

## Kumaun University, Nainital

### Curriculum Vitae

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Name : Dr. Anil Kumar Bisht

Designation : Professor

Department : Botany

Contact Information

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#### Educational Qualification

Degree	University	Subjects	Year
Ph.D	KumaunUniv.,Nainital	Botany	2003
M.A.	KumaunUniv.,Nainital	English	1999
M.Sc.	KumaunUniv.,Nainital	Botany	1997
B.Sc	KumaunUniv.,Nainital	Zoology, Botany and Chemistry	1995
Intermediate	C.B.S.E. New Delhi	Hindi, English, Physics, Chemistry & Biology	1991
High school	C.B.S.E. New Delhi	Hindi, English, Maths, Science, & Biology	1989

#### Work Experience

Position	Department	University/Organization	Year
Professor	Botany	KumaunUniv.,Nainital	20/07/2020-till Date
Associate Professor	Botany	KumaunUniv.,Nainital	20/07/2017-19/07/2020
Assistant Professor	Botany	KumaunUniv.,Nainital	20/07/2014-19/07/2017
Assistant Professor (Senior scale)	Botany	KumaunUniv.,Nainital	20/07/2009-19/07/2014
Lecturer (Degree college)	Botany	U.K. Govt.	20/07/2005-19/07/2009
S.R.F	Conservation of Biodiversity	DBT, N.Delhi	June, 2003-July, 2005
Senior Researcher	Conservation of Biodiversity	IUCN, Himal	April, 2003-May, 2003
S.R.F.	Conservation of Biodiversity	DBT, Delhi	August, 2001-February, 2003

J.R.F.	Conservation of Biodiversity	DBT, N.Delhi	August, 1999- August, 2001
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### **Administrative Responsibilities**

Position	Nature of responsibility	University/Organization	Year
Assistant Superintendent Examination	Conducting Examination	Govt. Degree College, Narayan Nagar, Pithoragarh	2005-2010
I/C, Tourism	Teaching	Govt. Degree College, Narayan Nagar, Pithoragarh	2007-2010
Assistant Superintendent Examination	Conducting Examination	Kumaun University, Nainital	2015-2018
Assistant coordinator Examination steering committee (Pariksha Sanchalan Samiti)	Evaluation of Answersheets and Preparation of results	Kumaun University, Nainital	2017-18
Assistant Convener, Admission	Admission of B.Sc. students in the University	Kumaun University, Nainital	2012-2023
Deputy, Director, IQAC	Internal quality and preparing University for NAAC	Kumaun University, Nainital	2019-2023
DSW, Board Member	Students welfare	Kumaun University, Nainital	2022-23
Convener, Admissions	Admission of B.Sc. students in the University	Kumaun University, Nainital	2024

## Research Interests

Coservation Biology, Himalayan Medicilal Plants, Phytosociology, Ecology, Plant Propagation studies

## Publications

a) Research Papers

Authors name	Title of the paper	Journal, vol, page no	Year
Oli, Sheetal, Chauhan, H.K., <b>Bisht, A.K.</b> , Agnihotri, S., Dobhal, P.	Bioactive compound, polyphenol content, and antioxidant activity of <i>Asparagus racemosus</i> Linn. root extract		2023
Oli, S., Tatrari, G., Chauhan, H. K., <b>Bisht, A.K.</b> , & Bhatt, I. D.	Effects of Graphene-Based Metal Composite and Urea on Seed Germination and Performance of <i>Berberis chitria</i> Buch.-Ham. ex Lindl.	Applied Biochemistry and Biotechnology, 1-14.(IF: 3.00)	2023
nha, S., <b>Bisht, A.K.</b> , Gaira, K.S and Chhetri, P.	Sustainable utilization and conservation of Forest resources through different Land management Practices in Dzongu, Eastern Himalaya.	Indian Forester 149(2): 157-163	2023
Chauhan, H. K., Gallacher, D., Bhatt, A., & <b>Bisht, A. K.</b>	The Himalayas: A climate change laboratory. Environmental Development, 45, 100814.(IF-5.4)	Environmental evelopment, 45, 100814.(IF-5.4)	2023
Singh, L., Kanwar, N., Bhatt, I.D., Nandi, S., <b>Bisht, A.K.</b>	Predicting the potential distribution of <i>Dactylorhiza hatagirea</i> (D. Don) Soo-an important medicinal orchid in the West Himalaya, under multiple climate change scenarios.	PLoS ONE 17(6): e0269673(IF-3.7)	2022
Singh, L., Singh, B., Kewlani, P., Belwal, T., Bhatt, I.D., Nandi, S., Bisht, A.K.	Process optimization and bioactive compounds quantification from <i>Dactylorhiza hatagirea</i> tuber for alleviating glycemc and oxidative stress.	Journal of Applied Research on Medicinal and Aromatic Plants 26(2):100352 (IF-3.9)	2021
Chauhan, H.K., Oli, S., Bisht, A.K., Meredith, C., Leaman, D.J.	Review of the biology, uses and conservation of the critically endangered endemic Himalayan species <i>Nardostachys jatamansi</i> (Caprifoliaceae).	Biodiversity and Conservation 30(12). Springer Nature.(IF-3.4)	2021
Chauhan, H.K., Gallacher, D., Bisht, A.K., Bhatt, I.D., Bhatt, A.,	Variations in phytochemistry, morphology, and population structure in <i>Trillium govanianum</i> (Melanthiaceae).	Botany, 99(10).(IF-1.1)	2021

