

BRIEF PROFILE

	Name	Dr. Vivekanand Bahuguna
	Designation	Assistant Professor
	Area	Animal Biotechnology & Biodiversity Conservation
	Email	vn1bahuguna@gmail.com vivekanandbahuguna@uttaranchaluniversity.ac.in
	Contact No.	9870844098
Professional Experience	<ul style="list-style-type: none"> • Senior Research fellow, National Dairy Research Institute Karnal (Haryana)-132001 • Teaching and Research experience at H.N.B. Garhwal University, Srinagar Garhwal (Uttarakhand)-246174 • Teaching and research experience at Uttaranchal University, Premnagar, Dehradun (Uttarakhand)-248007 	
Academic Experience	<ul style="list-style-type: none"> • Integrated 5 year program M.Sc. Biotechnology from HNB Garhwal University, Srinagar Garhwal Uttarakhand. • Ph.D. in Biotechnology entitled “Molecular characterization and foraging behavior of family Bufonidae from high altitudinal region of Uttarakhand from Dept. of Zoology and Biotechnology, H.N.B. Garhwal University, Uttarakhand. • A Massive Open Online Course (MOOC Course) on COVID 19: THE PENDEMIC: RK University, Rajkot Gujarat. 	
Area of Research	<ul style="list-style-type: none"> • Animal Biotechnology , Biodiversity Conservation & Molecular Biology 	
Current Research	<ul style="list-style-type: none"> • Biodiversity Conservation 	
Publications: <ul style="list-style-type: none"> • Articles in Journals (only Scopus/SCI) • Books edited/Chapter contributed/ Books authored 	<ul style="list-style-type: none"> • 9 SCI/Scopus Articles • 3 Book chapters 	
Conferences/Seminars/Workshops/FDP/MDP attended	<ul style="list-style-type: none"> • 21 Conferences/ Seminars • 5 Training/ Workshop • 2 FDP 	
Award/Certificate/Prize	<ul style="list-style-type: none"> • Young scientist award 2020 during World Environment summit 2020 held at V. P. Chest Institute, Delhi University. 	
Any extra-curricular activities	<ul style="list-style-type: none"> • Active environment and wildlife conservation activist as General Secretary, Uttarakhand Chapter of Environment social and Development Authority (ESDA), Delhi. 	

	<ul style="list-style-type: none"> • Active social activist with Life Member of Pragnya Social development Society, Dehradun, Uttarakhand. • Active Life member of Society for conservation of domestic animal biodiversity (SCDAB), NBAGR Karnal. • Life member of Scientific Planet Society (SPS), Dehradun, India.
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Publications:

• Articles in Journals (only Scopus/SCI)

- **V. Bahuguna**, A.K. Chowdhary, S. Singh, G. Bhatt, S. Bhardwaj, N. Lohani and S.N. Bahuguna (2019). A food spectrum analysis of three bufonid species (Anura: Bufonidae) from Uttarakhand region of the western Himalaya, India. *Journal of Threatened taxa* 11(13): 14663–14671.
- **V. Bahuguna**, A. Singh, S. Bhatt, I. Rautela, M. Sharma and N. Sharma. (2019). Conservation through micropagation and Comparative photochemical analysis of Wild and micro propagated plants of *Picrorhiza kurroa*. *Plant Cell Biotechnology and Molecular Biology* 20(3&4):152-161; 2019.
- A.K. Chowdhary, **V. Bahuguna**, G. Bhatt, S. Singh, S. Bhardwaj and S.N. Bahuguna (2016). Diet Composition of Indian Burrowing Frog *Sphaerotheca breviceps* (Anura: Dicroglossidae) in Uttarakhand region of Western Himalaya. *Proceeding of Zoological Society Calcutta*. Springer, DOI 10.1007/s12595-016-0195-6.
- N. Sharma, **V. Bahuguna**, R. Rawat, F. Lalremruati and A. Singh. (2020). Complete plant regeneration of *Valeriana wallichii* DC. on auxin enriched medium and phytochemical analysis. *Plant science today*, 2020. Vol 7(4): 542–550.
- R. Kaushik, K.P. Singh, **V. Bahuguna**, K R. Babu, M. K. Singh, R.S. Manik, P. Palta, S. K. Singla and M. S. Chauhan. (2015). “Molecular characterization and expression of buffalo (*Bubalus bubalis*) DEAD-box family VASA gene and mRNA transcript variants isolated from testis tissue”. *Gene* 2015 Elsevier. 1;572(1):17-26
- N. Joshi and **V. Bahuguna** (2017). Biosorption of copper (II) on to the Waste Leaves of Kafal (*Myrica esculenta*). *Rasayan J. of Chem.* Vol. 11(1): 142-150.
- G. Bhatt, S. Singh, **V. Bahuguna**, A.K. Chowdhary, S. Bhardwaj and S.N. Bahuguna (2017). Semen quality Characterization and Sperm Ultrastructure of Himalayan Snow trout *Schizothorax plagiostomus* Heckel. *Indian Journal of Fisheries* 64(1): 49-55, 2017.

