



**Curriculum-vitae
of
Dr. Verinder Virk**

Contact

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Google Scholar <https://scholar.google.com/citations?user=dcym2scAAAAJ&hl=en>

Areas of Specialization

Agricultural Microbiology, Molecular Microbiology, Microbial Genetics & Genomics, Molecular Microbiology, Microbial Pathogenesis, Environmental Microbiology, Medical Microbiology & Immunology, Antimicrobial Resistance, Microbial Ecology & Evolution, Microbial Biotechnology, Virology, Bacterial/Fungal/Parasitic Pathogens, Microbial Biochemistry, Infectious Disease Research, Advanced Laboratory Techniques (PCR, Microscopy, Culture Methods), Bioinformatics & Data Analysis in Microbiology, Teaching & Curriculum Development in Microbiology

Education

Ph.D in Microbiology (2007) under the 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 an (ad-hoc) Microbiology Lecturer at Kanya Gurukul Mahavidyalaya, Haridwar from 2004 till 25th March 2011.

IMPROVEMENT OF PROFESSIONAL COMPETENCE

UGC-sponsored orientation course attended at the University of Jammu, Jammu from 10/1/2013 to 8/12/2013.

Refresher course attended in ASC- GNDU, Amritsar from June 5, 2014- JUNE 25, 2014. The refresher course was attended at HRDC, Punjabi University, Patiala (Punjab) from Dec. 1, 2018, to Dec. 21, 2018.

LIFE MEMBERSHIP OF PROFESSIONAL BODIES.

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

ACADEMIC AND RESEARCH CONTRIBUTIONS

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

Presented paper in National Seminar on Global Warming: Its Impact on Environment, Economy & Politics at S.M.J.N. (P.G.) College Haridwar sponsored by UCOST Dehradun & DRDO, New Delhi, 27th-28th December 2008.

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 organized by Deptt of Foreign Affairs & International Trade, Government of Canada, Canada, 21st-23rd October 2010.

I presented a paper at the International Conference on Global Climatic and Biodiversity Conservation at the Department of Zoology and Environmental Sciences, GKV Haridwar organised by the World Congress for Man and Nature (WCMAN), 11th-13th November 2011.

Member and presented a paper at the International Conference on Green Technologies For Environmental Rehabilitations (GTER) at the Faculty of Engineering Technology, Gurukul Kangri University, Haridwar, Uttarakhand, 11th-13th February 2012.

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.

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.

Co-Chairperson and presented a paper at the 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.

Presented paper at 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.

Presented paper at 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.

Presented paper at National Conference on “Science & Technology for Indigenous 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.

Presented paper at National Conference on “Science & Technology for National Indigenous Development” at Department of Chemistry, Gurukul Kangri University, Haridwar organised by The Indian Science Congress Association Haridwar Chapter, 20th-22nd November 2016.

Presented paper at 3rd International Conference on Science, Technology and Management at India International Centre, New Delhi, India, 17th January 2016

Presented paper at 4th International Conference on Science, Technology and Management, New Delhi, 15th May 2016.

Presented paper in International Journal of Advanced Technology in Engineering and Science, 5th May 2016

Presented paper at 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.

Presented paper at 3rd International Conference on the latest concept in Science, technology, Management, and Humanities (ICLCSTMH) at Gwalior Institute of Information Technology, Gwalior, M. P. India, 17th December 2017.

Presented a paper at the International Conference on Advances and Innovations in Agriculture & Allied Sciences (AIAAS-2020) organized by the Society for Agriculture & Allied Research (SAAR) at Jawaharlal Nehru University Convention Centre, New Delhi, India, 31st January-01st February 2020.

Exploring the antidiabetic potential of endophytic fungi isolated from *Curcuma longa* L. from the Haridwar region of Uttarakhand, India. National Himachal Institute of Pharmacy Paonta Sahib, Distt. Sirmour H.P., 15th February, 2023.

