




महात्मा ज्योतिबा फुले
कृषिविद्यालय, बरेली

Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	First Name	Sunil	Last Name	Kumar	Photograph	
Designation	Assistant professor (On-contract)						
Department	Bioinformatics and Computational Biology						
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Web-Page	https://www.researchgate.net/profile/Sunil-Kumar-597?ev=hdr_xprf						
Educational Qualifications (Graduation Onwards)							
Course/Degree	Institution	Year	Details/Thesis Topic/Subjects				
B.Sc.	MGKP University Varanasi	2013-16	Zoology, Chemistry				
M.Sc. (Ag)	CSJM University Kanpur	2016-18	Bioinformatics				
Ph.D	Banaras Hindu University Varanasi	2020-25	Bioinformatics				
Career Profile							
Organization / Institution	Designation	Duration	Role				
Banaras Hindu University	Senior Research Associate	4 months	Research Associate				
Research Interests / Specialization							
Parasitology, Computer Added Drug Designing, Nanoparticle, <i>In-silico</i> Vaccine constructions, Proteomics and metabolomics etc.							
Teaching Experience (Subjects/Courses Taught)							
Honors & Awards							
CSIR-JRF/NET (Life sciences) (December 2019, June 2021), GATE (Life science) (2019) UGC NET 2021 (Environmental Science)							
Publications /Academic Activities (Numbers Only)							
Books & Monographs (Single Author)	0	Research Papers Published in International Journals	8	Papers Presented in Seminars/ Conferences	3	Seminars/ Conferences Organized	Research Projects (Completed)
Books (Co-authored)	2	Research Papers Published in Other Journals	3	Seminar/ Conferences Attended	11	Workshops Organized	Research Projects (Ongoing)
Books (Edited)		Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.		Sessions Chaired in Seminars/ Conferences		Membership of Academic/ Professional Bodies	Foreign Countries Visited for Academic Assignments
Chapters in Edited Books			Resource Lectures Delivered				

