

CURRICULUM VITAE



HIMENDER BHARTI

Director (Centre for Restoration of Ecosystem of Punjab)
Coordinator (Five Year Integrated Program in Biological Sciences)
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1. EDUCATIONAL QUALIFICATIONS

M.Sc. M.Phil. Ph.D.

2. AREAS OF RESEARCH

Evolutionary Biology, Systematics, Molecular Phylogenetics, Ecology, Conservation Biology and Chemical Ecology

3.POSITIONS HELD (PROFESSIONAL APPOINTMENTS)

2021 – Director, Centre for Restoration of Ecosystem of Punjab
2021 – Coordinator Five Year Integrated Program in Biological Sciences
2019–2022 – Head (Department of Zoology and Environmental Sciences, Punjabi University, Patiala)
2020 – Co-coordinator DST-PURSE Scheme, Punjabi University, Patiala
1999 – 2006: Scientist (DST) Punjabi University Patiala
1997 – 1998: Research Associate (CSIR) Punjabi University Patiala

4. RESEARCH PROJECTS (12)

➤ MAJOR RESEARCH PROJECTS

- 2019–2022: Molecular Phylogeny and Phylogeography of ant genus *Camponotus* (Hymenoptera: Formicidae) from India sanctioned by Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi (approved layout: ₹ 34,95,600/-)
- 2014–2017: All India Coordinated Project on capacity Building in Taxonomy (Hymenoptera: Formicidae) from India sanctioned by Ministry of Environment and Forest, Govt. of India, New Delhi (approved layout: about ₹ 30, 54,000/-).
- 2012–2016: Molecular Phylogeny and biology of high altitude ants of genus *Myrmica* (Hymenoptera: Formicidae) sanctioned by Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi (approved layout: ₹ 37,54,000/-)
- 2012–2015: Diversity and Abundance of Ants from Sikkim and Arunachal Pradesh sanctioned by Ministry of Environment and Forest, Govt. of India, New Delhi (approved layout: about ₹ 26,68,420/-)
- 2008–2012: Study of ant species abundance and composition with respect to functional groups from lower Siwalik range of North-west Himalaya sanctioned by Ministry of Environment and Forest, Govt. of India, New Delhi in 2008 (approved layout: ₹ 19,06380/-)
- 2009–2013: ICAR Network Project on Insect Systematics sanctioned by Indian Council of Agriculture Research, New Delhi (approved layout: about ₹ 36, 00,000/-)
- 2008–2012: Social Parasitism in Himalayan Ants and their Speciation Patterns sanctioned by Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi in 2008 (approved layout: ₹ 28,33,000/-)
- 1999–2001: Young Scientist project awarded by Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi, to study diversity of ants from North-Western India (approved layout: ₹ 7,00,000/-)
- 2001–2004: Young Scientist Project awarded by Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi, to study diversity of ants from India (approved layout: about ₹ 12,00,000/-)
- 2005–2008: Young Scientist Project awarded by Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi, to study Ant Diversity of Himalayas: A Fragile Ecosystem (approved layout: ₹ 8,00,000/-)

➤ MINOR RESEARCH PROJECTS

- 2016–2017: Field Evaluation of Ant Control Gel for control of Pestiferous Ants by Godrej
- 2010–2011: Evaluation/trials on Imidacloprid 0.03% Ant Gel-Maxforce Quantum sanctioned by Bayer Crop Science limited

5. PROFESSIONAL INVOLVEMENTS

A. International Collaborations and Other Professional Services

- 2013-2019: As collaborator with Dr. Trevor Price, University of Chicago, USA in a project, "Effect of ants on bird species diversity pattern along an elevational gradient in the eastern Himalaya"
- 2022- Member of Subject Expert Committee for Evaluation of Inspire Fellowship Program of DST
- 2017 – Present: Involved in GAGA (global project on ant genomics)
- 2014 – As instructor/curator/resource person for "Ant Course" (designed for systematists, ecologists, behaviorists, conservation biologists, and other biologists, whose research requires a greater understanding of ant taxonomy and field techniques) organized at Borneo by the California Academy of Sciences, USA from 21st July to 31st July 2014.
- 2010 – Present: Curator, Data base of ants of India website: (<http://www.antweb.org/india.jsp>)
- 2018 – Present: Curator, Data base of ants of Nepal, Bhutan, Pakistan and Sri Lanka (<http://www.antweb.org/>)
- 2009 – Present: President, ANeT (International Network for Study of Ants)
- 2014 – Present: President, IUSSI India Chapter (http://www.antdiversityindia.com/iussi_indian_chapter)
- 2012 – Present: Involved in Barcode of Life project- Formicidae Barcode of life- http://www.formicidaebol.org/all_participants.php
- 2014 – Present: Involved in Indian Biodiversity Portal for Ants of India- (http://indiabiodiversity.org/group/ants_of_india/founders)
- 2015 – Faculty KS Krishnan SERB School for Chemical Ecology (Sponsored by DST), National Centre for Biological Sciences, Bangalore <https://www.ncbs.res.in/ChemicalEcology/SERB-school>.
- 2011 – Present: Mentor/Resource person for Inspire Programme of DST
- 2009 – Present: Honorary technical advisor to Indian Pest Control Association (IPCA), India
- 2009 – Present: Involved in Action Plan for conservation of Ants in Asia-A proposed IUCN specialist group and Red Listing of Ants (http://www.antdiversityindia.com/action_plan_for_conservation_of_asian_ants)
- 2009 – Present: Involved in Insect Biodiversity Network in Asia-Cibodas Declaration-2009- (http://antdiversityindia.com/cibodas_declaration-2009)
- 2008 – Nominated as member of National Advisory Committee for National Workshop on Bio- diversity Assessment held at Mangalore University.
- 2008 – Present: Involved in Encyclopedia of Life (EOL) project <http://www.eol.org/users/47880>
- 2006 – Present: TOL (Tree of life) online contributor for Hymenoptera (Formicidae)- <http://www.tolweb.org/onlinecontributors/app;jsessionid=FF1F28A43A0F18BA12E4EC18107DC4B9?page=PeopleList&service=external&sp=8232> (Arizona University- USA)
- 2002 – 2012: Involved in Discover life Project- (Harvard University, Boston)

B. Organizational/Societal involvements

- 2021-2024: Member, Society for Molecular Biology and Evolution, Lawrence, KS 66044, U.S.A
- 2021 – 2025: Member, IUCN Ants Specialist Group
- 2021 – 2025: Member, IUCN Species Survival Commission South Asian Invertebrate Specialist Group
- 2021– 2025: Member, IUCN CEM South Asia
- 2019 – Member, Indian Society of Evolutionary Biologists
- 2019-2022: Member, Punjab Wetland Technical Committee
- 2017 – Present: Member Society for the Study of Evolution (<http://www.evolutionociety.org/>)
- 2015 – 2018 Member of the Expert Committee on Sustainable Agriculture and Rural Transformation Holistic Initiative by DST for Evaluation of Research Projects.
- 2009 – Present: Member Willy Henning Society, USA-<http://www.cladistics.org/>
- 2003 – Present: Member mountain forum-<http://www.mountainforum.org/>
- 1999– Life Member Association for advancement of Entomology- <http://entomon-aae.org/html/aee.htm>

