

Department of Biochemistry University of Delhi South Campus

Quarterly Report (1st November 2025 – 31st January, 2026)

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

Professor Amita Gupta - Elected Fellow of the Academy of Microbiological Sciences (FAMSc), India, Nov 2025.

Dr. Vijay K. Prajapati - featured as an Invited Speaker at IMMUNOCON 2025: 52nd Annual Conference of the Indian Immunology Society. Theme: "Immunology Meets Technology." Work on 'Screening, knockout & Apoptosis: Impact on Leishmania,' was delivered during the session at MNNIT Allahabad, held from November 18 to 22, 2025.

Dr. Vijay K. Prajapati - Delivered an invited talk in an annual conference "Trends in Biological Sciences 2025" and presentation title- 'Screening, knockout & Apoptosis: Impact on Leishmania' hosted at the Convention Center of Jawaharlal Nehru University (JNU, New Delhi) from 8 to 10 December 2025.

Dr. Garima Khare - Delivered an invited lecture in ABSL3 one day workshop conducted by Animal house facility, NII on 28th January, 2026.

Dr. Garima Khare - Delivered an invited lecture in the International TB conference 2026 "Turning the tide: New frontiers in TB therapeutics, Vaccines and Diagnostics" as a convener, held from 19-21 January, 2026 at University of Delhi South Campus.

Dr. Garima Khare - Presented a poster at the IGNITE Life Science foundation annual summit held at Jio Convention Centre in Mumbai (10th January 2026).

Dr. Garima Khare - Organized International TB conference 2026 "Turning the tide: New frontiers in TB therapeutics, Vaccines and Diagnostics" as a convener, held from 19-21 January, 2026 at University of Delhi South Campus.

Dr. Garima Khare - Organized IBSC lecture by Dr. Susmita Chaudhuri, Associate Professor, THSTI on 29 December 2025 on 'Ensuring biosafety in biomedical research'.

Dr. Garima Khare - Organized a special lecture in collaboration with Indian Academy of Sciences, Bengaluru by Academy's Raman Chair Professor, Prof. Spyridon Artavanis Tsakonas at University of Delhi South Campus on 11th Dec, 2025 entitled "Cell communication through Notch: A paradigm of Biological Complexity"

Dr. Garima Khare - Received a research grant as Co-PI entitled "Development of a recombinant-BCG vaccine eliciting long term memory response and trained immunity for protection against *Mycobacterium tuberculosis*". Funding agency – ICMR. Budget – 90.88 lakhs

Article-

Choudhary, A., Kumar, P., Jagtap, Y.A., Kingler, S., Jha, H.C., Gutti, R.K., Sharma, V., **Prajapati, V.K.**, Mishra, A. Mechanistic insights of molecular chaperone Hsp70: Pathogenesis of

neurodegenerative diseases. Brain Network Disorders. 2025 Dec 26;1(04):195-206. DOI: 10.1016/j.bnd.2025.05.001

Book Chapter-

Baghel, K., Dubey, A.K., Singh, S., **Prajapati, V.K.** Pathological microtubule dynamics in Parkinson's disease: Mechanisms and therapeutic implications. Academic Press, Elsevier. DOI: 10.1016/bs.apcsb.2025.10.019

Goswami, N., Mishra, A., **Prajapati, V.K.** Immunomodulator drugs: Mechanism of action and systemic effects. Advances in Protein Chemistry and Structural Biology. DOI: 10.1016/bs.apcsb.2025.10.006.

Yendreddy, S.R., Patchigolla, D., Singh, S., Baghel, K., Ojha, R., **Prajapati, V.K.** Microbiome and microbial products as immunomodulators: Implications for gastrointestinal cancers. Advances in Protein Chemistry and Structural Biology. DOI: 10.1016/bs.apcsb.2025.10.008

Yukti, A. Sharma, S. Dhar, R. Ojha, **V.K. Prajapati**; Molecular chaperones as therapeutic gatekeepers in Alzheimer's disease: Intersections with Tau aggregation, amyloid burden, and neuroinflammation. Advances in Protein Chemistry and Structural Biology. DOI - 10.1016/bs.apcsb.2025.11.004.

Book-

Prajapati, V.K. Innovation in Cell Death Research in Progress in Molecular Biology and Translational Science. Volume – 217; ISBN-13: 978-0443346460; Academic Press Elsevier; 2025 Nov 1.

Targets (For Academic Departments: Academic activities and Research)

Court/Executive Council meetings

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Planning of Convocation/ Honoris Causa Degrees etc.

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Any Pending Issues

Recruitment of teaching posts is pending and recruitment of non-teaching posts is also 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