

SATYAJEET PRAMOD KHARE

Associate Professor

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Independent group leader position(s)

<i>dates (month/year)</i>	<i>Details</i>
January 2025 – Present	Associate Professor, Symbiosis School of Biological Sciences, SymbiosisInternational (Deemed University), India
May 2018 – December 2024	Assistant Professor, Symbiosis School of Biological Sciences, SymbiosisInternational (Deemed University), India

Postdoctoral research (including other non-independent research positions after the PhD)

<i>dates (month/year)</i>	<i>Details</i>
October 2014 – April2018	Post-doctoral research fellow, IISER-Pune, India
February 2013 – July2014	Visiting fellow, NCI-NIH, USA.
June 2011 – January2013	Research Associate, University of Wisconsin-Madison, USA.

Research training (PhD or equivalent)

<i>dates (month/year)</i>	<i>details</i>
October 2004 – March2011	PhD in Biochemistry, Advanced Centre for Treatment Research and Educationin Cancer (ACTREC), University: Mumbai University, India

Education

<i>dates (month/year)</i>	<i>details</i>
June 2001 – May 2003	Master of Science in Zoology, University: Savitribai Phule Pune University, India Grade: A (GPA 7.2)
June 1998 – May 2001	Bachelor of Science in Microbiology, Savitribai Phule Pune University, India Class: First (63%)

Other relevant information

- 1) Principal Investigator: Department of Biotechnology (DBT) funded project titled 'Subgrouping Type 1 Diabetes Mellitus (T1DM) and Predicting Complications: A Five-Year Longitudinal Study in Children and Young Adults' (Technical approval received).
- 2) Principal Investigator: Startup Research Grant (SRG), Science and Engineering Research Board (SERB) funded project titled 'Regulation of translation initiation during T-helper cell differentiation' (2020-23; Funding: INR 31,66,000; SRG/2020/001414).

Mentorship

- 1) Number of PhD students guided: 7 (1 completed; 6 ongoing)
- 2) Number of Masters students guided: 17 (all 17 completed)

Outreach activity

Invited talks (in person)

- 1) GIC2025 (Genomics India Conference 2025), IISc, Bangalore, from 12 – 14 August 2025
- 2) GIC2024 (Genomics India Conference 2024), Shiv Nadar Institution of Eminence, Delhi NCR, from 1 – 3 February 2024
- 3) IMMUNO-INDIA 2023, RGCB, Kerala, from October 1 – 6, 2023

Memberships of scholarly societies

- 4) Life member: Indian Society of Human Genetics (ISHG)
- 5) Life member: Proteomics Society India (PSI)
- 6) Life member: Indian Immunology Society

Editorial board memberships

- 1) BMC Genomics
- 2) Journal of Translational Research and Medicine
- 3) Scientific Reports

Peer-review

Manuscripts reviewed for international journals: 35 (ResearcherID: R-4407-2019)

Publications

Publications from independent laboratory (#Corresponding author)

- 1) Pawar, S., Khandagale, S., Amin, S., Wagh, V., Wagh, R., Kamble, V., Fall, C., Galande, S., Yajnik, C., **Khare, S.#** (2025). Vitamin B12 and expression of methylases and demethylases in cord blood: A novel exploratory finding in the Pune Rural Intervention in Young Adolescents (PRIYA) trial. *Journal of Developmental Origins of Health and Disease*, (Manuscript accepted for publication).
- 2) Agnihotri, A., Kamble, V., & **Khare, S.#** (2024). Dysregulation of metallothionein MT1 sub-types in TCF3:: PBX1 pre-B-cell acute lymphoblastic leukemia. *Cancer Genetics*.
- 3) Wagh, V. V., Kottat, T., Agrawal, S., Purohit, S., Pachpor, T. A., Narlikar, L., ... & **Khare, S. P.#** (2024). Ensemble learning for higher diagnostic precision in schizophrenia using peripheral blood gene expression profile. *Neuropsychiatric Disease and Treatment*, 923-936.
- 4) Khandagale, S. B., Kamble, V. S., Oza, C., Bhor, S., Khadilkar, A. V. #, & **Khare, S. P.#** (2023). Surrogate markers of metabolic syndrome and insulin resistance in children and young adults with type 1 diabetes: a systematic review & meta-analysis (MetS and IR in T1DM). *International Journal of Diabetes in Developing Countries*, 1-15.
- 5) Kamble, V. S., Pachpor, T. A., Khandagale, S. B., Wagh, V. V., & **Khare, S. P.#** (2023). Translation initiation and dysregulation of initiation factors in rare diseases. *Gene Reports*, 30,101738.
- 6) Bhandari, N., Walambe, R.#, Kotecha, K.#, & **Khare, S. P.#** (2022). A comprehensive survey on computational learning methods for analysis of gene expression data. *Frontiers in Molecular Biosciences*, 9, 907150-907150.
- 7) Bhandari, N., **Khare, S.#**, Walambe, R.#, & Kotecha, K. (2021). Comparison of machine learning and deep learning techniques in promoter prediction across diverse species. *PeerJ Computer Science*, 7, e365.
- 8) Wagh, V. V., Vyas, P., Agrawal, S., Pachpor, T. A., Paralikar, V.#, & **Khare, S. P.#** (2021). Peripheral blood-based gene expression studies in schizophrenia: A systematic review. *Frontiers in genetics*, 12, 736483.

