

Dr. Pradyot Prakash

MD, PhD, MAMS

Professor

Department of Microbiology
Institute of Medical Sciences
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Number of articles published	Citations*	h index*	i10 index*	RG Score
43	661	16	18	28.42

Selected Research papers published in Indexed International/ National Journals:

➤ Bacterial Biofilms and Drug resistance

1. Singh AK, **Prakash P**, Achra A, Singh GP, Das A, Singh RK. **Standardization and classification of In vitro biofilm formation by clinical isolates of Staphylococcus aureus.** *Journal of Global Infectious Diseases*. 2017 Jul 1;9(3):93-101. [PubMed]
2. Singh AK, **Prakash P**, Singh R, Nandy N, Firdaus Z, Bansal M, Singh RK, Srivastava A, Roy JK, Mishra B, Singh RK. **Curcumin Quantum Dots Mediated Degradation of Bacterial Biofilms.** *Frontiers in Microbiology*. 2017 Aug 9;8:1517. IF:4.019 [PubMed]
3. Singh AK, Yadav S, Sharma K, Firdaus Z, Aditi P, Neogi K, Bansal M, Gupta MK, Shanker A, Singh RK, **Prakash P**. **Quantum curcumin mediated inhibition of gingipains and mixed-biofilm of Porphyromonas gingivalis causing chronic periodontitis.** *RSC Advances*. 2018 Nov 28;8(70):40426-45. IF:2.936 [PubMed]
4. Singh AK, Yadav S, Chauhan BS, Nandy N, Singh R, Neogi K, Roy JK, Srikrishna S, Singh RK, **Prakash P**. **Classification of Clinical Isolates of Klebsiella pneumoniae based on their in vitro Biofilm forming capabilities and Elucidation of the Biofilm Matrix Chemistry with special reference to the Protein content.** *Frontiers in Microbiology*. 2019;10:669.

Patent filed: Green method for the preparation of Curcumin quantum dots to enhance its solubility, stability and its activity as antibiofilm agent. Ref No./ Application number: E-2/2135/2018/DEL

➤ Diagnostic Molecular Microbiology: Nested PCR based Diagnosis of infectious diseases

5. **Prakash, P.**, A.K. Gulati, O.P. Mishra, A.K. Singh, and G. Nath.. **Evaluation of nested PCR in the diagnosis of typhoid fever.** *J. Clin. Microbiol.* 2005; 41:431-432. IF: 4.054 [PubMed]
6. **Prakash P**, Patne SC, Singh AK, Kumar M, Mishra MN, Gulati AK. **PCR and genotyping for HPV in cervical cancer patients.** *Journal of Global Infectious Diseases*. 2016 Jul;8(3):100-7. [PubMed]

Gene sequences submitted in NCBI database:

Prakash P et al. 5 partial gene sequences of HPV16. GenBank Accession number KU961844, KU961845, KU961846, KU961847, and KU961848. **2016**

Ongoing Projects

1. **Co-investigator, DST funded extramural project "Development of slow drug releasing device containing curcumin in the management of human periodontal disease: a novel approach"** submitted under Technology systems development programme, to **DST, India**
DST project (DST/TSG/NTS/2013/47), Department of Science and Technology, Government of India. **BHU project code: P07/585**

2. **Co-Principal Investigator: DHR, MOHFW funded State Level Viral Research & Diagnostic Laboratory (VRDL)** under the scheme entitled “Establishment of a network of laboratories for managing epidemics and natural calamities”

Scheme no: 5066

Project executed

1. **Principal investigator, Biosecurity Equipment procurement**, CRDF Global funded project for enhancement of Biosecurity capability of Department of Microbiology, IMS, BHU, Varanasi.

Experience of Guiding Research

PhD students: Ongoing (2)

Title of PhD thesis

A study on Bacterial Biofilms: Ashish K Singh

A study on *Klebsiella pneumoniae* in reference to biofilm formation and Drug resistance: Shivangi Yadav

MD students: Completed (3) Ongoing (2)

Title of MD thesis:

Role of Nested PCR in Diagnosis of Acute Bacterial Meningitis in Children due to fastidious organisms: Harshita Lal

Multiplex nested Polymerase Chain Reaction detection of *Neisseria gonorrhoeae* and *Chlamydia trachomatis* in urogenital infections: Ketan Priyadarshi

Nested PCR in detection of HPV and typing of genotypes -16 and -18 in Carcinoma Cervix: Nidhi Gupta

PCR detection of *Clostridium difficile* in cases of Antibiotic-associated diarrhea: Piyush Hari

Detection of Intracellular Bacterial Biofilm in Urinary tract infections: H. Larikyrpang Kharchandy

Chapter published in Book/ Book published

Nath G, Prakash P, Gulati AK. **Typhoid and Paratyphoid fever**. In: Chetna Vaishnavi (Ed). Infections of the Gastrointestinal Systems, 1st Edn. New Delhi: Jaypee ; 2013. P 110-22.

