

BIODATA

Dr. Verinder Virk

Incharge of Department of Microbiology & Assistant Professor
Department of Microbiology
Kanya Gurukula Campus, Gurukula Kangri (Deemed To Be
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Haridwar-249407



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PERSONAL DETAILS

- Name : Verinder Virk
- Date of Birth : 12 March 1982
- Address:Official : Deptt. of Microbiology, Kanya Gurukul Campus, Jwalapur, Haridwar
- Permanent : Vill. Tigri P.O. Laksar Haridwar, Uttarakhand
- Mailing : H.No. 29, Bada Parivar, Gurukul Kangri University, Jwalapur, Haridwar

EDUCATIONAL QUALIFICATIONS

- Ph.D in Microbiology (2007) under supervision of Prof. Dr. D.K. Maheshwari, worked on the topic of “**Role of Rhizobacteria on Root-Knot of *Capsicum annuum*”**.
- Master of Science (2003) in Microbiology with first position (72.5%) from Gurukul Kangri University, Haridwar.
- M.Sc project on “**Studies on Interaction of *Ganoderma lucidum* & *Rhizobium*”** from Forest Research Institute, Dehradun.

TEACHING EXPERIENCE

- **PRESENT**- Working as an Assistant professor in Microbiology, Kanya Gurukul Mahavidyalaya, Haridwar since 26-March- 2011.
- **PAST** -Worked as a (ad hoc) Lecturer in Microbiology, Kanya Gurukul Mahavidyalaya, Haridwar since 2004 till 25th March 2011.

IMPROVEMENT OF PROFESSIONAL COMPETENCE

S. No	Name of the Course	Institution/Place	Time Period	Course Duration
1.	Orientation Course	University of Jammu	1/12/2012-8/12/2013	1 week
2.	Refresher Course	ASC-GNDU Amritsar	5/6/2014-25/6/2014	3 weeks
3.	Short Term Course	Kumaun University, Nainital, Uttarakhand	8/6/2018-14/6/2018	1 week
4.	Refresher Course	HRDC, Punjabi University	1/12/2018-21/12/2018	3 weeks
5.	Faculty Development Programme	Gurukula Kangri (DU) Haridwar	14/5/2020-20/5/2020	1 week
6.	Short Term Course	CPDHE-UGC-HRDC, University of Delhi	16/06/2022-22/06/2022	1 week

LIFE MEMBERSHIP OF PROFESSIONAL BODIES.

- Indian Science Congress Association (ISCA), Kolkata, West Bengal.
- Association of Microbiologist of India (AMI).

ACADEMIC AND RESEARCH CONTRIBUTIONS :-

- PARTICIPATION IN STATE, NATIONAL AND INTERNATIONAL CONFERENCES AND SEMINARS .

S.No	Topic	Year
1.	Presented paper in National Seminar on Global Warming : It's Impact on Environment, Economy & Politics at S.M.J.N. (P.G.) College Haridwar sponsored by UCOST Dehradun & DRDO, New Delhi, 27 th -28 th December 2008.	2008

