

CURRICULUM VITAE

Dr. Bilal Ahmad Wani

Assistant Professor- Environmental Science

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RESEARCH INTRESTS:

- *Herbal Technology, Antibiotic drug discovery*
- *Environmental Microbiology, Biodiversity Conservation*
- *Climate Change and Carbon Dynamics, Species Invasion*

CITATIONS:

Research Gate: <https://www.researchgate.net/profile/Bilal-Wani-2>

Google Scholar: <https://scholar.google.com/citations?hl=en&user=E2zLw4AAAAAJ>

EDUCATIONAL QUALIFICATION:

Degree	Subject/Title	Division	Year	University/ Institution
Postdoc	Effect of <i>Lantana Camara</i> on Carbon Sequestration and CO ₂ Efflux of Different Forest Types in Central India	--	2016	Sagar Central University
Ph. D	Phytochemical Analysis and Screening of Potential Biological Activities of <i>Gentiana kurroo</i> Royle- An Endemic Medicinal Plant of Kashmir Himalaya.	--	2014	Pondicherry Central University
NET	Environmental Sciences	Qualified	2013	UGC
NET	Environmental Sciences	Qualified	2013	ASRB
SET	Environmental Sciences	Qualified	2013	University of Kashmir
B. Ed	Bioscience	1 st	2011	University of Kashmir
M. Sc	Environmental Sciences	1 st	2008	University of Kashmir

AWARDS AND FELLOWSHIPS:

- Awarded with **Dr. D.S. Kothari Postdoctoral Fellowship** by University Grants Commission (UGC), New Delhi in 2016.
- Awarded with **Senior Research Fellowship** by Council of Scientific and Industrial Research (CSIR), New Delhi in 2013.
- Awarded with **Best poster presentation** at the Workshop on “*Sustainable utilization of medicinal and plants aromatic plants of Kashmir Himalayas in Regional Development*” Organized by Department of Botany University of Kashmir, 2011.
- Awarded with **University Grants Commission (UGC)** sponsored fellowship for entire Ph.D. project work from August-2009 to March-2013.

RESEARCH/TEACHING EXPERIENCE:

- **Research experience:** Six years.
- **Teaching experience:** Eight years of teaching experience at Master's and Bachelor's degree level, teaching Ecology, Environmental Science, Environmental Microbiology, Environmental Chemistry, Environmental Engineering and Remote Sensing as major subjects.

RESEARCH PUBLICATIONS:

1. **Bilal A. Wani.**, Ramamoorthy, D., Manzoor A.R, Arumugam, N., Asif, K.Q., Rabiya, M., Abid H., Showkat A.G., Bashir A.G., Rajneesh, A and Ajai P.G (2013). Induction of apoptosis in human pancreatic MiaPaCa-2 cells through the loss of mitochondrial membrane potential (Ψ_m) by *Gentiana kurroo* root extract and LC-ESI-MS analysis of its principal constituents. *Phytomedicine*, 20: 723– 733.(**IF: 3.34**)
2. **Bilal A. Wani.**, Ramamoorthy D., Akhter, H.M and Bashir A.G (2013). In Vitro Antibacterial Activity of Roots of *Gentiana kurroo* Royle against Human Pathogenic Bacteria. *European Journal of Medicinal Plants*,(**IF: 0.54**)
3. **Bilal A. Wani.**, Ramamoorthy, D., Khaleefa, A., Akhter, H.M and Bashir, A.G (2013). Antibacterial Activity of Aerial Parts of *Thymus serpyllum* Linn. Against Human Pathogenic Bacteria. *Int. Journal of Sci. Inv. Today*, 2(1): 78-85.(**IF: 0.25**)
4. **Bilal A. Wani.**, Ramamoorthy, D and Bashir A.G (2011). Preliminary phytochemical screening and evaluation of analgesic activity of methanolic extract of *Gentiana kurroo*