Dhyani, P., Kewlani, P.			
Verma, A., Arya, M.K., <b>Bisht, A.K.</b>	Increased Insect Pollinator Service Overcomes Barriers in Reproductive Success of <i>Aesculus indica</i> Colebr. (Hippocastanaceae) in the Temperate Himalaya.	Proceedings of the Zoological Society 74(9),(IF-0.68)	202 1
Singh, L., Bhatt, I.D, Negi, V.S, Nandi, S., Rawal, R., <b>Bisht, A.K.</b> (2021)	Population status, threats, and conservation options of the orchid <i>Dactylorhiza hatagirea</i> in Indian Western Himalaya.	Regional Environment Change. 21:40. Springer Nature, (IF-4.9)	202 1
Chauhan, H.K. and Bisht, A.K.	<i>Trillium govaniatum</i> . The IUCN Red List of Threatened Species 2020: e.T175804005A176257695	The IUCN Red List of Threatened Species 2020: e.T175804005A176257695	202 0
Chauhan, H.K., <b>Bisht,</b> <b>A.K.</b> , Bhatt, I.D.	Protocol for vegetative propagation of <i>Trillium govaniatum</i> Wall ex. D.Don.	Journal of Applied research in Medicinal and Aromatic Plants, 16:100233, DOI-10.1016/j.jarmap.2019.100233, (IF-3.9)	201 9
Chauhan, H.K., <b>Bisht,</b> <b>A.K.</b> , Bhatt, I.D., Bhatt, A., Gallacher, D.	<i>Trillium</i> - towards Sustainable Utilization of a Biologically Distinct Genus Valued for traditional Medicine	The Botanical Review) 85 (3): 252-272. (IF-4)	201 9
Chauhan, H.K., <b>Bisht,</b> <b>A.K.</b> , Bhatt, I.D., Bhatt, A., Gallacher, D., Santo, A.	Population change of <i>Trillium govaniatum</i> (Melanthiaceae) amid altered indigenous harvesting practices in the Indian Himalayas	Journal of Ethnopharmacology, 213, pp 303-310.	201 7
Chauhan, H.K., <b>Bisht,</b> <b>A.K.</b> , Bhatt, I.D.	Impediments in the Tissue Culture of High Altitude Medicinal Plants	Advances in Biotechnology and Microbiology, Volume 4 (2) pp. 1-4.	201 7
Chauhan, H.K. and <b>Bisht,</b> <b>A.K.</b>	Effects of Phytohormones BA (6-benzylaminopurine) and IBA (Indole-3-butyric acid) on Shoot and Root Multiplication in <i>Allium hookeri</i> Thw. Enum.	Environment and We an International Journal of Science and Technology, 10(2015), pp 94-100	201 5
<b>Bisht, A.K.</b> , Bhatt, A., Dhar, U.	Note on Somatic embryogenesis and synthetic seed production in <i>Angelica glauca</i> : a valuable plant of Himalaya.	Journal of Medicinal plant Research, Vol. 9(12) pp. 419-425	201 5
Awasthi, V., <b>Bisht, A.K.</b> and Pande, N.	Morphogenetic studies on two mosses <i>Bryum dichotomum</i> and <i>Entodon macropodus</i> grown in-vitro.	Proceedings of the National Academy of Sciences, India, Section B: Biological Sciences, Springer India, DOI:10.1007/s40011-014-0463z, 1-7	201 4
Joshi, S.K.,	In vitro regeneration of "Green	Journal of Horticultural	200