Green Tea: Biochemical Processes and Health Benefits National Dept. of Chemistry, Dept. of Physics, Dept. of Ancient Indian History, Culture and Archaeology, Gurukula Kangari (Deemed to be University) Haridwar, 19th March 2023.

International Conference on " Microbial Innovation for Synergistic Advancements " organized by the Department of Microbiology, Sardar Bhagwan Singh University Balawala, Dehradun, on September 17-18, 2024 **"Isolation and characterization of *Burkholderia dolosa* solanum lycopersicum rhizosphere: phosphate solubilization siderophore production.** September 17-18, 2024

Bioavailability in Tomato (*Solanum lycopersicum* L.) **Rhizospheres: Isolation, Characterization, and Efficacy of Siderophore-Producing Rhizobacteria**” Advances in Agriculture, Engineering, Applied & Life Sciences for Environmental Sustainability (RAAEALSES-2024)” organized by School of Applied and Life Sciences & School of Agriculture, Uttaranchal University, Dehradun, Uttarakhand, India &

AWARD

Best Scientist award in Microbiology-2024” Advances in Agriculture, Engineering, Applied & Life Sciences for Environmental Sustainability (RAAEALSES-2024)” organized by School of Applied and Life Sciences & School of Agriculture, Uttaranchal University, Dehradun, Uttarakhand, India & Agro Environmental Development Society (AEDS) Rampur, U.P. India. 2024

WORKSHOP PARTICIPATION

Solid Waste Management at Deptt. of Zoology and Environmental Sciences, GKV Haridwar sponsored by Forest and Environment Ministry, New Delhi, 10th April.

Molecular & Applied Microbiology at Deptt. of Botany & Microbiology, GKV, Haridwar, 10th-19th February.

Microbial Fermentation & Microbial Inoculants Preparation of Organic Farming at Deptt. of Botany & Microbiology, GKV Haridwar, 6th-1st February.

Teaching Methods in Yoga at Deptt. of Human Consciousness & Yogic Science, GKV Haridwar, 12th-13th March.

Advanced Microbiological Techniques in Pharmaceutical Industries at Deptt. of Botany & Microbiology, GKV Haridwar, 06th October.

Patents & Intellectual Property Rights at FMS, GKV Haridwar organised by Uttarakhand State Council of Science & Technology (UCOST) & IPR cell GKV Haridwar, 7th Feb.

UGC- Sponsored Short Term course on Soft Skills and Creative writings at Guru Nanak Dev University, Amritsar, 4th-10th October.

Workshop on SAKSHAM-IT Champion Training Program at Gurukul kangri University, Haridwar, 22nd-23rd September

UGC- Sponsored Short Term course on MOOCs and OER at Kumaun University, Nanital, Uttarakhand, 8th- 14th June.

Workshop on Academic writing skill and publication at kanya Gurukul campus, GKV, Haridwar, 20th April.

ORGANISATION

Organizing secretary of Laboratory Diagnosis of Microbial Infections at Deptt. of Botany & Microbiology, GKV Haridwar, 24th October

Organizing secretary of Hands-on Training on Molecular and Microbiological Techniques at the Deptt. of Botany & Microbiology, GKV Haridwar, 9th-10th March.

Organizing secretary in National Conference on 'Microbial Inoculants for Agriculture and Environmental Sustainability' at Deptt. of Botany & Microbiology GKV, Haridwar, Uttarakhand, 28th-30th September.

