

CURRICULUM VITAE

Mr. Pradeep.S

Asst. Professor
Department of Biotechnology,
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Professional Experience

- Currently working as an **Assistant Professor** in Biotechnology department, at **BMSCE**, Bangalore since from July 2010 to till date
- Worked as a **Lecturer** in Biotechnology department, at **NCET**, Bangalore since from Aug 2009 to July 2010
- Worked as a **Product manager** at **SRG Medical specialties Private Ltd** since from Sept 2006 to April 2007

Academic Qualifications

Doctoral research University	: Ph.D. in Chemical Engineering : IIT Bombay, Mumbai.
Post-Graduation University	: M Tech in BIOINFORMATICS : SASTRA University, Tamilnadu.
Graduation Institute / University	: B.E in BIOTECHNOLOGY : GMIT, VTU, Karnataka.

Journal Publications:

1. Pradeep. S, Chandraprasad M.S., Hadagali Ashoka, Ashok Kumar. S, B V Sai Sundari, Ranjitha Guttapadu, "Screening for Phytochemicals having Herbicidal Properties from Pomegranate Peel" Int J Drug Deliv Technol. 2026;16(31s):486-497. DOI: 10.25258/ijddt.16.31s.56
2. S P, MS C, Ashoka H, Biradar NG, S SS and N SN, Development of Sustainable Chitosan– Collagen Composite Scaffolds from Bio-Waste for Tissue Engineering Applications. Int J Drug Deliv Technol. 2026;16(3): 48-55. DOI: 10.25258/ijddt.16.3.7
3. Shivaraja G, Fadzilah Adibah Abdul Majid, S. Pradeep, Dwi Hudyanti, Wan Mohd Norsani Wan Nik, Sanay Naha, B.M. Praveen. Synthesis, In silico studies and antitumor activity of new 4-bromo-2-(1H-1,2,4-triazol-3-yl) aniline derived schiff bases, Journal of Molecular Structure, Volume 1345, 2025, 142987, ISSN 0022-2860 <https://doi.org/10.1016/j.molstruc.2025.142987>
4. Nisha Pujari, Pradeep S, KV Venkatesh, Sanjay Mahajani, Narendra Shah, Amit Arora. Comparison of Blood Glucose on Consumption of Non-Centrifugal Sugar and Refined

- Sugar, Current Developments in Nutrition, Volume 8 and supplement 2, 102371, July 2024 [https://cdn.nutrition.org/article/S2475-2991\(24\)00305-6/fulltext](https://cdn.nutrition.org/article/S2475-2991(24)00305-6/fulltext)
5. Ashoka, H., Pradeep, S., Nair, K., & Venkatesh, K. (2024). Modeling glucose–insulin dynamics to evaluate healthy and diseased population characteristics in type 2 diabetes mellitus. *Mathematics in Medical and Life Sciences*, 1(1). <https://doi.org/10.1080/29937574.2024.2431821>
 6. Suchetha Muniraju, S. Pradeep, Chandraprasad Madihalli, J. P. Shabaaz Begum, K. J. Thara Saraswathi Nanostructured silica particles from *Cymbopogon flexuosus* (Nees ex Steud.): extraction, characterization and study of their blend with osteoporotic drugs *SN Appl. Sci.* 2, 2179 (2020). <https://doi.org/10.1007/s42452-020-03952-z>
 7. Rakesh, N.R., Gurusurthy, H., Pradeep, H.K., ...Gurusurthy, D.M., Sachin, C.L. In-Silico Pharmacological and Molecular Docking Studies of Natural Inhibitors from *Musa Spp.* On Vaca Gene a Vacuolating Cytotoxin Autotransporter. *International Conference on Computational Engineering and Material Science*, Volume 925, Issue 1, 13 October 2020 Article number 012051, ICCEMS 2020, 17 July 2020 - 18 July 2020
 8. Midhun Manohar, Nihal Kulkarni, Pradeep .S: Mapping the Resistance Potential of Influenza's H + Channel Using an AntiViral Blocker. *International Journal of Fundamental & Applied Sciences* Volume 6 Issue 4, 31-33
 9. Anushree Jai Kumar, Deeshani Laxmesh Salian, Pradeep S: In-silico discovery of potential anti-malarial drugs targeting pfATP6 using Artemisinin as a model. *International Journal of Fundamental & Applied Sciences* Volume 6 Issue 3, 16-19
 10. Hadagali Ashoka*, Prashanth Hegde, Manasa K. H., Chandraprasad Madihalli, Pradeep S. and Ashok Kumar Shettihalli: Isolation and Detection of Vinca Alkaloids from Endophytes isolated from *Catharanthus Roseus*. *European Journal of Biomedical and Pharmaceutical sciences* Volume 4, Issue 10, 2017, 675-683
 11. Piyusha Kalwad, Ranjitha Guttapadu and Pradeep S*: Finding a possible biomarker to tackle Parkinson's disease by splice analysis and random point mutations to counter the expression of genes involved in Parkinson's disease. *International Journal of Sciences and Biotechnology* Vol 5 Issue 3, 2017, 336-344
 12. Rachana D S, Jayashree G and Pradeep S*: Computational Analysis of Protein-Protein Interactions of G Protein Coupled Receptors. *International Journal of Fundamental & Applied Sciences* Vol 6, Issue 2, 2017, Pg. No. 14-18
 13. Arthy Narayanan, B.V. Sai Sinduri and Pradeep S*: Counteracting Congenital Cataract. *International Journal of Applied Sciences and Biotechnology*. Vol 5, Issue 2, June 2017
 14. Adhithi Venkatesh, Aishwarya.V.A. Sasty, Anish Raju and Pradeep. S*: In-silico Drug Discovery approach to Cancer. *International Journal of Graduate Research and Reviews*. Vol 3, Issue 2, June 2017.
 15. Pradeep .S, P. Lakshminarayana, Varsha .R and Shriya .K. Kota: SCREENING OF ADULTERANTS IN MILK. *International journal of current research and reviews*. Vol 8 Issue 12 June 2016
 16. Pradeep .S, G. N. Rameshaiah and Hadagali Ashoka: CAFFEINE EXTRACTION AND CHARACTERIZATION. *International journal of current research and reviews*. Vol 7 • Issue 9 • May 2015
 17. Vidhya Y.J, Pradeep S and Rajyalakshmi M: In-silico Interaction of Sumo1 and Conjugating Enzyme UBC9 with Cyclodiene. *International Journal Of Pure & Applied Bioscience*, December, 2014 , Pg no.249-257
 18. Hadagali Ashoka, Pradeep S, Harshitha K.S, Kavitha Ramamurthy and Neha Vijay Hulyalkar: Phyto-chemical analysis, anti-microbial activity and germination studies of *Mimosa pudica* extracts *Elixir Appl. Biology* 66 (2014) Pg No.20544-20546

