

Department of Biochemistry University of Delhi South Campus

Quarterly Report (1st February 2024 - 30th April, 2024)

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

- Book Launch on 10th April 2024 of "**Text Book of Nutritional Biochemistry**" written by the Faculty Members of Department of Biochemistry of DU Colleges and published by Springer Nature.
- Seminar on "**Characterization of the circulating viruses and protective antibody responses in HIV-1 infected children: guide to vaccine design**" delivered by **Professor Kalpana Luthra**, Head, Department of Biochemistry, All India Institute of Medical Sciences (AIIMS), New Delhi, on 20th March 2024.
- On the Occasion of Science Day on 29th February 2024, Department of Biochemistry organized **Professor P.C. Ghosh Memorial Lecturer 2024** entitled, "microRNAs - Basic biology to Translational Relevance" by **Dr. Neeru Saini**, Chief Scientist, CSIR Institute for Genomics and Integrative Biology New Delhi.
- **Prof. Amita Gupta** - Delivered an invited talk on "Molecular Diagnostics of Drug-resistant Mycobacteria" at the MikroVitae 2024 at Ram Lal Anand College, University of Delhi on 15th February 2024.
- **Dr. Garima Khare** – Invited as Judge at the National Science Exhibition conducted by CBSE from 1-3rd February 2024 at Mayoor School, Noida (for the category - Health).

Publications:

Raza M, Bharti H, Chauhan C, Singal A, Jha D, Ghosh PC, **Nag A.** (2024). Enhanced anti-malarial efficacy of mefloquine delivered via cationic liposome in a murine model of experimental cerebral malaria. Eur. J. Pharm. Biopharm. 2024, 197:114210. doi:10.1016/j.ejpb.2024. 114210.

Kinger S, Jagtap YA, Dubey AR, Kumar P, Choudhary A, Dhiman R, **Prajapati VK**, Chitkara D, Poluri KM, Mishra A. Lanosterol elevates cytoprotective response through induced-proteasomal degradation of aberrant proteins. Biochim Biophys Acta Mol Cell Res. 2024;1871(2):119631. doi: 10.1016/j.bbamcr.2023.119631.

Tanwar N, Ojha R, Aggarwal S, **Prajapati VK**, Munde M; Design of inhibitor peptide sequences based on the interfacial knowledge of the protein G-IgG crystallographic complex and their binding studies with IgG. Eur Biophys J. 2024;53(3):159-170. doi: 10.1007/s00249-024-01704-0.

Books-

1. *Advances in Protein Chemistry and Structural Biology*, Volume 139, Translational Bioinformatics; Editor- **Vijay Kumar Prajapati** and Rossen Donev. Publisher: Elsevier Academic Press; ISBN: 978-0-443-19348-4. March 2024.

Book chapters-

1. Singh S, Pandey AK, **Prajapati VK**; From genome to clinic: The power of translational bioinformatics in improving human health. *Adv Protein Chem Struct Biol.* 2024;139:1-25. doi: 10.1016/bs.apcsb.2023.11.010.
2. Singh S, Pandey AK, Malemnganba T, **Prajapati VK**; Technological advancements in viral vector designing and optimization for therapeutic applications. *Adv Protein Chem Struct Biol.* 2024;139:57-87. doi: 10.1016/bs.apcsb.2023.11.013.

Student Award:

Ms. Preeti won an award in the Essay writing competition, Topic: "Translational research is not possible without a basic research foundation" by the Indian Association of Cancer Research on 22 January, 2024.

Four students of the Department of Biochemistry were awarded Ph.D. degree at the 100th convocation of University of Delhi held in February 2024.

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 against three teaching posts is pending and recruitment against 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

- Students Excursion Tour was organized by the Department to Mussoorie for M.Sc. and Ph.D. students from 7th to 10th March 2024.
- Visit of students and faculty members of Department of Zoology, Bhaskaracharya College of Applied Sciences, DU on 13th March 2024.
- Visit of students and faculty members of Department of Biochemistry, Shaheed Rajguru College of Applied Sciences for Women (SRCASW), DU on 23rd April 2024.