

## Kumaun University, Nainital Curriculum Vitae

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Name : Dr. Rashi Miglani  
Designation : Assistant Professor (Guest Faculty)  
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### Educational Qualification

Degree	University	Subjects	Year
High School	CBSE	Hindi, English, Maths, Science, Social Science	2005
Intermediate	CBSE	Physics, Chemistry, Biology, English, P. Education	2007
B.Sc.	Kumaun University	Zoology, Botany, Chemistry	2010
M.Sc.	Kumaun University	Zoology (Fisheries)	2012
Ph.D.	Kumaun University	Zoology	2021
PGDMECC	Kumaun University	Forestry, Environmental Science	2013

### Work Experience (add row if required)

Position	Department/Agency	University/Organization	Year
Junior Research Fellow	DBT, New Delhi	DBT, New Delhi	2018
Project Associate I	DBT, New Delhi	DBT, New Delhi	2021
Lectures	Department of Biomedical Science	Kumaun University	2022
Assistant Prof. (Guest Faculty)	Department of Forensic Science	Kumaun University	2023

### Administrative Responsibilities (add row if required)

Position	Nature of responsibility	University/Organization	Year
NA			

## Research Interests

(List your research interests and areas of expertise in 1-3 lines)

I use transdisciplinary ways to bridge scientific understanding with environmental conservation activities. As an environmental toxicology expert, I want to know how these pollutants affect soil health and biodiversity.

## Publications (start from recent publications)

a) Research Papers (add row if required)

Authors name	Title of the paper	Journal Name, vol, page no and Impact Factor	Year
Pallavi Saxena, Harish Mangesh, Diksha Shah, Kanika Vats, <b>Rashi Miglani</b> , Amit Kumar Singh, Vishambhar Sangela, Vishnu Dayal Rajput, Tatiana Minkina, Saglara Mandzhieva, Svetlana Sushkova	A critical review on Fate, Behavior and Ecotoxicological Impact of Zinc Oxide Nanoparticles on Algae.	Environmental Science and Pollution Research. 31 (13):19105-19122. <a href="https://doi.org/10.1007/s11356-024-32439-2">https://doi.org/10.1007/s11356-024-32439-2</a>  IF: 5.03	2024
Seeta Dewali, Netrapal Sharma, <b>Rashi Miglani</b> , Nagma Parveen, Gaurav Rawat, Deepak Chandra Melkani, Neha Kathayat and Satpal Singh Bisht	Comparative study of snow-fed and Spring- Fed Rivers of Kumaun Himalaya, India.	Journal of Xidian University. 17 (10): 1036-1051. doi: <a href="https://doi.org/10.37896/jxu17.10/094">10.37896/jxu17.10/094</a>	2023
Nagma Parveen, Fasuil Farooq, <b>Rashi Miglani</b> , Kulbhushan Kumar and Satpal Singh Bisht	Diversity of Butterflies in and around Himalayan Botanical Garden of Western Himalayan Region, Uttarakhand, India: A first-hand short report.	High Technology Letters, 29 (3): 70-85. ISSN: 1006- 6748.	2023
<b>Rashi Miglani</b> , Nagma Parveen,	Effect of Imidacloprid and Chlorpyrifos toxicity on earthworm	Asian Journal of Biological and Life Sciences. 11 (3): 833-839. <a href="https://doi.org/10.5530/ajbls.2022.11.111">10.5530/ajbls.2022.11.111</a> .	2022