19. Rameshaiah GN, Aakash B, Ajay Vijendra, HarshithUras NR, Ameya Krishna B, Harsha B, Pradeep S: Green Distillation Using Solar Still. *Discovery Science*, Volume 9, Number 19, April 1, 2014
20. Neelam Jain, Sanjana M Bhat, Teesta V katte, Avnish Bhatrai, Sahana Rao, **Pradeep S**, Savithri Bhat: Creation And Designing Of PENN Database For Natural Molecules Effective Against Age Related Disorders. *Vedic Research International Bioinformatics and proteomics*. Volume 2, Issue 1, January 2014
21. Rakesh NR and **Pradeep .S**: Comparative genomic studies and Insilco strategies on *Leishmania brazilensis*, *leishmania infantum* and *leishmania Major*: conserved features, putative functions and potential Drug target. *International Journal of Applied Sciences and Biotechnology* June 2013, Vol. 1, Issue. 2
22. S Patel, N Venugopalan, **S Pradeep**. Screening For Antimicrobial Activity Of Weeds. *The Internet Journal of Microbiology*. 2006 Volume 4 Number 1.

Book chapter publications:

1. Hadagali, A., Purkayastha, R., Pradeep Shashi & Reddy, J. (2025). Types of microbial stress: Chemical stress, antibiotics, heavy metals, and toxins. In A. Kumar (Ed.), *Microbial Stress Survival (Developments in Microbiology*, pp. 257–295). Academic Press (Elsevier). https://www.sciencedirect.com/book/edited-volume/9780443276224/microbial-stress-survival?utm_source=chatgpt.com
2. Hadagali Ashoka, S Pradeep, K Manjunath, G S Nijaguna, D Ramesh Babu, *Advances in Machine Learning for QSAR Modeling Enhancing Drug Discovery through Predictive Precision and Data Integration, Applied Artificial Intelligence and Machine Learning Techniques for Engineering Applications*, Edition 1st Edition, First Published 19 August 2025, Imprint CRC Press, Pages 18, <https://doi.org/10.1201/9781003473442>

Papers Presented in Conference/ workshop:

1. Dr. Hadagali Ashoka, Dr. Pradeep S, and Dr. Chandraprasad M S presented a paper titled 'Pharmacokinetic-Pharmacodynamic Modeling of Glimepiride for the Treatment of Type II Diabetes Mellitus' at the International Conference on 'Frontier Areas of Agriculture, Biotechnology, and Food Technology for Sustainable Bioresources and Bioeconomy (ICFAABF '25),' organized by the Department of Biotechnology, Agricultural Engineering, and Food Technology at Bannari Amman Institute of Technology, Sathyamangalam, scheduled for April 24th and 25th, 2025.
2. Nisha Pujari, Pradeep S, KV Venkatesh, Sanjay Mahajani, Narendra Shah, Amit Arora, Comparison of Blood Glucose on Consumption of Non-Centrifugal Sugar and Refined Sugar, *Current Developments in Nutrition*, Volume 8, Supplement 2, 2024, 102371, ISSN 2475-2991, <https://doi.org/10.1016/j.cdnut.2024.102371>.
3. Pradeep S., Hadagali Ashoka and K.V. Venkatesh “Systems Biology approaches for personalized metformin dosage of Treatment in Type II Diabetes Mellitus” at the 16th International Conference on Pure Mathematics, Applied Mathematics, and Computational Methods held at Bern, Switzerland, during June 27-30, 2024.
4. Pradeep S., Hadagali Ashoka and K.V. Venkatesh “Effect of natural food and drugs on blood glucose dynamics using systems biology approaches” at the 22nd International Conference on Systems Biology, ICSB 2023, held on October 8-12, 2023 in Hartford, Connecticut, USA.

5. Pradeep S., Hadagali Ashoka and K.V. Venkatesh “Mathematical Modelling of Glucose Dynamics: A Systems Biology Approach for Food and Drug Interventions” at 2nd Edition of International Conference on Diabetes, Metabolism and Endocrinology held on October 16-18, 2023 in Boston, Massachusetts, USA.
6. Pradeep. S, K. J. Thara Saraswathi, Chandra Babu. C. K, Ankita. M. N, Namratha. B. G, Suchetha. M. **Effect of shock treatment on Cymbopogon – Role in Biomaterial** International symposium on Functional Materials-2018: Energy and Biomedical Applications held on 13-15 April,2018 at Chandigarh
7. Pradeep. S, K. J. Thara Saraswathi, Chandra Babu. C. K, Ankita. M. N, Namratha. B. G, Suchetha. **Studies on Si Nanoparticles from Cymbopogon flexuosus - Role in Herbal Tea – Application in Tissue engineering** International symposium on Functional Materials-2018: Energy and Biomedical Applications held on 13-15 April,2018 at Chandigarh.
8. Pradeep.S, Keerthi Sundar M Pinchi, Abhishek, Nikhil B.V **Screening of Potential “HIV - Reverse Transcriptase Inhibitors” by Docking analysis.** BioChess-2018 on 20th March 2018 at SIT, Tumakuru.
9. Pradeep. S and Hadagali Ashoka **SCREENING AND EVALUATION OF ANTIMITOTIC DRUGS** One Day National Symposium on Fundamentals of Drug Discovery Process: Industrial Perspective [FUNDIP-2016] held on 5th August 2016.
10. Hadagali Ashoka, Pradeep. S and Ashok Kumar .S Production of red pigment by submerged culture of *Serratia marcesens* 7th International Congress of Environmental Research on 26-28 December, 2014
11. Pradeep. S and Hadagali Ashoka Microbial Fuel Cells for Waste Water Treatment and Energy Production ITC 2014 held on 21-22 Aug 2014 at NIMHANS convention centre, Bangalore.
12. Pradeep S , Sahana Rao, Teesta V Katte, Avnish bhattra , and Savithri Bhat, Screening and characterization of molecules from *Withania somnifera* for Neurological Disorders, *International conf. on Bioavailability and Bioequivalence(Pharmaceuticals)* 3rd World Congress on BABE, Hyderabad 26-28 March 2012
13. Pradeep S and Hadagali Ashoka. Invitro and Insilico screening & Evaluation of antimitotic drugs. *State level Conference on “Mesmerizing Fields of Biotechnology* 8-9 April 2011SDM College, Ujire, Karnataka
14. Pradeep S Comparative genomics and Insilico strategies on Leishmania. New frontiers in Biotechnology. Adhiyaman college of Engg, Hosur, Tamilnadu. 24-25 August 2011
15. Pradeep S Caffiene extraction & characterization. New frontiers in Biotechnology. Adhiyaman college of Engg, Hosur, Tamilnadu. 24-25 August 2011
16. Pradeep S, Pooja Ranka and Megha Gajendra In-silico designing and Docking Analysis On Insulin-like Growth Factor 1 Receptor. *BIOCARNIVAL2012* at oxford college of Engineering, 16th -17th Feb 2012
17. Pradeep S ,Nayela Zeba, Nelma Ester Lewis and Saisha Vinjamuri , Third prize in paper presentation, “”*Screening for anti-mitotic agents (chalcones) from Plant sources*” “BIOCADENCE” Fourth National Level Symposium at KLESCET, Belgaum on 30th & 31st March, 2012.
18. SYMBIOT’12 - National level technical Fest at Manipal Institute of Technology on April 14th - 15th, 2012. “Nanomedicines”.
19. BIO-CHESS 2012 at Siddaganga Institute of Technology, Tumkur on 10th November, 2012. “Fecal Microbiota Transplantation”

