

## **BIODATA**

**DR. UMESH BAHRTI (ASSOCIATE PROFESSOR)**

**Department of Zoology,**

**(PG Govt. College for Girls-11, Chandigarh)**

**EDUCATIONAL QUALIFICATIONS:** M.Sc. (Zoology), M.Phil, JPT, MEd.

Ph D (Applied Entomology)

**Date of Joining:** 22.08 1998

**TEACHING EXPERIENCE:** 22 Years

**Present Designation:** Associate Professor

### **MEMBERSHIPS:**

- ❖ Elected Added member to faculty of Science, Panjab University, Chandigarh (2016-18 and 2019-21)
- ❖ Panjab Science Congress- Life membership.
- ❖ Co-editor of Biospectrum.
- ❖ Member UG board of studies of Zoology (2011-13)
- ❖ Member board of studies in M Sc Environment science & solid waste management (2015-17 and 2019-21).
- ❖ Member PG board of studies of Zoology (2017-19 and 2019-21)
- ❖ Co-opted member in the faculty of Dairy, Animal Husbandry & Agriculture (2015-17).
- ❖ Member Association Biology teachers (Registered) life member.
- ❖ Community Hygiene & Public Health Society.
- ❖ Member Alumini, PGGCG-11-Chd.
- ❖ Member Alumini, Punjabi University-Patiala
- ❖ Member Alumini, Panjab University- Chandigarh



### **LIST OF PAPERS PUBLISHED:**

1. Dalip Kumar and Umesh Bharti (2015). **Tropic niche specialization of Butea monosperma from Chandigarh**, Journal of Entomology and Zoology Studies 2015; 3(4): 83-85, ISSN: 2349-6800 (**UGC JOURNAL NO.: 49325**)
2. Anita Kaushal and Umesh Bharti (2015). **‘Microbial Kitchen Waste Composting: Effective Environmentally Sound Alternative of Solid Waste Management’** International Journal of Recent Scientific Research 6(12):7651-7654 . **UGC JOURNAL NUMBER: 49336**
3. Anita Kaushal and Umesh Bharti (2015). Research paper entitled **‘Management of Leaf Compost- A Way for Sustainable Development’** International journal of Science and Research 4(11):1`849-1851.  
[https://www.ijsr.net/get\\_abstract.php?paper\\_id=NOV151487](https://www.ijsr.net/get_abstract.php?paper_id=NOV151487)

4. Dalip Kumar, Vineeta Sharma and Umesh Bharti (2016) **Floral inventory of wild honey bee forage**. International journal of scientific research 5(2):23-25 (ISSN No. 2277-8179) **UGC Sr.No.49217**
5. Dalip Kumar, Vineeta Sharma , Umesh Bharti and Sunaina Jaswal (2016). **Honey Bee Forage Calender of Chandigarh Region**, Proceedings of National Conference on Recent Trends in environment, Science and Technology, Rayat-Bahra University:220-222 (ISBN: 978-93-84935-82-5)RTEST-2016
6. Umesh Bharti, **Spectrum of Quality Movements in Indian Higher Education Sector**,(2016). Chapter in Edited Book RUSA-As Quality Intervention in the Higher Education Sector:28-31 (ISBN: 978-93-5113-743-6) 2016
7. Umesh Bharti, Neelima R. Kumar and Jaspreet Kaur (2016). **Ameliorating effect of Bee Pollen against Anti-Tuberculosis drugs (Rifampicin and Isoniazid) induced toxicity on Haematology of Sprague Dawley Rats**. International Journal of Science and Research: ISSN No. 2319-7064: 5(2). [https://www.ijsr.net/get\\_abstract.php?paper\\_id=NOV162998](https://www.ijsr.net/get_abstract.php?paper_id=NOV162998)
8. Umesh Bharti, Neelima R. Kumar and Jaspreet Kaur (2017). **“Protective effect of bee propolis against anti-tuberculosis drugs (rifampicin and isoniazid) induced haematological toxicity in Sprague Dawley rats”**. Asian journal of pharmaceutical and clinical research, Vol.10, Issue 3 March2017 Page: 188-190 (UGC approved) Print ISSN- 0974-2441. SCOPUS <https://www.scopus.com/sourceid/19700174904?origin=recordpage>
9. Umesh Bharti, Neelima R Kumar, Jaspreet Kaur (2017). **Modulatory activity of bee pollen against the toxicity of antituberculosis drugs rifampicin and isoniazid in testis of Sprague dawley rats**, Asian Journal of Pharmaceutical and Clinical Research , Vol 10 Issue 9 September 2017 Page: 161-163, Print ISSN: 0974-2441 UGC approved SCOPUS <https://www.scopus.com/sourceid/19700174904?origin=recordpage>
10. Anita Kaushal and Umesh Bharti (2018). **A Survey and Evaluation of Human Genetic Traits in Female Population of Chandigarh and Adjoining States of India**. International Journal for Research in Applied Science & Engineering Technology, Volume 6 Issue III, 2418-2424, March 2018 **UGC Approved no 45842** ISSN: 2321-9653 Thompson Reuters Researcher ID: N-9681- 2016
11. Anita Kaushal and Umesh Bharti (2018). **Evaluation of Dietary Intake and Food Patterns of Adolescent Girls from Chandigarh and Adjoining States of India**. International Journal for Research in Applied Science & Engineering Technology, Volume 6 **Issue III, 2493-2500, March 2018 UGC Approved no 45842 ISSN: 2321-9653**
12. Umesh Bharti, Neelima R. Kumar and Jaspreet Kaur. (2018). **'Bee pollen attenuates rifampicin and isoniazid in combination induced oxidative stress in**

