

Basic Information

Date of Birth: 29.10.1990

Gender: Female

Nationality: Indian

Marital Status: Married

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ResearchGate:https://www.researchgate.net/profile/Pratichi_Singh2

Research Overview

No. of Publications: 21

Citations: 59 h - index: 5

Technical Skills

- Expert in structure-based drug design, MD simulations, Various Bioinformatics Tools and Packages
- Proficiency in MS Office applications, Linux (Ubuntu)
 Operating system
- Schrodinger Maestro software, Gromacs software, Auto dock Tools

Curriculum Vitae

Dr. Pratichi Singh

Education

- **Ph.D.** Bioinformatics **2014-2018**, Vellore Institute of Technology, Vellore, Tamil Nadu, India
- M.Sc. Biomedical Genetics 2011-2013, Vellore Institute of Technology, Vellore, Tamil Nadu, India
- **B.Sc.** Biotechnology **2008-2011**, Devi Ahilya Vishwavidyalaya, Indore, Madhya Pradesh, India

Professional Experience

- Assistant Professor, Department of Biosciences, Division of Life Sciences, Galgotias University, Greater Noida, India (2019- till present)
- **Sr. Lecturer,** Subharti University, Meerut (2018)
- Supervisor, Exam Coordinator, Lab-In-Charge
- Teaching cum Research Associate, VIT Vellore, India
- Full time Research Scholar (PhD) in VIT, Vellore
- Research Intern, SGPGIMS, Lucknow
- Biology Teacher in an Inter College, CBSE Board

Research Interests

- Molecular modelling, Genomics, and Proteomics, Systems biology
- Structural Bioinformatics, Molecular dynamics
- Networking of proteins/genes, Codon variation study
- Structural and sequence mutations in genes/proteins, Evolutionary analysis

Awards and Fellowships

- Received **Research & Innovation Award** in 2020
- Received **Young Scientist Award** in 2020
- Received Research Award in 2017 and 2018
- Received **Research Associateship** in 2014

Supervising, Mentoring Activities

- Ph.D. Supervisor
- Demonstrated and assisted Bioinformatics/Biotechnology lab experiments
- Guided more than 35 projects for B.Tech, B.Sc., and MSc. Students.

Patent

1. Title of the Invention: Covid19 Protected Room: Disinfecting Room Air Using Machine Learning System

Application No: 202031024066

Application Filing Date: 09/06/2020

Publication Date: 17/07/2020

2. Title of the Invention: Stomach Pain Detector Kit: With Medicine Dose Using Deep Learning Programming

Application No: 202111008830

Application Filing Date: 03/03/2021

Publication Date: 29/03/2021

3. Title of the Invention: Multivitamin Tablet Using Food Waste Material

Application No: 202211018221

Application Filing Date: 29/03/2022

4. Title of the Invention: Method for Synthetically Producing Chitin

Application No: 202211025588

Application Filing Date: 02/05/2022

5. Title of the Invention: Method for Synthetically Producing Honey

Application No: 202211025587

Application Filing Date: 02/05/2022

Projects & Trainings

- Submitted Project in DBT, BIRAC, and UPCST.
- Attended more than 50 FDPs and Conferences/Symposium.
- **Keynote speaker** in FDP conducted by Sharda University, Greater Noida.
- Accreditation and Outcome-Based Learning (OBE) Course from NPTEL, IIT Kharagpur along with FDP
- Completed online courses from Coursera from various foreign Universities.
- Permanent Membership in the Asia Society of Researchers (ASR) and Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBEES)
- Editorial Board Member of Computational Biology and Bioinformatics, Current Research in Public Health, Life Research
- **Reviewer** of various reputed international journals
- Research intern at "Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), Lucknow, in the Department of Medical Genetics from December 2012 to May 2013.
- Presented Paper/Poster/Abstract at Various International Conferences in Postgraduation & Ph.D.

- Internship from "Endo Labs Limited, Indore" in production and marketing management of tablets at the Graduation level.
- Project on "Hospital Management" at Graduation level

List of Publications

- Mishra, A.P.; Swetanshu; Singh, P*.; Yadav, S.; Nigam, M.; Seidel, V.; Rodrigues, C.F. Role of the Dietary Phytochemical Curcumin in Targeting Cancer Cell Signalling Pathways. Plants 2023, 12, 1782. https://doi.org/10.3390/ plants12091782 (I.F. 4.8)
- Singh, P*., Ahmed, S., Ahmad, I. & Alam, M. (2023). SNP based analysis depicts phenotypic variability in heme oxygenase-1 protein.
 Turkish Journal of Biochemistry.
 https://doi.org/10.1515/tjb-2021-0250 (I.F. 0.5)
- Yadav, S., Singh, P. Advancement and Application of Novel Cell-Penetrating Peptide in Cancer Management. 3 Biotech 2023 (Under Revision)
- Swetanshu, Imran Khan, Pratichi Singh*, E.
 Srinivasan, A Systematic Overview on Treatment towards Endocrine Disruptors, Sustainable Energy Technologies and Assessments, Volume 53, Part C, October 2022, 102688, https://doi.org/10.1016/j.seta.2022.102688 (I.F. 7.63)
- 5. Swetanshu, **Singh**, **P.** (2022). Gut Microbiome and Neurodegeneration: A Bioinformatics Approach. In: Tripathi, A.K., Kotak, M. (eds) Gut

