

MR. ABHISHEK KUMAR

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I am a self-motivated active researcher working in the field of Tumor Metabolism and Cancer biology. My current objectives focus in elucidating the mechanisms involved in the prevention and treatment of cancer by effectively targeting the hallmark features of Tumor metabolism and evasion of apoptosis in cancer. The curation of my research objectives and their results employs the use of phytochemicals in treating cancer.

Additionally, my alternate interests lie in exploring nature and enjoying Hindi music in my idle time. I am a guitarist and have passion for musical instruments. While science is my duty, living life in a soulful and enjoyable manner is my ideology.

Academic Details

- ☐ Ph.D. from Department of Zoology, Banaras Hindu University (Varanasi, Uttar Pradesh India), 2022- Going on.
- ☐ M.Sc. Zoology from Banaras Hindu University (Varanasi, Uttar Pradesh India), 2022 with 74.1%.
- ☐ B.Sc. (Hons.) Biology from Banaras Hindu University (Varanasi, Uttar Pradesh India), 2020 with 62.8%.
- ☐ 12th from St. Xavier's School (Dharahara, Ballia), 2017 with 71.4% marks.
- ☐ 10th from Sun Flower Public School (Garhiya, Rasra, Ballia), 2015 with 74.1% marks.

Projects

M.Sc. Project Dissertation Title	"Anticancer activity of insect derived peptides (Review)."
Project Supervisor	Dr Ajay Kumar's Laboratory at Department of Zoology, BHU, Varanasi, U.P India, 221005 (March 2022- May 2022).
Project Description	Project's aim was to focus about the immune system of insects and the role of the antimicrobial peptides in the elimination of the pathogens from the body of insects.
Laboratory Experience	Handling and maintenance of mice, Cell culture and related molecular techniques (Western blotting, RT-PCR, Real Time PCR, fluorescence and confocal microscopy, flow cytometry etc.).
Duration	January 2022 – May 2022

Research and Technical Skills

Experiences in wet lab techniques	<ol style="list-style-type: none">1. Handling and breeding of laboratory mice.2. Expatriation of organs/tissue.3. Cell culture techniques: Handling and experimentation of tumor cell lines, establishing primary cell cultures4. Estimation of cell survival, apoptosis (Annexin V/PI staining and Wright-Giemsa staining), cytotoxicity assays.5. Basic Immunological techniques: Western Blotting, Immunofluorescence microscopy, Immunohistochemistry.6. Basic Molecular biology techniques: Isolation of RNA, RT-PCR, Agarose gel electrophoresis, flow cytometry.7. Biochemical estimations of various biomolecules and spectroscopy.
Experiences in dry lab techniques	<ol style="list-style-type: none">1. Molecular Docking (by AutoDock, Chimera, YASHARA software)2. Structure processing (By PyMOL, Discovery Studio, Chimera)3. Primer designing with in silico PCR validation
Additional skills and responsibilities	<ol style="list-style-type: none">1. TBT Lab official website: Creation, Management and Updation of the official website of TBT (www.tbtlabbhu.com),

	Lab, Department of Zoology, BHU, Varanasi-221005
2.	RADBET-2025 Official Webpage: Creation and Updation of official webpage of International Symposium- RADBET-2025, (www.tbtlabbhu.com/radbet-2024) Organized by Department of Zoology, BHU, Varanasi-221005

Professional Trainings/ Workshop/ Symposium/ courses

- International Symposium and Workshop (Seven days) on '**Recent Trends in Proteomics**' from February 17-23, 2025, organized by Department of Zoology, Banaras Hindu University, Varanasi
- Workshop (Two days) with hands on training on '**VISUALISING SCIENCE**', from November 27-28, 2023, organized by **RCB, Faridabad** jointly with **Nature India** and DBT Allowance.
- Symposium on '**Condensates in Biological Systems**', organized by Council of Scientific & Industrial Research-Institute of Genomics and Integrative Biology, Delhi (**CSIR-IGIB**)
- Human behavior (2-month online course of IIT Guwahati)
(ELITE + SILVER certificate)
- Cell Culture Technologies (2-month online course of IIT Kanpur)
(ELITE + Silver certificate)

Experiences

- **Core committee member of the Organizing Team** of International Symposium (Three days) on '**Recent Advances in Disease Biology and Emerging Therapeutics**', RADBET-2025, from January 17-19, 2025, organized by Department of Zoology, Banaras Hindu University, Varanasi.
- **Technical Support member of the Organizing Team** of International Conference on 'Recent Trends in Animal Sciences', RTAS-2022, organized by Department of Zoology, **Banaras Hindu University, Varanasi**.

Awards & Achievements

- Qualified CSIR NET LS (June 2021 and June 2023)- Eligibility for Assistant Professor
- Received **Rajiv Gandhi National Fellowship (JRF & SRF- session 2023-24)** by Ministry of Tribal Affairs

Memberships

- Ambassador and Member of **European Association for Cancer Research- EACR**
- Member of **American Association for Cancer Research- AACR**
- Member of **International Eosinophil Society**
- Member of **Indian Immunology society**
- Guest member of **European Hematology Association**
- Member of **American Society for Microbiology**
- Member of **All India Research Scholars Association- AIRSA**

Research Journal activities

- Peer reviewer for **International Journal of Biological Macromolecules**

Publications

Research articles

1. Shivendra K. Pandey, **Abhishek Kumar**, Sushil K. Gupta, Ajay Kumar, Manoj K. Bharty. Investigations on Antiproliferative Potential of Thiosemicarbazone Zn(II) Complexes: Design, Synthesis, and Density Functional Theory Studies on Structural Parameters. ChemMedChem 2025, 0, e202500545. (Impact factor- 3.4, Q1)
2. Naqvi, Syed Mohd Adnan, Sk Najrul Islam, **Abhishek Kumar**, Chandahas Ramchandra Patil, Ajay Kumar, and Absar Ahmad. "Enhanced anti-cancer potency of sustainably synthesized anisotropic silver nanoparticles as compared with L-asparaginase." **International Journal of Biological Macromolecules** (2024): 130238. (Impact factor- 8.2, Q1)
3. Anand Verma, Kanchan Kumar, Utkarsh Talukdar, Gaurav Pal1, Deepak Kumar, Pooja Shukla, Suneeta Patel, **Abhishek Kumar**, Ajay Kumar, R. N. Kharwar, and Satish K. Verma. Assessment of Bioactive Potential and

Characterization of an Anticancer Compound from the Endophytic Fungi of Ocimum sanctum. Microbiology.
(2024).93(4):459-471. (Impact factor- 1.5, Q1)

Personal Details

Date of Birth : 24 April, 2001
Marital status : Unmarried
Sex : Male
Nationality : Indian
Languages Known: : Hindi & English

Academic References

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Dr. Akhilesh Kumar
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