

CURRICULUM VITAE

Dr. Vivek Kumar Kedia

Assistant Professor

Department of Botany

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Educational Qualifications:

- **Ph.D.** in Botany (2010) entitled, “Investigations on screening and characterization of an antibacterial compound, a phytohormone (IAA) and extracellular protease of *Thermoactinomyces vulgaris* Tsiklinsky” under the guidance of Prof. Ved Pal Singh, in the field of Applied Microbiology & Biotechnology from University of Delhi, Delhi – 110 007.
- **B.Ed.** (2003) with 67 %. VBS Purvanchal University (U.P.)
- **M.Sc.** in Botany (2002) with 70 %. VBS Purvanchal University (U.P.)
- **B.Sc.** (2000) with Botany, Chemistry and Zoology securing 63.5%. University of Allahabad (U.P.)
- **A.I.S.S.C.E.** (1996) with English, Hindi, Biology, Chemistry and Physics securing 68 % (C.B.S.E)
- **A.I.S.S.E.** (1994) with English, Hindi, Science, Math and Social Science securing 69 % (C.B.S.E)

Academic Achievement:

- Qualified **CSIR-UGC (NET)** conducted by CSIR for **Junior Research Fellowship (JRF)** and eligibility for **Lectureship**, held in June, 2003.
- Participated in UGC sponsored **Orientation Programme** conducted by HRDC, Banaras Hindu University, Varanasi - 221005 from 1st Sept. to 28th Sept. 2017, completed with ‘A’ grade.
- Participated in UGC sponsored **Refresher Course** conducted by HRDC, Himachal Pradesh University, Shimla – 171005 from 3rd Sept. to 22nd September, 2018, completed with ‘A’ grade.
- Participated in UGC sponsored Online **Refresher Course** conducted by HRDC, Panjab University, Chandigarh – 160014 from 16 to 30 November, 2021, completed with ‘A’ grade.
- Participated in UGC sponsored Online **Refresher Course** conducted by HRDC, Guru Ghasidas University, Bilashpur (C.G.) – 495009 from 12 to 25 January, 2023, completed with ‘A’ grade.

Teaching Experience:

- Presently teaching as an **Assistant Professor (Botany)** from 1st Nov. 2014 in Higher Education Department of Uttarakhand Government.
- Taught as a **Contract Lecturer in Department of Botany, LSM Govt. P.G. College, Pithoragarh**, Uttarakhand from 30th Sept. 2010 to 31st Oct. 2014 as a Contract Lecturer.
- Taught as a **Guest Lecturer in Department of Botany, Shivaji College, University of Delhi, Delhi -110 027** from February 3, 2010 to September 29, 2010.

Publications:

1. **Kedia, V.K.** et al., 2023. An update on *Thermoactinomyces vulgaris* – 100 years and after: historical, biological and phylogenetic aspect. Under Communication
2. **Kedia, V.K.**, Sharma, M. and Kumar, S. 2023. *Pseudomonas* sp.: A promising biocontrol agent against selected phytopathogens. *Journal of Mountain Research* **18(1)**: 245-255. [ISSN: 2582-5011]
3. **Kedia, V.K.** and Singh, V.P. 2020. Mn²⁺ - dependent thermophilic protease of *Thermoactinomyces vulgaris* Tsiklinsky. *Annals of R.S.C.B.* **24(2)**: 2101-2113. [ISSN: 1583-6258]
4. Chandra, J., Joshi, H., Bahuguna, P., **Kedia, V.K.**, Kumar, R. and Kumar, R. 2016. Behavioral effects of high altitude medicinal plant in rats. *Scholars Academic Journal of Pharmacy* **5(9)**: 377-382. [ISSN: 2347-9531]
5. Kumar, S., Joshi, H., Chandra, J., Bahuguna, P., **Kedia, V.K.** and Kumar, R. 2015. Effect of *Allium stracheyi* on behavior of zebrafish: a pharmacological approach. *Scholars Journal of Applied Medical Sciences* **3(9)**: 3356-3363. [ISSN: 2320-6691]
6. Chandra, J., Joshi, H., Bahuguna, P., **Kedia, V.K.** and Kumar, R. 2015. Anti-stress effect of *Centella asiatica* in rats. *Scholars Academic Journal of Biosciences* **3(8)**: 668-675. [ISSN: 2347-9515]
7. **Kedia, V.K.** and Singh, V.P. 2013. Antimicrobial activity of *Thermoactinomyces vulgaris* against some selected bacteria and fungi. *Phytomorphology* **63(1&2)**: 73-80. [ISSN: 0031-9449]
8. **Kedia, V.K.**, Laisram, N. and Singh, V.P. 2011. Screening and optimization of IAA production in an obligate thermophile – *Thermoactinomyces vulgaris*. *Phytomorphology* **61(1&2)**: 9-16. [ISSN: 0031-9449]
9. Singh, V.P., **Kedia, V.K.** and Mohanta, H.S. 2007. Differential expression of thermophilic phosphatases in the wild-type and auxotrophic mutant strains of *Thermoactinomyces vulgaris*. *Indian Journal of Microbiology* **47**: 81-85. [ISSN: 0973-7715]
10. Singh, V.P., Singh, A., **Kedia, V.K.** and Laisram, N. 2006. *Thermoactinomyces vulgaris* as a causal agent of Farmer's Lung Disease. *Indian Journal of Aerobiology* **19(1)**: 1-11. [ISSN: 1573-3025]