- S. Singh, P. Arya, S. N. Bahuguna, J. Mehta, G. Bhatt, A. K. Chowdhary, **V. Bahuguna** (2015). Antibacterial activity from Haemolymph of Freshwater Crab of Genus *Maydelliathelphusa* against respiratory tract pathogens, *International Journal of Pharmacy and Pharmaceutical Sciences* 8(2): 324-325.
- V. Kumar, S. Kumar, P. K. Chauhan, M. Verma, **V. Bahuguna**, HC Joshi, W. Ahmad, P. Negi, N. Sharma, B. Ramola, I. Rautela, M. Nanda & MS. Vlaskin (2019). Low-temperature catalyst based Hydrothermal liquefaction of harmful Macroalgal blooms, and aqueous phase nutrient recycling by microalgae. *Scientific report*. 2019; 9: 11384.
- **Books edited/Chapter contributed**
- R. P. Singh, M. N. Anwar, D. Singh, **V. Bahuguna**, G. Manchanda and Y. Yang (2020). Deciphering the Key Factors for Heavy Metal Resistance in Gram-Negative Bacteria. *Microbial Versatility in Varied Environments*, Springer Nature Singapore Pte Ltd. 2020. https://doi.org/10.1007/978-981-15-3028-9_7.
- A.K. Chowdhary, **V. Bahuguna**, and S.N. Bahuguna, 2017. Dietary Patterns and Niche Overlap in Five Sympatric Anuran Species Assemblages in Uttarakhand region of Western Himalaya, *ENVIS Bulletin, Wildlife and protection Area*. 19: 243-256.
- A.K. Chowdhary, **V. Bahuguna**, and S.N. Bahuguna, 2016. Indian Burrowing Frog *Sphaerotheca breviceps*: an important biological pest controller. In: *Environmental Health: Human Welfare in Present Scenario* (Eds). ABS Books, KVS Offset Printers, New Delhi pp. 46-55. ISBN No. 978-93-86088

Conferences/Seminars/Workshops/ FDP/MDP presented or attended:

- One week Training Programme on “Quality control & Analytical Techniques” on 22-27 Feb, 2019, College of Applied & Life Sciences, Uttarakhand University, Dehradun.
- One week Teacher congruence & Faculty Development Programme on “Various topics of professional interest” on 16-22 July, 2018 organized by Law College Dehradun, Uttarakhand University, Dehradun.
- Five day workshop cum training programme on “Molecular Diagnostic techniques” at Uttarakhand College of Applied & Life Sciences, Uttarakhand University
- One week Faculty Development Programme on “Research Methodology” on 4- 9 December, 2017 organized by Department of Computer Science & Engineering, Uttarakhand University, Dehradun.

- One Week National Workshop on “Taxonomic Keys and Identification Tools of Different Groups of Flora and Fauna Including the Molecular Tools” 3-8 March 2014 at Department of Zoology and Environmental Science, Gurukul Kangari Vishwavidyalaya, Haridwar.
- Five Days MPEDA, Government of India sponsored training programme on “Basic training on Ornamental Fish Culture techniques” 22-26 June 2015 at Aquaculture Research Unit, Directorate of Research, MPAUT–Udaipur Rajasthan.
- Workshop cum Hands on training on “Advances in developmental Biology” (DBT sponsored star college scheme), at KVADAV College for Women, Karnal (Haryana) on March 2012.
- **V.Bahuguna**, Ashish K Chowdhary and S.N. Bahuguna (2020). Molecular phylogeny, morphometric and current analysis of family bufonidae from Uttarakhand, Western Himalaya, Global environment summit, 18-19 Jan. 2020, Delhi University, India.
- **V.Bahuguna**, N. Sharma, I. Rautela, R. Sharma (2018). Antimicrobial and antifungal activity of *Taxus baccata* International conference on Green chemistry and technology, 27-28 Nov. 2018, Uttaranchal University, Dehradun.
- **V.Bahuguna**, Ashish K Chowdhary and S.N. Bahuguna (2018). Molecular Diversity of family bufonidae from Uttarakhand, Western Himalaya, International biodiversity congress, 04-06 Oct. 2018, FRI, Dehradun, India.
- **V.Bahuguna**, Ashish K Chowdhary and S.N. Bahuguna (2017). Molecular characterization of family Bufonidae) using partial sequences of mitochondrial 16S rRNA from Uttarakhand, Western Himalaya. World Biotechnology Congress, 20-22 February 2017, JNU, New Delhi, India.
- AK Chowdhary, **V.Bahuguna** and S.N. Bahuguna (2017). Notes on diet of five sympatric species from Doon Valley of Western Himalaya. Young Ecologist Talk and Interact (YETI), 4th -7th, Jan 2017, Tezpur University, Assam.
- **V.Bahuguna**, AK. Chowdhary and S.N. Bahuguna (2016). Comparative morphometric study and distribution pattern of family Bufonidae from Garhwal region of Uttarakhand, Western Himalaya. Current status of Toad in Uttarakhand. 10th Uttarakhand council of Science and technology congress, 10-12 February 2016, Dehradun, Uttarakhand.
- **V.Bahuguna**, AK Chowdhary and S.N. Bahuguna (2016). Molecular characterization of *Duttaphrynus melanostictus* (Anura: Bufonidae) using mitochondrial 16S rRNA gene from Garhwal region of