Prakash P, Nath G, Pandey S, Kumar M, Gulati AK. **Human Papillomaviruses and Carcinoma cervix: Newer tools for screening and detection of HPVs**. 1st Edn. Raleigh,: Lulu.com; 2016.

Extension activities

Field study:

“Situational analysis of risk factors associated with occurrence of polio cases in Nawada district, Bihar sponsored by MOHFW, New Delhi in collaboration with IHFW, New Delhi in May 2010.

Invited Lecture

- “Precautions and Measures in Manufacturing Pathogen/ Microbe free Pharmaceutical Products” in WHO Sponsored Seminar-cum-workshop in Sept 2007 at BHU
- “How to collect samples for Microbiology” in CritiCare update 2010 at IMS, BHU, Varanasi.
- “Diagnostic challenges in HPV infections” in UP MICROCON 2016 at RMLIMS, Lucknow

Resource person for

1. CME on Bioinformatics in “*Clinical Microbiology: Sequence and Genome analysis*” in UP MICROCON 2015
2. **Regional/ state level workshop on STI/RTI services** under NACP-III for Medical Officers, Lab Technicians, and Staff Nurses of District Hospitals
3. **State Level Trainings of District Hospital ART Medical Officer in HIV Care**
4. **Training of Regional Resource Faculty on STI/RTI Syndromic Case Management**

Reviewer of National and International Journals

Tuberculosis (ELSEVIER)	Epidemiology and Infection (Cambridge Journals)
Journal of Nanomaterials (Hindawi)	Clinical Epidemiology and Global Health (ELSEVIER)
Journal of Infection in Developing Countries (JIDC)	Journal of Parasitic Diseases (Springer)
Journal of Virological Methods (ELSEVIER)	Papillomavirus Research (ELSEVIER)
BioMed Research International (Hindawi)	Journal of Ayurveda and Integrative Medicine (ELSEVIER)
African j Microbiol Res (Academic journals)	Frontiers in Microbiology

Organised conferences

- **Joint Organising Secretary, of National Conference of IAMM (MICROCON 2011)**
- **Organising Secretary, of IAMM-UP Chapter (UP MICROCON 2015)**
- **Joint Organising Secretary, International Conference on Bacteriophages in River Ganga (ICBRG 2017)**
- **Joint Organising Secretary, National Conference on Frontiers in Health Sciences (NCFHS 2019)**

CME/ Workshop attended

1. CME cum workshop on “**Emerging antimicrobial resistance, Real Time PCR and Tissue culture techniques for Virus isolation**” on 17th -18th Nov 2006, at S.G.P.G.I., Lucknow.
2. Training Program on “**Bioinformatics: Application in Agriculture and Medical Sciences**” at School of Biotechnology, BHU, Varanasi held from 16-18 February 2012.
3. **Practical course on Rapid Molecular detection of *M. tuberculosis* and its resistance to Isoniazid and Rifampicin by PCR based Line Probe Assay** at International Centre of Excellence for Lab training at NTI Bangalore, 26th to 30th August 2013.
4. CDC sponsored “**National capacity building workshop on Biorisk Management and Laboratory aspects of Emerging & Re-emerging Infectins at NCDC**”, New Delhi, 16-20 May, 2016.
5. **Quality Management System & Internal Audit training in Medical Labs as per ISO 15189-2012** held at IMS, BHU 12-15th July 2017.
6. **Revised Basic course workshop in Medical Education Technologies** held at Institute of Medical Sciences, Varanasi on 23rd, 24th and 25th July, 2017

Administrative responsibilities

- **Incharge: Bacteriology section**, Department of Microbiology, IMS
- **Incharge: STI-SRC**, Department of Microbiology, IMS
- **Deputy-Incharge: ICTC**, Department of Microbiology, IMS
- **Teaching incharge UG teaching**, Faculty of Dental Sciences, IMS, BHU for the subject Microbiology
- **Co-convenor** -Press and publication committee: IMS-Annual day function; 2016, 2017, 2018, 2019
- **Co-incharge**-MBBS/BDS Registration/ Admission committee, IMS, BHU, Varanasi; 2016, 2018

Membership of Professional Bodies

- **Elected member: Academy of Medical Sciences, New Delhi (MAMS)**
- **Life Member**-Indian Association of Medical Microbiologists (IAMM) [LM 1811]
- **Life Member**-Indian Association of Tropical Parasitologists (IATP)
- **Life Member**-Indian Medical Association (IMA) [UP 1/10675/36/605/179768/L]
- **Annual member**: American Society for Microbiology 2014, 2018, 2019
- **Member**: Board of studies; Faculty of Para-Medical Sciences, UP University of Medical Sciences, Safai, Etawah; constituted on 16-01-2017

(Pradyot Prakash)

*Google Scholar Profile Link: <https://scholar.google.co.in/citations?user=uVphGtMAAAJ&hl=en>