


Curriculum Vitae

Full Name:	Dr. RAHUL KUNWAR SINGH			
Designation:	Assistant Professor			
Department:	Microbiology			
Campus:	Srinagar Campus			
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Education Qualification:	Ph.D. (Applied Microbiology) Banaras Hindu University- 2012			
Teaching Experience:	10 Years	Research Experience:	13 Years	
Research Interest and Fields of Specialization				
<ol style="list-style-type: none"> 1. Cyanobacterial Biotechnology 2. Infectious diseases 3. Bioactivity of Natural products 4. Plant growth promoting microorganisms 				
Honours & Awards				
<ol style="list-style-type: none"> 1. Best Innovation Award by HNBGU in 2021 2. Young Scientist Award by Samaj Vikas Sansthan, Merrut in October 2013 3. ICMR-SRF in January, 2011. 4. UGC-JRF in October, 2009 				
Member of Academic Institutions				
Membership of Scientific Organizations				
<ol style="list-style-type: none"> 1. Life Member & Secretary, Srinagar Garhwal Unit, Association of Microbiologists of India, 2. Life Member, Innovation Education and Scientific Research Foundation, New 				
Research Supervision				
Ph.D. Awarded: 01, Submitted: 02, Registered: 01; PG Dissertation: 18				
Research Projects/ MoU undertaken				
<i>Sr. No.</i>	<i>Title of the project</i>	<i>Sponsoring Agency</i>	<i>Amount in (Rs.) lakh</i>	<i>Status</i>
1	Screening of thermophilic cyanobacteria containing nonribosomal peptide synthetase gene clusters for their antimicrobial activity.	UGC	06	Completed
2	Cyanobacterial biodiversity along the physico-chemical gradients in hot water springs of Arunachal Pradesh and their bioactive potential	DBT	08	Completed
Administrative Experience				
<ol style="list-style-type: none"> 1. Assistant Director, UGC- Malaviya Mission Teacher Training Centre, HNBGU 2. Assistant Director, Faculty Development Centre, HNB Garhwal University 3. Member Secretary, Institutional Ethics Committee, HNBGU 4. Expert Member, Board of Studies, Microbiology, SDSU, Tehri 5. Member, Board of Studies, Botany & Microbiology, HNBGU 				

Invited lectures during last five years (2018-2023)

1. Invited Lecture (**NEP 2020 and Skill Development in India**) in NEP Orientation & Sensitization Program organized by UG-MMTTC, Iswar Saran PG College, Prayagraj on Dec 13, 2023.
2. Invited Lecture (**Microbiological quality and Examination of Milk**) in Skill Vigyan Program organized by Department of Biotechnology, HNBGU on Jan 01, 2022.
3. Invited Lecture (**Microbiological quality and Examination of Water for pharmaceutical use**) in Skill Vigyan Program organized by Department of Biotechnology, HNBGU on Dec 31, 2021.
4. Invited lecture (**Sustainable Development and Microbes**) in Refresher Course entitled: Pedagogical techniques and Research methodology) organized by FDC, HNBGU on March 23, 2021.
5. Invited lecture (**Scientific paper writing**) in Induction Training of Faculty on May 31, 2019 at FDC, HNBGU.
6. Invited lecture (**Foldscope: Revolution in field of Microscopy**) in DST Inspire Science Internship Camp at HNBGU on Jan 22, 2019
7. Invited lecture (**UGC Regulations, 2018**) in Orientation Program on September 20, 2018 at FDC, HNBGU.
8. Invited lecture (**Use and Applications of Foldscope**) in workshop on 'Communication skills and Scientific Temperament' on July 31, 2018 at FDC, HNBGU.
9. Invited lecture (**How to write a research article**) in Induction Training of Faculty on June 11, 2018 at FDC, HNBGU.
10. Invited lecture (**Microbes: powerful players to serve humanity**) in NSS Camp at HNB Garhwal University on February 11, 2018.
11. Invited lecture (**Targeted Therapies for Cancer**) in World Cancer Day Celebration at Department of Biochemistry, HNB Garhwal University on February 04, 2018.