Chapters in Book:

1. Sharma, M., Datta, R., **Kedia, V.K.** and Brtnicky, M. 2021. Microbial Potential for Carbon Fixation and Stabilization. In: R. Datta and RS Meena (ed), *Soil Carbon Stabilization to Mitigate Climate Change*. Springer Nature Singapore Pte Ltd. 125-168. [ISBN: 978-981-33-6764-7]
2. **Kedia, V.K.**, Punetha, R. and Bhakuni, K. 2015. Comparative Study on Antimicrobial Activity of two Edible Ferns: *Diplazium esculantum* and *Diplazium maxicum*. In: Rakesh Kumar (ed), *Ethnopharmacology – Indian Trends, Perspectives and Innovations*. Radha Publications, New Delhi. 131-134. [ISBN: 978-81-7487-947-9]
3. **Kedia, V.K.**, and Singh, V.P. 2013. Secondary Metabolites of Microbes are Key Elements of Biodiversity. In: R.A. Singh (ed), *Geology, Biodiversity and Natural Resources of Himalayas*. New Delhi. 207-218. [ISBN: 978-93-8271-40-9]

Presentations:

1. M. Sharma, **Kedia, V.K.**, Kumar, S. and Vats, A. 2023. Microbial Factories for Sustainable Biofuel Production and Climate Change. PPT Presentation, In: 4th International Conference on “Environmental, Agricultural, Chemical and