- Royle in experimental animal models. *Int. Journal of Pharmacy and Pharmaceutical Sci*, 3(4): 164-166.(**IF: 0.49**)
5. **Bilal A. Wani.**, Ramamoorthy, D., Manzoor, A.R., Bashir, A.G., Akbar, M., Zargar, M.A and Ishfak, H.W (2011). Headspace solid-phase microextraction (HS-SPME) Gas Chromatography Mass Spectrometric (GC-MS) analysis of the volatile aroma components of *Gentiana kurroo* Royle. *Journal of Pharmacy Research*, 4(9): 2943-2945.(**IF: 0.74**)
 6. Manzoor, A.R., Bilal, A.D., **Bilal A. Wani.**, Wajahat, A.S., Bilal, A.B., Bashir, A.G., Khurshid, A.B., Rajneesh, A and Mushtaq, A.Q (2012). Chemical composition, antioxidant and antibacterial activities of the leaf essential oil of *Juglans regia* L. and its constituents. *Phytomedicine*, 19: 1185-1190.(**IF: 3.34**)
 7. Rouf, H.B., Abdul, H.W., Bashir, A.G., **Bilal Ahmad Wani.**, Showkat, A.G (2012). Nutritional values and antioxidant potential of some edible mushrooms of Kashmir valley. *Pak. J. Pharm. Sci*, 25(3): 623-627.(**IF: 0.68**)
 8. Mudasir, Y., Khaleefa, A., **Bilal A. Wani.**, Nida, A., Nazir, A.D and Irshad, A.N (2012). In Vitro Antibacterial Activity and Phytochemical Studies of Methanolic Extract of Leaves of *Hypericum perforatum* L. Growing Wild in Kashmir Himalaya. *Asian Journal of Plant Science and Research*, 2(4): 414-420.(**IF: 0.67**)
 9. Majid Wani, Dil Afroze, Muzamil Makhdoomi, Iqra Hamid, **Bilal Wani**, Gulzar Bhat, Rauf Wani and Khursheed Wani (2012). Promoter Methylation Status of DNA Repair Gene (hMLH1) in Gastric Carcinoma Patients of the Kashmir Valley. *Asian Pacific Journal of Cancer Prevention*, Vol 13: 3557-3561.(**IF: 2.51**)
 10. Bilal Ahmad Baig, D. Ramamoorthy and **Bilal Ahmad Wani** (2014). Population status and conservation prioritization of some threatened medicinal plants of Kashmir Himalayas. *International Journal of Applied Biology and Pharmaceutical Technology*. Vol. 5 (4), Oct-Dec-2014.(**IF: 0.38**)
 11. Shayista Chishti, Phalestine Sultan, Zahoor A. Kaloo, **Bilal A. Wani** and Mudasir A. Sheikh (2014). Antibacterial activity and DPPH scavenging antioxidant potential in *Origanum vulgare* L. *Int.J.Adv. Res. Biol. Sci*; 1(4):15-21.(**IF: 0.60**)
 12. Nisar A, Akhtar N, Hassan A, Bandy T, **Wani B**, Zargar M A (2014). Effect of *Ajuga bracteosa* on Systemic T-Cell Immunity in Balb/C Mice: Dual Th1/Th2 Immunostimulatory Effects. *Am J Chin Med*. 42(2):375-92.(**IF: 2.95**)

13. Bilal A. Wani, Bashir A Ganie, and Muneer A Wani. (2015). Immunomodulatory activity of Methanolic extract of *Gentiana kurroo* Royle on Balb/C mice. *J. Himalayan Ecol. Sustain. Dev.* 10, 95-102.(IF: Nil).
14. Younus M. Tilwani, Bilal A. Wani", Magna Jom and Venkatesan Arul (2024). Preparation and physicochemical characterization of different biocomposite films blended with bacterial exopolysaccharide EPS MC-5 and bacteriocin for food packaging applications. Communicated in "International journal of biological macromolecules".

BOOKS AND BOOK CHAPTERS:

1. **Bilal A Wani**, Bashir A Ganai and Ramamoorthy, D (2016). Bioprospection of *Gentiana kurroo* Royle (Gentianacea)- An endemic medicinal plant of Kashmir Himalaya. *Lambert academic publishing*, Germany, ISBN: 9783659781476.
2. **Bilal A Wani**, Khan, M.L and Ganai, B.A. (2017). Free radical scavenging potential and anticancer activity of *Primula denticulata* Sm. form North-Western Himalayas. Accepted as book chapter in "Biotechnology for Sustainability–Achievements, Challenges and Perspectives" published by AIMST University, Malaysia.
3. Syed J. A. Andrabi, **Bilal A. Wani** and Khursheed A. Wani (2024). Environmental Consideration of Landfills in Developed Countries. *Communicated*.

