



## Vijay Kumar

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### Education:

PhD Microbiology (Pursuing)      PhD, Microbiology, Kurukshetra University, Kurukshetra, Haryana, India.

2010, M.Sc. (Hons. School)      Panjab University, Chandigarh, India

Microbiology  
2008, B.Sc. (Hons. School)      Panjab University, Chandigarh, India  
Microbiology

### Work Experience (Teaching and Research):

April, 2012 – present      Assistant Professor, Department of Microbiology, Kurukshetra University, Kurukshetra, Haryana, India.

August, 2010 – April, 2012      Assistant Professor in Microbiology at Post Graduate Government College, sector 11, Chandigarh.

### Administrative and Academic duties:

- Secretary, Staff Council, Dept. of Microbiology, K.U.K.
- Faculty Coordinator, Dept. of Microbiology, K.U.K. in Kurukshetra University Technology Incubation Centre (KUTIC) since August 2021.
- Department Coordinator, Kurukshetra University Kurukshetra Alumni Association (KUKAA) since July, 2021.
- Library In charge of Dept. of Microbiology, K.U.K.
- Department Coordinator of IQAC for the session 2021-22.
- Programme Counsellor, Youth Red Cross UTD Unit of K.U.K. from 23/02/2021 to 31/07/2022.
- Joint Secretary (2019-2020) and Member, Kurukshetra University Teachers Association.
- Warden of Ch. Ranbir Singh Boys Hostel, KUK (12/09/2019 to 20/07/2022) and Harsh Bhawan Boys Hostel, KUK (25/07/2019 to 12/09/2019).
- Member of different Inspection Committees constituted by Kurukshetra University for inspection of colleges.
- Member of different Selection Committees in various interviews constituted by Kurukshetra University.

- Performed Election Duties in various General Elections and Assembly Elections for Election Commission of India.

### Grants, Fellowships and Awards:

- 2023                    **Certificate of Honour** from Kurukshetra University, Kurukshetra on 7<sup>th</sup> January 2023.
- 2022                    **Principal Investigator** of Research **Project Under Seed Money Grant** “Molecular characterization of *Bacillus* sp. ND6D produced thermostable keratinase: A green approach in feather waste management” awarded by Kurukshetra University.
- 2021                    **Young Scientist** Award in the conference on “Advances in Microbial Technologies (AIMT-2021)” organized by Amity Institute of Microbial Technology from 01-02, December, 2021.
- 2020                    **Mentor** in Council of Scientific and Industrial Research (CSIR) - Summer Research Training Programme-2020.
- 2019                    Indian National Science Academy (INSA) **Visiting Scientist** Fellowship at Animal Genetics Division, ICAR-National Bureau of Animal Genetic Resources, Karnal, Haryana.
- 2013-2014                **Principal Investigator** of Minor Research Project on “Isolation of novel fungi from hot springs and their bioprospecting for novel enzymes” awarded by Kurukshetra University.

### Professional Membership:

- Life Member of ‘Association of Microbiologists of India’, India.
- Member of Society for Applied Microbiology, United Kingdom.
- Member of Microbiology Society, United Kingdom and Ireland.
- Life Member of ‘Indian Society for the Study of Reproduction & Fertility’, India.
- Life Member of ‘Indian Science Congress Association’, India.
- Life Member of ‘Society for Conservation of Domestic Animal Biodiversity’, India.
- Life Member of ‘Book Club of National Book Trust, India’, Ministry of Education, Government of India.
- Annual Membership of ‘American Society of Microbiology’ during 2013.
- Sessional Membership of ‘The National Academy of Sciences, India’ in 2018.
- Life Member of Kurukshetra University Kurukshetra Alumni Association.
- Member of Under Graduate Board of Studies and Post Graduate Board of Studies of Dept. of Microbiology, Kurukshetra University.

### Trainings and Academic Courses:

- 2022                    Completed UGC-Approved Short-term Professional Development Programme on “Implementation of NEP-2020 for University and College Teachers” organized by IGNOU, New Delhi, from 18-26, November, 2022.