- Biological Sciences” during May 13-14, 2023, organised by VOICE, AIITE, Department of Biotechnology and Somnogen Canada Inc., Toronto.
2. **Kedia, V.K.** 2022. Role of Skill Enhancement course “Biofertilizers” in Youth Empowerment. Abstract Publication, In: National Seminar on “Youth empowerment through entrepreneurship and skill development” during 25-26 November, 2022 at DU Govt. Degree College Narendra Nagar (T.G.).
 3. **Kedia, V.K.** 2022. Mechanism of Biological Nitrogen Fixation. Online Invited Lecture, In: Invited Lecture Series on Biological Science ILSBS:2022 (I), organised by Govt. PG College Bazpur (UK) and Swami Shukhdevanand College Shahjahanpur (UP) on March 5, 2022.
 4. **Kedia, V.K.** 2022. Biocontrol prospective of *Pseudomonas* sp.: A sustainable way to manage plant diseases. Oral Presentation, In: National Symposium on “Recent trends in phytopathology to address emerging challenges for achieving food security” during 21-22 February, 2022 at ICAR- Vivekanand Parvatiya Krishi Anusandhan Sanathan, Almora, Uttarakhand.
 5. **Kedia, V.K.** 2021. Microbes in sustainable development. Poster Presentation, In: 6th Annual International Conference of INSCR from 15-18 November, 2021.
 6. **Kedia, V.K.** 2018. Role of microbes in development of the Himalaya. Paper Presentaion, In: National Conference on “Environment Resources and Development of the Indian Himalaya” during 25-27 October, 2018 at HNB Garhwal University, Srinagar, Uttarakhand.
 7. **Kedia, V.K.** and Sharma, M. 2015. Impact of global climate change on agriculture and food security. Abstract publication, In: National Conference, 02-03 March, 2015, organized by Department of Botany, Deen Dayal Upadhyaya College, University of Delhi, New Delhi.
 8. **Kedia, V.K.** and Singh, V.P. 2013. Studies on extra-cellular protease of *Thermoactinomyces vulgaris*. Presented a paper, In: National Conference, 01-03 March, 2013, organized by Department of Zoology, LSM Govt. PG College, Pithoragarh, Uttarakhand.
 9. **Kedia, V.K.** and Singh, V.P. 2012. Mn²⁺ dependent thermophilic protease of *Thermoactinomyce vulgaris* Tsiklinsky. Abstract publication, In: International Conference, 26-27 December, 2012 held at PUSA, New Delhi.
 10. **Kedia, V.K.** and Singh, V.P. 2012. Secondary metabolites of microbes are key elements of biodiversity. Abstract publication, In: National Conference, 14-15 October, 2012 held at LSM Govt. PG College, Pithoragarh, Uttarakhand.
 11. **Kedia, V.K.**, Laisram, N. and Singh, V.P. 2011. Differential expression of protease in the wild-type and auxotrophic mutant strains of *Thermoactinomyces vulgaris*. Abstract publication, In: 98th Indian Science Congress, 3-7 January, 2011 held at SRM University, Chennai.
 12. Singh, V.P., Singh, I., Kumar, A., Kumar, R., **Kedia, V.K.** and Laisram, N. 2010. Screening of plant extracts for antimicrobial activities and their effects on aflatoxin production. Abstract publication, In: International Conference, 26-28 November, 2010 held at Chennai Trade Centre, Chennai.
 13. **Kedia, V.K.**, Laisram, N., Kumar, A. and Singh, V.P. 2010. Production of Indole-3-acetic acid (IAA) by a thermophilic bacterium – *Thermoactinomyces vulgaris*. Presented a paper, In: National Symposium on Biodiversity, Biotechnology and Man: Interdependence and Future Challenges, 26-28 March, 2010 held at Govt. PG College, (HNBGU) Lansdowne, Pauri Garhwal, Uttrakhand.
 14. Laisram, N., **Kedia, V.K.**, Kashyap, M. and Singh, V.P. 2010. Biocontrol potential of *Pseudomonas fluorescense* against *Fusarium* spp. Participated in the poster presentation, In: National Symposium on Biodiversity, Biotechnology and

- Man: Interdependence and Future Challenges, 26-28 March, 2010 held at Govt. PG College, (HNBGU) Lansdowne, Pauri Garhwal, Uttarakhand.
15. **Kedia, V.K.** and Singh, V.P. 2008. Screening of wild-type and mutant strains of *Thermoactinomyces vulgaris* for their antimicrobial activities. Presented a paper, In: XXXI Annual Conference of Indian Botanical Society and International Symposium on Plant Biology and Environment: Changing Scenario, 17-19 December, 2008, organized by University of Allahabad, Allahabad.
 16. **Kedia, V.K.**, Laisram, N., Singh, A. and Singh, V.P. 2008. Antimicrobial activity of a thermophilic prokaryote-*Thermoactinomyces vulgaris* against some selected bacteria and fungi. Presented a poster, In: First Indo-Danish DU-SDU Seminar, 17-18 March, 2008, organized by Department of Chemistry, University of Delhi and Department of Physics & Chemistry, University of Southern Denmark.
 17. Singh, V.P., Mohanta, H.S. and **Kedia, V.K.** 2005. Strain specificity of phosphatases of an obligately thermophilic actinomycete *Thermoactinomyces vulgaris*. Participated in the poster presentation, In: International Conference on Microbial Diversity, April, 2005 held at the University of Delhi South Campus, New Delhi.

E-content Development:

1. Prepared **One Unit** of paper – III for **B.Sc. III year** named “**Plant Physiology and Biochemistry**” of Botany Programme for Uttarakhand Open University, Haldwani – 263139.
2. Prepared **One Unit** of paper – IV for **B.Sc. III year** named “**Laboratory Course-III**” of Botany Programme for Uttarakhand Open University, Haldwani – 263139.