6. JOURNAL EDITORIAL MEMBERSHIP AND REVIEWERSHIP

- 2023– Member Editorial Board, *Vigyan de Naqsh* (published by Punjabi University Patiala)
- 2009 – Present: Chief Editor, *Halteres*
- 2021 – Member, Editorial Board, Current Research in Insect Science (Elsevier)
- 2020 – Present: Section Editor Ants, *Sociobiology*
- 2007 – Present: Member, Editorial Board, *Asian Myrmecology*
- 2009 – Present: Reviewer for *Zookeys*, *Insectes Sociaux*, *Sociobiology*, *Journal of Asia Pacific Entomology*, *Acta Zootaxonomica Sinica*, *Journal of Natural History*, *Journal of Hymenoptera Research*, *Tropical Ecology*, *Deutsche Entomologische Zeitschrift*, *Entomological Research*, *Environmental Entomology*, *Transactions of the American Entomological Society*, *Turkish journal of entomology*, *Journal of Entomological Research Society*, *Entomologia Generalis*, *Current Science*, *Journal of the Bombay Natural History Society*, *Journal of Threatened Taxa*, *Indian Journal of Entomology*, *Pakistan Journal of Zoology*, *Journal Hexapoda*, *Oriental Insects*, *Trakya University Journal of Natural Sciences*, *Journal of Insect Biodiversity*, *Journal of Hymenoptera Research*, *European journal of taxonomy*, *Journal of Insect Biodiversity*.

7. ACADEMIC HONORS (Fellowships, Awards and Scholarships)

- 2014 – Elected Fellow Royal Entomological Society of London.
- 2013 – Distinguished Taxonomist Award in recognition to outstanding contribution to the taxonomy of Indian Ants presented by TC Narendran Trust for Animal Taxonomy
- 1999 – 2006: Young Scientist Fellowship from Department of Science and Technology, Govt. of India.
- 1996 – 1998: Post-Doctoral Fellowship (RA) from CSIR
- 1992 – 1996: JRF, SRF (ICAR) for Ph.D.

8. KEYNOTE/PLENARY/ INVITED TALKS DELIVERED/SESSIONS CHAIRED AT INTERNATIONAL LEVEL

- 2020 – Delivered invited talk on “The Himalayan Mountain System: Impact on Biogeography and Evolution at Central Department of Zoology, Tribhuvan University, Kathmandu, Nepal.
- 2019 – Delivered Keynote address on “Ant Research and Management in the wake of Climate change ” in International Conference on Ants (12th ANeT) in Kasetsart University, Bangkok.
- 2016 – Delivered Plenary talk on “Degrading ecosystem of Himalaya: a case study with ants” in conference on The role of Parks and Sanctuaries in protecting India’s Biodiversity held at University of Chicago Dept. of Ecology and Evolution, New Delhi Centre.
- 2014 – Delivered Plenary talk on “Life patterns of High altitude ant genera of Himalayan region: Novelties and Adaptations” 9thInternational Conference on Ants held at Institute for Tropical Biology and Conservation, University Malaysia Sabah (UMS) Kota Kinabalu.
- 2014 – Delivered a talk on “Biogeography, Ecology and Evolution of ant genus *Myrmica* from Himalaya” at IUSSI Congress 2014 held at Cairns Australia.
- 2011 –Delivered talk on “Taxonomic Structure and Evolutionary Patterns of Himalayan *Myrmica* and *Formica*” and chaired session at International Conference on Ants- 8thANeTheld at Prince of Songkla University, Thailand.
- 2009 – Delivered talk on “Ant Taxonomy trends and transformations” and chaired session at International Conference held at Cibodas botanical garden, Indonesia.
- 2007 – Delivered talks on “Social Parasitism and Ants as an Indicator of Ecosystem Health” and chaired sessions in International Conference held at Punjabi University, Patiala.
- 2005 – Delivered talk on Diversification: Ants and Speciation: A view point and chaired session at International Conference held at University of Malaya, Kuala Lumpur, Malaysia.
- 2003 – Delivered talk on Ants of Upper Himalaya at University of Kasetsart, Bangkok, Thailand.

9. PLENARY/INVITED TALKS/SESSIONS CHAIRED AT NATIONAL LEVEL

2023- Delivered invited talk on, “Environmental Crisis and Societal Role” on NSS Foundation Day at Punjabi University Patiala on 25th September, 2023.

2023- Delivered invited talk on, “ Current Environmental Crisis and Mitigation” at D.A.V. College Bathinda on 25th April, 2023

2023–Delivered invited talk in the 4th Conference of the Indian Society of Evolutionary Biologists (ISEB4) on, “The Concept of Monophyly, Linnaean Taxonomy, Evolutionary implications : The way forward in Systematics” jointly organized by the Indian Society of Evolutionary Biologists (ISEB) and Ahmedabad University from February 9-11, 2023.

2023–Delivered a talk on, “The Making of Modern Human” in a series initiated by Punjabi University on the analysis of research work leading to Nobel Prize, on 1st February 2023.

2023–Delivered a talk at Pushpa Gujral Science City Kapurthala on World Wetlands Day (2nd February 2023).

2023-Resource person HRDC, Punjabi University Patiala (January, August, September, 2023)

2022- Delivered invited talk in GIAN course “Contamination of aquatic ecosystems: concerns, threats and mitigations” organized by Punjabi University, Patiala.

2022- Resource person HRDC and delivered invited talk on “Conservation Biology” organized by Punjabi University, Patiala

2022- Delivered invited talk in international e-conference on “Mitigating environmental issues by sustainable approaches (ICMCESA-2022) organised by Acharya Narendra Dev College, New Delhi

2022- Delivered talk in International Conference entitled “Emerging trends in Biotechnology and Sustainable Chemistry,2022, organised by Baba Farid Group of Institutions, Deon, Bathinda

2021- Lead speaker in Brainstorming session and delivered invited talk on “The growth of Linnaean thought, impact of common descent and current understanding” organised by ICAR- National Bureau of Agricultural Insect resources, Bengaluru

2021- Resource person and delivered invited talk on “Significance of Systematics in Evolutionary Thought” Dev Samaj College for Women, Ferozepur

2021- Delivered invited talk in International Conference on Zoology,2021, Himalayan Biodiversity in the face of Global change, organised by Central department of zoology, Tribhuvan university.

2021- Delivered invited talk on “Ants the superorganisms. What we need to know” organised by Zoological Society of Hansraj College, New Delhi

2021– Resource person HRDC and delivered invited talk on “Anthropocene: A misplaced trust in Ecological Utopia” at Guru Nanak Dev University, Amritsar, Punjab.

2021- Delivered invited talk in National e-conference on animal diversity: A conservational approach (ADCA-21) on “Conservation biology: role, significance and evolutionary constraints” organized by B.P. Arts, S.M.A. Science and K.K.C. Commerce College Chalisgaon, Jalgaon.

2021- Delivered invited talk in AICTE sponsored One week Short Term Training Programme III on “Environment Protection and Management” organized by Department of Chemical Engineering, Sardar Beant Singh State University, Gurdaspur.

2021 – Delivered invited talk on “The Growth of Biological thought: Where do we stand?” at D.A.V. College Jalandhar.

2021– Resource person HRDC and delivered invited talk on “Passion or Liability (Teaching, Research, Mentee, Mentoring); Where do we stand? ” at Guru Nanak Dev University, Amritsar, Punjab.