2. Presented paper in International Conference on Biodiversity & Environmental Governance in Canada & India: Safeguarding Ecosystems for Human Welfare organized by the Centre for Canadian Studies, at GKV Haridwar in collaboration with the Department of Biology, McMaster University, Hamilton, Canada organised by Deptt of Foreign Affairs & International Trade, Government of Canada, Canada, 21st-23rd October 2010. **2010**
3. Presented paper in International Conference on Global Climatic and Biodiversity Conservation at Deptt. of Zoology and Environmental Sciences, GKV Haridwar organised by World Congress for Man and Nature (WCMAN), 11th-13th November 2011. **2011**
4. Member and presented a paper in International Conference on Green Technologies For Environmental Rehabilitations (GTER) at Faculty of Engineering Technology, Gurukul Kangri University, Haridwar , Uttarakhand, 11th-13th February 2012. **2012**
5. Presented paper in National Conference on 8th Uttarakhand State Science & Technology Congress 2013 at Doon University, Dehradun, Uttarakhand sponsored by Uttarakhand State Council For Science & Technology, 26th- 28th December 2013. **2013**
6. Presented paper in National Symposium on Innovation in Science & Technology for inclusive development at Gurukul Kangri University, Haridwar organised by The Indian Science Congress Association Haridwar Chapter, 16th February 2014. **2014**
7. Co-Chairperson and presented paper in National Conference on Recent Advances in Bioscience and Drug Discovery at Deptt. of Pharmaceutical Sciences, Faculty of Ayurved and Medical Sciences Gurukul Kangri University, Haridwar organised by RABDD 2014, 3rd-4th March 2014. **2014**
8. Presented paper in National Conference on “Science & Technology for Human Development” at Department of Ancient Indian History, Culture & Archaeology Gurukul Kangri University, Haridwar organised by The Indian Science Congress Association Haridwar Chapter, 20th-21st March 2015. **2015**
9. Presented paper in National Conference on “Science & Technology for Human Development” at Department of Ancient Indian History, Culture & Archaeology Gurukul Kangri University, Haridwar organised by The Indian Science Congress Association **2015**

Haridwar Chapter, 20th-21st March 2015.

10. Presented paper in National Conference on “Science & Technology for Indeginous Development” in India at Faculty of Engineering & Technology Gurukul Kangri University, Haridwar organised by The Indian Science Congress Association Haridwar Chapter, 28th-30th September 2015. **2015**
11. Presented paper in National Conference on “Science & Technology for National Indeginous Development” at Department of chemistry, Gurukul Kangri University, Haridwar organised by The Indian Science Congress Association Haridwar Chapter, 20th-22nd November 2016. **2016**
12. Presented paper in 3rd International Conference on Science, Technology and Management at India International Centre, New Delhi, India, 17th January 2016 **2016**
13. Presented paper in 4th International Conference on Science, Technology and Management, New Delhi, 15th May 2016. **2016**
14. Presented paper in International Journal of Advanced Technology in Engineering and Science, 5th May 2016 **2016**
15. Presented paper in 3rd International Conference on Recent Innovations in Science, Technology, Management and Environment at Indian Federation of United Nations Associations, New Delhi, India, 18th December 2016. **2016**
16. Presented paper in 3rd International Conference on latest concept in Science, technology, Management and Humanities (ICLCSTMH) at Gwalior Institute of Information Technology, Gwalior, M. P. India, 17th December 2017. **2017**
17. Presented a poster in International Conference on Advances and Innovations in Agriculture & Allied Sciences (AIAAS-2020) organized by Society for Agriculture & Allied Research (SAAR) at Jawaharlal Nehru University Convention Centre, New Delhi, India, 31st January-01st February 2020. **2020**
18. Presented an e-poster in International Virtual Conference on Fungal Biotechnology: Recent Trends and Future Prospectives (FBRTFP-2020) organized by Department of **2020**

Biotechnology, Bannari, Amman Institute of Technology, Sathyamanglam, Tamilnadu, India, 11th-12th December 2020.

19. Presented poster in 3rd International Conference on “Global Initiative in Agricultural, Forestry and Applied Sciences For food security, Environmental Safety and Sustainable Development (GIAFAS-2021)” Jointly Organized by the Agricultural & Environmental Technology Development Society (AETDS), U.S. Nagar, Uttarakhand, India; Shri Guru Ram Rai University, Dehradun, Uttarakhand, India; 17th and 18th October, 2021. **2021**
20. Presented Oral presentation on Antibacterial and antioxidant activity of *Crinipellis tabtim*; an endophytic fungi isolated from Aloe vera L. at International conference on advances in biotechnology and applied microbiology, organized at School of Life Science and Technology, IIMT University, Meerut, India, Mrch 30-31. **2022**
21. Presented a poster on Antimicrobial and antioxidant properties of fungal endophytes, isolated from Aloe vera L. Organised at School of Pharmacy, Abhilashi University, Chail Chowk, Mandi (H.P.). 23rd March, 2022 **2022**