13. Anita Kaushal and Umesh Bharti (2018). **Knowledge, Awareness and Perception of Polycystic Ovary, Breast Cancer, Cervix Cancer and Sexually Transmitted Diseases (STD) among Adolescent Girls of Chandigarh and adjoining states of India.** International Journal of Research and Analytical Reviews (IJRAR) September 2018, Volume 5, Issue 3 (E-ISSN 2348-1269, P- ISSN 2349-5138) UGC approved no 43602 <http://ijrar.org/ijrar%20ugc%20approval.pdf>
14. Umesh Bharti, Neelima R. Kumar, Deepti Chaudhary (2018) **Modulatory effects of propolis against oxidative stress induced by drugs: a review.** International Journal of Research and Analytical Reviews (IJRAR) October 2018, Volume 5, Issue 4 (E-ISSN 2348-1269, P- ISSN 2349-5138) UGC approved. no 43602 <http://ijrar.org/ijrar%20ugc%20approval.pdf>
15. Umesh Bharti, Neelima R. Kumar, Deepti Chaudhary (2018) **Modulatory Prospective of Bee Pollen against Oxidative Stress Induced by Drugs: A Review.** Research J. Pharm. and Tech. 11(12): December 2018 (ISSN 0974-3618 (Print) 0974-360X (Online) UGC Approved SCOPUS. <https://www.scopus.com/sourceid/21100197160?origin=resultslist>
16. Umesh Bharti, Neelima R. Kumar (2020) **'Ameolerative properties of Natural products against anti-tuberculosis drugs (Rifampicin and Isoniazid): A review'** Journal of Advanced Scientific Research, 11 (3): *suppl7*: 30-36. (ISSN 0976-9595), (ScienSage Publication, UGC CARE LIST) <https://ugccare.unipune.ac.in/Apps1/User/LR/Login?ReturnUrl=%2FApps1%2FUser%2FWebA%2FCAREList>
17. Ravneet Kaur, Anita Kaushal and Umesh Bharti (2020) A preliminary survey of emotional behaviour and health awareness among adolescent girls of Chandigarh and adjoining states of India. European journal of molecular and clinical medicine 7(8):5569-5576 (ISSN 2515-8260) Scopus enlisted.
18. Sandaldeep Kaur, Anita Kaushal and Umesh Bharti (2021) TO STUDY THE IMPACT OF MOBILE PHONE ON LIFE AND HEALTH OF INDIVIDUALS. Vidyabharati International Interdisciplinary Research Journal. 136 – 146. ISSN: 2319-4979
19. Umesh Bharti, Sandaldeep Kaur and Ravneet Kaur (2021) A SURVEY ON IMPACT OF LOCKDOWN DUE TO CORONAVIRUS 2 (SARS-CoV-2) PANDEMIC, 2019 (COVID-19) ON PSYCHOLOGICAL, MENTAL AND SOCIAL LIFE OF STUDENTS. International Journal of Biology, Pharmacy and Allied Sciences. ISSN:2277-4998
20. Umesh Bharti, Deepti Hooda, Divya Khasa and Ravneet Kaur (2021) TAXONOMIC STUDIES OF ANDRALLUS SPINIDENS (FABRICIUS) (HEMIPTERA: PENTATOMIDAE) FROM INDIA. ANN. ENTOMOL. 39(2):123-133 (ISSN: 0970-3721).
21. Ali A, Jaiswara R, Monaal, et al. Revision of the high-altitude genus Hyphinomos Uvarov, 1921 (Orthoptera: Tettigoniidae) with a redescription and new data on

mating behavior and acoustic signals of *H. svenhedini* Ramme, 1950. *Zootaxa*. 2022 Feb;5099(3):301-324. DOI: 10.11646/zootaxa.5099.3.1. PMID: 35391411.