Gaurav Rawat, Netrapal Sharma, Ankit Kumar and Satpal Singh Bisht	<i>Amyntas alexandri</i> under Laboratory conditions.		
<b>Rashi Miglani</b> , Shakoor Ahmed, John Warren Reynolds, Nagma Parveen, Ankit Kumar and Satpal Singh Bisht	A Comprehensive Checklist of the Earthworms (Annelida: Oligochaeta) of Uttarakhand, India.	Megadrilogica, 27 (10): 107-137.	2022
<b>Rashi Miglani</b> , Satpal Singh Bisht, Shakoor Ahmed and John Warren Reynolds	Earthworm Diversity in Uttarakhand, India: An Ecological Update	Megadrilogica, 27(8): 61-76. ISSN: 0380-9633	2022
<b>Rashi Miglani</b> , Nagma Parveen, Ankit Kumar, Mohd. Arif Ansari, Soumya Khanna, Gaurav Rawat, Amrita Kumari Panda, Satpal Singh Bisht, Jyoti Upadhyay and Mohd. Nazam Ansari (2022).	Degradation of Xenobiotic Pollutants: An Environmentally Sustainable Approach.	Metabolites, 12: 818. <a href="https://doi.org/10.3390/metabo12090818">https://doi.org/10.3390/metabo12090818</a> . IF: 4.1	2022
Nagma Parveen, Kulbhushan Kumar, <b>Rashi Miglani</b> , Ankit Kumar, Uzma Siddiqui, Gaurav Rawat and Satpal Singh Bisht. Asian Journal of Biological and Life sciences.	Factor affecting honeybee population in Western Himalaya of Uttarakhand: An Observational Study.	Asian Journal of Biological and Life sciences 11 (2): 543-553. 10.5530/ajbls.2022.11.74.	2022
Deepak Chandra Melkani, <b>Rashi Miglani</b> , Netrapal	Global Scenario of Sickle Cell Anaemia and Comparison of SCA among Tribal and Non-Tribal	International Journal of Biology, Pharmacy and Allied Sciences. 11 (12): <a href="https://doi.org/10.31032/IJBPAS/2021/11.10.6471">https://doi.org/10.31032/IJBPAS/2021/11.10.6471</a>	2022

Sharma, Shikha Bora, Ankit Kumar and Satpal Singh Bisht	Population of Uttarakhand.		
Nagma Parveen, <b>Rashi Miglani</b> , Ankit Kumar, Seeta Dewali, Kulbhusan Kumar, Netrapal Sharma and Satpal Singh Bisht	Honeybee pathogenesis posing threat to its global population: A Short Review.	Proceedings of the Indian National Science Academy. 88: 11–32. <a href="https://doi.org/10.1007/s43538-022-00062-9">https://doi.org/10.1007/s43538-022-00062-9</a> .	2021
Nagma Parveen, <b>Rashi Miglani</b> , Netrapal Sharma and Satpal Singh Bisht. Investigations.	Socio- Economic Analysis of Traditional and Modern Beekeeping in Western Himalayan Region Uttarakhand, India.	International Journal of Zoological 7(2): 713- 722. <a href="https://doi.org/10.33745/ijzi.2021.v07i02.055">https://doi.org/10.33745/ijzi.2021.v07i02.055</a> .	2021
<b>Rashi Miglani</b> , Nagma Parveen, Ankit Kumar, Netrapal Sharma and Satpal Singh Bisht (2021)	Insecticide toxicity: Consumption, Assessment Methodologies and Safety Issues in India.	International Journal of Zoological Investigations. 7 (2): 621-628. <a href="https://doi.org/10.33745/ijzi.2021.v07i02.046">https://doi.org/10.33745/ijzi.2021.v07i02.046</a>	2021
<b>Rashi Miglani</b> and Satpal Singh Bisht	Effect of three commonly used insecticides on earthworm mortality under Laboratory conditions.	Indian Journal of Environmental Protection. 40 (05):543-546.	2020
Vinay Singh, Satpal Singh Bisht, Neha Rajwar and <b>Rashi Miglani</b>	Avian diversity and its ecological impact on agro-ecosystems as biological pest control agents near Sharda Riverbank, Uttarakhand, India.	Journal of Entomological Research 43(4): 547-554. <a href="https://doi.org/10.5958/0974-4576.2019.00096.3">10.5958/0974-4576.2019.00096.3</a>	2019
<b>Rashi Miglani</b> and Satpal Singh Bisht	World of earthworms with pesticide and insecticide: A Review.	Interdisciplinary Toxicology 12 (2): 71-82. doi:10.2478/intox- 2019-0008. IF: 2.53	2019
<b>Rashi Miglani</b> , Jyoti Upadhyay, Mahendra Rana and Satpal Singh Bisht.	Socio- economic status and pesticide use in two ecologically different habitats of Kumaun Region, Uttarakhand, India.	Pesticide Research Journal. 31 (2):153-159. <a href="https://doi.org/10.5958/2249-524X.2019.00024.4">10.5958/2249-524X.2019.00024.4</a>	2019