• WORKSHOP PARTICIPATION

S.No	Topic	Year
1.	Solid Waste Management at Deptt. of Zoology and Environmental Sciences, GKV Haridwar sponsored by Forest and Environment Ministry, New Delhi, 10 th April.	2007
2.	Molecular & Applied Microbiology at Deptt. of Botany & Microbiology, GKV, Haridwar, 10 th -19 th February.	2008
3.	Microbial Fermentation & Microbial Inoculants Preparation of Organic Farming at Deptt. of Botany & Microbiology, GKV Haridwar, 6 th -1 st February.	2009
4.	Teaching Methods in Yoga at Deptt. of Human Consciousness & Yogic Science, GKV Haridwar, 12 th -13 th March.	2011
5.	Advance Microbiological Techniques in Pharmaceutical Industries at Deptt. of Botany & Microbiology, GKV Haridwar, 06 th October.	2013
6.	Patents & Intellectual Property Rights at FMS, GKV Haridwar organised by Uttrakhand State Council of Science & Technology (UCOST) & IPR cell GKV Haridwar, 7 th Feb.	2015
7.	UGC- Sponsored Short Term course on Soft Skills and Creative writings at Guru Nanak Dev University, Amritsar, 4 th -10 th October.	2016

8. Workshop on SAKSHAM-IT Champion Training Program at Gurukul kangri University,Haridwar, 2017
22nd-23rd September.
9. UGC- Sponsored Short Term course onMOOCs and OER at Kumaun University,Nanital, 2018
Uttrakhand, 8th-14th June.
10. Workshop on Academic writing skill and publication at Kanya Gurukul Campus,GKV,Haridwar, 2019
20th April.
11. Workshop on Basic Laboratory Training in Fecal Sludge Management, AAETI, at Nimli, Rajasthan 2021
from 13th September to 17th September, 2021.
12. Training program on Nutritious and beneficial herbal products formulations and 2022
preparations at Department of Botany and Microbiology, Kanya Gurukula Campus,
Gurukula Kangri (Deemed To Be University) Haridwar.

• **PARTICIPATION IN CONFERENCES**

S.No.	Topic	Year
1.	Participated in National Conference on New Vistas in Microbiology & Plant Sciences at KGV, GKV Haridwar, sponsored by Academy of Plant Science, India, Muzaffarnagar, 19 th - 20 th September 2006.	2006
2.	Attended National Seminar on Biodiversity of Himalayan States: With Special Reference to Uttrakhand at Deptt. of Zoology & Environmental science, GKV Haridwar organised by UGC-SAP, 18 th - 19 th March 2007.	2007
3.	Participated in International Conference on Yoga & Health awareness in Modern Scenario at Deptt. of Human Consciousness & Yogic Science, GKV Haridwar organised by Deptt. of Human Consciousness & Yogic Science, GKV Haridwar. 23 rd -25 th March 2007.	2007
4.	Participated in International Conference on Yoga & Health awareness in Modern Scenario at Deptt. of Human Consciousness & Yogic Science, GKV Haridwar organised by Deptt. of Human Consciousness & Yogic Science, GKV Haridwar. 23 rd -25 th March 2007.	2007
5.	Participated in an International Conference on Emerging Strategies in Antimicrobial Agents and Bio-innovations (ESAB-2020) organized by the Department of Microbiology, School of Science, RK University, 18 th -19 th December 2020.	2020

- **ORGANISATION**

S.No.	Topic	Year
1.	Organising secretary of Laboratory Diagnosis of Microbial Infections at Deptt. of Botany & Microbiology, GKV Haridwar, 24 th October.	2016
2.	Organising secretary of Hands on Training on Molecular and Microbiological Technique at the Deptt. of Botany & Microbiology, GKV Haridwar, 9 th -10 th March.	2018
3.	Organising secretary in National Conference on ‘Microbial Inoculants for Agriculture and Environmental Sustainability’ at Deptt. of Botany & Microbiology GKV, Haridwar, Uttarakhand, 28 th -30 th September.	2018

