ACULTY PROFILE (Template)

Name : Seema J Patel
Designation : Professor
Department & Faculty : Biotechnology, Faculty of Science
Qualification : M.Sc., Ph.D.
Date of Joining :15-7-2019
E-mail ID (Institutional) : seemajp.kv@davangereuniversity.ac.in



Academic Qualifications

Degree	University	Specialization	Year	Percentage/CGPA
Ph.D.	Kuvempu	Industrial Microbiology	2009	-
PG	Kuvempu	Microbiology	1999	72
UG	Kuvempu	Botany, Biochemistry, Microbiology	1997	76.77

Professional Experience

Sl. No	Designation	Institution / University / Organization	Nature of Appointment (Permanent/ Contract/Adhoc)	UG/PG/ Research	From	To	Total Experience (Years & Months)	Nature of Work (Teaching / Research / Administration / Industry)
1	Guest Faculty	Sahyadri Science College	Adhoc	UG	1999	2004	5	Teaching
2	Lecturer, Senior Lecturer, Assistant Professor, Professor	GMIT	Permanent	UG UG UG&PG UG&PG	2004	2017	13	Teaching
3	Associate Professor, Professor	Davangere University	Permanent	PG & Research	2019	Till date		Teaching

Research Profile

Areas of Research	Microbial Biotechnology
Keywords	Biofuel, Yeast
ORCID ID	0000-0002-5310-153X
Scopus ID	57211722623
Web of Science ID	RCX-3700-2026
Vidwan ID	176107
Google Scholar	https://scholar.google.com/citations?hl=en&user=K1KsLe8AAAAJ&hl=en
ResearchGate	https://www.researchgate.net/profile/Seema-Patel-15?ev=hdr_xprf

Research Publications								
Sl. No.	Title	Journal	Quartile	Impact Factor	Year	DOI	Scopus/WoS	Citations
1	Pharmacophore elucidation and docking studies on anti-inflammatory compounds of medicinal plants for ulcerative colitis	Asian J Pharm Clin Res	Q3	0.7	2013		Scopus	
2	In-Silico Docking studies for the Comparative Analysis of Natural and Synthetic Compounds against *Leptospira interrogan,*	Int. J. Drug Dev. & Res	Q2	0.18	2013		Scopus	
3	Production and characterization of xylanase from local fungal isolates by submerged fermentation	Asian Jr. of Microbiol. Biotech. Env. Sc.	Q4	0.12	2014		Scopus	
4	Pharmacogenomic analysis of single-nucleotide polymorphisms of Angiotensin-I converting enzyme gene in stroke	Asian Journal of pharmaceutical and clinical research,	Q3	0.7	2015		Scopus	2
5	Transcriptome analysis of mRNA expression profiling to predict potential Biomarkers induced in breast cancer-brca1	Asian Journal of pharmaceutical and clinical research	Q3	0.48	2016		Scopus	
6	Evaluation of Anti-Acne and Anti-Dandruff Activity of Seed Protein Extracts	International Journal of Pharmacognosy and Phytochemical Research	Q4	1.846	2017		Scopus	
7	Characterization and in vitro Applications of Immobilized Protease from Local Varieties of Papaya	Annals of Agri-Bio Research,	Q4	0.28	2021		Scopus	
8	Isolation and identification of killer yeasts from *Psidium gujava*	Journal of Applied Biology & Biotechnology	Q3		2023		Scopus	
9	Effect of Agro-industrial Residue Composition on the Production of Endo-1, 4-β-Xylanase by *Bacillus pumilus*	Indian Journal of Agricultural Research.	Q3		2025		Scopus	3
10	Characterization and Screening of Antagonistic Activity of Endophytic Fungi Isolated from *Muntingia calabura*	Annals of Agri-Bio Research,	Q4		2025	https://doi.org/10.53941/agribio.2025.1000013	Scopus	
11	Harnessing Over Ripe Fruits for Isolation and Optimization of Xylose Utilizing Yeasts and	International Journal of Environme	Q4		2025	https://doi.org/10.64252/qxmzmn94	Scopus	

	Analysis of its Fermentation Products	ntal Sciences,						
12	Exploring the Industrial Application of Xylitol Derived from Over-Ripe Fruit Fermentation by Formulation of Xylitol-Based Toothpaste	Journal of Chemical Health Risks	Q4		2025	https://doi.org/10.52783/jchr.v15.i6.11148	Scopus	
13	Exploring yeast biodiversity in fruit waste for cellulose degradation and proteomic profiling,	Malaysian Journal of Microbiology,	Q4		2026	http://dx.doi.org/10.21161/mjm.251135	Scopus	
14	Integrated in silico structural and functional characterization of cellulase enzymes from cellulolytic yeasts,	Genetics and Molecular Research	Q4		2026	https://doi.org/10.4238/mvxg4w81	Scopu & Web of Science	
15	Isolation and characterization of pectinase-producing yeast from the gut microbiota of silkworms (*Bombyx mori*. L).	Journal of Applied and Natural Science	Q3		2026	https://doi.org/10.31018/jans.v18i2.7546	Scopus	
16	Biogenic synthesis of zinc oxide nanoparticles using *Pichia cactophila*-derived β-glucan as a novel capping agent: Characterization, antioxidant, antibacterial, and cytotoxicity evaluation,	Biotechnology Notes	Q2		2026	https://doi.org/10.1016/j.biotno.2026.06.004	Scopus	
17	Microbiota-Derived Pectinase from Bombyx mori.L for Enhanced Fruit Juice Clarification and Wine Quality Modulation.	Natural Resources for Human Health	Q3		2026	https://doi.org/10.53365/nrfhh.761	Scopus	