2020 – Delivered invited talk on “The Significance of Integrative Taxonomy and current understanding” at Kanchi Mamunivar Government Institute for Post graduate Studies and Research, Puducherry.

2020 – Delivered invited talk on “The growth of Linnaean thought, impact of common descent and current understanding” at Acharya Narendra Dev College, Delhi.

2020 – Delivered invited talk on “Effective online teaching, expectations, constraints and the way out” at Guru Kashi University, Talwandi Sabo, Punjab.

2020 – Resource person HRDC and delivered invited talk on “Research: A Passion or Liability” at Guru Nanak Dev University, Amritsar, Punjab.

2020 – Resource person HRDC and delivered invited talk on “ Evolutionary Biology in Sciences and Beyond” at ” at Guru Nanak Dev University, Amritsar, Punjab.

2020 – Resource person HRDC and delivered invited talk on “ Research: A Passion or Liability” at Punjabi University, Patiala, Punjab.

2020 – Resource person HRDC and delivered invited talk on “ The Extended Phenotype: What it tells about Evolution?” at Punjabi University, Patiala, Punjab.

2020 - Resource person HRDC and delivered invited talk on “Conservation Biology: Role,

Significance and Evolutionary constraints” ” at Guru Nanak Dev University, Amritsar, Punjab.

2020 - Resource person HRDC and delivered invited talk on “The Significance of Evolutionary Biology in Sciences” at Guru Nanak Dev University, Amritsar, Punjab.

2019 – Delivered invited talk on “The significance of Natural History: A case of Ants” at Inspire, Moga, Punjab.

2019 - Delivered invited talk on “The Science of Taxonomy: The Progression and Relevance” at Mata Gajri College, Fatehgarh Sahib, Punjab.

2019 – Delivered invited talk on “Natural History of *Myrmica* ants from Himalaya” at "ISEB1: Celebrating Ecology and Evolution in India" at Jawaharlal Nehru Center for Advanced Scientific Research, Bengaluru.

2019 – Resource person and delivered invited talk on “ The role of Evolutionary Biology in Science” in Inspire Programme at Baba Farid group of Institutions, Deon Bathinda.

2018 – Resource person and delivered invited talk on “Evolution: The most enigmatic and misinterpreted Science” in Inspire Programme at Chandigarh University.

2017 – Resource person and delivered invited talk on “Growth of Biological thought- Role of natural history” at ISF College of Pharmacy, Moga, Punjab.

2017 – Resource person and delivered invited talk on “Role of natural history in science” in Inspire Programme at Chandigarh University.

2016 – Delivered Plenary talk on “Indian ants current knowledge, natural history and future directions” in conference on Insect biodiversity studies: where does India stand in the global map held at Central University of Kerala, Kasargod.

2016 – Delivered Plenary talk on “Role of chemical signatures in ants” in First Collaboration in Indian Chemical Ecology at NCBS Campus, Tata Institute of Fundamental Research, Bangalore, Karnataka.

2016 – Resource person and delivered invited talk on “Evolution and Biodiversity ” in Inspire Programme at Chandigarh University.

2016 – Resource person and delivered invited talk on “Natural history and evolution” in Inspire Programme at ISF College of Pharmacy, Moga, Punjab.

2016 – As expert/judge at 19th Punjab Science Congress.

2015 – Resource person and delivered invited talk on “Natural History and Evolution” in Inspire Programme at ISF College of Pharmacy, Moga, Punjab.

- 2015 – Resource Person and Faculty at KS Krishnan SERB School for Chemical Ecology (Sponsored by DST), National Centre for Biological Sciences, Bangalore-Delivered talk on "Natural History and Diversity of Himalayan Ants".
- 2015 – Resource person and delivered invited talk on “Natural History and Science” in Inspire Programme at Akal College of Pharmacy, Mastuanasahib, Punjab.
- 2015 – Resource person and delivered invited talk on “Science and Vision of Science” in Inspire Programme at ISF College of Pharmacy, Moga, Punjab.
- 2015 – Resource person and delivered invited talk on “Ants as Superorganism” in Inspire Programme at ISF College of Pharmacy, Moga, Punjab.
- 2015 – Resource person and delivered invited talk on “Significance of Natural History: The Case of Ants” in Inspire Programme at Asian Institutions Patiala, Punjab.
- 2014 – Delivered invited talk on Ants at IISER (Indian Institute of Science Education and Research) Mohali, Punjab.
- 2014 – Resource person and delivered invited talk on “Role of Natural History in Science” in Inspire Programme at ISF College of Pharmacy, Moga, Punjab.
- 2014 – Resource person and delivered invited talk on “The Joy of Evolution and Biodiversity” in Inspire Programme at ISF College of Pharmacy, Moga, Punjab.
- 2013 – Delivered invited talk on “Indian Ants: Current Knowledge and Future Plans”, at Wildlife Institute of India, Dehradun.
- 2013 – Delivered invited talk on “Ants, the Pinnacle of Evolution” at Wildlife Department, Manali as part of wildlife week Celebrations.
- 2013 – Delivered invited talk on “Role of Natural History in the Growth of Taxonomic Thought: A Case Study with Himalayan Ants” at Regional at Regional Science Centre and Planetarium, Kozhikode, Kerala.
- 2013 – Delivered invited talk on “Ants: The Superorganism” in Social Insects Workshop organized by Society for Environment held at Department of Zoology and Environmental Sciences, Punjabi University, Patiala.
- 2011 – Delivered invited talk on “Ants as Pests: What We lack in Management”, at the 23rd FAOPMA Annual Convention & 44th IPCA Annual Convention, at Goa.
- 2010 – Delivered invited talk and chaired session in National Consultation on “Advancing the Science of Taxonomy in India for Biodiversity Conservation”, held at ATREE Bangalore.

2009 – Resource person and delivered invited talk on “Ants as a Super-Organism: Friends or Foes”, at 2nd Annual Convention of the Indian Pest Control Association (IPCA), held at Chokhi Dhani, Jaipur.

2007 – Resource person and delivered invited talk on “Role of Computer tools in taxonomy” in “Research Interface workshop on insect diversity with emphasis on micro Lepidoptera” sponsored by Ministry of Environment and Forest, Govt. of India at Department of Zoology, Punjabi University, Patiala.

9. GRANTS RECEIVED/SANCTIONED TO ATTEND INTERNATIONAL CONFERENCES/ SEMINARS

2003, 2009, 2011– DST (Department of Science and Technology, Govt. of India, New Delhi)

2013– University of Malaysia Sabah, Malaysia

2014 – IUSI (International Union for Study of Social Insects)

2014 – Royal Entomological Society, London

2019 – Kasestart University Bangkok

10. INTERNATIONAL/NATIONAL WORKSHOPS/CONFERENCES ORGANIZED

2023– Organised (Co-convenor) International Conference on the Growth of Biological Sciences at Punjabi University, Patiala 2-4 March, 2023

2022 – Organised International Conference on Insect Systematics and Evolutionary Biology at Punjabi University, Patiala 16-18 February, 2022 [ISEB3 \(google.com\)](https://www.google.com)

2020 –21- Organized 13 Webinars at Department of Zoology and Environmental Sciences, Punjabi University, Patiala. Available on:

<https://www.youtube.com/channel/UCV2Wvbnsoy3cuJZXO80GeRA/videos>

2017 – Organized International Conference in Zoological Sciences at Department of Zoology, Punjabi University, Patiala in October 26-28, 2017.