- 2022 Participated in short course “Phytophthora: From isolation to functional genomics” organized by ICAR-Indian Institute of Spices Research, Kozhikode, Kerala from 2-11 March, 2022.
- 2021 Completed One Week Online Interdisciplinary Faculty Development Programme on Intellectual Property Rights organized by Hansraj College, University of Delhi from 10-17 February 2021.
- 2020 Completed Five Days Online Short-Term Training Program on “Bio-Energy: Technologies & Transitions” Jointly Organized by National Institute of Technology, Kurukshetra and Government Engineering College, Bikaner from 13-17, May 2020.
- 2020 Completed online Faculty Development Program on “Environmental Impacts of Covid-19 Pandemic: Challenges and Future Research” Organized by University School of Environment Management, Guru Gobind Singh Indraprastha University from 27 May 2020 to 1 June 2020.
- 2019 Completed the Refresher Course in Curriculum development and e-content development through SAWAYM platform (ARPIT March 2019).
- 2017 Completed Refresher Course on Advances in Molecular Biology organized by Indian Institute of Science, Bengaluru at Department of Microbiology and Cell Biology.
- 2014 Completed Short Term Training Course on Advanced Molecular and Bioinformatics Approaches for Genome Characterization of Indigenous Animal Genetic Resources, organized by NBAGR, Karnal.
- 2014 Completed Refresher Course in Research Methodology in Sciences (ID), organized by UGC-Academic Staff College, K.U.K.
- 2012 Completed One Week Short Term Course, organized by UGC-Academic Staff College, K.U.K.
- 2012 Completed Orientation Programme, organized by UGC-Academic Staff College, K.U.K.

**Invited Lectures:**

- 2020 Mukand Lal National College, Radaur, Yamunanagar on “COVID-19 Pandemic Environment & Immunity” on 15 June, 2020.

**Organization of Conferences/ Seminars/ Workshops/ Symposia, etc:**

- 2022 Camp Coordinator of State Level (Inter-college) Youth Red Cross Training Camp for girls from 4 to 10 April, 2022 at KV Niwas, Shimla.
- 2022 Coordinator of Online IPR Awareness Programme organized by the Dept. of Microbiology, KUK on 4<sup>th</sup> February 2022.
- 2021 Joint Organizing Secretary of “One Day Orientation Programme for Counsellors of Youth Red Cross of Kurukshetra University and its affiliated Colleges / Institutes” organized by Youth Red Cross, K.U.K. on 27 December 2021.
- 2020 Webinar on "Vedic Microbiology in context to COVID-19" at Dept. of Microbiology, K.U.K.

- 2020 Member of Organizing Committee of 'Science Conclave' organized by K.U.K.
- 2013 National Seminar on Ambedkarite Quest on Egalitarian Revolution in India at Centre for Dr. B.R. Ambedkar Studies, K.U.K.
- 2013 Workshop on IPR and filing of patents at Dept. of Microbiology, K.U.K.

**Participation in Conferences/ Seminars/ Workshops/ Symposia, etc:**

- 2022 Successfully completed three part series of Web of Science certification Program 2022, February 17, 2022.
- 2021 Participated in Online Workshop "Grant Writing & Management" – An insight into German Research Landscape organized by Max-Planck-Society and University of Cologne from 02-03, December, 2021.
- 2021 Attended one day workshop on Role of Teachers in National Education Policy-2020, organised by KUK on 25/08/2021
- 2021 Attended one day workshop on RTI, organised by KUK on 16/03/2021.
- 2020 Participated in International CME on Digital Health and NCDs organized by World NCD Federation in collaboration with PGIMER Chandigarh 7<sup>th</sup> March 2020.
- 2020 Participated in one day seminar organized on 'Opportunities and challenges in drug discovery and development' on 19.02.2020 by Institute of Pharmaceutical Sciences, K.U.K.
- 2019 Participated in one day Awareness workshop on IPR organized by Kurukshetra University, Kurukshetra on 19, January 2019.
- 2019 Attended One Day Seminar On Draft National Education Policy, 2019 Kurukshetra University, Kurukshetra, on 24, June 2019.
- 2018 Presented poster in 88th Annual Session of NASI and Symposium on Science, Technology And Ecosystem For Sustainable Rural Development at MGCGV, Chitrakoot, Madhya Pradesh, India 6-8, December, 2018.
- 2018 Presented poster at 30th All India Congress of Zoology and National Seminar on Advances in Zoology for Sustainable Development, organized by Department of Zoology, Kurukshetra University, Kurukshetra 15-17, February, 2018,
- 2018 Participated in one day workshop on IP Awareness Programme on National IPR Policy 2016 at Kurukshetra University, Kurukshetra 11, January 2018.
- 2018 Participated in workshop on "Sensitization Workshop On Recent Tools For Effective Literature Review" organized by Chitkara School of Health Sciences, Chitkara University, Punjab
- 2018 Presented poster in National Seminar on Fermented Dairy Foods and Their Health Benefits organized by National Dairy Research Institute, Karnal, Haryana 26-27, May 2018.