- **PUBLICATIONS**

S.No	Topic	Year
1.	Kumar, T., Wahla, V. , Pandey, P., Dubey, R. C. and Maheshwari, D. K. (2009). Rhizosphere competent <i>Pseudomonas aeruginosa</i> in the management of <i>Heterodera cajani</i> on sesame. World Journal of Microbiology and Biotechnology 25 (2), 277-285. ISSN(E)-1573-0972, ISSN(P)- 0959-3993, Indexed in AGRICOLA, BIOSIS, CAS, EBSCO, Elsevier Biobase, Gale, Google Scholar, Medline, Meta, Naver, ProQuest, Sci, IF: 2.652.	2009
2.	Wahla, V. (2012). Management of Root knot nematode <i>Meloidogyne incognita</i> on chilli (<i>Capsicum annum</i>) through <i>Pseudomonas aeruginosa</i> VPI. Journal of Sustainable Environment Research1 (1), 15-21. ISSN-2468-2039, Scopus, DAOJ, EBSCO, ProQuest, INSPEC, CAS, ESCI indexed, SCImago Journal Rank- 0.620, IF: 4.03.	2012
3.	Wahla, V. , Maheshwari, D. K. and Bajpai, V. K. (2012). Nematicidal fluorescent <i>Pseudomonas</i> for the in vitro and in vivo suppression of root knot (<i>Meloidogyne incognita</i>) of <i>Capsicum annum</i> L. Pest Management Sciences 68 (8), 1148-1155. ISSN-1526-4998, Scopus indexed, IF: 3.255.	2012

4. **Wahla, V.** and Devi, N. (2015). Isolation and characterization of Bacterial Contaminants of Salad Vegetables. *International Journal for Pharmaceutical Research Scholars* 4 (2), 283-289. ISSN-2277-7873, Indexed in DAOJ, DRJI, Google Scholars, Sherpa Romeo, Academia.edu, ICI, CAS Source Index(CASSI), ORCID. Inc, Publons, Researcher ID(Thomson Reuters), CrossRef, Google Business, Journal Club Indexing(JCI), IF: 3.4. **2015**
5. **Wahla, V.** and Kasana, M. (2015). Microbial assessment of some common Indian brands of talcum powder. *International Journal for Pharmaceutical Research Scholars* 4 (2), 296-300. ISSN-2277-7873, Indexed in DAOJ, DRJI, Google Scholars, Sherpa Romeo, Academia.edu, ICI, CAS Source Index(CASSI), ORCID. Inc, Publons, Researcher ID(Thomson Reuters), CrossRef, Google Business, Journal Club Indexing(JCI), IF: 3.4. **2015**
6. **Wahla, V.** and Rani, S. (2015). Studies based on the fungal flora of Indian currency. *European academic research*. 3(3), 2918-2926. ISSN-2286-4822, DRJI value: 5.9 (B⁺), IF: 3.45. **2015**
7. **Wahla, V.** and Qureshi, H. (2016). Isolation of fungi associated with spoilage of selected fruit. *International Journal of Institutional Pharmacy and Life Sciences*. 6(3), 17-27. ISSN-2249-6807, Indexed in Yahoosearch Index, Google Scholar, Socolar CHINA, ICI, George town Library USA, DAOJ, PubMed., Ayush Research Portal, Scientific Central, Indian science.in, Resrach Bible, Pharma web, HINARI (WHO), IF: 3.57. **2016**
8. **Wahla, V.** and Singh, T. (2017). Screening and characterization of actinobacteria from soil for their antifungal activity against *Fusarium oxysporum*. *Advances in Pharmacology and Toxicology*. 18:11-20. ISSN-0973-2381, ICI indexed, IF: 0.52. **2017**
9. Singh, T., Shukla, S., Kumar, P, **Wahla, V.** and Bajpai, V. K. (2017). Application of Nanotechnology in Food Science: Perception and Overview. *Frontiers in Microbiology*. doi: 10.3389/fmicb.2017.01501. ISSN(E)- 1664-302X, Indexed in PubMed, PubMed Central, Scopus, Google Scholar, DAOJ, Science, Citation, Index Expanded, Cite Score: 4.30, IF: 4.259. **2017**
10. **Wahla, V.** and Shukla S. (2017). Isolation of phosphate solubilizing microorganisms from rhizosphere of sugarcane. *Environment Conservation Journal*, ISSN:0972-3099, Indexed in CAS, EBSCO, GIF, Google Scholar, ICI, Index Copernicus International, Indian Science Abstract (ISA), CrossRef, IP Indexing Portal, EuroPub, CABI, NAAS Rating: 4.52, IPI Value: 3.46, Index Copernicus Value: 78.13, Global Impact factor: 0.914. **2017**
11. **Wahla, V.** and Shukla S. (2017). Plant growth promoting endophytic bacteria: boon to agriculture. *Environment Conservation Journal*, ISSN:0972-3099, Indexed in CAS, EBSCO, GIF, Google **2017**