PUBLICATIONS

<u>Application of Nanotechnology in Food Science: Perception and Overview</u>	<u>706</u>
T Singh, S Shukla, P Kumar, VVKB Wahla	
Frontiers in Microbiology	
<u>Application of nanotechnology in food science: perception and overview. Front Microbiol 8: 1501</u>	<u>34</u>
T Singh, S Shukla, P Kumar, V Wahla, VK Bajpai, IA Rather	
<u>Rhizosphere competent <i>Pseudomonas aeruginosa</i> in the management of <i>Heterodera cajani</i> on sesame</u>	<u>32</u>
T Kumar, V Wahla, P Pandey, RC Dubey, DK Maheshwari	
World Journal of Microbiology and Biotechnology 25, 277-285	
<u>Nematicidal fluorescent pseudomonads for the <i>in vitro</i> and <i>in vivo</i> suppression of root knot (<i>Meloidogyne incognita</i>) of <i>Capsicum annuum</i> L.</u>	<u>23</u>
V Wahla, DK Maheshwari, VK Bajpai	
Pest management science 68 (8), 1148-1155	
<u>Corrigendum: Application of nanotechnology in food science: Perception and overview</u>	<u>20</u>
T Sing, S Shukla, P Kumar, V Wahla, VK Bajpai, IA Rather	
Frontiers in Microbiology 8, 2517	
<u>Rhizobacteria for management of nematode disease in plants</u>	<u>12</u>
DK Maheshwari, S Shukla, A Aeron, T Kumar, CK Jha, D Patel, M Saraf, ...	
Bacteria in agrobiolgy: disease management, 379-404	
<u>Role of microorganisms in bioremediation of pesticides</u>	<u>9</u>
V Wahla, S Shukla	
Handbook of research on microbial tools for environmental waste management ...	
<u>Amelioration in nanobiosensors for the control of plant diseases: current status and future</u>	<u>6</u>

[challenges](#) V Virk, H Deepak, K Taneja, R Srivastava, S Giri

Frontiers in Nanotechnology 6, 1310165

6

[Influence of different sterilizing methods on isolation endophytic bacteria from Rauvolfia serpentina](#)

S Shukla, V Wahla

The Pharma Innovation Journal 8, 38-41

6

[GC-MS ANALYSIS OF ANTIFUNGAL COMPOUNDS DERIVED FROM SOIL](#)

[ACTINOBACTERIA](#)

T Singh, V Wahla

INTERNATIONAL RESEARCH JOURNAL OF PHARMACY 2 (9), 4

5

[Optimization of surface sterilization method for the isolation of endophytic fungi associated with](#)

[Curcuma longa L. and their antibacterial activity](#)

H Deepak, V Virk

Journal of Advanced Biotechnology and Experimental Therapeutics 5 (2), 334-346

5

[Plant growth promoting endophytic bacteria: Boon to agriculture](#)

V Wahla, S Shukla

Environment Conservation Journal 18 (3), 107-114

3

[Microbial Assessment of Some Common Indian Brands of Talcum Powder](#)

V Wahla

International Journal for Pharmaceutical Research Scholars 4 (2), 296-300

2

[Isolation and characterization of Bacterial Contaminants of Salad Vegetables](#)

V Wahla

International journal for pharmaceutical research scholars 4 (2), 283-289

1

[Synergistic interaction of Curcuma longa with its microbiome: a mini review](#)

V Virk, H Deepak, K Taneja

Journal of Postharvest Technology 11 (1), 16-24

1

[Production, Purification and Characterization of Bacteriocin Produced by Novel L.](#)

[PentosusMW857478 for Enhancement of Food Safety and Shelf-Life of Paneer.](#)

V Virk, G Verma, C Ram

Indian Journal of Forensic Medicine & Toxicology 16 (1)

1*

[Antimicrobial Peptide: An Emerging Category in Food Industries](#)

CR Verinder Virk, Garima Verma

**CHARACTERIZATION OF MULTIPLE PLANT GROWTH PROMOTION TRAITS OF
ENDOPHYTIC BACTERIA ISOLATED FROM CATHRANTHUS ROSEUS**

V Wahla, S Shukla

INDO AMERICAN JOURNAL OF PHARMACEUTICAL SCIENCES 5 (01), 169-173

**SCREENING AND CHARACTERIZATION OF ACTINOBACTERIA FROM SOIL FOR THEIR
ANTIFUNGAL ACTIVITY AGAINST FUSARIUM OXYSPOURUM**

V Wahla, T Singh

Advances in Pharmacology and Toxicology 18 (2), 11

**Next generation bioactive applications of Bacillus flexus by synthesized silver nanoparticles: A
detailed investigation.**