Details of Publications /Academic Activities (2010 Onwards)				
(a) Books / Monographs				
<u>Year of Publication</u>	<u>Title</u>	<u>Publisher</u>	<u>ISBN</u>	<u>Co-Author (s) (if any)</u>
(b) Papers Published in Indexed/ Peer Reviewed Journals				
<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>ISSN/ Indexing</u>	<u>Co-Author (s) (if any)</u>
(c) Articles				
<p>1. Kumar S, Mishra A, Singh SP, Singh A. Anti-filarial efficacy of Centratherum anthelminticum: unravelling the underlying mechanisms through biochemical, HRAMS proteomics and MD simulation approaches. RSC Adv. 2024 Aug 12;14(35):25198-25220. doi: 10.1039/d4ra03461a. PMID: 39139251; PMCID: PMC11318267.</p> <p>2. Kumar S, Mishra A, Kumar V, Singh T, Singh AK, Singh A. Designing and comparative analysis of anti-oxidant and heat shock proteins based multi-epitopic filarial vaccines. BMC Infect Dis. 2024 Dec 18;24(1):1436. doi: 10.1186/s12879-024-10272-9. PMID: 39695454; PMCID: PMC11654384.</p> <p>3. Mishra A, Kumar S, Singh A. Biosynthesis and characterization of Ocimum sanctum green silver nanoparticles and unravelling their enhanced anti-filarial activity through a HRAMS proteomics approach. RSC Adv. 2024 Feb 14;14(9):5893-5906. doi: 10.1039/d3ra08702f. PMID: 38362069; PMCID: PMC10866198.</p> <p>4. Singh A, Kumar S, Singh H, Saha MK. The neurobiology of human immunodeficiency virus infections. Book chapter published in https://doi.org/10.1016/B978-0-12-818851-4.00015-0.</p> <p>5. Mishra A, Kumar V, Kumar S, Singh H, Singh A. HRAMS Proteomics Insights on the Anti-Filarial Effect of Ocimum sanctum: Implications in Phytochemical-Based Drug- Targeting and Designing. Proteomes. 2024 Dec 27;13(1):2. doi: 10.3390/proteomes13010002. PMID: 39846633; PMCID: PMC11755628.</p> <p>6. Aggarwal, Ankur, Tarun Verma, Kalyan Ghadei, Pralay Maiti, Rohit Sharma, Satyender Singh Yadav, Sunil Kumar, Alok Kumar, and Kow-Tong Chen. "Valorization of under- utilized whey: its effect on rheological and functional properties in black wheat idli." LWT (2025): 118637.</p> <p>7. Tripti Singh, Shivani Sharma, Sunil Kumar and Anchal Singh Impact of Climate Change on Dynamics and Outcomes of Host-Pathogen Interactions. Book chapter published in Climate Smart Agriculture Innovative Approaches for Plant Protection and Crop Management.</p> <p>8. Sunil Kumar Shivani Sharma Tripti Singh and Anchal Singh* Multi-epitope vaccines: a promising approach to combating filarial infections Review Communicated in ACS Omega 2025.</p> <p>9. Priyesh Dubey, Lalsa Bharti, Sunil Kumar, and Anchal Singh: Agroforestry for extreme weather resilience and alternate source of income for small scale farmers, Volume: 11, No.: 1, Year: 2025; Page No.: 18-29.</p> <p>10. Tripti Singh, Shivani Sharma, Animesh Tripathi, Sunil Kumar, Anchal Singh * Immune Responses to Filarial Nematodes: A Mechanistic Evaluation of Evasion and Modulation Strategies Received: 26 Sep 2025 Review immuno-3925472.</p> <p>11. Sharma, Shivani, Amit Kumar Singh, Tripti Singh, Sunil Kumar, and Anchal Singh. "Field-Based Assessment of Lymphatic Filariasis Transmission Dynamics and Intervention Outcomes in Varanasi District." medRxiv (2025): 2025-07.</p>				
(d) Seminar/Conference Presentations				
<p>Sunil Kumar, Ayushi Mishra and Anchal Singh, Mining Filarial Proteomes to Understand Host Specificity and Immunity, Poster presentation 48th ANNUAL CONFERENCE OF INDIAN IMMUNOLOGY SOCIETY for poster presentation 7 and 8 July 2022.</p> <p>2. Sunil Kumar, Tripti Singh Anchal Singh, "Designing of a multi-epitope peptide-based vaccine against Lymphatic Filariasis: An in-silico approach of antioxidant Proteins". Poster presentation on International Conference on Exploring New Horizon in Biotechnology Banaras Hindu University 10 to 12 February 2023.</p> <p>3. Sunil Kumar, Tripti Singh Shivani Sharma Anchal Singh, "Designing of a multi- epitope vaccine for Lymphatic Filariasis: An in-silico approach" Oral Presentation International Conference on Impact of Climate change on Socio-Economics and Ecological Transformation in Himalayan Region, Kashmir, India, 21-22 September, 2023.</p>				

4. Sunil Kumar, Tripti Singh Anchal Singh “Identification of novel molecular candidates against filarial antioxidant proteins through comprehensive computational approaches and in-vitro studies of <i>Centratherum anthelminticum</i> ” Oral Presentation Shodh Sangam 21-23 February 2024, Institute of Science, Banaras Hindu University Varanasi 221005.
<u>(e) Resource Lectures Delivered</u>
<u>(f) Seminars/Conferences/Workshops Organized</u>
<u>(g) Public Service / University Service / Consulting Activity</u>
<u>(h) Memberships of Academic/Professional Bodies</u>
<u>Projects (With Title, Year, Grants, Funding Agency and Collaborations)</u>
<u>Administrative Positions/Assignments Held</u>
<u>Academic Foreign Visits</u>
<u>Any Other Details</u>

Signature of Faculty Member
(in Hard Copy Only)

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