Curriculum Vitae

Full Name:	DR. RAHUL KUNWAR SINGH			
Designation:	Assistant Professor			
Department:	Microbiology			
Campus:	Srinagar			
Telephone:	+91 1370 267160	**Fax:**	+91 1370 267160	
Mobile:	+91 9557797597			
Email	rksingh.hnb@gmail.com			
Education Qualification:	Degree, University, Year			
Teaching Experience:	09 Years	**Research Experience:**	12 Years	

Research Interest and Fields of Specialization

1. Cyanobacterial Biotechnology
2. Antimicrobial activity
3. Infectious diseases
4. Cancer Therapy

Honours & Awards

1. Assistant Director- Faculty Development Centre, HNBGU
2. Secretary cum Treasurer, Association of Microbiologists of India, Srinagar Garhwal Unit
3. HNBGU Best Innovation Award-2021
4. ICMR-Senior Research Fellowship
5. UGC- Meritorious Student Junior Research Fellowship

Member of Academic Institutions

Membership of Scientific Organizations

1. Life Member, Association of Microbiologists of India
2. Life Member, Innovative Education and Scientific Research Foundation, New Delhi

Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered)

Awarded: 01
Registered: 03

Research Projects/ MoU undertaken

Sr. No.	*Title of the project*	*Sponsoring Agency*	*Amount (Rs.)lakh*
1	Screening of thermophillic cyanobacteria containing nonribosomal peptide synthetase gene clusters for their antimicrobial activity.	*UGC*	*06*
2	Cyanobacterial diversity of hot springs of Arunanchal Pradesh and their bioactivities	*DBT*	*08*

Administrative Experience

1. Assistant Director- Faculty Development Centre, HNBGU
2. Convener- PG Admission committee of the Department
3. Member- UG Admission Committee
4. Member- Board of Studies

Scientific Visits Abroad/ International Collaboration

Conference/Symposium/Workshop Attended during last five years (2017-2022)

1. Invited Lecture **(Microbiological quality and Examination of Milk)** in Skill Vigyan Program organized by Department of Biotechnology, HNBGU on Jan 01, 2022.
2. 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.
3. Invited lecture **(Sustainable Development and Microbes**) in Refresher Course entitled: Pedagogical techniques and Research methodology) organized by FDC, HNBGU on March 23, 2021.
4. Invited lecture (**Scientific paper writing)** in in Induction Training of Faculty on May 31, 2019 at FDC, HNBGU.
5. Invited lecture **(Foldscope: Revolution in field of Microscopy**) in DST Inspire Science Internship Camp at HNBGU on Jan 22, 2019
6. Invited lecture (**UGC Regulations, 2018)** in Orientation Program on September 20, 2018 at FDC, HNBGU.
7. Invited lecture (**Use and Applications of Foldscope)** in workshop on 'Communication skills and Scientific Temparament' on July 31, 2018 at FDC, HNBGU.
8. Invited lecture (**How to write a research article)** in Induction Training of Faculty on June 11, 2018 at FDC, HNBGU.
9. Invited lecture (**Microbes: powerful players to serve humanity**) in NSS Camp at HNB Garhwal University on February 11, 2018.
10. Invited lecture (**Targeted Therapies for Cancer**) in World Cancer Day Celebration at Department of Biochemistry, HNB Garhwal University on February 04, 2018.
11. Invited Lecture (**Dengue: immunology, prophylaxis and treatment**) in World Immunology Day Celebration at Department of Biochemistry, HNB Garhwal University on April 29, 2017.
12. Invited Lecture (**Bacterial therapy for Cancer**) in World Cancer Day Celebration at Department of Biochemistry, HNB Garhwal University on February 04, 2017.

Conference/Symposium/Workshop Organized during last five years (2017-2022)

1. One-day Seminar on World Tuberculosis Day on March 24, 2017 at HNB Garhwal Univer Coordinator.
2. Webinar on How to read the scientific literature and Introduction to Project MANAV as Cor
3. International Webinar on "Microbial Diversity: from Health to Environment" on June 27, 2020.
4. National Webinar on "Mass Spectrometry in Natural Products Research" on June 24, 2020.

Publications during last five years (2017-2022)

Journals

1. Bhandari M, **Singh RK,** Laishevtcev 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; IF= 2.7**)** 90-91. doi: 10.1016/j.cimid.2022.101888
2. 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
3. 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
4. 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
5. 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.
6. 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
7. 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.
8. **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

9. 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. Pharmceut. Sci. Res. (0975-8232)** 11 (10): 5225-5238.
10. **Singh RK,** Mishra S, Singh VK, Mohapatra TM. (2017) Molecular modeling and docking studies of OXA-10 in *Acinetobacter baumannii.* **J. Pharm. Res. (0974-6943)** 11(4): 352-358. (UGC no. 12479)

Proceedings

Books

1. 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
2. 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
3. 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
4. Dicrocoeliasias. 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
5. 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
6. 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
7. 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
8. 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 Research Publications: 39