Conference/Symposium/Workshop Organized during last five years (2018-2023)

1. Webinar on "How to read scientific literature and introduction to project MANV on June 02, 2020.
2. National Webinar on "Mass spectrometry in natural products research" on June 24, 2020.
3. International Webinar on "Microbial diversity: from health to environment" on June 27, 2020.
4. One Day University level Conference on occasion of World Tuberculosis Day on March 24, 2018.

Publications during last five years (2018-2023)

Journals

1. Tyagi S, Suyal S, Tewari A, Awasthi S, **Singh RK**, A, Sharma N Uniyal A. Thermophilic cyanobacteria: an untapped reservoir of pharmacological leads. *Eur Chem Bul* (2063-5346) 2023; 12 Special issue (5): 2802 – 2809. doi: 10.53555/ecb/2023.12.si5a.01612023.07/12/2023
2. Uniyal S, and **Singh RK**. Impact of different carrier material on the viability of *Nostoc* sp. HNBGU 006. *Eur Chem Bul* (2063-5346) 2023; 12 (10): 6860-6867. doi: 10.48047/ecb/2023.12.10.4922023.22/07/2023
3. Tyagi S, Baswal N, **Singh RK**, A, Sharma N Uniyal A. RNA Viruses: A Review on Rapid Adaptation Potential and Globally Emerged Pandemics. *Acta Sci Microbiol* (2581-3226) 2023; 6 (8): 57-72. doi: 10.31080/ASMI.2023.06.1285
4. Bhandari M, **Singh RK**. Screening of Cyanobacterial Strains Isolated from Garhwal Himalaya for Polyhydroxybutyrate Production. *J. Env. Bio-Sci.* (0973-6913), 2023; 37 (1): 83-87. Doi: 10.59467/JEBS.2023.37.83
5. Bhandari M, **Singh RK**, Laishevcev A, Mohapatra TM, Nigam M, Mori E, Vasconcelos de Lacerda BCG, Coutinho HM, Mishra AP. (2022). Revisiting Scrub typhus: A neglected tropical disease. *Comparative Immunology, Microbiology and Infectious Diseases* (0147-9571) 90-91. doi: 10.1016/j.cimid.2022.101888
6. Nigam M, Panwar AS, **Singh RK**. (2022) Orchestrating the Fecal microbiota transplantation: Current technological advancements and potential biomedical application. *Frontiers in Medical Technology* (2673-3129) 4; 961569. doi: 10.3389/fmedt.2022.961569
7. Uniyal S, Bhandari M, Singh P, **Singh RK**, Tiwari SP. (2022) Cytokinin biosynthesis in cyanobacteria: Insights for crop improvement. *Frontiers in Genetics* (1664-8021; IF= 4.77). 13; doi.org/10.3389/fgene.2022.933226
8. Karthic A, Kesarwani V, **Singh RK**, Yadav PK, Chaturvedi N, Chauhan P, Yadav

