

Scientist Profile

1. **Name of the Scientist: Dr. Vivek Kumar Gupta**
2. **Designation: Scientist-E**
3. **Division: Biochemistry**
4. **Official Email address: gupta.vk2@icmr.gov.in**
5. **Qualifications: M.Sc. (Microbiology), Ph. D. (Biotechnology)**
6. **Research interests: Infectious Diseases -Tuberculosis and Leprosy - Anti-TB Drug discovery& Development, Adjunct anti-TB Therapy, Drug resistance**
7. **Research experience (in Years): 17 Years (after Ph.D.)**
8. **H-index: 17**
9. **Total number of Publications: 40**
(Web-link. i.e. Google Scholar)
ORCID iD<https://orcid.org/0000-0001-8430-5511>
<https://scholar.google.com/citations?hl=en&user=KXNpIooAAAAJ>

10. Patents (Filed/ Awarded): 08

- ❖ Evaluating isoniazid-folic acid conjugate for enhanced antitubercular potential. Patent Application No.202321059765A (India).
- ❖ Design & synthesis of vitamin-drug conjugate for antitubercular activity. Patent Application No.202321059766A (India).
- ❖ Improved anti-dermatophytic preparation. US 7,291,349 B2
- ❖ Antibacterial composition comprising Oenostacin from *Oenothera biennis*. United States Patent 6,365,197. 9.
- ❖ Pharmaceutical composition containing cow urine distillate and an antibiotic. United States Patent 6,410,059.
- ❖ Composition and process for preparing herbal disinfectants comprising *Mentha spicata* var. *viridis* and their use. United States Patent 6,767,876.
- ❖ Mint plant *Mentha spicata* L. var. *viridis* christened as 'Ganga'. United States Patent PP16,747.

- ❖ Antimicrobial and anticancer properties of methyl β -orcinolcarboxylate from lichen (*Everniastrum cirrhatum*). United States Patent Application 2004/0198815 9

11. List of research grants received (Reverse chronological order):

S. No	Research Project	Role	Funding agency	Period (Year)
1	Immunometabolomics in the quest for comprehending protection and pathogenesis in tuberculosis.	Co-investigator	ICMR, New Delhi	2023-25 (ongoing)
2	Characterization and clinical relevance of hypothetical proteins of aminoglycosides resistant isolates of <i>Mycobacterium tuberculosis</i>	Co-investigator	Intramural	2023-25 (ongoing)
3	Evaluation of enriched fractions of lead plant extracts for in-vivo anti-tuberculosis and immunomodulatory potentials with first line anti-TB drugs for the development of adjunct phytotherapy	Principal investigator	ICMR, New Delhi	2021-23
4	Evaluation of in-vitro and ex-vivo antimycobacterial activity of selected plants traditionally used in tribal medicine against MDR <i>Mycobacterium tuberculosis</i> isolates and their active fractions investigation	Principal investigator	ICMR, New Delhi	2015-17
5	Validation of herbal healers claims for tuberculosis (in vivo study).	Principal investigator	National Innovation Foundation (DST), Gujarat	2018-2021
6	Validation of herbal healers claims for tuberculosis through in vitro and in vivo studies	Principal investigator	National Innovation Foundation (DST), Gujarat	2018-2020
7	Validation of herbal healers claims for tuberculosis (in vitro study)	Principal investigator	National Innovation Foundation (DST), Gujarat	2017-2018

12. Awards/ Recognitions/Honors:

S. No	Award Details	Awarded by	Year
1	International Visiting Fellow*	Department of Respiratory Sciences, University of Leicester LE1 7RH, England, UK	2018-19
2	ICMR-International Fellowships (long term) for Young Biomedical Scientists	Indian Council of Medical Research (ICMR), new Delhi	2018-19
3	CIMAP, CSIR Annual Day Award 2005 for significant contribution for development of industrialized technology	CSIR-CIMAP, Lucknow	2005

***International Visiting Fellow:** Awarded International Visiting Fellow under **Dr. Galina Mukamolova** Associate Professor, Department of Respiratory Sciences, University of Leicester LE1 7RH, England, UK, (2nd October 2018 to 30th March 2019). The research work was carried out in the area of Mycobacterial anti-dormancy factors- Resuscitation Promoting factors (Rpfs).

13. Academic activities (Last five years)

-Member of scientific societies/ bodies / committees

- ❖ Association of Microbiologist of India (AMI)
- ❖ Indian Association of Leprologists (IAL)
- ❖ AcSIR Coordinator

-Conference/ Webinar/ Workshop/ Training organized : 04

-No. of Conference/ Webinar/ Workshop/ Training attended: 20

-No. of invited lectures delivered: 08

-No of students supervised: (Ph.D....., MD....., M.Tech / M.Sc.....) : 15