2013 – Member of the symposium organized by MGSREE ("Monachus" group of Scientific Research and Ecological Education, Constanta, Romania).

2011 – Member of the Organizing Committee of “International Conference on Ants-8th ANeT” to be held at Prince of Songkla University, Thailand from 17th October, 2011 to 21st October, 2011.

2010 – Organized “Group Interaction workshop (GIW) for ongoing/completed projects funded by DST at Punjabi University, Patiala in February, 2010.

2009 – Member of the Organizing Committee of “International Conference on Ants” held at Cibados Botanical Garden, Indonesia in November-December, 2009.

2007– Organized International Conference on “Ants and other Social Hymenoptera” at Department of Zoology, Punjabi University, Patiala in October, 2007.

11. SCIENTIFIC EDUCATION/TRAINING

2014 – As instructor/curator/resource person for “Ant Course” held at Borneo from 21st July to 31st July 2014.

2011 – Imparted training to undergraduate/graduate students on “Ant Taxonomy” at Prince of Songkla University, Thailand from 17th October, 2011 to 21st October, 2011

2001 – Present: Involved in training school children on significance on Social Insects.

12. GENERAL ARTICLES/INTERVIEWS/OUTREACH ACTIVITIES

1. **Bharti, H.** 2022. Edward Wilson: The Lord of the Ants. *Resonance*, 27(8) : 1281-1288. <https://www.ias.ac.in/article/fulltext/reso/027/08/1281-1288>
2. **Bharti, H.** 2015. The significance of Natural History: A Case of Ants. 63-65 (Souvenir of Children's Science Congress under the aegis of National Council for Science & Technology Communication (NCSTC), an apex body under the Department of Science & Technology organised at Chandigarh University, Mohali, Punjab from December 27-31, 2015)
3. **Bharti, H.** 2012. Ants the Superorganisms of the World. *Science Reporter* 49(3):19-23.
4. **Bharti, H.** 2012. Ants as Pest. *Clean India Journal*. January issue: 58-59.
4. Interviews in magazines/newspapers (Outlook, Down to Earth, The Daily Telegraph, Endangered species, Mail Today etc.)
5. Radio talks: All India Radio 100.2 FM National Science Day 28.2.21

13. TECHNICAL PROFICIENCY/BIOGRAPHICAL DETAIL

Dr. Himender Bharti has been delving on 'Systematics and Evolution of Ants' for the last twenty years. His efforts have culminated in building up database and reference collection of Indian, Sri Lankan, Nepalese and Bhutanese ants. He has the distinction of visiting Natural History Museum, London and many other Natural History collections in Asia. His passion for the natural history has led to the discovery of about 100 new species of ants (including two potential redlist species), out of which ninety per cent are endemic to the region. He is using ants as indicators of ecosystem health to assess the impact of anthropogenic activities. Dr. Bharti in collaboration with other myrmecologists of the world is mapping the Zoogeographical patterns of Asian ants. Besides, he is also actively involved in red listing and conservation of ants in South-east Asia. Currently, he is deciphering the intricacies of evolution/speciation patterns in Himalayan ants with the help of molecular tools and is also involved in Global project on ant genomics, Formicidae Barcode of Life Project, which aim to provide a comprehensive dataset of the genomic diversity of ants.

14. Ph.D. STUDENTS GUIDED/UNDER GUIDANCE: 19

1	Mr. Yash Paul Sharma	Diversity and abundance of ants (Hymenoptera:Formicidae) along an elevational gradient in Jammu-Kashmir Himalaya	Degree awarded
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2	Mr. Irfan Gul	Taxonomic studies on select ant taxa (Hymenoptera: Formicidae) restricted to high altitude regions of North-west Himalaya	Degree awarded
3	Mr. Aijaz Ahmed Wachkoo	Taxonomy and species composition of Aenictinae, Cerapachyinae, Dorylinae, Formicinae and Ponerinae (Hymenoptera: Formicidae) from North-west Shivalik	Degree awarded
4	Mr. Rakesh Kumar	Taxonomy and species composition of Dolichoderinae, Myrmicinae and Pseudomyrmecinae (Hymenoptera: Formicidae) from North-west Shivalik	Degree awarded
5	Mr. Shahid Ali	Taxonomic studies on ants (Hymenoptera: Formicidae) from Western Ghats of India	Degree awarded
6	Mr. Joginder Singh	Taxonomic studies on ants (Hymenoptera: Formicidae) from Eastern region of Indian Himalaya	Degree awarded
7	Ms. Pawanpreet Kaur	Ultra morphological studies on the larval stages of genus <i>Myrmica</i> Latreille, 1804 (Hymenoptera: Formicidae) with special emphasis on the taxonomic relevance	Degree awarded
8	Sheta Alemu Gebremeskel	Community participation in management of Bale Mountains National Park: Southeast of Ethiopia	Degree awarded
9	Mr. Sishal Sasi	Molecular phylogeny and phylogeography of ant genus <i>Myrmica</i> Latreille, 1804 (Hymenoptera: Formicidae) from Indian Himalaya	Degree awarded
10	Ms. Rasneet Kaur	Molecular phylogeny and phylogeography of ant genus <i>Aphaenogaster</i> Mayr, 1853 (Hymenoptera: Formicidae) from Indian Himalaya	Degree awarded
11	Mr. Tarun Dhadwal	Taxonomic studies on Genus <i>Camponotus</i> Mayr, 1861 (Hymenoptera: Formicidae) from India	Degree awarded
12	Ms. Jaspreet Kaur	Ultra morphology of larval stages of some select genera across subfamily Myrmicinae (Hymenoptera: Formicidae) and its Evolutionary Significance	Registered

13	Mr. Indra Prasad Subedi	Ant Diversity and Distribution in Shivapuri-Nagarjun National Park, Central Nepal	Degree awarded (Tribhuvan University, Nepal)
14	Ms. Radha Barve	Molecular Phylogeny, Phylogeography of Indian species of genus <i>Polyrhachis</i> Smith, 1857 (Hymenoptera: Formicidae) with a focus on macroevolutionary patterns and trait correlation along latitudinal gradient	Registered
15	Mr. Parvinder Singh	An Integrative Approach to Species delimitation in ants of genus <i>Leptogenys</i> Roger, 1861 (Hymenoptera: Formicidae: Ponerinae) with emphasis on Molecular Phylogeny and Natural History	Registered
16	Ms. Harmanbir Kaur Randhawa	Ultramorphology and Phylogenetic relevance of Antennal Sensilla across Ponerinae (Hymenoptera: Formicidae)	Registered
17	Ms. Harshita Sharma	Ultramorphology and diversity of Antennal Sensilla across Myrmicinae (Hymenoptera: Formicidae)	Registered
18	Mr. Rakeshwar Kapoor	Taxonomical Reassessment, Molecular Phylogeny and Phylogeography of genus <i>Crematogaster</i> Lund, 1831 (Hymenoptera: Formicidae: Myrmicinae) from India	Registered
19	Mr. Abdullah Haidary		Enrolled
20	Ms. Shaweta Sharma		Enrolled