Books

Sl. No	Title of the Book / Book Chapter	Authors	Publisher	ISBN	Year of Publication	State/ National/ International	Remarks
1	Plant and animal tissue culture	Single author	Lulu Publications, US	978-1-365-69590-2	2017	International	
2	Clinical Biotechnology	Single author	Educreation, Delhi	978-1-61813-633-6	2017	National	
3	Pharmaceutical Biotechnology	Single author	Sara Publication, Ahmedabad	978-1-73034-844-0	2017	National	
4	Fungal enzymes for second generation ethanol production in book "Recent advances in Microbial, Agricultural and Environmental	Single author	InSc publishing	ISBN-978-81-940490-6-7	2021	National	

	Biotechnology"(RAiMAEB-vol:1)						
5	Screening of Novel Metabolites from Actinobacteria. In: Yaradoddi, J.S., Kontro, M.H., Ganachari, S.V. (eds) Actinobacteria. Rhizosphere Biology.	Co-author	Springer	ISBN 978-981-16-3353-9	2021	International	
6	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 Eds. Chukwuebuka Egbuna, Muhammad Akram, Jonathan Chinenye Ifemeje	Co-author	John Wiley & Sons Inc.	ISBN 9781119617112	2022	International	
7	Microbial Nanoparticles-An alternative to traditional nanoparticle synthesis Singh – Environmental applications of Microbial Nanotechnology, Eds, Pradeep Singh, Vijaykumar, Mansi Bakshi	Corresponding author	Elsevier	ISBN: 978-0-323-91744-5	2022	International	
8	The Current Opportunities And Future Prospects Of Microbial Nanotechnology In: Recent Trends In Multidisciplinary Research (Rtmr-2023) Eds. C. Shanmuga Priya Seema Shukla	Co-author	Association of Global Academician and Researchers (AGAR) Publications , Tamil Nadu , India	ISBN 978-93-91387-26-6	2023	National	
9	Impact of metal oxide on human health and environment. In:Nanotechnology: Current uses, future applications in Biomedicine Eds. Siddappa B Kakkalameli Azharuddin B Daphedar	Corresponding author	SHINEEKS Publishers	ISBN 978-1-63278-970-9	2023	National	
10	Harnessing nature's richness: Delving into the impact of phytochemicals from fruit peels on health and wellness In: Plant derived bioactive compounds in human health and disease	Corresponding author	CRC press Taylor & Francis group	ISBN: 978-003-48623	2025	International	

	Eds. Surajit Pathak and Antara Banerjee						
11	Nano-Fertilizers: Smart Nutrient Delivery Systems for Sustainable and Precision Agriculture In : Fundamentals and emerging Applications of nanoscience and nanotechnology	Co-author	JPS Scientific Publications	ISBN: 978-93-48679-89-5	2025	National	

Research Guidance

Sl. No	Name of the Scholar	University	Registration (DD/MM/YYYY)	Research Area	Title of the Thesis	Date of Award
1	Srividya D	Davangere University	20/2/2020	Microbial Biotechnology	Production, characterization and potential application of yeast mycocin isolated from fruits used in jams and pickles	13/2/2024
2	Ganesh G Tilve	Davangere University	10/12/2021	Microbial Biotechnology	Bioprospecting fermented products of xylose utilising yeasts isolated from over-ripe fruits	6/5/2026
3	Kishorekumar B	Davangere University	10/12/2021	Microbial Biotechnology		
4	Koushik B R	Davangere University	1/4/2023	Microbial Biotechnology		
5	Bilvashree	Davangere University	1/4/2023	Microbial Biotechnology		
6	Gajendra Kumar P	Davangere University	1/4/2023	Microbial Biotechnology		
7	Sumathi B S	Davangere University	22/4/2024	Microbial Biotechnology		
8	Rashmi G J	Davangere University	30/6/2025	Microbial Biotechnology		