Scholar, ICI, Index Copernicus International, Indian Science Abstract (ISA), CrossRef, IP Indexing Portal, EuroPub, CABI, NAAS Rating: 4.52, IPI Value: 3.46, Index Copernicus Value: 78.13, Global Impact factor: 0.914.

12. **Wahla, V.** and Shukla S. (2018). Characterization Of Multiple Plant Growth Promotion Traits Of Endophytic Bacteria Isolated From *Cathranthus roseus*, Indo American Journal Of Pharmaceutical Sciences, 05 (01), 169-173, ISSN: 2349-7750, indexed in ICI, CAS, Index Copernicus Value: 61.16, Cosmos Impact factor: 3.562, IP indexing Impact factor: 4.08, Global Impact factor: 0.437. 2018
13. Singh, T. and **Wahla, V.** (2018). Gc-Ms analysis of antifungal compound derived from soil actinobacterial. International Journal of Pharmacy, ISSN:2230-8407, Indexed in CAS, Google Scholar, EBSCO, HINARI, DRJI, INNOSPACE, SJIF, PBN, iNFOBASE Index, ESJI, Cosmos IF, ICMJE, OAJI.net, I2OR, IJIF, ROOT Indexing, SIS, Index Copernicus Value: 79.3, JIF: 0.46*, Global Impact factor: 2.142. 2018
14. **Wahla, V.** and Garima Verma. (2018). Probiotic hold promises for glowing and healthy skin, International Research Journal of Pharmacy and Biological Sciences, ISSN(E): 2330-7605, ISSN(P): 231-3272, IF-0.888. 2018
15. **Wahla, V.** and Shukla S. (2019). Influence of different sterilising method on isolation of endophytic bacteria from *Rauvolfia serpentine*, The Pharma Innovation, ISSN-2277-7695, NAAS Rating: 5.03, Indexed in CAS, Index Copernicus International, Google Scholar HINARI(WHO), IAS, IF:0.8. 2019
16. **Virk, V.,** Verma G. and Ram C. (2021). Antimicrobial Peptide: An Emerging Category in Food Industries, Annals of the Romanian Society of Cell Biology, ISSN: 1583-6258, Indexed in SCOPUS, IF: 0.185. 2021
17. **Virk, V.,** Deepak H. and Taneja K. (2021). Endophytic Fungi: Futuristic Tool for Bioremediation, Journal of Natural Remedies, ISSN: 2320-3358, Indexed in SCOPUS, WOS, PubMed, UGC Care list group 2 (SCOPUS source list), IF: 0.5. 2021
19. Verinder Virk, Garima Verma And Chand Ram. Production, purification and characterization of bacteriocin produced by novel *L. pentosus* MW857478 for enhancement of food safety and shelf life of paneer, Indian Journal of Forensic Medicine and Toxicology, ISSN: 0973-9122, Indexed in SCOPUS. 2022
20. Verinder Verma and Garime Verma. Screening and evaluation of bacteriocin producing *L. planatum* and *L. pentosus* against food borne pathogenic bacteria isolated from raw milk of cow and goat from northern region of India, Asian Pacific Journal of Health Sciences, ISSN: 2346-0659, Indexed In UGC. 2022

