

Department of Biochemistry University of Delhi South Campus

Quarterly Report (1st May 2026 – 31st July, 2026)

Major Achievements (For Academic Departments): 1. Honors and distinctions, 2. Books/ Patents/ Technology Transfer/ Industrial Collaboration, 3. Seminars/ Conferences/ Workshops Organized

Prof. Vijay K. Prajapati - featured as an Invited Speaker at IIMT University Meerut, Training program on Structural bioinformatics AI and ML applications and talk given on "Translational research on visceral leishmaniasis" on July 18, 2026.

Prof. Vijay K. Prajapati invited as the external examiner at the SGT university to conduct a viva-voce examination of M.Sc. Medical Laboratory Technology (MMLT) IInd & BSc MLT IVth semester students on 13.05.26

Prof. Garima Khare - Delivered a talk at the Immunocon 2026, 10th – 13th June 2026, Srinagar

Publications:

Cheema, P.S., Jaiswal, N., Dey, S.K., Nandi, D., Sahani, N., Kundu, S. and **Nag, A.** (2026) "Identification and validation of novel small molecule inhibitors targeting FoxM1-DNA binding domain with anti-cancer potential". BBA (Mol Cell Res), 1873(7):120193. doi: 10.1016/j.bbamcr.2026.120193.

Mahapatra, M.K., Bansal, S., Makwana, S.H., Ghosh, S., **Nag, A.**, Shrivastava, S.K., Maheshwari, R., Mandal, C.C. (2026). "ZNF468 Exhibits Oncogenic Activity by Regulating Unexplored ZNF707 in Breast Cancer". J. Gene. Med. 28(6):e70099. doi: 10.1002/jgm.70099.

Sharma, M., Chourasia, N., Priyanka, P., Garg, M., Nayak, S., Shah, S.S., Dhar, P.K., Sarkar, D.P., **Nag, A.**, Saxena, S. (2026) "Clinical Data Analysis Identifies Prognostic Long Non-coding RNA Signatures in Lung Adenocarcinoma" Cancer Genomics Proteomics. 23(3):530-545. doi: 10.21873/cgp.20588.

Singh, S., Baghel, K., Bhalerao, P., Bhatt, T. K., Prusty, D., & **Prajapati, V.K***. (2026). Systems-Driven Identification and Experimental Validation of Actinomycetes-Derived Secondary Metabolites as Promising Antileishmanial Agents Targeting Leishmania donovani Methionyl-tRNA Synthetase. *ACS Medicinal Chemistry Letters*. <https://doi.org/10.1021/acsmmedchemlett.6c00201>

Malemnganba, T., Pandey, A. K., Kar, S., & **Prajapati, V.K***. (2026). Glucose Metabolism in Immune Regulation: From Mechanisms to Therapeutic Opportunities. *Journal of Cellular Biochemistry*, 127(7), e70111 <https://doi.org/10.1002/jcb.70111>

Verma, D., Dhar, S., Malemnganba, T., Sharma, S., Kar, S., & **Prajapati, V.K***. (2026). TLR ligands as immunomodulators: mechanistic insights and therapeutic potential in infectious and inflammatory diseases. *Molecular Biology Reports*, 53(1), 858. <https://doi.org/10.1007/s11033-026-12053-w>

Book Chapter-

Singh, S., Baghel, K., **Prajapati, V.K.** (2026). De Novo Gene Synthesis. In: Singh, V. (eds) *Handbook of Synthetic Biology*. Springer, Singapore. https://doi.org/10.1007/978-981-95-3957-4_17

Yukti, Sharma, S., Dubey, A. K., Sharma, A., & **Prajapati, V. K.** (2026). Neuroinflammation and vaccination strategy in Parkinson's disease. DOI: 10.1016/bs.ai.2026.04.006.

Sunkersett, E., Kumar, D., Kumar, K., & **Prajapati, V. K.** (2026). LRRK2 and Nrf2 regulation in Parkinson's disease: Mechanistic insights and therapeutic potential. <https://doi.org/10.1016/bs.apha.2026.07.003>.

Targets (For Academic Departments: Academic activities and Research)

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Court/Executive Council meetings

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Planning of Convocation/ Honoris Causa Degrees etc.

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Any Pending Issues

Recruitment of recruitment of non-teaching posts is pending.

Any other important activity (For Academic Departments): 1. International collaborations including students exchange, 2. Extension and outreach activities and any other significant achievements/activity