<b>Rashi Miglani</b> , Jyoti Upadhyay, Mahendra Rana and Satpal Singh Bisht	In vitro effect of Emamectin Benzoate (an insecticide) on Earthworm <i>Metaphire posthuma</i> under Laboratory Conditions using Contact Filter Paper Method.	Applied Biological Research. 22(2): 207-209. doi:10.5958/0974-4517.2019.00025.9	2019
<b>Rashi Miglani</b> , Satpal Singh Bisht, Neha Rajwar and Vinay Singh	Evaluation of Monocrotophos and Thiomexotham toxicity on earthworm <i>Amythas alexandri</i> using contact filter paper test method.	International Journal of Research and Analytical Reviews. 6 (2): 467-471.	2019
Neha Rajwar, Satpal Singh Bisht, Sparsh Bhatt, <b>Rashi Miglani</b> and Vinay Singh	Investigations on Seasonal abundance of the earthworm <i>Octolasion cyaneum</i> (Savigny, 1826) (Lumbricidae: Annelida) in high altitude forest system of the Kumaun Himalayas, India.	International Journal of Life Science and Pharma Research. 8 (3):1-7.	2018

b) Patents (start from recent publications) **(add row if required)**

Authors name	Title of the patent	Patent no (Granted or filed)	Year
<b>NA</b>			

c) Books (start from recent publications) **(add row if required)**

Authors name	Title of the book	Publisher	ISBN	Year
<b>NA</b>				

d) Book chapters (start from recent publications) **(add row if required)**

Authors name	Title of the book Chapter	Publisher	ISBN	Year
Pallavi Saxena, <b>Rashi Miglani</b> , Diksha Shah, Vishnu. D. Rajput and Tatiana Minkina	Role of Nanoparticles and Nano- biochar in Reducing Salinity stress for improving soil health and sustainable crop production.	CRC Apple, Academic Press.	9781774917077	2023
Amrita Kumari Panda, Rojita Mishra, <b>Rashi Miglani</b> , Seeta	Extremophilic diversity and climate change.	CRC Press	9781003220398	2022

Dewali, Ankit Kumar, Shikha Bora and Satpal Singh Bisht				
<b>Rashi Miglani</b> , Nagma Parveen, Ankit Kumar, Seema Dewali, Gaurav Rawat, Rojita Mishra, Amrita Kumari Panda and Satpal Singh Bisht	Bacteriocin and its biomedical applications with special reference to lactobacillus.	Elsevier	9780323901130	2022
Rojita Mishra, <b>Rashi Miglani</b> , Kulbhushan Kumar, Amrita Kumari Panda, Surajit De Mandal, Mahendra Rana and Satpal Singh Bisht	Current status of microbial lectins in Biomedical Research.	Elsevier	9780323901130	2022
Amrita Kumari Panda, <b>Rashi Miglani</b> , Rojita Mishra, Surajit De Mandal and Satpal Singh Bisht	Microbial Biosurfactant: Current Trends and Applications in Biomedical Industries.	Elsevier	9780323901130	2022
Uzma Siddiqui, <b>Rashi Miglani</b> , Nagma Parveen, Ankit Kumar, Sheetal Sharma and Harish Chandra Singh Bisht	Effect of Microplastics on Aquatic Food Chain and Food Web altering Phytoplankton Community Structure	Elite Publishing House	978-93-58999-70-9	2022
Ankit Kumar, <b>Rashi Miglani</b> , Nagma Parveen, Gaurav Rawat, Netrapal Sharma, Mahendra Rana and Satpal Singh Bisht	Decoction and their Biological Activities	IGI Global	9781668451304	2022
Ankit Kumar, <b>Rashi Miglani</b> , Mahendra Rana, Satpal Singh Bisht, Netrapal Sharma, Ajeet Singh	Role of traditional practices and Ethno-medicinal plants for the management of jaundice and hepatic diseases	Nova Science Publishers, Inc	978-93-88854-4	2021
Debmalya Das Gupta, Kulbhushan Kumar, <b>Rashi Miglani</b> , Rojita Mishra, Satpal Singh Bisht, Amrita	Microbial biofertilizers: Recent trends and future outlook.	Academic Press.	978-0-12-822098-6	2021