- BS, Kushwaha SK. (2022) Computational Analysis Reveals Monomethylated Triazolopyrimidine as a Novel Inhibitor of SARS-CoV-2 RNA-Dependent RNA Polymerase (RdRp). **Molecules** (1420-3049; IF= 4.927) 27 (3): 801. <https://doi.org/10.3390/molecules27030801>
9. Olatunde A, Nigam M, **Singh RK**, Panwar AS, Lasisi A, Alhumaydhi FA, Kumar VJ, Mishra AP, Sharifi-Rad J. (2021) Cancer and diabetes: the interlinking metabolic pathways and repurposing actions of antidiabetic drugs. **Cancer Cell International** (1475-2867; IF = 5.72) 21 (1): 499.
 10. Tyagi S, **Singh RK**, Tiwari SP. (2021) Anti-enterococcal and anti-oxidative potential of *Leptolyngbya* sp. HNBGU 003. **Saudi Journal of Biological Sciences** (1319-562X; IF = 4.2). 28: 4022-4028. <https://doi.org/10.1016/j.sjbs.2021.04.003>
 11. Budakoti M, Panwar AS, Molpa D, **Singh RK**, Büsselberg D, Mishra AP, Coutinho HDM, Nigam M. (2021) Micro-RNA: The darkhorse of cancer **Cellular Signalling** (0898-6568; IF = 3.9) 83, 109995.
 12. **Singh RK**, Yadav BS, Mohapatra TM. (2020) Molecular drug targets and system biology approaches for drug repurposing against SARS-CoV-2. **Bulletin of the National Research Center**. (2522-8307) **44:193**. <https://doi.org/10.1186/s42269-020-00444-3>
 13. Tyagi S, **Singh RK**. (2020) Chemical profile of the antibacterial component from *Leptolyngbya* sp. HNBGU 002 isolated from a hot spring of Garhwal Himalaya. **Int. J. Pharmaceut. Sci. Res.** (0975-8232) 11 (10): 5225-5238.

Book Chapters

1. Microorganisms as Drivers of Host–Parasite Interactions. Negi R, Bhandari M, **Singh RK**, Mohapatra TM. In: Parasitic Infections: Immune Responses and Therapeutics, First Edition. Eds. Mishra AP, Nigam M. John Wiley & Sons, Inc. USA (2024). **ISBN: 9781119878025**
2. Oesophagostomum Infection. Negi R, **Singh RK**, Raj VS, Mohaptara TM. In: Textbook of Parasitic Zoonoses. Eds. Parija SC, Chaudhary A. Springer Nature, Singapore (2022). eISBN: 978-981-16-7204-0
3. Mammomonogamiasis. Bhandari M, **Singh RK**, Raj VS, Mohaptara TM. In: Textbook of Parasitic Zoonoses. Eds. Parija SC, Chaudhary A. Springer Nature, Singapore (2022). eISBN: 978-981-16-7204-0
4. Dipylidiasis. Pandey RP, Raj VS, **Singh RK**, Mohaptara TM. In: Textbook of Parasitic Zoonoses. Eds. Parija SC, Chaudhary A. Springer Nature, Singapore (2022). eISBN: 978-981-16-7204-0
5. Dicrocoeliasis. Raj VS, Pandey RP, **Singh RK**, Mohaptara TM. In: Textbook of Parasitic Zoonoses. Eds. Parija SC, Chaudhary A. Springer Nature, Singapore (2022). eISBN: 978-981-16-7204-0
6. Ecology of Diazotrophic Microbiome. Singh P, **Singh RK**, Tiwari SP, Kumar D. In: The Plant Microbiome in Sustainable Agriculture. Eds. Srivastava AK, Kashyap PL, Srivastava M. John Willey & Sons, USA, pp: 81-99 (2020). **ISBN: 978-1-119-50516-7**
7. Microalgae: potential agent for carbon dioxide mitigation. Singh P, **Singh RK**, Kumar D. In: Microbes for Climate Resilient Agriculture. Eds. Kashyap PL, Srivastava AK, Kumar S, Tiwari SP. John Willey & Sons, USA, (2018). **ISBN: 9781119275923**
8. From Leuwenhoek to Craig Venter. Sharma R, Srivastav R, **Singh RK**, Tiwari SP. In: Recent Advances in Microbiology Vol 3. Eds. Tiwari SP, Sharma R, Gautam NC. Nova Science Publishers, Inc. New York, USA, (2018). **ISBN: 9781536140583**
9. Cyanobacteria: a new terminus for anti-infectious agents. Tyagi S, Singh P, **Singh RK**. In: The role of photosynthetic organisms in agriculture and industry. Eds: Tripathi KN, Kumar N, Abraham G. Nova Science Publishers, Inc. New York, USA, (2018). **ISBN: 978-1536140323**

Total Number of Publications: 46