15. M.Phil./Masters STUDENTS GUIDED/UNDER GUIDANCE: 9

1.	Ms. Bandna Bhatti	Taxonomic and ecological notes on some ponerines (Hymenoptera: Formicidae) from Punjab Shivalik	Degree awarded
2.	Ms. Amrit Deep Kaur	Seasonal Patterns of Ants (Hymenoptera: Formicidae) from	-do-

		Punjab Shivalik	
3.	Ms. Silka Sila	Some notes on life history of <i>Oecophylla smaragdina</i> (Fabricius) and its potential as bio-control agent	-do-
4.	Ms. Anuradha Gill	SEM Studies on Immature Stages of <i>Pheidole indica</i> Mayr, 1879 (Hymenoptera: Formicidae: Myrmicinae)	-do-
5.	Ms. Iqbal Kaur	SEM Studies on Immature Stages of weaver ant <i>Oecophylla samargdina</i> (Fabricius, 1775) (Hymenoptera: Formicidae: Formicinae)	-do-
6.	Ms. Navpreet Dhiman	SEM Studies on Immature Stages of <i>Aphaenogaster beelsoni</i> Donisthorpe, 1933 (Hymenoptera: Formicidae: Myrmicinae)	-do-
7.	Ms. Pawanpreet Kaur	SEM Studies on Immature Stages of two species of Genus <i>Myrmica</i> Latreille, 1804 (Hymenoptera: Formicidae) from Indian Himalaya	-do-
8.	Ms. Rupali Bimbra	Scanning Electron microscopic study on the antennal sensilla of two species of genus <i>Camponotus</i> Mayr, 1861 (Hymenoptera: Formicidae)	-do-
9.	Ms. Abirami Menath	Natural History and Behavioral Ecology of Himalayan <i>Myrmica</i> species	IISER Tirupati

16. RESEARCH OUTCOME

a) Books:

- Contributory author to book “Freeman/ Herron, Evolutionary Analysis (Global Edition)” Pearson-March 2015
- Cell Biology and Ecology (2022) Pradeep Publications, Jalandhar
- Biochemistry and Human Physiology (2023) Pradeep Publications, Jalandhar
- Applied Zoology (2022) Pradeep Publications, Jalandhar

b) Book Reviews:

- (i) A Guide to the Ants of Jambi by Jochen Drecher and Rizky Nazarreta

- (ii) Experiments in Animal Behaviour: Cutting-Edge Research at Trifling Cost by Raghvendra Gadagkar (https://science.thewire.in/the-sciences/review-raghavendra-gadagkars-new-book-is-a-treat-for-younger-scientists/?fbclid=IwAR1Pb-uKDYcBIqprlPxpXjqGBtDzFwXdCv2QQxR_R06LmEewLOKcAMAKQfE)

c) Technical Reports:

- 2001–Bharti, H. “Taxonomic studies on Ants from North-west India “submitted to Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi.
- 2004 – Bharti, H. “Taxonomic studies on Ants from India (North-west India)” submitted to Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi.
- 2008 – Bharti, H. “Ant Diversity of Himalayas: A Fragile Ecosystem” submitted to Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi.
- 2011 –Bharti, H. “Evaluation/trials on Imidacloprid 0.03% Ant Gel-Maxforce Quantum” submitted to Bayer Crop Science limited, Mumbai.
- 2012 –Bharti, H. “Social Parasitism in Himalayan Ants and their Speciation Patterns” submitted to Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi.
- 2012 – Bharti, H. “Study of ant species abundance and composition with respect to functional groups from lower Siwalik range of North-west Himalaya” submitted to Ministry of Environment and Forest, Govt. of India, New Delhi.
- 2015 – Bharti, H. “Diversity and Abundance of Ants from Sikkim and Arunachal Pradesh” sanctioned by Ministry of Environment and Forest, Govt. of India, New Delhi.
- 2016 – Bharti, H. “Molecular Phylogeny and biology of high altitude ants of genus *Myrmica* (Hymenoptera: Formicidae)” sanctioned by Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi.
- 2018 – Bharti, H. “All India Coordinated Project on capacity Building in Taxonomic (Hymenoptera: Formicidae) from India” sanctioned by Ministry of Environment and Forest, Govt. of India, New Delhi.

17. LIST OF ALL RELEVANT SCIENTIFIC PUBLICATIONS

1. **Bharti, H.**, Bharti, M. and Menath, A. 2023. Surviving in the Himalaya: A story of endurance in Ants. *Journal of the Indian Institute of Science*, <https://doi.org/10.1007/s41745-023-00408-2>. **Impact Factor: 2.3.**
2. **Bharti, H.**, Kaur, J., Fox E. and Bharti, M 2023. Larval instar estimation and ultra-structural analysis of *Aphaenogaster cristata* (Forel, 1902) and *Aphaenogaster pachei* (Forel, 1906) (Hymenoptera: Formicidae) from the Himalaya. *Entomological Science* (accepted). **Impact Factor: 0.9.**
3. Akbar, S. A., Schifani, E., **Bharti, H.** and Wachkoo, A. A. 2023. Taxonomic overview of the *Tetramorium tortuosum* group (Hymenoptera, Formicidae) in India and Sri Lanka, with descriptions of three new species from the Western Ghats biodiversity hotspot. — *Ann. Zool. Fennici* 60: 109–126. **Impact Factor: 0.7.**
4. Kumar, Y., [Guareschi](#), Eda E., **Bharti, H.** and Magni, Paola, A. 2023. Haemorrhagic Artefacts Produced by Ant Activity on Human Cadavers in the Early Post-Mortem Period. *Forensic Science*, 3(3), 506-520; <https://doi.org/10.3390/forensicsci3030035>
5. **Bharti, H.**, Bharti, M., Kaur, P. and Kaur, J. 2023. On the Description of the Larval Stages of *Myrmica inezae* Forel, 1902 (Hymenoptera: Formicidae: Myrmicinae), an Endemic Himalayan Species, with Notes on its Natural History. *Sociobiology*, **70** (3): e9977. **Impact Factor: 0.9.**
6. Dhadwal, T. and **Bharti, H.** 2023. *Aenictus dirangensis* sp. nov. (Hymenoptera: Formicidae), a New Species of *Aenictus ceylonicus* Group from India. *Journal of the Entomological Research Society* **25** (2): 387-403. <https://doi.org/10.51963/jers.v25i2.2367> **Impact Factor: 0.550.**
7. Dhadwal, T. and **Bharti H.** 2023. Two new species of genus *Camponotus* Mayr, 1861 (Hymenoptera: Formicidae) with five new records from India. *European Journal of Taxonomy* (accepted). **Impact Factor: 1.2.**
8. Dhadwal, T., Rilta, J.S. and **Bharti H.** 2023. Taxonomic studies on the genus *Vollenhovia* Mayr, 1865 (“Hymenoptera: Formicidae”) from India. *Sociobiology*. (accepted). **Impact Factor: 0.9.**
9. Dhadwal, T. and **Bharti H.** 2023. *Colobopsis kapilashi* sp. nov. (Hymenoptera: Formicidae) a new ant species from India with a key to the Indian species. *Journal of Natural History* (accepted). **Impact Factor: 0.8.**
10. Kaur, J., Fox, E., Bharti, M. and **Bharti, H.** 2023. Larval instar estimation and ultra-structural analysis of *Aphaenogaster pachei* (Forel, 1906) and *Aphaenogaster cristata* (Forel, 1902) (Hymenoptera: Formicidae), from the Himalaya. *Entomological Science* (accepted). **Impact Factor: 0.9.**