R Srivastava, V Virk

Environment Conservation Journal 25 (4)

**Quantitative profiling of bacteriocin present in dairy probiotics preparation of Lactobacillus
pentosus by liquid chromatography mass spectrometry**

G Verma, V Virk

Journal of Postharvest Technology 10 (4), 26-33

**Screening and Evaluation of Bacteriocin Producing L. planatrum and L. pentosus Against Food
Borne Pathogenic Bacteria Isolated from Raw Milk of Cow and Goat from Northern ...** V Virk, G
Verma, C Ram

PROBIOTIC HOLD PROMISES FOR GLOWING AND HEALTHY SKIN

V Wahla, G Verma

INTERNATIONAL JOURNAL OF PHARMACY AND BIOLOGICAL SCIENCES 8 (3), 414-418

Isolation of phosphate solubilizing microorganisms from rhizosphere of sugarcane.

V Wahla, S Shukla

Environment Conservation Journal 18 (3), 75-78

Studies Based on the Fungal Flora of Indian Currency

V WAHLA, S RANI

**Management of Root knot nematode Meloidogyne incognita on chilli (Capsicum annum) through
Pseudomonas aeruginosa VP1**

V Wahla

JOURNAL OF SUSTAINABLE ENVIRONMENTAL RESEARCH 1 (1), 15-21

ECONOMIC IMPORTANCE OF MICROORGANISM IN DAIRY PRODUCTS

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.

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.

Virk, Srivastana and Giri, "TRANSFORMATIVE TECHNOLOGIES IN AGRICULTURE: THE RISE OF AI, AUTOMATION, AND NANOTECH IN FOOD PRODUCTION", Futuristic Trends in Agriculture Engineering & Food Sciences Volume 3 Book 3, IIP Series, Volume 3, May 2024, Page no.231-238, e-ISBN: 978-93-5747-402
<https://www.doi.org/10.58532/V3BCAG3CH15>

Verinder Virk and Garima Verma (2021). Economic importance of microorganisms in dairy products. Microbes-fermented foods and human health, ISBN: 978-93-90627-15-8

Virk, V., Deepak, H., & Taneja, K. (2021). Endophytic fungi: futuristic tool for bioremediation. *J Nat Remedies*, 21(12), 1.

RESEARCH CONTRIBUTIONS

RESEARCH PAPER PUBLISHED- 27

BOOK CHAPTER EDITED- 05

PARTICIPATION IN SEMINAR AND CONFERENCES - 23

WORKSHOP ATTENDED-12

CITATION INDICES

(According to Google Scholar)

- CITATION INDEX-874
- H INDEX- 7
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RESEARCH GUIDANCE

- M.Sc. Dissertation – 12
- Pursuing Ph.D students- 02
- Ph.D awarded- 05

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.	3	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	Bio-preservation potential of <i>Lactobacillus</i> sp. For enhancement of food safety and shelf life of Paneer	4	Awarded
4	Himani Deepak	18009	Assessment of Antimicrobial, Antioxidant, Antidiabetic, and Immunomodulatory properties of endophytic fungi isolated from <i>Curcuma longa</i> L.	3	Awarded
5	Khushbu Taneja	18010	Evaluation of some theraupctic activites of endophytic fungi isolated from <i>Aloe vera</i> L.	3	Awarded
6	Rishita Srivastava	19021	Synthesis of silver nanoparticles from rhizobacteria from <i>Solanum tuberosum</i> and their effect on <i>Alternaria solani</i> .	3	Pursuing
7	Sadhana Giri	22018	Role of Plant Growth Promoting Rhizobacteria on Growth and Rhizospheric Bacterial Community of <i>Solanum lycopersicum</i> L.	-	Pursuing