

Biodata

Dr. Seema J Patel

Professor

Department of studies in Biotechnology

Qualification : M.Sc., Ph.D.

Areas of Specialization : Microbiology

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- Qualification** : M.Sc (Microbiology), Ph.D.,
- First rank and gold medalist in M.Sc., (Microbiology), Kuvempu University
 - Qualified in NET UGC CSIR, SLET

Professional Details

- Worked as Guest Lecturer at Department of Microbiology, Sahyadri Science college, Shivamogga
- Worked as Lecturer/Senior Lecturer/ Assistant Professor/Professor at Department of Biotechnology, GMIT, Davangere
- Working at Department of Studies in Biotechnology, Davangere University as Associate Professor since 2019, as Professor since 2024.

Areas of Research Interest:

Industrial Microbiology, Biofuels, Probiotics

Academic/Administrative responsibilities:

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| 1. | BOE member in Microbiology at Kuvempu University in 2008-09 |
| 2. | BOE member in Microbiology at Sahyadri Science College (Autonomous) in 2010-11 |
| 3. | BOE member in Biotechnology at Visvesvaraya Technological University in 2011-12, 2014-15 |
| 4. | Chairman of DOS in Biotechnology, Davangere University (July2019-January2020) (January 2022 to 2024) |
| 5. | BOE Chairman of UG and PG Biotechnology, Davangere University 2019-20, 23-24 |
| 6. | BOS member of UG and PG Biotechnology, Davangere University 2020-23 |
| 7. | Member Secretary for Internal complaints Committee, Davangere University 2020-21 |
| 8. | BOS Chairman of UG and PG Biotechnology, Davangere University 2023-25 |
| 9. | Member of CDC Local Inspection Committee for affiliation to degree colleges |

Research Projects:

Completed a funded project sponsored by Life Science Research Board of DRDO, Govt. Of India, New Delhi , “Design and analysis of Microbial Fuel Cell (MFC) for sustainability” as Co-investigator

Research Publications:

Published more than 40 research articles in national/international journals and conference proceedings

Patent **filed**, titled "CYSTEINE-FUNCTIONALIZED GOLD NANOSTRUCUTURES AS CHEMICAL SENSORS". Patent No. 202141036928 A

Patent **filed**, titled "NMDA receptors antagonist from natural sources for Parkinson disease". Patent No. 202341055613A

Editorial board member, reviewer for two journals

Book Published / Book Chapters Published:

Books

- Plant and animal tissue culture, 2017
- Clinical Biotechnology, 2017
- Pharmaceutical Biotechnology, 2017

Book chapters

- Fungal enzymes for second generation ethanol production in book "Recent advances in Microbial, Agricultural and Environmental Biotechnology"(RAiMAEB-vol:1) ISBN-978-81-940490-6-7, InSc publishing (2021)
- Screening of Novel Metabolites from Actinobacteria. In: Yaradoddi, J.S., Kontro, M.H., Ganachari, S.V. (eds) Actinobacteria. Rhizosphere Biology. **Springer, Singapore. (2021).**
- Medicinal potential of phytochemicals as a source of drug for the treatment of Onchocerciasis (River blindness). In book Neglected tropical diseases and phytochemicals in drug discovery, 2022, John **Wiley & Sons Inc.**
- Microbial Nanoparticles-An alternative to traditional nanoparticle synthesis, in book Singh – Environmental applications of Microbial Nanotechnology, Eds, Pradeep Singh, Vijaykumar, Mansi Bakshi, **Elsevier, 2022**
- Impact of Metal Oxide Nanoparticles on Human Health and Environment, in book Nanotechnology: Current Uses, Future Applications in Biomedicine Eds. Siddappa B. Kakkalameli Azharuddin B. Daphedar, SHINEEKS Publishers, USA, 2023

Research Guidance Details:

M.Sc., Engg by Research - Varsha D Savanth Awarded in 2013 under VTU

Ph.D.,: Srividya D (DST/ KSTePS fellowship awarded) Awarded

Ganesh G Tilve (ongoing), Gajendra Kumar P (ongoing)

Kishorekumar B (ongoing), Bilwashri H (ongoing)

Koushik B R (ongoing), Sumathi BS (ongoing)

Conference/ Workshops/Trainings attended/organized:

Organized various national seminars, conferences and webinars

Attended many national and international conferences, workshops, FDPs and webinars

Given various invited talks as guest speaker

Professional Membership - Life member for Indian Society for Technical Education (ISTE), AFSTI, Biotech Research Society of India, KAAS