watson RR, Zibadi S; Wageningen Academic Publishers, Netherlands. pp 66-74
2. Karun N.C., Sridhar K.R and **Ambarish C.N.** 2016. Nutritional potential of *Auricularia auricula-judae* and *Termitomyces umkowaan* - the wild edible mushrooms of Southwestern India. *Microbial Functional Foods*, Edited by Gupta V.K. et al ; Wiley-Blackwell, United Kingdom. pp 97-104.
3. **Ambarish, C.N.** and Sridhar, K.R. 2020. Cytology of pill-millipedes (Diplopoda) with an emphasis on *Arthrosphaera disticta*. In: *Mutagenesis, cytotoxicity and crop improvement*. Bhat, T.A. and Wani, A.A. (Ed.), Cambridge Publishing, Australia.
4. **Ambarish, C.N.** and Sridhar, K.R. 2020. Cytogenetics of two giant pill-millipedes of the genus *Arthrosphaera* (Sphaerotheriida) in the Western Ghats of India. In: *Mutagenesis, cytotoxicity and crop improvement*. Bhat, T.A. and Wani, A.A. (Ed.), Cambridge Publishing, Australia.

• **Conference Proceedings**

1. Sapna P V, Anu Mathew and **Ambarish C.N.** 2017. *Unlocking the bioactive potentials of tribal medicinal plant *Fagraea ceylanica* from Western Ghats, Southern India*. International symposium on Universal Health coverage; Nitte University.
2. Chaithra P.S Sumaiyya Shaikh and **Ambarish C.N.** 2016. *Genotoxic evaluation of Silver nanoparticles prepared from *Pseudohydnum sp.* on human lymphocytes: An in-vitro study*. National conference and workshops on Functional nanomaterials, Mangalore;
3. **Ambarish C.N.** 2016. *Bioactivity of marine derived fungus *Aspergillus sp.* from the south west coast of India*. National Conference on Trends and Innovations in Marine Biotechnology, Mangalore.
4. **Ambarish C.N**, Sridhar K.R. 2013. *Significance and conservation of Pill-millipedes (*Arthrosphaera*) of the Western Ghats.*. World Heritage tag and Conservation of Biodiversity (UGC Sponsored National Conference), St Phelomina college, Puttur, Karnataka, India.

5. **Ambarish C N.** 2020. Nutritional analysis of Wild mushroom *Gyrodontium Sacchari*. National seminar on 'Current Advances in Medical and Industrial Biotechnology', organized by Dept of Dept of Biotechnology, Alvas College, Moodbidri.
6. Nanditha Pramod and **Ambarish C.N.**2020. *Isolation and characterization of pigmented bacteria from waste water*. National seminar on 'Current Advances in Medical and Industrial Biotechnology', organized by Dept of Dept of Biotechnology, Alvas College, Moodbidri.
7. Pranam and **Ambarish C.N.**2020.*Preparation of wine from wild fruit of Ficus racemosa*. National seminar on 'Current Advances in Medical and Industrial Biotechnology', organized by Dept of Dept of Biotechnology, Alvas College, Moodbidri.
8. Besil M Y and **Ambarish C.N.** 2020. *Nutritional analysis of Palmyra palm endosperm*. National seminar on 'Current Advances in Medical and Industrial Biotechnology', organized by Dept of Dept of Biotechnology, Alvas College, Moodbidri.
9. Chaithra P.S and **Ambarish C.N.** *Biogenic Silver Nanoparticles: Synthesis, Characterization and Bioactivity*. National conference on 'recent advances in Biochemistry' 23rd February 2018, Organized by Department of Postgraduate Studies and Research in Biochemistry, St Aloysius College (Autonomous), Mangaluru.
10. Chaitra U.B, Yogesh Kumar K and **Ambarish C.N.** *Extraction and Characterization of Chitin biopolymer from Arabian Sea crab Charybdis smithii*. National conference on 'recent advances in Biochemistry' 23rd February 2018, Organized by Department of Postgraduate Studies and Research in Biochemistry, St Aloysius College (Autonomous), Mangaluru.
11. Susha D, Shameena K.A and **Ambarish C.N.** *Phytochemical properties of rambutan (Naphelium lappaceum) peel extract*. National conference on 'recent advances in Biochemistry' 23rd February 2018, Organized by Department of Postgraduate Studies and Research in Biochemistry, St Aloysius College (Autonomous), Mangaluru.
12. Emilin Z, Shameena K.A and **Ambarish C.N.** *Effect of Potassium dihydrogenphosphate (0.1 N) foliar spray on leaves of Amaranthus tricolor*. National conference on 'recent advances in Biochemistry' 23rd February 2018, Organized by Department of Postgraduate Studies and Research in Biochemistry, St Aloysius College (Autonomous), Mangaluru.
13. Nidhi S.S and **Ambarish C.N.** *Isolation and profiling of fatty acids from wild medicinal macro fungus Lenzites betulina*. National conference on 'recent advances in Biochemistry' 23rd February 2018, Organized by Department of Postgraduate Studies and Research in Biochemistry, St Aloysius College (Autonomous), Mangaluru.
14. Frashal D'mello and **Ambarish C.N.** *Preliminary phytochemicals screening and in-vitro antioxidant assay of Ptenocarpus marsupium*. National conference on 'recent advances in Biochemistry' 23rd February 2018, Organized by Department of Postgraduate Studies and Research in Biochemistry, St Aloysius College (Autonomous), Mangaluru.
15. Rashmitha, Shameena.K.A and **Ambarish CN.** 2020. *Evaluation of the Adsorption efficiency of Biodegradable adsorbents in the removal of Heavy metal cations from Industrial waste*. National seminar on 'Current Advances in Medical and Industrial Biotechnology', organized by Dept of Biotechnology, Alvas College, Moodbidri.
16. P Pallavi Prabhu, Shameena .K. A and **Ambarish CN.** 2020. *Synthesis of Bioplastic from the seeds of jackfruit (Atrocarpus heterophyllus)* .National seminar on 'Current Advances

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in Medical and Industrial Biotechnology’, organized by Dept of Biotechnology, Alvas College, Moodbidri.

17. Vishrutha Pai K, Shameena K A and **Ambarish CN**. 2020. *Screening of phytochemicals from wheat and green grams grown in soil and hydroponics process*. National seminar on ‘Current Advances in Medical and Industrial Biotechnology’, organized by Dept of Biotechnology, Alvas College, Moodbidri.

Symposia/workshop attended:

- **“Food biotechnology”**- Karpagam Arts and Science College, Coimbatore.
- **“Applications of Radioactive isotopes and Radiation”** at Mangalore University.
- **“Forest and Microbial Diversity – its relevance”** at P. G Department of Microbiology, Mangalore University.
- **“Applications of nanotechnology in modern medicine”** NITTE university Derallkatte.
- **“World heritage tag and conservation of biodiversity”** St. Philomena college, Puttur.
- **“Forest diversity of species and conservation”** Department of Applied Botany, Mangalore University, Mangalore.
- **“Indian academy of science outreach seminar workshop on molecular biology”** Department of Biochemistry, Mangalore University, Mangalore.
- **“Genetic and molecular diagnosis in modern medicine and biology”** Yenepoya University, Mangalore.
- **“Evolutionary biology: Darwin and beyond”** St. Aloysius College, Mangalore.
- **“Gene, Genomics and Proteomics”** St. Aloysius College, Mangalore.

Memberships

- Life member of **“Society of Biological chemist India”**, IISc, Bangalore, India.

Reference

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Date: 17.07.2023

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