21. Trepti Singh, Verinder Virk, Destructive mycolytic suppression of *Fusarium oxysporum* causing wilt in chickpea by fungicide tolerant actinobacteria, *Environmental Sustainability*, eISSN: 2523-8922 **2022**
22. Himani Deepak and Verinder Virk. Optimization of surface sterilization method for the isolation of endophytic fungi associated with *Curcuma longa* L. and their antibacterial activity. *Journal of advanced biotechnology and experimental therapeutics*, eISSN: 2616-4760. **2022**

BOOK CHAPTERS EDITED

- | S.No. | Topic | Year |
|--------------|---|-------------|
| 1. | Maheshwari, D. K., Shukla, S. Aeron, Kumar, A. T., Jha, C. K., Patel, D., Saraf, M. and Wahla, V. (2013). Rhizobacteria for Management of Nematode Disease in Plants Bacteria in Agrobiolgy: Disease Management. Springer- Verlag Berlin Heidelberg.379-404. ISSN-978-3-642, Scopus indexed. | 2013 |
| 2. | Wahla, V. and Shukla, S. (2018). Role of microorganism in bioremediation of pesticide: Handbook of Research on Microbial Tools for Environmental Waste Management. IGI Global. 164-165, ISBN: 978-1-525-3540-9. | 2018 |
| 3. | Verinder Virk and Garima Verma (2021). Economic importance of microorganisms in dairy products. <i>Microbes-fermented foods and human health</i> , ISBN: 978-93-90627-15-8 | 2021 |

RESEARCH CONTRIBUTIONS

- RESEARCH PAPER PUBLISHED- 22
- BOOK CHAPTER EDITTED- 03
- PARTCIPATION IN SEMINAR AND CONFERENCES - 26
- WORKSHOP ATTENDED-12

CITATION INDICES

Citations: 421

h-index: 6

i-10 index: 4

RESEARCH GUIDANCE

- M.Sc. Dissertation – 11
- Pursuing Ph.D students- 04

- Ph.D awarded- 02

LIST OF PH.D STUDENTS

S.No.	Name	Registration no.	Topic	Published papers	Status
1.	Trepti Singh	14069	Assessment of Rhizospheric Actinobacteria Showing Wilt Suppression Caused by <i>Fusarium oxysporum</i> in <i>Cicer arietinum</i> L. and <i>Lens culinaris</i> Medik.	4	Awarded
2.	Shruti Shukla	14004	Efficacy Of Endophytic Bacteria To Promote Plant Growth And Biological Activities Of <i>Andrographis paniculata</i> Nees.	5	Awarded
3	Garima Verma	17042	Biopreservation potential of <i>Lactobacillus</i> sp. For enhancement of food safety and shelf life of Paneer	3	—
4	Himani Deepak	18009	Assesment of Antimicrobial, Antioxidant, Antidiabetic and Immunomodulatory properties of endophytic fungi isolated from <i>Curcuma longa</i> L.	1	—
5	Khushbu Taneja	18010	Evaluation of some thrauptic activites of endophytic fungi isolated from <i>Aloe vera</i> L.	—	—

6	Rishita Srivastava	19021	Synthesis of silver nanoparticles from rhizobacteria isolated from <i>Solanum tuberosum</i> and their effect on <i>Alternaria solani</i> .	-	-
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Dr. (Mrs.) Verinder Virk

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