Panda				
<b>Rashi Miglani,</b> Amrita Kumari Panda, Monu Bala, Jyoti Upadhyay, Nagma Parveen, Ankit Kumar and Satpal Singh Bisht	Earthworm gut microbiome: The uncharted microbiome.	Taylor and Francis	9781003042570	2021
<b>Rashi Miglani,</b> Nagma Parveen, Satpal Singh Bisht and Aman Verma	Pesticide toxicity to insect pollinators with concern to declining population of Honey Bees (Insecta: Hymenoptera)	Discovery Publishing House Pvt. Ltd, New Delhi	978-93-88854-46-7	2020

e) Conference Publications/Proceedings (start from recent publications) **(add row if required)**

Authors name	Title of the paper	Conference name	Year
<b>NA</b>			

**Projects (add row if required)**

Title of the project	Funding agency	Amount (Rs)	Year
<b>NA</b>			

**Teaching details (add row if required)**

Name of the course/paper	Department	University	Year
M.Sc. Paper II (1 <sup>st</sup> Sem)	Department of Biomedical Science	Kumaun University	2021
M.Sc. Paper I and III (2 <sup>nd</sup> Sem)	Department of Biomedical Science	Kumaun University	2022
M.Sc. Paper I and III (3 <sup>rd</sup> Sem)	Department of Biomedical Science	Kumaun University	2022
M.Sc. Paper 1 and 2 (1 <sup>st</sup> Sem)	Department of Forensic Science	Kumaun University	2023
M.Sc. Paper 1 and 4 (1 <sup>st</sup> Sem)	Department of Forensic Science	Kumaun University	2024

**Professional Memberships (add row if required)**

Organization	Position	Year
The Earthworm Society of Britain	Life Member	2018
Scholars Academic and Scientific Society	Life Member	2022
Agro Environment Development Society	Life Member	2024

**Honours and Awards (add row if required)**

Award	Awarding Organization	Year
Young Scientist Award	VG Goods Professional Associates	2020
Young Scientist Award in Agricultural Research	Agro Environment Development Society	2024

**Conference Presentations (add row if required)**

Title of presentation	Conference name	Name of the institution	Year
Effect of pesticides on earthworms' mortality in field conditions with or without pesticides applications	International Conference on Impact of Pesticides on Environment and Human Health (ICPIPEHH-2017)	School of Engineering, Dayananda Sagar University, Bangalore, held from 2 <sup>nd</sup> -4 <sup>th</sup> November 2017.	2017
Global Scenario of agrochemicals: Challenges, Threat and opportunities	International Conference and Expo on Agriculture and Veterinary Sciences: Research and Technology	Professor Jayashankar Telangana State Agricultural University, Hyderabad	2017
Investigation on consequences of Pesticides on Growth of earthworms in Agriculture System	11 <sup>th</sup> Uttarakhand State Science and Technology Congress	UCOST Dehradun, Uttarakhand	2017
Ecotoxic Investigations on Agro Ecosystems with Special Reference to Earthworms	National Seminar on Plants and Environment	Department of Botany, Kumaun University, Nainital	2017
Impact of selected insecticides on earthworm mortality in field conditions in	National Conference on Recent Trends in Zoological	North-Eastern Hill University (NEHU), Shillong	2018

tarai region of Uttarakhand	Research in North-East India		
Earthworm density and Biomass of two agriculturally different land sites with and without use of pesticides	International Biodiversity Congress	Forest Research Institute, Dehradun	2018



**Signature of the faculty member**