Workshops/Training Programme:

1. Participated in an Online International Conference cum Workshop on “**Proteomics, Transcriptomics and Molecular Drug Design: An Integrated Omics Approach**” 25-27 May, 2022 organised by Department of Botany, Zakir Husain Delhi College, University of Delhi.
2. Participated in One Day Workshop on “**Application of Remote Sensing and GIS for Disaster Management in Uttarakhand**”, organized by Uttarakhand Space Application Centre, Dehradun on 31st August, 2019.
3. Participated in Orientation Cum Capacity Building Workshop on “**Functioning of Study Centres/Learner Support Centres in Open and Distance Learning Mode of Education**”, August 2, 2019 organized by Directorate of Regional Services (RSD), Uttarakhand Open University, Haldwani (Nainital).
4. Participated in Short Term Training Program on “**Computational Techniques in Research Methodology for Sciences and Social Sciences**”, July 25-31, 2019 organized by Faculty Development Centre, HNB Garhwal University and sponsored by PMMMNTT Scheme of MHRD, Govt. of India.
5. Participated in One Day Workshop on “**NAAC Accreditation Process**”, 28th December, 2018 organized by Dr. PDBH Govt. PG College, Kotdwar, Pauri – 246149.
6. Participated in one week Faculty Development Program (FDP) on “**Environment Sustainability and Higher Education**”, 04-11th June, 2018 organized by Internal Quality Assurance Cell (IQAC) and Faculty of Science, Dyal Singh College, University of Delhi and sponsored by Ministry of Environment, Forests and Climate Change, Govt. of India.

7. Participated as a **Resource Person** in **Teaching Training Programme of Biology**, 04-15th August, 2014 organized by C.T.E., B.Ed. Department, LSM Govt. PG College, Pithoragarh, Uttarakhand.
8. Participated in one day regional workshop on “**Conservation & Promotion of Medicinal Plants**”, 17th October, 2014 organized by LSM Govt. PG College, Pithoragarh, Uttarakhand and sponsored by Ministry of Environment & Forests, Govt. of India.
9. Participated in regional workshop on “**Land Degradation and Biodiversity**”, 19th July, 2013 organized by LSM Govt. PG College, Pithoragarh, Uttarakhand and sponsored by Ministry of Environment & Forests, Govt. of India.
10. Participated in **Brain Awareness Programme**, 09th April, 2012 organized by Department of Zoology, LSM Govt. PG College, Pithoragarh and sponsored by NBRC, Gurgaon (HR).
11. Presented a **Lecture** on *Environmental Microbiology: An Introduction* in regional workshop on “**Microbiology: Let us observe and learn**”, 14-16th November, 2011 jointly organized by Department of Zoology, LSM Govt. PG College, Pithoragarh and People’s Association of Hill Area Launchers (PAHAL), Pithoragarh, Uttarakhand, funded by Department of Science and Technology (DST), New Delhi.

Extra – Curricular Activities:

- Contributed as a **Co-Organizing Secretary** in **Prof. B.N. Dhawan Memorial Online Lecture Series** on “Recent Developments in Health and Disease” organized by the Department of Zoology, Pt. LSM Govt. PG College (SDS University Campus) Rishikesh, from 22 Nov. 2020 to 07 Feb. 2021.
- Contributed as a **Treasurer** in **National Conference** on “Innovations in Ethnopharmacology, Recent Developments in Biological and Chemical Sciences for Societal Benefits” from March 1-3, 2013 organized by Department of Zoology, LSM Govt. PG College, Pithoragarh, Uttarakhand.
- Contributed as **Repertoire** in the Technical Session: “Demographical Profile, Biodiversity, Socio-cultural Dynamics” during the National Seminar, March 20-22, 2013 held at Pithoragarh, Uttarakhand.
- Contributed as one of the student editors in the **Botanica Vol. 57**, 2009.
- Member of Organizing Committee of **National Seminar** on “**Relevance of Botany in the Conservation and Improvement of Plants**”, February 8-9, 2006 held at University of Delhi, Delhi – 110007.
- Received a Certificate of Appreciation for being Ph.D. class representative in the executive committee of **DUBS** (Delhi University Botanical Society), 2005-2006.
- Life member of **The International Society of Plant Morphologists** and **DUBS** (Delhi University Botanical Society, Delhi) and **Indian Network for Soil**, INSCR (LM No. 2021-171).
- Annual member of **ISC** (Indian Science Congress, Kolkata) from 2005 to 2008 and **IBS** (Indian Botanical Society, Jaipur) from 2005 to 2008.

Personal Information:

- **Father’s Name:** Mr G.D. Kedia
- **Mother’s Name:** Late Mrs Krishna Kedia
- **Date of Birth:** 10th September, 1979
- **Permanent Address:** Dr. Vivek Kumar Kedia
Ghorawal, Sonebhadra (UP) – 231 210