11. Akbar, S.A., **Bharti, H.** and Wachkoo, A.A. 2023. *Crematogaster bonnieae* (Hymenoptera, Formicidae), a new acrobat-ant species from the Western Ghats, India. *Annales Zoologici Fennici* 60: 9-17. **Impact Factor: 1.050.**
12. Subedi, I.P., **Bharti, H.**, Budha, P.B, Alonso, L.E. and Yamane, S. 2023. Ponerine ants of Nepal (Hymenoptera: Formicidae, Ponerinae): a generic synopsis, new faunal records, and rediscovery of a rare ant, *Emeryopone franzi* (Baroni Urbani 1975). *Asian Myrmecology*, Volume 16, e016003, DOI: 10.20362/am.016003 **Impact Factor: 0.8.**
13. Bharti, M. and **Bharti, H.** 2023. Insects in recreation, in *Insects as Service Providers*, published by Springer Nature Singapore, Pvt. Ltd.
14. Dhadwal, T. and **Bharti, H.** 2022. A new species of ant genus *Stictoponera* Mayr, 1887 (Hymenoptera: Formicidae) from India. *Asian Myrmecology*, 16, e016002, DOI: 10.20362/am.016002 **Impact Factor: 0.8.**
15. Dhadwal, T. and **Bharti, H.** 2022. *Lordomyrma mewasinghi*, a new species of the ant genus *Lordomyrma* (Hymenoptera: Formicidae) from India. *Asian Myrmecology*, 16, e016001, DOI: 10.20362/am.016001 **Impact Factor: 0.8.**
16. Akbar, S.A., **Bharti, H.** and Wachkoo, A.A. 2022. An unusual worker morph of *Diacamma ceylonense* Emery, 1897 (Hymenoptera: Formicidae). *Revista de la Sociedad Entomológica Argentina*, 81(3): 54-58.
17. Dhadwal, T. and **Bharti, H.** 2022. *Carebara periyarensis* sp. nov. (Hymenoptera: Formicidae) a New Species from India. *Journal of Entomological Research Society* 24(3): 407-415. **Impact Factor: 0.550.**
18. Subedi, I.P., Budha, P.B, Zalimkhan, M. Yusopov and **Bharti, H.** 2022. Myrmicine ants of Nepal with six new records and updated species list (Hymenoptera: Formicidae: Myrmicinae). *Nepalese Journal of Zoology*, 6(1):10–19. <https://doi.org/10.3126/njz.v6i1.46749>.
19. **Bharti, H.**, Rilta, J.S. and Dhadwal, T. 2021. Two new species of *Ooceraea* (Hymenoptera, Formicidae, Dorylinae) from India with ten-segmented antennae. *ZooKeys* 1010: 165–183. DOI: 10.3897/zookeys.1010.58436. **Impact Factor: 1.496.**
20. Dhadwal, T. **Bharti, H.** 2021. First Record of *Camponotus japonicus* Mayr, 1866 (Hymenoptera: Formicidae) from India. *Halteres*, 12: 74-79.
21. Akbar, S.A., **Bharti, H.** Kanturski, M. and Wachkoo, A.A. 2021. First record of the myrmicine ant genus *Syllophopsis* Santschi, 1915 (Hymenoptera: Formicidae) from India with description of a new species. *Zootaxa* 4985 (3): 403–413 **Impact Factor: 1.091.**

22. Subedi, I.P., **Bharti, H.**, Budha, P.B and Alonso, L.E. 2021. First record of two Doryline ant genera *Cerapachys* Smith, 1857 and *Parasyscia* Emery, 1882 (Hymenoptera: Formicidae) from Nepal. *Halteres* 12: 15-21.
23. Dendup, K.C., Dorji, C., Dhadwal, T. **Bharti, H.** and Pfeiffer, M. 2021. A Preliminary Checklist of Ants from Bhutan. *Asian Myrmecology* 14: e014005 (1-14). **Impact Factor: 0.8.**
24. Subedi, I.P., Budha, P.B., **Bharti, H.**, Alonso, L. and Yamane, S. 2021. First record of the ant subgenus *Orthonotomyrmex* of the genus *Camponotus* from Nepal (Hymenoptera, Formicidae). *Zoodiversity* 55(4): 279–284.
25. Wachkoo, A.A., **Bharti, H.**, Akbar, S.A. 2021. Taxonomic review of the ant genus *Lepisiota* Santschi, 1926 (Hymenoptera: Formicidae: Formicinae) from India. *Bonn Zoological Bulletin* 70(2): 227-245.
26. Subedi, I.P., Budha, P.B., **Bharti, H.**, Alonso, L. 2020. An updated checklist of Nepalese ants (Hymenoptera: Formicidae) *Zookeys* 1006: 99-136. DOI: 10.3897/zookeys.1006.58808. **Impact Factor: 1.496.**
27. Akbar, S. A., **Bharti, H.** 2020. *Myrmoterax scabrum* Moffett, 1985 (Hymenoptera: Formicidae), A Rare ant of Western Ghats of India. *The National Academy of Science letters* 43: 427–429. DOI: 10.1007/s40009-020-00900-8 **Impact Factor: 0.788.**
28. Wachkoo, A.A., **Bharti, H.**, Akbar, S.A. 2020. Taxonomy and geographic distribution of the ant genus *Odontoponera* Mayr, 1862 (Hymenoptera: Formicidae) in India. *Entomologist's Monthly Magazine* 156: 245–252. DOI: 10.31184/M00138908.1564.4049.
29. **Bharti, H.**, Kaur, P. and Bharti, M. 2019. Description of the ant larvae of two species of the genus *Myrmica* Latreille, 1804 (Hymenoptera: Formicidae) from Indian Himalayas. *Asian Myrmecology* 11: e011004. **Impact Factor: 0.8.**
30. Streinzer, M., Chakravorty, J., Neumayer, J., Megu, K., Narah, J., Schmitt, T., **Bharti, H.**, Spaethe, J. and Brockmann, A. 2019. Species composition and elevational distribution of bumble bees (Hymenoptera, Apidae, *Bombus* Latreille) in the East Himalaya, Arunachal Pradesh, India. *Zookeys* 851: 71–89. doi: 10.3897/zookeys.851.32956. **Impact Factor: 1.496.**
31. Dad, J.M., Akbar, S.A., **Bharti, H.** and Wachkoo, A. A. 2019. Community structure and ant species diversity across select sites of Western Ghats, India. *Acta Ecologica Sinica* 39(3): 219-228. DOI: 10.1016/j.chnaes.2018.12.008.
32. Alemu, S. and **Bharti, H.** 2019. Considering the Needs of the Local Communities for Greater Representations in the Management of Bale Mountains National Park, Ethiopia. *International Journal of Research and Analytical Reviews* 2(2):276-283.