Bisht, V., Dhar, U., Joshi, M. and <b>Bisht, A.K.</b>	Sweet" apple via nucellus raised callus.	Science and Biotechnology, 83 (4), 447-452.	8
<b>Bisht, A.K.</b> , Bhatt, A., Rawal, R.S. and Dhar, U.	Assessment of Reproductive potential of Different populations of <i>Angelica glauca</i> Edgew., a critically Endangered Himalayan Medicinal Herb.	Journal of Mountain Science, 5, 84-90	2008
Bhatt, A., <b>Bisht, A.K.</b> , Rawal, R.S. and Dhar, U.	Assessment of status and biomass of <i>Swertia angustifolia</i> : a high value Himalayan medicinal plant.	African Journal of Plant Science, 1 (1), 001-006	2007
Bisht, A.K., Bhatt, A., Rawal, R.S. and Dhar, U.	Assessment, extraction pattern and restoration through propagation of <i>Angelica glauca</i> , a critically endangered Himalayan medicinal herb	International journal of Biodiversity Science and Management, Vol. 2, Issue 2, 2006, pp 105-113	2006
<b>Bisht, A.K.</b> , Bhatt, A., Rawal, R.S. and Dhar, U.	Prioritization and Conservation of Himalayan Medicinal Plants: <i>Angelica glauca</i> Edgew. As a case study.	Ethnobotany Research and Application, 4, 011-023	2006
<b>Bisht, A.K.</b> , Manjkhola, Sand Joshi, M.	Comparative account of two high value species of Himalaya: <i>Angelica glauca</i> and <i>Angelica archangelica</i>	Indian Forester, 129, 1241-1248	2003
Dhar, U., Manjkhola, S., Joshi, M., Bhatt, A., <b>Bisht, A.K</b> and Joshi, M.	Current status and future strategy for development of medicinal plant sector in Uttaranchal, India.	Current Science, 83, 956-964	2002

b) Patents - **NA**

Authors name	Title of the patent	Patent no (Granted or filed)		Year

c) Books

Authors name	Title of the book	Publisher	ISBN	Year
Dhar, U., Rawal, R.S., Manjkhola, S., <b>Bisht, A.K.</b> , Joshi, M., Joshi, M., Bhatt, A., Bisht, G.	Conservation, propagation and utilization of High value Medicinal plants of Himalaya <b>(Bi-lingual)</b>	GBPIHED, Kosi-Katarmal, Almora		2003

d) Book chapters

Authors name	Title of the book	Publisher	ISBN	Year
Chauhan, H.K., <b>Bisht, A.K.</b> and Bhatt, I.D.	In Vitro Propagation and Secondary Metabolite Production from Medicinal Plants: Current Trends (Part 1)	Bentham Science Publishers	9815165232, 9789815165234	2024
Singh, L., Nandi, S.K., Bhatt, ID and <b>Bisht, A.K.</b>	Sustainable Development and Biodiversity	Springer	2352-474X	2023
Chauhan, H.K., Oli, S., <b>Bisht, A.K.</b> , Bhatt, I.D. (2023)	Himalayan Fruits and Berries	Academic Press, <b>Elsevier</b>	978-0-323-85591-4	2023
Oli, S and <b>Bisht, A.K.</b>	Envis, Bulletin	Himalayan Ecology, Envis Centre of Himalayan Ecology, G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora		2021
Chauhan, H.K., Bhatt, I.D. and <b>Bisht, A.K.</b>	Socio-economic and Eco-biological Dimension in Resource use and Conservation	Springer Nature Switzerland AG	987-3-03	2020
Chauhan, H.K. and <b>Bisht, A.K.</b>	Biotechnology for Sustainability Achievements, Challenges and Perspectives, Edition: I	AIMST University Malaysia	978-967-14475-3-6	2017
Chauhan, H.K and <b>Bisht, A.K.</b>	Oaks, Issue:10, pp 53-56	Kumaun University, Nainital, India	0975-5918	2014
<b>Bisht, A.K.</b>	Oaks, Issue:9, pp 39-40	Kumaun University, Nainital, India	0975-5918	2013
<b>Bisht, A.K.</b>	Oaks, Issue:8, pp10-141	Kumaun University, Nainital, India	0975-5918	2012
Bhatt, A and <b>Bisht, A.K.</b> (2011)	Medicinal Plants and Sustainable Development,	Nova Science Publishers	1617619426, 9781617619427	2011
<b>Bisht, A.K.</b>	Oaks:7, pp 33-34	Kumaun University,	0975-5918	