Publications from collaborative work

- 9) Tripathi, S., Gupta, E., Naik, R., **Khare, S.**, Mir, R., Kamat, S., & Galande, S. (2025). Statins exhibit anti-tumor potential by modulating Wnt/ β -catenin signaling in colorectal cancer. *Oncotarget*, 16, 562.
- 10) Surve, S. V., Rajkhowa, R., Vyas, P., Vijayvargiya, M., **Khare, S.**, & Kulkarni, R. (2024). Transcriptomic analysis identifies a furfural reductase in *Lactiplantibacillus plantarum*.

Biocatalysis and Agricultural Biotechnology, 103449.

- 11) Shekhar, B. R., Rupani, K., Parkar, S. R., Nayak, A. S., Kumbhar, B. V., **Khare, S. P.**, ... & Das, D. K. (2023). Identifying Novel Risk Conferring Genes Involved in Glycosylation Processes with Familial Schizophrenia in an Indian Cohort: Prediction of ADAMTS9 gene Variant for Structural Stability. *Gene*, 147443.
- 12) **Khare, S.**, Jiang, L., Cabrera, D. P., Apte, U., & Pritchard, M. T. (2023). Global Transcriptomics of Congenital Hepatic Fibrosis in Autosomal Recessive Polycystic Kidney Disease using PCK rats. *Livers*, 3(3), 331-346.
- 13) Kuhikar, R., Khan, N., **Khare, S. P.**, Fulzele, A., Melinkeri, S., Kale, V., & Limaye, L. (2021). Neutrophils generated in vitro from hematopoietic stem cells isolated from apheresis samples and umbilical cord blood form neutrophil extracellular traps. *Stem Cell Research*, 50, 102150.
- 14) Wee, K., Hediye-Zadeh, S., Duszyc, K., Verma, S., Nanavati, B. N., **Khare, S.**, ... & Budnar, S. (2020). Snail induces epithelial cell extrusion by regulating RhoA contractile signalling and cell-matrix adhesion. *Journal of cell science*, 133(13), jcs235622.
- 15) Teotia, D., Gaid, M., Saini, S. S., Verma, A., Yennamalli, R. M., **Khare, S. P.**, ... & Sircar, D. (2019). Cinnamate-CoA ligase is involved in biosynthesis of benzoate-derived biphenyl phytoalexin in *Malus domestica* 'Golden Delicious' cell cultures. *The Plant Journal*, 100(6), 1

Publications from postdoctoral work

- 16) **Khare, S. P.**, Madhok, A., Patta, I., Sukla, K. K., *Wagh*, V. V., Kunte, P. S., ... & Galande, S. (2023). Differential expression of genes influencing mitotic processes in cord blood mononuclear cells after a pre-conceptional micronutrient-based randomised controlled trial: Pune Rural Intervention in Young Adolescents (PRIYA). *Journal of Developmental Origins of Health and Disease*, 1-12.
- 17) Patta, I., Madhok, A., **Khare, S.**, Gottimukkala, K. P., Verma, A., Giri, S., ... & Galande, S. (2020). Dynamic regulation of chromatin organizer SATB1 via TCR-induced alternative promoter switch during T-cell development. *Nucleic Acids Research*, 48(11), 5873-5890.
- 18) **Khare, S. P.**, Shetty, A., Biradar, R., Patta, I., Chen, Z. J., Sathe, A. V., ... & Galande, S. (2019). NF- κ B signaling and IL-4 signaling regulate SATB1 expression via alternative promoter usage during Th2 differentiation. *Frontiers in Immunology*, 10, 667.
- 19) Balyan, R., Gund, R., Chawla, A. S., **Khare, S. P.**, Pradhan, S. J., Rane, S., ... & Rath, S. (2019). Correlation of cell-surface CD 8 levels with function, phenotype and transcriptome of naive CD 8 T cells. *Immunology*, 156(4), 384-401.
- 20) **Khare, S.**, Katre, P., & Galande, S. (2016). Epigenetic Regulation of Islet Development and Regeneration. *Pancreatic Islet Biology*, 83-109.

Publications from PhD work

- 21) **Khare, S. P.**, Habib, F., Sharma, R., Gadewal, N., Gupta, S., & Galande, S. (2012). H1stome—a relational knowledgebase of human histone proteins and histone modifying enzymes. *Nucleic acids research*, 40(D1), D337-D342.
- 22) **Khare, S. P.**, Sharma, A., Deodhar, K. K., & Gupta, S. (2011). Overexpression of histone variant H2A. 1 and cellular transformation are related in N-nitrosodiethylamine-induced sequential hepatocarcinogenesis. *Experimental biology and medicine*, 236(1), 30-35.
- 23) **Pramod, K. S.**, Bharat, K., & Sanjay, G. (2009). Mass spectrometry-compatible silver staining of histones resolved on acetic acid-urea-Triton PAGE. *Proteomics*, 9(9), 2589-2592.