

FACULTY PROFILE



❖ **Basic Information**

- **Name:** Dr. Pallavi Shyam Kaparekar
- **Designation:** Assistant professor (CHB)
- **Department:** Department of Botany
- **Area of Specialization:** Plant Pathology

❖ **Educational Qualifications:**

- PhD in Biological Sciences from The Academy of Scientific and Innovative Research (AcSIR) headquartered at the Council of Scientific and Industrial Research-Human Resource Development Centre Campus, Chennai, Tamil Nadu. 2018-2022.
- Major National Level Exams:
 - Maharashtra State Eligibility Test for Lectureship (**MH SET-2016**)
 - CSIR-UGC -National Eligibility Test for Lectureship (**CSIR-UGC-NET-2015**) **AIR-055**
 - CSIR-UGC- National Eligibility Test for JRF/SRF Fellowship (**CSIR-UGC-JRF-2015**) **AIR-100**
 - Indian Council of Agricultural Research-National Eligibility Test (**ICAR-NET-2014**)
 - CSIR-UGC -National Eligibility Test for Lectureship (**CSIR-UGC-NET-2014**) **AIR-044**
 - CSIR-UGC -National Eligibility Test for Lectureship (**CSIR-UGC-NET-2013**) **AIR-055**
- 1. **M.Sc. Botany, SGBAU, Amravati. 2013-2015.**
- 2. **M.Sc. Biotechnology, BAMU, Aurangabad. 2010-2012.**
- 3. **B.Sc. Biotechnology with Chemistry and Botany, SGBAU, Amravati. 2008-2010.**

❖ **Teaching Experience:**

Total Teaching Experience: 3 Years

❖ Research Experience

- Total Research Experience: 9 years
- Areas of Research Interest: Molecular Biology, Plant breeding, Cell Biology and immunology.

❖ Research Publications

(A) Research Papers in National/ International Journal

- **Kaparekar, P.S.;** Pathmanapan, S.; Anandasadagopan, S.K. Polymeric Scaffold of Gallic Acid Loaded Chitosan Nanoparticles Infused with Collagen-Fibrin for Wound Dressing Application. *Int.J. Biol. Macromol.* 2020; 165, 930–947. **(Impact Factor: 8.2).**
- **Kaparekar, P.S,** Poddar N, Anandasadagopan SK. Fabrication and characterization of Chrysin
- -A plant polyphenol loaded alginate -chitosan composite for wound healing application. *Colloids Surf B Biointerfaces.* 2021; 206:111922. **(Impact Factor: 5.9).**
- **Kaparekar, P.S.;** Anandasadagopan, S.K. The Potential Role of Bioactive Plant - Based Polyphenolic Compounds and Their Delivery Systems — as a Promising Opportunity for a New Therapeutic Solution for Acute and Chronic Wound Healing. *Curr. Pharmacol. Reports* 2022; 8, 1–18. (Impact Factor: 1.5).
- **Kaparekar, P.S.;** Anandasadagopan, S.K. In vitro and in vivo effect of novel GA-CSNPs loaded col-fibrin nanocomposite scaffold on diabetic wound healing. *J Biomed Mater Res B Appl Biomater* 2022; 1-15. (Impact Factor: 3.4).
- Chrysin-loaded alginate-chitosan bio-polymeric composite scaffold accelerates diabetic wound healing by modulating the process of angiogenesis and MMP-9 expression. **Pallavi Shyam Kaparekar** and Suresh Kumar Anandasadagopan (Under preparation).

(C) Conference / Seminar Proceedings

- Participated in the poster presentation at 8th interdisciplinary symposium on materials chemistry (ICMS-2020) (June 17-19 2021) Mumbai.
- **Kaparekar, P.S.;** Pathmanapan, S.; Anandasadagopan, S.K. Polymeric Scaffold of Gallic Acid Loaded Chitosan Nanoparticles Infused with Collagen-Fibrin for

Wound Dressing Application.

- Secured first prize in the oral presentation at International Collagen Symposium 2022, under the theme of wound healing and collagen, (6-8 October 2022) Chennai.
- **Kaparekar, P.S.**; Anandasadagopan, S.K. In vitro and in vivo effect of novel GA-CSNPs loaded col-fibrin nanocomposite scaffold on diabetic wound healing.
- Participated in the oral abstract presentation at National Conference on Advances and Innovation in Plant Sciences organised by Department of Botany Government Vidarbha Institute of Science and Humanities, Amravati.
- Green synthesis of Gold Nanoparticles from the Rare Medicinal Plant *Radermachera xylocarpa* (Roxb.) Karl Moritz Schumann. **Pallavi S. Kaparekar** and Dinesh Khedkar PGTD Botany, Shri Shivaji Science College, Amravati
- Participated in the Recent Advances in the Use of Biomaterials for the Treatment of Chronic Wounds: An Multidisciplinary Approach, Current Trends and Future Prospects. JSS Collage of Pharmacy. (4-5 February 2022) Ooty.