

# Department of Biochemistry University of Delhi South Campus

## Quarterly Report (November 2023 to January 2024)

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

**Prof. Alo Nag** - Delivered an invited talk on "Unlocking the Oncogenic Nexus: HPV-E7 and APC/C-Cdh1 in Cervical Carcinogenesis" at SBC 2023 conference held at BITS, Pilani, Goa on 18th December, 2023.

**Dr. Garima Khare** - Attended workshop on "Biorisk Management Workshop for Research Institutions with BSL-3 Laboratories" organized by Health Security Partners and Federation of Asian Biotech associations, held from 7-9<sup>th</sup> December, 2023 in Hyderabad, India

### Publications-

Srivastava V., Godara, P., Jena, S.P., Naik, B., Singh, S., **Prajapati, V.K.**, Prusty, D. (2024). Peptide-ligand conjugate based immunotherapeutic approach for targeted dismissal of non-structural protein 1 of dengue virus: A novel therapeutic solution for mild and severe dengue infections. *Int J Biol Macromol.* 2024 Jan 20;260(Pt 2):129562. doi: 10.1016/j.ijbiomac.2024.129562.

Kupani, M., Pandey, R.K., Vashisht, S., Singh, S., **Prajapati, V.K.**, Mehrotra, S. (2023). Prediction of an immunogenic peptide ensemble and multi-subunit vaccine for Visceral leishmaniasis using bioinformatics approaches, *Heliyon.* 2023 Nov 14;9(12): e22121.doi:10.1016/j.heliyon.2023. e22121.

Nupur Angrish and **Garima Khare.** (2023) Antisense oligonucleotide-based therapeutics and its applications against bacterial infections. *Medicine in Drug Discovery.* Volume 20, December 2023, 100166

### Book-

MicroRNA in Human Infectious Diseases: **Editor- Vijay Kumar Prajapati**, Rupal Ojha. Publisher: Elsevier Academic Press; ISBN: 9780323996617. January 2024.

### Book chapter-

Singh, S., Kumar, K., Rao, A., **Prajapati, V.K.\*** (2024). Bioinformatics Approaches in Studying the Fungal Endophyte-Derived Bioactive Compounds with Pharmacological Relevance. Book Name- Endophytic Fungi, January 2024. ISBN- 978-3-031-49111-5, Publisher- Springer Cham; Chapter doi- 10.1007/978-3-031-49112-2\_9.

### **Abroad Visit-**

**Dr. Vijay K. Prajapati** – Visited Prof. Yvon Sterkers Lab, Parasitology Unit, University of Montpellier, Montpellier, France, 15-22 November 2023. Funding agency- LabEx CEMEB.

**Targets** (For Academic Departments: Academic activities and Research)

### **Research Projects -**

**Dr. Vijay K. Prajapati** - Project entitled, “Quantification and expression of anti-apoptotic and pro-apoptotic proteins of Leishmania parasites for developing novel therapeutics”. Funding agency- ICMR, New Delhi. Sanctioned amount for UDSC- Rs. 22,041,907.

**Dr. Vijay K. Prajapati** - Project entitled, “Inhibiting glycosomal membrane biogenesis as a potential leishmaniasis treatment”. Funding agency- ICMR, New Delhi. Sanctioned amount for UDSC- Rs. 97,22,744.

### **Court/Executive Council meetings**

**Planning of Convocation/ Honoris Causa Degrees etc.**

### **Any Pending Issues**

Recruitment of three 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