Academic Responsibilities (BOS, Academic Council, Syndicate, IQAC, NAAC, NIRF, Committees)					
Sl. No.	**Academic Responsibility / Position Held**	**Department / Institution / University**	**Role (Chairperson / Member / Coordinator / Convener / Nodal Officer, etc.)**	**From (DD/MM/YYYY)**	**To (DD/MM/YYYY)**
1	Board of Examinations (UG)	Microbiology, Kuvempu University	Member	2008	2009
2	Board of Examinations (UG)	Microbiology , Sahyadri Science College (Autonomous)	Member	2010	2011
3	Board of Examinations (UG, PG)	Biotechnology, Visvesvaraya Technological University	Member	2011 2013	2012 2014
4	Board of Examinations (UG, PG)	Biotechnology, Davangere University	Chairman Member Chairman Member Chairman Member Member	2019 2020 2021 2022 2023 2024 2025	2020 2021 2022 2023 2024 2025 2026
5	Board of Examinations (PG)	Biotechnology, Kuvempu University	External Member	2024	2025
16	Board of Examinations (PG)	Biotechnology, Bangalore University	External Member	2025	2026
7	Board of Syllabus (UG, PG)	Biotechnology, Davangere University	Member Chairman Member	2020 2023 2025	2023 2025 2028
8	Board of Syllabus (UG)	Biotechnology, Tumkur University	External Member	2025	2028
9	Board of Syllabus (PG)	Biotechnology, Kuvempu University	External Member	2026	2029
10	Prospectus committee	Davangere University	Member	2023	Till date
11	Expert committee for USIC	Davangere University	Member	2023	Till date
12	Research Review Committee	GM University	Member	2025	Till date

Administrative Responsibilities (Director, Dean, Chairperson, Coordinator, Nodal Officer, Warden, etc)

Sl. No	Administrative Responsibility / Position Held	Department / Institution / University	Nature of Assignment (Permanent / Additional Charge / Nomination)	From (DD/MM/YYYY)	To (DD/MM/YYYY)
1	Chairman	Biotechnology	Additional Charge	17/7/2019	17/1/2020
2	Chairman	Biotechnology	Additional charge	18/1/2022	17/1/2024
3	Chairman	Internal Complaints committee	Additional charge	2024	Till date

Awards & Recognition

Sl. No	Name of the Award / Honour	Awarding Organization / Agency	Level (University / State / National / International)	Year	Cash Award / Citation / Medal (if applicable)
1	Gold medal	Zindal	University	1999	Medal
2	Academic Excellence award	Institute of Researchers	National	2023	

Membership in Professional Bodies

Sl. No	Name of the Professional Body / Society	Membership Category (Life / Annual / Fellow / Senior Member / Honorary)	From (DD/MM/YYYY)	To (DD/MM/YYYY)	National / International
1	Indian Society for Technical Education (LM43084)	Life member	2015		National
2	AFSTI - AFSTI/LM/4-2020/DVG/3511	Life member	2020		National
3	BRSLI - BRSI LM 2525	Life member	2024		National
4	KAAS – KL328	Life member	2024		State
5	Institute of Researchers INRes – LM022320	Life member	2025		National

Extension & Outreach

Sl. No	Activity / Programme	Nature of Contribution (Coordinator / Convener / Resource Person / Expert / Volunteer / Consultant)	Organizing Institution / Agency	Level (University / State / National / International)	Date / Academic Year	Outcome / Impact
1	Vignana mela	Resource Person	Tarala balu hunnime, Sirigere	State	22nd February 2024	Spreading the knowledge of Biotechnology to the common people

Expert Talks

Sl. No	Title of Lecture / Programme	Organizing Institution	Role (Keynote / Invited Speaker / Resource Person / Panel Expert)	Level (University / State / National / International)	Date
1	Special lecture on National science day	BIET, Davangere	Keynote Speaker	University	28th February, 2022.
2	Lecture on Clinical Biotechnology in State level symposium	GMIT, Davangere	Invited speaker	State	29th December 2022
3	Special lecture on "Exploring yeast diversity for improving 2nd generation bioethanol production" Lecture series on recent trends in Microbiology	Department of Microbiology, Davangere University	Resource Person	University	14th February 2024
4	National level research presentation-Confluence	GM University, Davangere	Panel expert	National	7th November 2025.
5	Science day and Women's day progarmme	Bapuji BEd college, Davangere	Keynote Speaker	University	9th March 2026.

Research Metrics (as on 29/09/2026)		
Sl. No	**Research Metric**	**Value Source**
1	Total Research Publications	46
2	Books Published	3
3	Book Chapters Published	8
4	Total Citations (Google Scholar)	328
5	**h-index (Google Scholar)**	9
6	**i10-index (Google Scholar)**	8
7	Patents Published/Granted	2
8	Ph.D. Scholars Awarded	2
9	Ph.D. Scholars Guiding	6
10	Research Awards / Honours	2
11	Invited / Keynote Lectures Delivered	5
12	Editorial Board Memberships	1
13	Reviewer for International Journals	2

Personal Details		
Gender	Female	
Date of Birth	18-06-1976	
Contact details	Address for Communication	Permanent address
	Department of studies in Biotechnology Davangere University Shivagangothri, Tolahunase, Davangere-577007	Department of studies in Biotechnology Davangere University Shivagangothri, Tolahunase, Davangere-577007