		Nainital, India		
<b>Bisht, A.K.,</b> Joshi, M. and Airi, S.	Himalay ki Jaiv VividhtaSanrakshan me Janta Ki Bhagidari (in Hindi)	G.B.P.I.H.E.D. Kosi- Katarmal, Almora		2005
<b>Bisht, A.K.,</b> Joshi, M. and Airi, S.	Himalay ki Jaiv VividhtaSanrakshan me Janta Ki Bhagidari (in Hindi)	G.B.P.I.H.E.D. Kosi- Katarmal, Almora		2004
<b>Bisht, A.K</b> and Bhatt, A.	Himalay ki Jaiv VividhtaSanrakshan me Janta Ki Bhagidari (in Hindi)	G.B.P.I.H.E.D. Kosi- Katarmal, Almora		2003
<b>Bisht, A.K.,</b> Bhatt, A., and Manjkhola, S.	Himalay ki Jaiv VividhtaSanrakshan me Janta Ki Bhagidari (in Hindi)	G.B.P.I.H.E.D. Kosi- Katarmal, Almora		2003
Manjkhola, S., and <b>Bisht,</b> <b>A.K.</b>	Himalay ki Jaiv VividhtaSanrakshan me Janta Ki Bhagidari (in Hindi)	G.B.P.I.H.E.D. Kosi- Katarmal, Almora		2002
<b>Bisht, A.K</b> andJoshi, M.	Himalay ki Jaiv VividhtaSanrakshan me Janta Ki Bhagidari (in Hindi)	G.B.P.I.H.E.D. Kosi- Katarmal, Almora		2001

e) Conference Publications/Proceedings

Authors name	Title of the paper	Conference name	Year
<b>Bisht, A.K.</b> and Chauhan, H.K.	Current trends and future perspective of medicinal plants in Uttarakhand	International conference on "Global Perspective in Agricultural and Applied Sciences for Food and Environmental Security (1-2 Dec, 2019)	2019
<b>Bisht, A.K.</b> and Chauhan, H.K.	Commercial Extraction Of <i>Trillium</i> <i>govanianum</i> Wall. Ex D Don in Indian Himalayas	Environmental Governance and Sustainable Development in 21 <sup>st</sup> Century India: Challenges for the Mountain Regions in the Anthropocene	2017
Awasthi, V; <b>Bisht, A.K.</b> and Pandey, N.	Morphogenetic studies on two Mosses, <i>Bryum</i> <i>Bicolor</i> and <i>EntodonMacropodus</i> grown In vitro	Uttarakhand State Science and Technology Congress, Dehradun	2012
<b>Bisht, A.K.</b>	Conservation and propagation of	Opportunities and scope for research in	2007

	Angelica glauca	Government Colleges	
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**Projects (add row if required)**

Title of the project	Funding agency	Amount (Rs)	Year
Development of feasible propagation protocols for cultivation of endangered <i>Angelica glauca</i>	Inhouse project of Kumaun University	2.00 Lakh	2024

**Teaching details**

Name of the course/paper	Department	University	Year
B.Sc I, II & III all 9 papers Algae, Fungi, Bryophytes, Pteridophytes and Gymnosperms, Plant physiology, Ecology, Biotechnology, Genetics and plant breeding	Botany	Govt, Degree College, Narayan Nagar, Pithoragarh	2005-2011
B.Sc III/VI Sem Biotechnology	Botany	Kumaun University, Nainital	2011-till date
B.Sc II/IV SeM Cell and Molecular Biology	Botany	Kumaun University, Nainital	2020-2022
M.Sc I/Sem I Phycology	Botany	Kumaun University, Nainital	2011-till date
M.Sc II/II Sem Cell and Molecular Biology	Botany	Kumaun University, Nainital	2011-till date
M.Sc II/III Sem Biotechnology	Botany	Kumaun University, Nainital	2011-till date
Ph.D Paper I & II	Botany	Kumaun University, Nainital	2018-Till date



### Professional Memberships

Organization	Position	Year
IUCN	Commission Member, SSC	2020-till date

### Honours and Awards -NA

Award	Awarding Organization	Year

### Conference Presentations

Title of presentation	Conference name	Name of the institution	Year
Conservation and sustainable Utilization of Plant Resources in Himalaya	National Conference on, "Experience of Development in India"	Govt. Arts College, Sikar & Savitri Bai Phule Mahila Mahavidyalay, Sikar, Rajasthan	2020
Current trends and future perspective of medicinal plants in Uttarakhand	International conference on "Global Perspective in Agricultural and Applied Sciences for Food and Environmental Security (1-2 Dec, 2019)	Kumaun University, Nainital	2019
Commercial Extraction Of <i>Trillium govanianum</i> Wall. Ex D Don in Indian Himalayas	Environmental Governance and Sustainable Development in 21 <sup>st</sup> Century India: Challenges for the Mountain Regions in the Anthropocene	Kumaun University, Nainital	2017
Rapid vulnerability Assessment of <i>Trillium govanianum</i>	Traditional Knowledge and Health Seeking Practices among the Himalayan Region	Department of Sociology, School of Social Sciences, Uttarakhand Open University, Haldwani, Nainital	2016

	Communities		
Conservation and propagation of <i>Angelica glauca</i>	Opportunities and scope for research in Government Colleges	Govt. P.G. College Pithoragarh	2007

**Signature of the faculty member**

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