

# Department of Biochemistry

## University of Delhi South Campus

### Quarterly Report

(1<sup>st</sup> August 2025 – 31<sup>st</sup> October, 2025)

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

**Dr. Vijay K. Prajapati** - Delivered an invited talk in a symposium entitled “Translational Approaches for Leishmaniasis Control and Elimination” organised by the Department of Medical Laboratory Technology & Biochemistry, Faculty of Allied Health Sciences, SGT University, Gurugram, on 10<sup>th</sup> October 2025.

**Dr. Vijay K. Prajapati** - Participated as a Resource person and delivered a lecture on “Translational Research in Visceral Leishmaniasis” at the Refresher Course in “Biology Education and Research: Interdisciplinary/cross-disciplinary approaches” and organized by The Malaviya Mission Teacher Training Centre (MMTTC), Berhampur University, Orissa, on 27<sup>th</sup> October 2025.

**Dr. Garima Khare** - Participated as Technical Work Group (TWG) member at the Inaugural TWG Meeting on Strengthening High Containment Laboratory Operations & Maintenance for Biosafety and Biosecurity, held on 3–5 September 2025 at Studio-II, SET Facility, 2nd Floor, Convergence Block, AIIMS New Delhi.

**Dr. Garima Khare** - Participated in “Push-Translation Workshop” organized by IGNITE Life Science Foundation, held on 30-31st October, 2025, in C-CAMP, Bengaluru

**Dr. Garima Khare** - Participated in EMBO Hands-on workshop on ‘Targeted Proteomics: Advanced tools for biomedical research’ (October 5-10, 2025), held in Barcelona, Spain, organized by Centre for genomic regulation, Barcelona, Spain.

**Dr. Garima Khare** - Received a EMBO Travel grant award for attending Hands-on workshop on ‘Targeted Proteomics: Advanced tools for biomedical research’ (October 5-10, 2025), held in Barcelona, Spain, organized by Centre for genomic regulation, Barcelona, Spain.

### Publication:

**Dau Dayal Aggarwal**, Mishra P, Patel Y, Singh M, Sharma V, Korol AB, Michalak P. Experimental evolution-induced transcriptome and phenotype responses of *Drosophila melanogaster* to novel thermal environments. *J Exp Biol.* 2025 Oct 1;228(19):jeb251365. doi: 10.1242/jeb.251365. Epub 2025 Oct 10. PMID: 41058312; PMCID: PMC12539207.

### Book Chapter-

Dhar S, Baghel K, Kar S, Mehrotra S, **Prajapati VK\***. Cell death triad: Integrating apoptotic, autophagic, and necrotic cell death mechanisms. *Prog Mol Biol Transl Sci.* 2025;217:1-23. doi: 10.1016/bs.pmbts.2025.06.017.

Malemnganba T, Baghel K, Mehrotra S, **Prajapati VK\***. Unlocking the power of antimicrobial peptides to combat infectious agents. *Adv Protein Chem Struct Biol.* 2025, doi-[10.1016/bs.apcsb.2024.11.013](https://doi.org/10.1016/bs.apcsb.2024.11.013).

Dubey A, Mishra A, **Prajapati VK\***. Antimicrobial peptides and proteins: Mechanism of action and therapeutic potential. *Adv Protein Chem Struct Biol.* 2025, DOI:[10.1016/bs.apcsb.2025.07.001](https://doi.org/10.1016/bs.apcsb.2025.07.001).

#### **Book Grant-**

Awarded the India Science Book Fellowship 2024-25 for writing a book entitled “Engineering Humanity through Gene Editing: The Future of Medicine, Ethics, and Society” from the Foundation for Advancing Science and Technology (FAST) India. Grant amount- 1.5 Lakh

#### **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