CONFERENCES, SEMINARS AND WORK SHOPS:

1. Presented the paper entitled "*Ecology and Medicinal Values of Gentiana kurroo Royle: - A Critically Endangered and Endemic Medicinal Plant of Kashmir Himalayas*" at the International Conference on "Environment, Genes, Health and Diseases" held at Coimbatore Tamil Nadu 9-11 Nov. 2011.
2. Best Poster presentation award on "*In vitro antibacterial activity of Gentiana Kurroo Royle: - A Critically Endangered Medicinal Plant of Kashmir Himalayas*" at the workshop on sustainable utilization of medicinal and aromatic plants of Kashmir Himalaya in regional development, organized by Department of Botany, University of Kashmir-15 October 2012.
3. Presented the paper on "*Phytochemical Screening of Eremurus himalaicus - An Endemic Medicinal Plant of North-Western Himalaya*" at the National Conference Environment and Biodiversity of India 30th – 31st December 2011, New Delhi- 2011).

4. Presented the paper "**Human cancer cell anti-proliferative and apoptotic induction activity of methanolic extract of *Gentiana kurroo* Royle.**" at the national seminar on Advances in Biosciences" 12th June 2012.
5. Attended **6th J&K Science Congress- 2010**. Organized by University of Kashmir in collaboration with State Council for Science and Technology and DST, Govt of India, Jammu and Kashmir.
6. Attended a National Symposium on "**Esophageal Cancer- a major health concern in Kashmir**" Organized by Department of Biochemistry University Of Kashmir Srinagar (2011).
7. Presented the paper "**In vitro antibacterial activity and phytochemical screening of *Thymus serpyllum* L. Growing wild in Kashmir Himalayas**" at the national seminar on Recent trends in Biosciences" 12th June 2012.
8. Presented the paper "**Chemical Composition and In-vitro Antibacterial Activity of Essential Oil of *Thymus serpyllum* L. against Pathogenic Bacterial Strains**" at International conference on "Green India: Strategic Knowledge for Combating Climate change prospects & challenges" Dec. 5th-7th 2013. Conducted by Pondicherry University.
9. Presented the paper on "**Anticancer Activity of Essential Oil of *Thymus Serpyllum* L. and its Major Constituents Against Different Human Cancer Cell Lines**" at "National Seminar on Climate Change and Biodiversity" conducted by Central University of Orissa (23rd-24th November 2013).
10. Presented the paper on "**Chemical composition and in-vitro antibacterial activity of essential oil of aerial parts of *Thymus linearis***" against clinically important bacterial strains" at 9th NABS National Conference on New Biological Researches held by Madurai Kamaraj University (11th - 12th Aug-2016).
11. Presented a paper entitled "Chemical characterization, antibacterial and antioxidant potential of essential oil of aerial parts of *Thymus linearis* from western Himalayas" at National Conference on "Role of Science, Technology, Executive, & Public (STEP) in Environmental Conservation and Waste Management (ECWM)", Dated 27-28 October 2022 at MGDC Chararisharief, J&K-191112, India.

TECHNIQUES AND SKILLS ACQUAINTED WITH:

- ▶ Isolation and identification of bioactive molecules from medicinal and aromatic plants using different separation techniques like TLC, column chromatography, HPLC, LC-MS and GC-MS.
- ▶ Screening of single isolated compounds, plant extracts and essential oils for different in-vitro biological activities such as antimicrobial, anticancer, antioxidant and immunomodulatory activities.
- ▶ Culture techniques: Microbial culture techniques, Animal Cell Culture techniques and Plant tissue Culture techniques.
- ▶ Environmental Sampling techniques and analysis of pollutants in Soil and water samples.

PERSONAL BIODATA:

Father's Name: Mohd Ramzan Wani
Nationality: Indian
Gender: Male
Marital status: Married
Language Known: English, Urdu, Hindi & Kashmiri
Permanent Address: Awanpora, Chadoora Budgam, Jammu and Kashmir
India- 191113
Blood group: O⁺
Strength: Curiosity, Positive attitude, Hard Work.

Dr. Bilal Ahmad Wani

Place: Srinagar, Jammu & Kashmir