33. Akbar, S.A, **Bharti, H** and Wachkoo, A.A. 2017. Discovery of Remarkable New Ant Species of the Genus *Pseudolasius* Emery (Hymenoptera: Formicidae) From Western Ghats of India. *Sociobiology* 64(2): 133-137. DOI: 10.13102/sociobiology.v64i2.1188 **Impact Factor: 0.9.**
34. **Bharti, H.**, Wachkoo, A. A. and Kumar, R. 2017. First Inventory of Ants (Hymenoptera: Formicidae) in Northwestern Shivalik, India. *Halteres* 8: 33-68 doi: 10.5281/zenodo.582706.
35. Akbar, S. A and **Bharti, H.** 2017. A New Species of the Ant Genus *Carebara* Westwood (Hymenoptera: Formicidae) from India. *Journal of Entomological Research Society* 19(3): 35-43. **Impact Factor: 0.550.**
36. Bharti, M and **Bharti, H.** 2017 ANeT INDIA Meeting October 2017. *Asian Myrmecology* 9 e009018. **Impact Factor: 0.8.**
37. **Bharti, H.**, Sasi, S. and Radchenko, A. 2016. Biogeography and Ecology of *Myrmica* species (Formicidae: Myrmicinae) in Himalayan regions. *Sociobiology* 63(3): 956-975. DOI: 10.13102/sociobiology.v63i3.1145 **Impact Factor: 0.9.**
38. **Bharti, H.**, Bharti, M. and Pfeiffer, M. 2016. Ants as bioindicators of ecosystem health in Shivalik Mountains of Himalayas: assessment of species diversity and invasive species. *Asian Myrmecology* 8: 1-15. DOI: 10.20362/am.008023 **Impact Factor: 0.8.**
39. **Bharti, H.**, Radchenko, A. and Sasi S. 2016. Socially-Parasitic *Myrmica* species (Hymenoptera, Formicidae) of Himalaya, with the description of a new species *ZooKeys*, 605: 113–129. **Impact Factor: 1.496.**
40. **Bharti, H.**, Gul, I. and Sasi, S. 2016. Taxonomy of *Temnothorax simlensis* stat. nov. (Hymenoptera: Formicidae) with first description of sexual castes along with a mention of its plesio-biotic association with Himalayan species of genus *Myrmica*. *Sociobiology* 63(2): 748-754 **Impact Factor: 0.9.**
41. Boudinot, B.E., Wachkoo, A. A. and **Bharti, H.** 2016. The ergatoid male of *Platythyrea sagei* FOREL, 1900 (Formicidae: Ponerinae), with a discussion of the colonial role of male ants. *Myrmecological News* 22: 59-64 **Impact Factor: 4.1.**
42. **Bharti, H.**, Guénard, B., Bharti, M. and Economo, E.P. 2016. An updated checklist of the ants of India with their specific distributions in Indian states (Hymenoptera, Formicidae) *ZooKeys* 551: 1–83 **Impact Factor: 1.496.**
43. B. Seifert, A. Buschinger, A. Aldawood, V. Antonova, **H. Bharti**, L. Borowiec, W. Dekoninck, D. Dubovikoff, X. Espadaler, J. Flegr, C. Georgiadis, J. Heinze, R. Neumeyer, F. Odegaard, J. Oettler, A. Radchenko, R. Schultz, M. Sharaf, J. Trager, K. Vepsäläinen, A. Vesnić, M. Wiezik, H. Zettel. 2016. Banning paraphylies and executing

- Linnaean taxonomy is discordant and reduces the evolutionary and semantic information content of biological nomenclature. *Insectes Sociaux* 63(2): 237-242. DOI 10.1007/s00040-016-0467-1 **Impact Factor: 1.946.**
44. **Bharti, M.** and **Bharti, H.** 2016. Association and impact of ectoparasitic blowflies (Diptera: Calliphoridae) on Himalayan ants of genus *Myrmica* Latreille, 1804 (Hymenoptera: Formicidae). *Insectes Sociaux* 63(3): 477–480. DOI 10.1007/s00040-016-0480-4 **Impact Factor: 1.946.**
 45. **Bharti, H.** and Rilta, J.S. 2015. Taxonomic studies on the ant genus *Ponera* Latreille, 1804 (Hymenoptera, Formicidae), with the description of a new species from India. *ZooKeys* 526: 9–18. doi: 10.3897/zookeys.526.5971 **Impact Factor: 1.496.**
 46. Akbar, S.A. and **Bharti, H.** 2015. First verified record of the ant genus *Calyptomyrmex* (Hymenoptera: Formicidae) from India, along with a revised key to known Indomalayan species. *Biodiversity Data Journal* 3: e5420 1-9. **Impact Factor:1.3**
 47. **Bharti, H.**, Akbar, S.A. and Singh, J. 2015. *Discothyrea periyarensis* sp. n., a new proceratiine ant species (Hymenoptera: Formicidae: Proceratiinae) from India. *Caucasian Entomological Bull.* 11(1): 121–124.
 48. **Bharti, H.**, Akbar, S.A. 2015. First record of genus *Protanilla* (Hymenoptera: Formicidae: Leptanillinae) from India with description of a new species. *Journal of Asia-Pacific Entomology* 18: 573–576. doi: 10.1016/j.aspen.2015.04.008. **Impact Factor: 1.303.**
 49. **Bharti, H.** and Rilta, J.S. 2015. A New Species and a New Record of the Ant Genus *Stigmatomma* Roger (Hymenoptera: Formicidae) from India. *Sociobiology* 62(4): 506-512 **Impact Factor: 0.9.**
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 51. **Bharti, H.** and Wachkoo, A. A. 2015. Neotype designation and redescription of *Camponotus horseshoetus* (Hymenoptera: Formicidae) *Acta Entomologica Musei Nationalis Pragae* 55(1): 381–385 **Impact Factor: 0.737.**
 52. Wachkoo, A. A. and **Bharti, H.** 2015. Taxonomic review of ant genus *Nylanderia* Emery, 1906(Hymenoptera: Formicidae) in India. *Journal of Asia-Pacific Entomology* 8:105-120 **Impact Factor: 1.303.**
 53. Wachkoo, A. A. and **Bharti, H.** 2015. Taxonomy and distribution of the ant *Cataglyphis longipedem* (Hymenoptera: Formicidae). *Biodiversity Data Journal* Doi:10.3897/BDJ.3.e4447 **Impact Factor: 1.3.**