Uttarakhand, Western Himalaya. National health on Environment health vis a vis Human welfare in present scenario, 18-19 April 2016, DAV PG college Dehradun, Uttarakhand.

- S.N. Bahuguna, **V.Bahuguna** and AK Chowdhary (2016). Morphometric study of common Indian toad *Duttaphrynus melanostictus* (Schneider, 1799) from Dehradun district of Uttarakhand, Western Himalaya. National conference on 103rd Indian Science congress associations, 3-7 January 2016, Mysore University, Karnataka.
- AK Chowdhary, **V.Bahuguna** and S.N. Bahuguna (2016). Terrestrial Habitat use and their impact on the feeding behavior by the Indian burrowing frog *Sphaerotheca breviceps* (Schneider, 1799). Uttarakhand council of Science and technology congress, 10-12 February 2016, Dehradun, Uttarakhand.
- AK Chowdhary, **V.Bahuguna** and S.N. Bahuguna (2016). Molecular characterization of *Duttaphrynus stomaticus* (Lutken, 1864) from Srinagar Garhwal of Uttarakhand, Western Himalaya. National conference on 103 Indian Science congresses Association, 3-7 January 2016, Mysore University, Karnataka.
- **V.Bahuguna**, AK Chowdhary and S.N. Bahuguna (2014), Morphometric analysis of Marbled Toad *Duttaphrynus stomaticus* (Lutken, 1864) from Pauri Garhwal region of Uttarakhand, Western Himalaya. National seminar on Threats to Biodiversity and Ecosystems: Impacts of development projects and climate change & 25th all India congress of Zoology, 17-19 Nov 2014, GKV Haridwar.
- K.R. Babu, **V.Bahuguna**, R. Kaushik, K.P. Singh, S. M. Shah, M.K. Singh, P. Palta, R.S. Manik, S.K. Singla and M.S. Chauhan (2012). Construction of Mammary Gland Specific Expression Vector of Stearoyl CoA desaturase Gene and its over expression in Buffalo Mammary gland epithelial cells National Symposium on "Recent advances in Reproductive Biotechnology: Retrospective and Prospective Vision" January 30-31, 2012, at ICAR-NDRI, Karnal (Haryana).
- Sushila Kala, R. Kaushik, K.P. Singh, **V.Bahuguna**, P. Kadam, M.K. Singh, P. Palta, R.S. Manik, S.K. Singla and M.S. Chauhan. Identification and culturing of sertoli cells from prepubertal buffalo testis. NSRB, January 30-31, 2012.
- Syed M Shah, N Saini, S Ashraf, R. Babu, R Kaushik, **V.Bahuguna**, M K Singh, R S Manik, M S Chauhan (2012), Comparative expression of DAZL, BOULE, GDF9 and VASA genes in bubaline embryonic stem cells and oocytes matured *in vitro* at different temperatures" "3rd International Conference on Stem Cells and Cancer (ICSCC-2012): Proliferation, Differentiation and Apoptosis."

Conferences/Seminars attended

- Xvii National Symposium on “Chronobiology” October 1-3, 2005 at Department of Zoology, Banaras Hindu University, Varanasi
- National Symposium on “Uttaranchal main matyasaki ki bhavi sambhavnayen” October 28-29 2005 at H.N.B.Garhwal University, Srinagar Garhwal (Uttarakhand).
- Xviii National Symposium on “Chronobiology” November 8-10, 2006 at Department of Zoology, North-Eastern Hill University, Shillong
- National Symposium on “Recent advances in Reproductive Biotechnology: Retrospective and Prospective Vision” January 30-31, 2012, at ICAR-NDRI, Karnal (Haryana).
- National Symposium on “Eco-Disasters in the Himalayas: cause, challenges and management” February 15-16, 2014 at H.N.B.Garhwal University, Srinagar Garhwal.
- National seminar on Threats to Biodiversity and Ecosystems: Impacts of development projects and climate change & 25th all India congress of Zoology, 17-19 Nov 2014, GKV Haridwar (Uttarakhand).
- National conference on current research and development in plant science: Plant sciences research meet (PSRM 2018), 28th Jan 2018, Dehradun Uttarakhand.