- Microbiome in Neurological Health and Disorders. Nutritional Neurosciences. Springer, Singapore. https://doi.org/10.1007/978-981-19-4530-4_17
- 6. Singh, P., Swetanshu, Yadav, R. et al. Revisiting the modern approach to manage agricultural solid waste: an innovative solution. Environ Dev Sustain (2023). https://doi.org/10.1007/s10668-023-03309-7 (I.F. 4.1)
- Pallavi Khandelia, Shikha Yadav, Pratichi Singh, An Overview of the BCG Vaccine and its Future Scope, Indian Journal of Tuberculosis, 2023, https://doi.org/10.1016/j.ijtb.2023.05.012
- 8. Swetanshu, **Pratichi Singh***, Ecopreneurship: An Emerging Concept in India, Research Journal of Chemistry and Environment, 2023 (Under Review)
- 9. Mohit Shakya, Shivani Raizada, Rajesh Yadav, **Pratichi Singh***, Computational Fine-Tuning of Functional Single Nucleotide Polymorphisms Associated with ACP5 Gene to Characterize Missense Mutations, Advances in Pharmacology and Pharmacy, Vol. 9, No. 2, pp. 17 25, 2021. DOI: 10.13189/app.2021.090201
- 10. Pratichi Singh*, Network and Pathway enrichment analysis of ADHD candidate genes, Indian J Psychiatry 2020;62:400-6.

- 10.4103/psychiatry.IndianJPsychiatry_105_17 (I.F. 2.98)
- Pratichi Singh, Diagnosis of Hepatitis Disease
 Using a Decision Tree Classification Algorithm,
 Journal of SeyBold Report, 2020.
- 12. **Pratichi Singh**, J. Febin Prabhu Dass: Codon usage of human Hepatitis C virus (HCV) clearance genes in relation to its expression. Journal of Cellular Biochemistry (2019) 1-11. DOI: 10.1002/jcb.29290 (I.F. 4.48)
- 13. **Pratichi Singh**, J. Febin Prabhu Dass: Nearly neutral evolution in IFNL3 gene retains the immune function to detect and clear the viral infection in HCV. Progress in Biophysics and Molecular Biology (Dec 2018) 140:107-116. DOI: 10.1016/j.pbiomolbio.2018.05.004 (I.F. 4.8)
- 14. **Pratichi Singh**, J. Febin Prabhu Dass: A Biomolecular Network Driven Proteinic Interaction in HCV Clearance. Cell Biochemistry and Biophysics (2018). DOI:10.1007/s12013-017-0837-y (I.F. 2.98)
- 15. Pratichi Singh, J. Febin Prabhu Dass: A multifaceted computational report on the variants effect on KIR2DL3 and IFNL3 candidate gene in HCV clearance. Molecular Biology Reports (2016) 43:1101–1117; DOI:10.1007/s11033-016-4044-5 (I.F. 2.7)
- 16. Imran Khan, Irfan A. Ansari, Pratichi Singh, Febin Prabhu Dass J, Fahad Khan: Identification and characterization of functional single nucleotide polymorphisms (SNPs) in Axin 1 gene:

- a molecular dynamics approach. Cell Biochemistry and Biophysics (2018). https://doi.org/10.1007/s12013-017-0818-1 (I.F. 2.98)
- 17. Imran Khan, Irfan A. Ansari, **Pratichi Singh**, Febin Prabhu Dass J: Prediction of functionally significant single nucleotide polymorphisms [SNPs] in PTEN tumor suppressor gene: An in silico approach. Biotechnology and Applied Biochemistry 01/2016; DOI:10.1002/bab.1483 (I.F. 2.7)
- 18. Imran Khan, Mohd. Farhan, **Pratichi Singh**, K. Mahalingam: A Study on DNA binding affinity of chemicals present in cosmetic products using Bioinformatics tools. IJPRBS, 2013; Volume 2(6): 407-421.
- 19. Imran Khan, Mohd. Farhan, Pratichi Singh, Padma Thiagarajan: Nanotechnology for Environmental Remediation. RJPBCS, 2014; Volume 5(3): 1916-1927
- 20. Pratichi Singh, Rashi Nagotra, Arthi Venkatesan, J. Febin Prabhu Dass: A computational report on the variants of ZSCAN4 gene in treating down syndrome. DOI:10.12692/ijb/10.4.41-48
- 21. **Pratichi Singh**, J. Febin Prabhu Dass.

 Logical modeling and steady state analysis of serotonin signaling pathway.

 Int. J. Biosci. 10(4), 27-40, April 2017

Declaration

I hereby declare that the above information is true to the best of my knowledge.

(Pratichi Singh)

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Place: Greater Noida