

## Faculty Details

**Name: Dr Sanjeev Kumar**

**Designation: Associate Professor**

Department: Life Science & Bioinformatics

Off. Phone/ Phone: **None**

Email: [skpuniya@gmail.com](mailto:skpuniya@gmail.com)

Year of Joining: **2014**



**Areas of Interest/Specialization:** Protein Biochemistry, Applied Microbiology & Biotechnology, Immunology: Innate immunity, T cell migration, Gut microbiota, Probiotics in human health.

**Experience:** 17 years (Teaching and Research)

**Career Profile:**

**Education qualification:**

**Post-doctoral research:**

- 1) International Center for Genetic Engineering & Biotechnology (ICGEB), New Delhi
- 2) Penn State Hershey Medical Center, Hershey, PA, USA
- 3) UConn Health Center, Farmington, CT, USA

**Ph.D.:** Microbiology, University of Delhi

**M. Sc.:** Biochemistry, North Maharashtra University, Jalgaon, Maharashtra

**Honours/Awards (National/ International):**

**Research Projects:**

**Ongoing projects:**

SL	Title	Sponsored	Start date	End date	Fund
Rs 1622280/-	Biodegradation of keratin rich solid waste by Keratinolytic fungi from Himalayan and sub Himalayan region of Northeast India	MoEF	29-03-2019	28-03-2022	ongoing

**Research group:**

S.No.	Name	Ph.D./M.Phil.	Title	Year	Status
1.	Indira Gahatraj	Ph.D.	Fungal keratinases: Isolation, production, biochemical characterization and its applications	2018	Ongoing
2.	Sanasam Bijara Devi	Ph.D.	Understanding the molecular mechanism of innate immunity to malaria pathogenesis	2021	Thesis Submitted
3.	Dibakar Dey	Ph.D.	Spirometric analysis of pulmonary function in the Barak Valley region of Assam: A cross sectional Study	2018	Awarded
4.	Ankumoni Dutta	M.Phil.	Evaluating the effects of Garcinia morella (Gaertn) Desr. Fruit extract on Parkinson's disease: Behavioral and Neurochemical Investigation	2019	Awarded
5.	Shah Pran Laskar	M.Phil.	In-silico Identification of multiple drug targets for Plasmodium falciparum	2018	Awarded

**Best Peer Reviewed Publications (up to 5):**

- 1) Bala A, Alokika A, Kumar A, **Kumar S**, Singh D & Singh B. **2020**. Secretome analysis of thermophilic mould *Myceliophthora thermophila* cultivated on rice straw and hydrolysis of lignocellulosic biomass for bioethanol production. **Biocatalysis and Biotransformation**. 2020, 38 ( 4): 283–292. <https://doi.org/10.1080/10242422.2020.1711743>
- 2) Sanasam BD and **Kumar S**. **2019**. PRE-binding protein of Plasmodium falciparum is a potential candidate for vaccine design and development: An in silico evaluation of the hypothesis. **Med Hypotheses**. **2019** Apr;125:119-123. doi: 10.1016/j.mehy.2019.01.006. PMID: 30902138

- 3) Sanasam BD and **Kumar S. 2019**. In-silico structural modeling and epitope prediction of highly conserved Plasmodium falciparum protein AMR1. **Mol Immunol. 2019** Dec;116:131-139. doi: 10.1016/j.molimm.2019.10.003. PMID: 31648168
- 4) Ménoret A, Buturla JA, Xu MM, Svedova J, **Sanjeev Kumar**, Rathinam VAK and Vella AT. **2018**. T cell-directed IL-17 production by lung granular  $\gamma\delta$  T cells is coordinated by a novel IL-2 and IL-1 $\beta$  circuit. **Mucosal Immunol. 2018** Sep;11(5):1398-1407. doi: 10.1038/s41385-018-0037-0. PMID: 29907868
- 5) Dahiya DK, Renuka, Puniya M, Shandilya UK, Dhewa T, Kumar N, **Kumar S**, Puniya AK and Shukla P. **2017**. Gut Microbiota Modulation and Its Relationship with Obesity Using Prebiotic Fibers and Probiotics: A Review. **Front Microbiol. 2017** Apr 4;8:563. doi: 10.3389/fmicb.2017.00563. eCollection 2017.PMID: 28421057