Funded Projects:

1. As a co-investigator sanctioned an amount of Rs. 5,00,000/- for the polyhouse, aeroponics and IoT facility funded by TEQIP.
2. As a Principal-investigator sanctioned an amount of Rs. 75,196/- for the project “Applications of shockwaves to enhance the properties of value added compounds in Stevia plant” funded by TEQIP.
3. As a Principal-investigator sanctioned an amount of Rs. 1,25,000/- for the project “Optimization of procedures for extraction of Patchouli oil ” funded by TEQIP.
4. As a co-investigator sanctioned an amount of Rs. 1,50,000/- for the project “Production of high value products from shrimp waste by fermentation technology” funded under Faculty Research Promotion Scheme.
5. As a co-investigator sanctioned an amount of Rs. 3,500/- for the project “Immobilization of glucose oxidase on silk fibroin membrane and its application in the development of biosensors” funded under KSCST.

Invited talks/Resource Person:

1. Invited for an expert talk on Cell mechanics and Cancer in an International Conference on Cancer & Genetics: ISGCT 2021 on 26-27 Feb 2021 held at St. Joseph college, Bangalore
2. Invited as a resource person to deliver a lecture on “HPLC operations and analysis” in the TEQIP- II sponsored three days finishing school on 28th,30th and 31st March 2017 held at BMSCE, Bengaluru.
3. Invited as a resource person to deliver a lecture on “Biomolecular Separation Techniques” in the one week FDP Sponsored TEQIP-II 27th Feb – 3rd March 2017 held at BMSCE, Bengaluru.
4. Invited as a resource person to deliver a lecture on “Insilco drug discovery” in national level workshop on Bioinformatics techniques in Drug design 19th Jan, 2012 held at St. Joseph’s College, Bangalore.
5. Invited as a resource person to deliver a lecture on “Emerging trends of Bioinformatics in Drug Discovery” 11th Aug 2011 held at SIET, Tumkur.

Honors/Awards

1. **Best Applied Research award** for a paper entitled “Systems Biology approaches for personalized metformin dosage of Treatment in Type II Diabetes Mellitus” at the 16th International Conference on Pure Mathematics, Applied Mathematics, and Computational Methods held at Bern, Switzerland, during June 27-30, 2024.
2. **Best paper** award for a paper entitled " In-silico pharmacological and molecular docking studies of natural inhibitors form musa on vacA gene _ vacuolating cytotoxin autotransporter " presented in an International Conference on Computational Engineering and Material Science-ICCEMS-2020 on 1-18 July 2020

3. **Faculty Teaching Associate** of the two-week FDP on Pedagogy for Online and Blended Teaching-Learning Process.(FDP 201x) from 3rd May- 30th May,2018 conducted by IIT Bombay under MHRD
4. **Faculty Teaching Associate** of the two-week FDP on Foundation Program in ICT for education(FDP 101x) from 8th March-12th April,2018 conducted by IIT Bombay under MHRD
5. **Mentor** of the two-week FDP on Pedagogy for Online and Blended Teaching-Learning Process.(FDP 201x) from 14th September – 12th October 2017 conducted by IIT Bombay under MHRD
6. **Mentor** of the two-week FDP on Foundation Program in ICT for education(FDP 101x) from 03rd August to 07th September 2017 conducted by IIT Bombay under MHRD
7. Received an “Award of Excellence” sponsored by SAP India Pvt. Ltd., in AICTE Approved Faculty development Programme on “Use if ICT in Education for Online and Blended Learning” conducted by IIT Bombay held under National Mission on Education(NME) through ICT (MHRD).
8. Delivered an expert lecture on “**Insilco drug discovery**” in National Workshop on Bioinformatics techniques in drug designing on 19th and 20th Jan '12 held at St. Joseph College, Bangalore
9. Delivered an expert lecture on “**Emerging trends of Bioinformatics in Drug Discovery**” at SIET, Tumkur.
10. Conduced a Workshop on “**Bioinformatics and its Applications in Drug Discovery**” at SDM College, Ujre.
11. Got 1st prize for technical ADZAP in TECHNOVISTA'08 National Level Technical workshop at SASTRA University, Thanjavur

Declaration: I hereby declare that all the information given above is true to the best of my ability and knowledge.

PRADEEP S

Assistant Professor

Dept. of Biotechnology

BMS College of Engineering, Bangalore-19