

## RESUME

**Dr. MAHEEP KUMAR**  
**Assistant Professor (Ad-Hoc)**  
**Department of Botany**  
**Guru Ghasidas Vishwavidyalaya**  
**Bilaspur, 495009, India**

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### **Educational Qualifications**

<b>Qualification</b>	<b>Year</b>	<b>Subject</b>	<b>University/College</b>	<b>Percentage/other information</b>
Ph.D.	2008	Botany	Department of Botany, BHU., Varanasi	8 <sup>th</sup> Nov 2013 (Ph. D. viva-voice)
M.Sc.	2007	Botany	B.H.U., Varanasi	84.80 % (8.48 CGPA)
B.Sc.	2005	Botany (Hons.) Zoology, Chemistry	B.H.U., Varanasi	61.56 %
12 <sup>th</sup>	2001	Hindi, English, Physics, Chemistry, Biology	E.R.I. Collage, Mughalsarai, (U.P)	60.40 %
10 <sup>th</sup>	1999	Hindi, English, Math, Science, Social Science, Biology	E.R.I. Collage, Mughalsarai, (U.P)	67.67 %

### **Award/ Fellowship/ Exam**

**Council of Scientific and industrial research, NET (LS) Dec.2008 - Qualified**  
**Common Research Entrance Test (2008) – Qualified**  
**University grants Commission New Delhi Meritorious Fellowship (2008) - Qualified**  
**Rajiv Gandhi National Fellowship (2008)- Qualified and joined.**

### Topic of Research in Ph.D.

“Screening of antimicrobial compounds from the cyanobacteria, *Lyngbya aestuarii* and *Aphanothece bullosa*”.

### Techniques learnt

- **Spectroscopy:** Ultraviolet spectrum (UV), Nuclear Magnetic Resonance (NMR), Infrared spectroscopy (IR), Liquid Chromatography and Mass Spectrometry (LC MS/MS).
- **Molecular Biology:** Nucleic acid–Isolation, Purification and Estimation Protein–Isolation, purification and Estimation Electrophoresis – Agarose, SDS PAGE, 2D Gel, PCR Technique, Primer designing.
- **Microbiological Technique:** Sterilization technique, preparation of media. Isolation of cyanobacteria from it’s natural habitat. Maintenance of Pure Culture, Identification and Characterization of cyanobacteria.

### Abstract / Symposium/ Seminar/Workshop

- M. K. Tripathi, A. P. Singh, **M. Kumar** and R. K. Asthana (2009). Cyanobacteria as a natural source of antimicrobial substances. In: **National** Symposium on “Phycology in India: Basic to Applied (PIBA 2009)”, February 12-13, 2009, Punjabi University, Patiala, Punjab, India.
- Manoj K. Tripathi, A. P. Singh, Arunima Srivastava, **Maheep Kumar** & R. K. Asthana (2009). Hap-T targeting in *Escherichia coli* DH5α. In: **National** Symposium on “Current Challenges in Plant Sciences: Gene to Ecosystem”. March 24-25, 2009, Department of Botany, BHU, Varanasi, UP, India.
- **Maheep Kumar** and R. K. Asthana (2009). A marine cyanobacterium (*Lyngbya aestuarii*) as a source of antimicrobial agent. In: **National** Symposium on "Emerging Paradigms in Biochemical Engineering (EPBE-09)". October 9-10, 2009, **School of Biochemical Engineering Institute of Technology**, BHU, Varanasi, UP, India.
- **Maheep Kumar** and R. K. Asthana (2009). Niche Specific *Lyngbya* sp. as a Potent Source of Antibacterial Molecule. In: **International** symposium “7<sup>th</sup> Asia-Pacific Conference on Algal Biotechnology”. December 1-4, 2009, New Delhi- India.
- **Maheep Kumar** and R. K. Asthana (2010). Antimicrobial activity of exo and endo-metabolites of marine cyanobacterium, *Lyngbya aestuarii*. In: **International** symposium on Phycological Research. February 25-27, 2010, Centre of Advanced Study in Botany, BHU, Varanasi, India.

- "DBT sponsored (Govt. of India, New Delhi), **NATIONAL WORKSHOP CUM HANDS ON TRAINING PROGRAM ON** "Phylogenetic Analysis: Techniques and Tools" (Under BTISnet-training Program), on March 12-18, **2011** at Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati, Maharashtra, India..
- **Maheep Kumar**, Manoj Kumar Tripathi, Akankasha Srivastava and R. K. Asthana (**2011**). Antimicrobial activity of exo and endo-metabolites of a niche specific cyanobacterium, *Lyngbya aestuarii*. In: **International** conference on Microorganisms in Environmental management and Biotechnology, July 1-3, 2011, Department of Biotechnology and Bioinformatics centre Barkatullah University, Bhopal, MP, India.
- **Maheep Kumar**, Akanksha Srivastava, Manoj Kumar Tripathi and R. K. Asthana (**2013**), Antimicrobial activities of *Lyngbya aestuarii* and *Aphanothece bullosa*, In **National** symposium on Current Status and new horizons of ecological science and environmental biotechnology (ESEB), March 1-3, 2013, Centre of Advanced Study in Botany, BHU, Varanasi, India.

## Paper

- **Kumar M.**, Tripathi MK, Srivastava A, Nath G and Asthana R K (2012) A Comparative Study of Antibacterial Activity of Brackish and Fresh Water Cyanobacterial Strains, *Asian J. Exp. Biol. Sci.* (ISSN 0975-5845), 3(3): 548-552.
- **Kumar M**, Tripathi MK, Srivastava A, Gour JK, Singh RK, Tilak R, Asthana RK (2013) Cyanobacteria, *Lyngbya aestuarii* and *Aphanothece bullosa* as antifungal and antileishmanial drug resources, *Asian Pacific J. Tropical Biomedicine* (ISSN 2221-1691), 3(6) 458-463, DOI: [10.1016/S2221-1691\(13\)60096-9](https://doi.org/10.1016/S2221-1691(13)60096-9).
- **Kumar M**, Srivastava A, Alok, KR and Asthana, RK (2013) Identification and Structure elucidation of Antimicrobial compounds from *Lyngbya aestuarii* and *Aphanothece bullosa*, *Journal of Applied Phycology* (**communicated**)
- Tripathi, MK, **Kumar M**, Singh, VK, Nath, G and Asthana RK (2012) Use of Enterobacterial Repetitive Intergenic Consensus PCR in Detecting Target(s) of Hapalindole-T, From a Cyanobacterium, in *Escherichia Coli: In Silico* Validation, *American Journal of Bioinformatics* (ISSN 1948-9862) 1 (1): 30-40.

## Current activities

Currently joined as Assistant Professor (Ad-hoc) (Botany) in Guru Ghasidas Vishwavidyalaya, Bilaspur, Chattisgarh, pin code 495009, India.

## Personal Profile

- **Date Of Birth-** 5<sup>th</sup> july 1984
- **Father's Name-** Late Sriwan Ram
- **Mother's Name-** Smt. Bageshwari Devi
- **Languages Known-** English, Hindi
- **Hobbies-** Drawing and Painting Stage show, Mimicry
- **Permanent Adress-** Vill- Kurhkala, Post- Mughalsarai, Distt- Chandauli,  
State- Uttar Pradesh Country- India Pin Code- 232101

## Declaration

I hereby declare that all the information provided by me in this application is factual and correct to the best of my knowledge and belief.

Date : November, 2013

Place: Varanasi

**Maheep Kumar**