- 2017 Poster presentation at 58th Annual Conference of Association of Microbiologists of India (AMI-2017).
- 2017 Participated in one day workshop on “Innovation in biomedical instruments and devices” at PGIMER, Chandigarh.
- 2016 Participated in “103rd Indian Science Congress” at University of Mysore, Mysuru.
- 2016 Participated in one day workshop on use of E-resources, organized by Kurukshetra University, Kurukshetra
- 2016 One day seminar on “Selection of excipients for oral liquid dosage forms” at NIPER, Mohali.
- 2015 Poster presentation at 56th Annual Conference of Association of Microbiologists of India (AMI-2015) organized by School of Life Science, JNU, New Delhi.
- 2015 Participated in National Symposium on “Communicable and non-communicable diseases: Latest therapeutic interventions” organized by Dept of Biotechnology, P.U. Chandigarh.
- 2013 Participated in 54th Annual Conference of Association of Microbiologists of India (AMI) Platinum Jubilee Celebration organized by Maharishi Dayanand University, Rohtak
- 2013 Participated in Two Day National Seminar on Higher Education in India: Striving for Excellence organized by IQAC, K.U.K.
- 2013 Attended Workshop on IPR Filing Procedures, Patentability Search and Patent Drafting organized by CIIPP, Panjab University, Chandigarh

### **Publications in Refereed Journals:**

**V Kumar**, M Kaur. 2021. COVID-19 Vaccine and Male Fertility. *Urology Journal*. 18 6897.

**V Kumar**, M Kaur. 2020. Sperm Cell Damage Induced by Urogenital Tract Infections. *Virology and Immunology Journal*. 4(3) 1-2.

A Malan, **V Kumar**, HR Sharma. 2020. Bacteriological evaluation of groundwater in open-defecation-free villages of Kurukshetra district, Haryana, India. *International Journal of Environmental Studies*. [DOI: 10.1080/00207233.2020.1745545](https://doi.org/10.1080/00207233.2020.1745545)

**V Kumar**, N Garg. 2020. In vitro characterization of Sperm Immobilization Factor isolated from *Escherichia coli*. *Research Journal of Biotechnology* 15(9) 23-27.

**V Kumar**, N Garg. 2019. Effect of *Escherichia coli* on Semen Quality of Infertile Human Male. *Virology & Immunology Journal* 3(3), 1-5.

**V Kumar**, V Prabha, S Kaur, K Kaur, SK Singh. 2011. Receptor dependent immobilization of spermatozoa by sperm immobilization factor isolated from *Escherichia coli*: Proof of evidence. *International Journal of Urology* 18(8), 597-603.

### **Book Chapters:**

A Sharma, J Arora, **V Kumar**. 2022. Bacterial quorum sensing: its role in physiological characterization of bacteria. D K Malik, M Rathi, D Bhatia, S Jaggi (Eds.) *Microbes for humanity and its applications*, Astral International Pvt. Ltd.

**V Kumar**, M Kaur. 2022. Applications of probiotics in gynecological health. D K Malik, M Rathi, D Bhatia, S Jaggi (Eds.) *Microbes for humanity and its applications*, Astral International Pvt. Ltd.

M Kaur, **V Kumar**. 2020. Microorganisms Improving Food Quality and Safety. Sharma, Shiwani Guleria, Sharma, Neeta Raj, Sharma, Mohit (Eds.) *Microbial Diversity, Interventions and Scope*, Springer Singapore.

**V Kumar**, S Guleria. 2017. Role of microbes in human health. Nisha Rani, Madhavi Joshi, Anand Sagar (Eds.) *Microorganisms: Tools of Sustainability*, Bishen Singh Mahendra Pal Singh.