54. **Bharti, H.** and Wachkoo, A. A. 2014. New synonymy of *Proceratium williamsi* Tiwari (Hymenoptera: Formicidae). *Zookeys* (Published by Pensoft Publishers Geo Milev Street 13a 1113 Sofia, Bulgaria) 388: 69–72 (2014) doi: 10.3897/zookeys.388.6972 **Impact Factor: 1.496.**
55. **Bharti, H.** and Wachkoo, A. A. 2014. New Combination for a Little Known Indian Ant, *Paraparatrechina aseta* (Forel, 1902) comb. n. (Hymenoptera: Formicidae). *Journal of Entomological Research Society* 16 (3): 95-99 **Impact Factor: 0.550.**
56. **Bharti, H.** and Akbar, S. A. 2014. *Meranoplus periyarensis*, a remarkable new ant species (Hymenoptera: Formicidae) from India. *Journal of Asia Pacific Entomology* 17: 811-815 dx.doi.org/10.1016/j.aspen.2014.07.014 **Impact Factor: 1.303.**
57. **Bharti, H.** and Ali, S.A. 2014. *Tetraponera periyarensis*, a New Pseudomyrmecine Ant Species (Hymenoptera: Formicidae) from India. *Asian Myrmecology* 6: 43-48 **Impact Factor: 0.8.**
58. **Bharti, H.** and Ali, S.A. 2014. Taxonomic Studies on the Genus *Myrmoteras* Forel (Hymenoptera: Formicidae), with description of two new species from India. *Journal of Entomological Research Society* 16(2): 71-80 **Impact Factor: 0.550.**
59. **Bharti, H.** 2014. Biogeographical Patterns of Indian Ants in an edited book entitled “Forest Entomology Emerging Issues and Dimensions” published by Narendra Publishing House, Delhi (pages 1-201).
60. **Bharti, H.** and Wachkoo, A. A. 2014. A new carpenter ant, *Camponotus parabarbatus* (Hymenoptera: Formicidae) from India. *Biodiversity Data Journal* 2: e996.doi: 10.3897/BDJ.2.e996. **Impact Factor: 1.3.**
61. **Bharti, H.** and Akbar, S.A. 2014. New additions to ant genus *Carebara* westwood (Hymenoptera: Formicidae: Myrmicinae) from India. *Acta Zoologica Academiae Scientiarum Hungaricae* 60 (4): 313-324 **Impact Factor: 0.8.**
62. **Bharti, H.** and Singh J. 2014. First Record of Genus *Pristomyrmex* Mayr 1866 (Hymenoptera: Formicidae) from India. *Halteres* 5: 1-2.
63. Wachkoo, A. A. and **Bharti, H.** 2014. First description of the worker caste of *Nylanderia smythiesii* (Hymenoptera: Formicidae). *Biodiversity Data Journal* (2):e1163.doi: 10.3897/BDJ.2.e1163 **Impact Factor: 1.3.**
64. **Bharti, H.**, Gul, I. and Dubovikoff, D.A. 2014. First description of male of *Cataglyphis cugiai* Menozzi, 1939 (Hymenoptera: Formicidae) from Himalaya, with notes on the species ecology and biodiversity conservation of the region. *Caucasian Entomological Bulletin* 10(1): 137-139.

65. **Bharti, H.** and Gul, I. 2014. First description of the male caste of the Himalayan endemic ant *Lasius alienoflavus* Bingham, 1903 (Hymenoptera: Formicidae), with re-description of the female and queen castes. *Biodiversity Data Journal* (2): e1136.doi: 10.3897/BDJ.2.e1136 **Impact Factor: 1.3.**
66. Wachkoo, A.A. and **Bharti, H.** 2014. Two new species of *Pseudolasius* (Hymenoptera: Formicidae) from India. *Sociobiology* 61(3): 274-280 **Impact Factor: 0.9.**
67. **Bharti, H.** and Ali, S.A. 2013. New species of the Ant Genus *Lordomyrma* (Hymenoptera: Formicidae: Myrmicinae) from India. *Myrmecological News* 18: 149-152 **Impact Factor: 4.1.**
68. **Bharti, H.** and Ali, S. 2013. Taxonomic studies on the ant genus *Cerapachys* Smith (Hymenoptera, Formicidae) from India. *Zookeys* 336: 79–103 (2013) doi: 10.3897/zookeys.336.5719 **Impact Factor: 1.496.**
69. **Bharti, H.** and Ali, S. 2013. Taxonomic Studies on Ant Genus *Strumigenys* Smith, 1860 (Hymenoptera, Formicidae) With Report of Two New Species and Five New Records Including a Tramp Species From India. *Sociobiology* 60(4): 387-396 (2013) doi: 10.13102/sociobiology.v60i4.387-396 **Impact Factor: 0.9.**
70. **Bharti, H.**, Kumar, R. and Dubovikoff, D.A. 2013. A new species of the genus *Tapinoma* Foerster, 1850 (Hymenoptera: Formicidae) from India. *Caucasian Entomological Bulletin* 9(2):303-304.
71. **Bharti, H.** and Gul, I. 2013. *Lasius elevatus*, a new ant species of subgenus *Cautolasius* (Hymenoptera: Formicidae) from Indian Himalaya. *Asian Myrmecology* 5: 53-58 **Impact Factor: 0.8.**
72. **Bharti, H.** and Sharma, Y.P. 2013. Three new species of genus *Myrmica* (Hymenoptera: Formicidae) from Himalaya. *Journal of Asia Pacific Entomology* 16: 123-130 **Impact Factor: 1.5.**
73. **Bharti, H.** and Kumar, R. 2013. Five new species of *Dilobocondyla* (Hymenoptera: Formicidae) with a revised key to the known species. *Asian Myrmecology* 5: 29-44 **Impact Factor: 0.8.**
74. **Bharti, H.** and Wachkoo, A.A. 2013. Two new species of trap jaw ant *Anochetus* (Hymenoptera: Formicidae), with a key to known species from India. *Journal of Asia Pacific Entomology* 16: 137-142 **Impact Factor: 1.5.**
75. **Bharti, H.** and Wachkoo, A.A. 2013. Two new species of the ant genus *Leptogenys* (Hymenoptera: Formicidae) from India, with description of a plesiomorphic ergatogyne. *Asian Myrmecology* 5: 11-19 **Impact Factor: 0.8.**

76. **Bharti, H.** and Wachkoo, A.A. 2013. *Cryptopone subterranean* sp. nov., a rare cryptobiotic new ant species (Hymenoptera: Formicidae) from India. *Asian Myrmecology* 5: 1-4 **Impact Factor: 0.8.**
77. **Bharti, H.** and Wachkoo, A.A. 2013. *Cerapachys browni* and *Cerapachys costatus*, two new rare ant species (Hymenoptera: Formicidae) from India. *Biologia* 68 (6): 1189-1192 **Impact Factor: 1.35.**
78. **Bharti, H.** and Kumar, R. 2013. Six New Species of *Carebara* Westwood (Hymenoptera: Formicidae) with Restructuring of World Species Groups and a Key to Indian Species. *Journal of Entomological Research Society* 15(1):47-67 **Impact Factor: 0.550.**
79. **Bharti, H.**, Kaur, N., Bharti, M. and Wachkoo, A.A. 2013. SEM studies on immature stages of *Aphaenogaster beelsoni* Donisthorpe, 1933 (Hymenoptera: Formicidae). *Halteres* 4: 68-78.
80. **Bharti, H.**, Sharma Y.P., Bharti, M. and Pfeiffer, M. 2013. Ant species richness, endemism and functional groups, along an elevational gradient in the Himalayas. *Asian Myrmecology* 5: 79-101 **Impact Factor: 0.8.**
81. **Bharti, H.** and Kumar, R. 2013. A new species of *Vollenhovia* (Hymenoptera: Formicidae) from India with key to known Indian species. *Vestnik Zoologii* 47(2): 67-69.
82. **Bharti, H.** 2012. *Myrmica nefaria* (Hymenoptera: Formicidae) a new social parasite from Himalaya. *Myrmecological News* 16: 149-156 **Impact Factor: 4.1.**
83. **Bharti, H.**, Gul, I. and Sharma, Y.P. 2012. Two New Species of *Stenammas* (Hymenoptera: Formicidae) from Indian Himalaya with a Revised Key to the Palaearctic and Oriental Species. *Sociobiology* 59(2):1-14. **Impact Factor: 0.9.**
84. **Bharti, H.** and Kumar, R. 2012. *Lophomyrmex terraceensis*, a new ant species (Hymenoptera: Formicidae) of *bedoti* group with a revised key. *Journal of Asia Pacific Entomology* 15: 265-267 **Impact Factor: 1.5.**
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