

Department of Biochemistry

University of Delhi South Campus

Quarterly Report (1st February 2025 - 30th April, 2025)

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

Prof. Amita Gupta - Delivered inaugural address on "Awareness about Dangers of Pre-Packaged Ultra Processed Foods and the Importance of Reading Labels", held at Shivaji College, University of Delhi on 24 April 2025.

Dr. Vijay K. Prajapati - Delivered invited lectures at the National symposium on "Unmasking the hidden killers: Innovation in Leishmaniasis & TB Research" organized by Department of MLT & Biochemistry, SGT University, Haryana, India on 15th April 2025.

Dr. Dau Dayal - Delivered an Invited talk at Deshbandhu College, University of Delhi on dated: 19th March 2025 at the event of BIOSPARK' 25.

Title "Drosophila: A model organism for obesity and metabolic disorders"

Prof. Alo Nag - Delivered Invited lecture in the International Conference on "Integrative Oncology and Systems Medicine: Emerging Trends and Therapeutic Potential" at AIIMS, Rishikesh, on 21 Feb 2025. Talk title: Disrupting Oncogenic Pathways in Liver Cancer with Artemisinin.

Prof. Alo Nag - Delivered Invited lecture in the International Symposium on "Mitochondria, Apoptosis and Cell Death: Frontiers in Cancer Research" during 17-18 February 2025, Talk title: Targeting FOXM1 to Activate Apoptosis: Innovations for Effective Cancer Therapy.

Prof. Amita Gupta - Participated as a Resource person and delivered a lecture on "Undergraduate Immunology Curriculum" at the workshop on "Designing and Benchmarking Microbiology Courses to meet higher education Teaching-Learning standards under NEP-2020" organized by Academy of Microbiological Sciences (AMSc.) at the IIT Delhi Sonipat campus, 15th - 16th February, 2025.

Dr. Garima Khare - Served as an external examiner to conduct a viva voce for practical examination of MSc Medical Virology, Semester-I at Jamia Hamdard University, 10th February 2025.

Research Publications-

Kumar K, Crobu L, Thiam R, Mandal CC, Sterkers Y, **Prajapati VK***; Apoptotic proteins in *Leishmania donovani*: in silico screening, modeling, and validation by knock-out and gene expression analysis. *Parasite*. 2025; 32:9. doi: 10.1051/parasite/2024081.

Books-

Advances in Protein Chemistry and Structural Biology, Volume 144: Immunotherapy: Magic Bullet to Change the Future Therapeutics, Editor- **Vijay Kumar Prajapati**. Publisher: Elsevier Academic Press; ISBN: 978-0443159473. 24 February 2025.

Book Chapters-

K Baghel, S Mehrotra, **VK Prajapati***, Revolutionizing pancreatic cancer treatment with CAR-T therapy, *Adv Protein Chem Struct Biol*. 2025;144:331-353. doi: 10.1016/bs.apcsb.2024.10.008.

Kar S, Verma D, Mehrotra S, **Prajapati VK***, Reconfiguring the immune system to target cancer: Therapies based on T cells, cytokines, and vaccines. *Adv Protein Chem Struct Biol*. 2025;144:77-150. doi: 10.1016/bs.apcsb.2024.10.017.

Targets (For Academic Departments: Academic activities and Research)

Formulation and finalization of syllabus for M.Sc. Biochemistry under NEP-2020 Framework.

Formulation and finalization of syllabus for B.Sc. Biochemistry under UGCF-NEP 2020 for Semester VII and Semester VIII.

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