

Curriculum Vitae

PERSONAL INFORMATION

Name: Vishakha

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Area of Interest: Yeast Cellular Biology, Single-Cell Genomics, Cheminformatics, Chemical Biology, and Biomedical Science.



EDUCATION:

Course	College/University	Duration	Percentage/CGPA
Ph.D. Computational Biology	Indraprastha Institute of Information Technology, Delhi	2020-Now	9.59
M.Sc. Systems Biology and Bioinformatics	Centre for Systems Biology and Bioinformatics (U.I.E.A.S.T.), Panjab University, India	2017-2019	86.29 %
B.Sc Bioinformatics (Honors)	DAV Sector 10 Chandigarh, Panjab University, India	2014-2017	79.7 %

TEACHING EXPERIENCE:

- Teaching Assistant for Algorithms in Bioinformatics for the Monsoon semester of Academic Session 2020-2021 at Indraprastha Institute of Information Technology, New Delhi, India
- Teaching Assistant for Introduction to Quantitative Biology for the Winter semester of Academic Session 2020-2021 at Indraprastha Institute of Information Technology, New Delhi, India
- Teaching Assistant for Network Biology for the Monsoon semester of Academic Session 2021-2022 at Indraprastha Institute of Information Technology, New Delhi, India
- Teaching Assistant for Biostatistics for the Winter semester of Academic Session 2021-2022 at Indraprastha Institute of Information Technology, New Delhi, India

PUBLICATIONS (Reverse chronological order):

1. **Gautam V**, Duari S, Solanki S, Gupta M, Mittal A, Arora S, Aggarwal A, Sharma AK, Tyagi S, Pankajbhai RK, Sharma A, Chauhan S, Satija S, Kumar S, Mohanty SK, Tayal J, Dixit NK, Sengupta D, Mehta A, Ahuja G. scCamAge: A context-aware prediction engine for cellular age, aging-associated bioactivities, and morphometrics. Cell Rep. 2025 Feb 6;44(2):115270. doi: 10.1016/j.celrep.2025.115270. Epub ahead of print. PMID: 39918957. **(first author)**
2. Arora S, Mittal A, Duari S, Chauhan S, Dixit NK, Mohanty SK, Sharma A, Solanki S, Sharma AK, **Gautam V**, Gahlot PS, Satija S, Nanshi J, Kapoor N, Cb L, Sengupta D, Mehrotra P, Ghosh TS, Ahuja G. Discovering geroprotectors

through the explainable artificial intelligence-based platform AgeXtend. *Nat Aging*. 2024 Dec 3. doi: 10.1038/s43587-024-00763-4. Epub ahead of print. PMID: 39627462.

3. Mohanty SK, Maryam S, **Gautam V**, Mittal A, Gupta K, Arora R, Bhadra W, Mishra T, Sengupta D, Ahuja G. Transcriptional advantage influence odorant receptor gene choice. *Brief Funct Genomics*. 2023 May 18;22(3):281-290. doi: 10.1093/bfpg/elac052. PMID: 36542133.
4. Saproo S, Sarkar SS, **Gautam V**, Konyak CW, Dass G, Karmakar A, Sharma M, Ahuja G, Gupta A, Tayal J, Mehta A, Naidu S. Salivary protein kinase C alpha and novel microRNAs as diagnostic and therapeutic resistance markers for oral squamous cell carcinoma in Indian cohorts. *Front Mol Biosci*. 2023 Jan 10;9:1106963. doi: 10.3389/fmolb.2022.1106963. PMID: 36703917; PMCID: PMC9871261.
5. Mittal A, Mohanty SK, **Gautam V**, Arora S, Saproo S, Gupta R, Sivakumar R, Garg P, Aggarwal A, Raghavachary P, Dixit NK, Singh VP, Mehta A, Tayal J, Naidu S, Sengupta D, Ahuja G. Artificial intelligence uncovers carcinogenic human metabolites. *Nat Chem Biol*. 2022 Nov;18(11):1204-1213. doi: 10.1038/s41589-022-01110-7. Epub 2022 Aug 11. PMID: 35953549. **(co-first author)**
6. **Gautam V**, Gupta R, Gupta D, Ruhela A, Mittal A, Mohanty SK, Arora S, Gupta R, Saini C, Sengupta D, Murugan NA, Ahuja G. deepGraphh: AI-driven web service for graph-based quantitative structure-activity relationship analysis. *Brief Bioinform*. 2022 Jul 23;bbac288. doi: 10.1093/bib/bbac288. Epub ahead of print. PMID: 35868454. **(first author)**
7. Gupta R, Mittal A, Agrawal V, Gupta S, Gupta K, Jain RR, Garg P, Mohanty SK, Sogani R, Chhabra HS, **Gautam V**, Mishra T, Sengupta D, Ahuja G. OdoriFy: A

conglomerate of artificial intelligence-driven prediction engines for olfactory decoding. J Biol Chem. 2021 Aug;297(2):100956. doi: 10.1016/j.jbc.2021.100956. Epub 2021 Jul 12. PMID: 34265305; PMCID: PMC8342790.

8. **Gautam V**, Mittal A, Kalra S, Mohanty SK, Gupta K, Rani K, Naidu S, Mishra T, Sengupta D, Ahuja G. EcTracker: Tracking and elucidating ectopic expression leveraging large-scale scRNA-seq studies. Brief Bioinform. 2021 Nov 5;22(6):bbab237. doi: 10.1093/bib/bbab237. PMID: 34184038. **(first author)**

CITATIONS: 44

AWARDS/FUNDING:

Year	Award/Funding
2019	DST INSPIRE Fellowship (DST/INSPIRE/03/2019/000773)
2019	Gold Medal, Panjab University, India

CONFERENCES/SYMPOSIUM

2024	Cell Symposia: Chemical biology in drugging the undrugged 2024 (San Francisco, USA)
2024	15th HOPE meeting with Nobel laureates (Kyoto, Japan)
2023	Algorithms that transformed Molecular Biology organized by the Department of Computational Biology, IIIT-D
2021	International Conference on Pollution Prevention and Clean Technologies (ICPPCT) & Taiwan-India Workshop on Emerging Environment and Energy Challenges of Technology Exchange (<i>Best Oral Presentation</i>)
2019	National symposium on science communication catalyzed and supported by NCSTC, DST, GOI, and PSCST in Ryat and Bahara University, India
2018	GIAN international workshop on Genome Informatics (data mining, systems biology, biomarker discovery, neural networks, and protein modeling for functional analysis and designing life forms)

LANGUAGES:

- English: full professional proficiency (ILR scale)
- Hindi: full professional proficiency (ILR scale)