

Faculty Profile

**Contact:****Ph:** 040-27111611 (Extn :214)**Email:** a_nju.micro@bhavansvc.ac.inORCID ID: <http://www.orcid.org/0000-0002-8021-2171>**Name:** Mrs. S.Anju**Department:** Microbiology**Designation:** Assistant Professor**Qualification:** M.Sc (Microbiology), CSIR-NET**Teaching Experience:** 17 years**Academic Positions:** Science Club Coordinator**Areas of Interest:** Nanobiotechnology, Molecular Biology

❖ Research Projects Undertaken:

Comparative study of enzymes and factors involved in the biological synthesis of the silver nano particles by microbes”. Funded by (UGC –SERO) 2014-2016

❖ Publications:

❖ International

1. Anju, S., & Sarada, J. (2020). Comparative analysis of biofabricated silver nanoparticles as antibiofilm agents on *Pseudomonas aeruginosa*. *Current Trends in Biotechnology and Pharmacy*, 14(1), 51-61.
2. Anju, S., & Sarada, J. (2016). Quorum sensing inhibiting activity of silver nanoparticles synthesized by *Bacillus* isolate. *Int J Pharm Biol Sci*, 6(1), 47-53.
3. Anju, S., Kondari, S. R., & Sarada, J. (2014). Bioprocess of silver extraction from used X-ray and MRI films. *Acta Biol Ind*, 3, 561-568.
4. Sarada J, Anju S, Sai Gayathri P, Sri Charani, Sushmitha K.N.S. (2019). Evaluation of medicinal plant extracts and biosynthesized nanoparticles for antibiofilm activity against *Pseudomonas* biofilm. *International Journal of Scientific Research in biological sciences, special issue*, (6)103-110.
5. Renuka Ambilgeker , Anju S , Selva kumar V, Sarada J (2019). Evaluation of growth promoting activity of *Pleurotus ostreatus* extract on *Trigonella foenum*, *Cicer arietinum*, *Brassica nigra*, *Coriandrum sativum* *International Journal of Scientific Research in biological sciences, special issue*, (6) 8-13
6. Sanmita Belde, Anju S, Selva Kumar V, Sarada J, (2019). Comparative analysis of plant growth promoting activity of iron, silver and zinc oxide metal nanoparticles *International Journal of Scientific Research in biological sciences, special issue*, (6) 14-18
7. Mani kanta J, Kumari Neelam Anju S, Sarada J, (2019). Growth promotional activity of green synthesized nanoparticles on Phyllosphere and Rhizosphere

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Microflora of *Capsicum baccatum*, *Rosa* species and *Murraya koenigii*. *International Journal of Scientific Research in biological sciences, special issue, (6)* 1-7

8. Anju, S., & Sarada, J. Comparative analysis of microbial Nitrate reductase structure using Bioinformatics. *International Journal of Advance research in Science and engineering, Special issue (6)*, 251-257

❖ ISBN/ Bookchapter

1. Bramhachari, P. V., Anju, S., Sheela, G. M., Komaraiah, T. R., Venkataiah, P., & Prathyusha, A. M. V. N. (2019). Secondary metabolites from marine endophytic fungi: Emphasis on recent advances in natural product research. *Advances in endophytic fungal research*, 339-350.
2. Anju, S., Aparna, Y., Bhima, B., & Sarada, J. (2018). Novel insights on the *Bacillus* quorum sensing mechanism: its role in competence, virulence, sporulation and biofilm formation. In *Implication of Quorum Sensing System in Biofilm Formation and Virulence* (pp. 313-327). Springer, Singapore.

❖ Papers Presented

1. Combined effect of biofabricated nanoparticles and *Terminalia chebula* extract on biofilm of *Pseudomonas aeruginosa* YU-V10 isolated from Urinary Catheter”-2nd World Congress on Infectious Diseases, IISC, Bengaluru. (17th October 2020)
2. S.Anju & J.Sarada Evaluation of Combinatorial effects of Silver nanoparticles with QS agents on Biofilm of *Pseudomonas aeruginosa* YU-V10- International e-Conference on Advances in Microbial Biotechnology and Biotherapeutics, OU, (10th -12th September 2020)
3. S.Anju & J.Sarada, Silver Nanoparticles fabricated with *Garcinia Cambogia* fruit extract as an Antibiofilm Agent- 59th Annual Conference of Association of Microbiologists of India & International Symposium on Host – Pathogen Interactions, HCU.(9th-12th December 2018)
4. S.Anju & J.Sarada, Biofilm Inhibition and Dispersal activity using AgNPs & Natural QSI Agents.- National Seminar on ‘ Frontiers in Microbial Biotechnology, OU(22& 23 Feb 2017)
5. S.Anju & J.Sarada , Bioprocess of Extraction of Silver from used X-ray and MRI films- International Conference on Biodiversity, Bioresources and Biotechnology., Mysore University(Jan 30-31,2014)

❖ Awards / Recognitions

1. Received “AWSAR Award 2019” in PhD category Conferred by Department of Science & Technology, New Delhi.
2. Best Paper Award – “Detection & optimization of Microbial Nitrate Reductase Enzyme for Lab Scale production of Silver Nanoparticles” at National Seminar on Advances in

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Bioprocess Engineering.

❖ **Workshops/ Refresher courses /Training programs / FDP Attended: (Last Five Years)**

1. 3- Day online workshop on outcome based education and online course design, development and delivery-By Department of Education and Education Technology, HCU (16- 18 May 2020)
2. 2- Day online workshop on Awareness of intellectual property rights in need of the hour- By Shivaji University, Kolhapur, UGC sponsor STRIDE component (8 & 9 May 2020).
3. NPTEL-FDP course(Managing intellectual property in universities), Jan-Feb 2019
4. Skill development course on High performance liquid chromatography, Gas chromatography and Fast protein liquid chromatography, NIT, Warangal(15-20 July 2019)
5. Participated Mini workshop on Art of publication and communication, AMI, HCU (11 Dec 2018)
6. Refresher course in Life science by UGC HRDC, OU(29.10.2018 TO 20.11.2018)
7. Workshop on Research based pedagogical tools, IISER,Pune & DBT Newton Bhabha fund (British Council),(17th-19th Jan-2018)
8. 3-day Workshop for Scholars on Spiritual Values & Ethics, UGC Sponsored workshop for Scholars, (27th -29th July 2017)