## LIST OF PAPERS PRESENTED IN SEMINARS/CONFERENCES:

### INTERNATIONAL:

1. UMESH BHARTI, Associate Professor in Zoology presented a paper entitled **“Intraspecific competition among the larvae of *Callosobruchus analis* (F.) (Coleoptera: Bruchidae)”** in Xth European Congress of Entomology (3-8 Aug 2014) hosted by Royal Society of Entomology, at University of York, York, UK. The University Grants Commission, New Delhi provided financial assistance for this conference under Travel Grant Scheme (TGS) of UGC.
2. Umesh Bharti, NR Kumar and Jaspreet Kaur presented a poster entitled **"Protective effect of bee propolis against rifampicin induced toxicity in testis of Sprague Dawley rats"**, at the International Conference ICONICA 2020 - A Global Summit on "Next-Gen Paradigms in Health Care", held at Panjab University, Chandigarh, India on 13-14 February, 2020.
3. Anita Kaushal, Ravneet Kaur and Umesh Bharti presented a poster entitled **"Behaviour and General Health Awareness among Adolescent Girls: A Survey"**, at the International Conference ICONICA 2020 - A Global Summit on "Next-Gen Paradigms in Health Care", held at Panjab University, Chandigarh, India on 13-14 February, 2020.
4. Umesh Bharti and Ravneet Kaur (2020) presented a poster entitled **‘ Prevalence of Different types of Respiratory infections globally: A brief Review’** at International Virtual Conference on emerging infections and Zoonotic diseases, held by Chaudhary Charan University, UP and Art Of Giving Charitable trust, Sankarankovil, Tamil Nadu, India from 17-18 May, 2020.

### NATIONAL:

1. UMESH BHARTI, **Conservation of insect biodiversity with special reference to curculionid fauna** ,paper presented on 21September,2010 at National Seminar , Govt.College Panchkula
2. UMESH BHARTI, **Woman Empowerment-An Unfinished Task** paper presented on 28.1.2011 in UGC sponsored national seminar on woman empowerment in socio-cultural context: issues and concerns at pggcg-42,chd
3. UMESH BHARTI, **Institutional Planning-Concept And Formulation** paper presented on 28.3.2011 in UGC SPONSORED NATIONAL SEMINAR ON “Institutional Planning And Qualitative Development In Higher Education “
4. UMESH BHARTI, **Patent Awareness-An Effort to Protect Intangible Property**, paper presented on 31.1.2012 in Panjab University Sponsored National Conference On “Intellectual Property Rights and Its Importance in Research. Design And Development “
5. UMESH BHARTI, **Need To Revamp Internal Assessment Scheme** ,paper presented on 18.2.2012 in UGC Sponsored Workshop on Examination Reforms-A Plan Of Action At Pggcg-42,Chd
6. Ms. Umesh Bharti, **Biotechnology As A Way For Preservation Of Genetic Diversity**, paper presented in National Seminar On Biotechnology Revolution Its Socio-Economic Impact at PGGCG-42 on February, 22 ,2012

7. Ms. UMESH BHARTI, Associate Professor in Zoology presented a paper entitled **“Quality Movements in Indian Higher Education Sector”** in National Conference on RUSA held at PGGCG-42 on 13th November, 2014 organized under the aegis of Department of Higher Education, Chandigarh Administration.
8. Paper entitled **“Pharmacological Potential Of Bee Propolis Against Toxicity Induced By Antituberculosis Drugs In Testis Of Sprague Dawley Rats-A Histopathological Approach”** by Umesh Bharti, Neelima R. Kumar, Jaspreet Kaur; presented as poster at 18th Punjab Science Congress held at Desh Bhagat University, Mandi Gobindgarh from 7-9 February, 2015.
9. Paper entitled **“Study Of Ecology Of Macroorganisms In The Compost As Part Of Food Chain”** by Anita Kaushal , Shallu Uppal and Umesh Bharti presented as poster at 18th Punjab Science Congress held at Desh Bhagat University, Mandi Gobindgarh from 7-9 February, 2015.
10. Paper entitled **“Bee Propolis Protects against Doxorubicin Induced Pneumotoxicity in Spragne Dawley Rats”** by Madhavi Singh, Neetu Rani, Neelima R. Kumar, Umesh Bharti and Shivani Singla presented as poster at 18th Punjab Science Congress held at Desh Bhagat University, Mandi Gobindgarh from 7-9 February, 2015.
11. Paper entitled **“Bionomics of Serinetha Augur Fabr. (Hemiptera: Rhopalidae)”** by Mona Sharma, Azra Bano, Umesh Bharti and Dalip Kumar presented as poster at 18th Punjab Science Congress held at Desh Bhagat University, Mandi Gobindgarh from 7-9 February, 2015 .
12. Paper entitled **“Biological Comments On Pyrilla Perpusilla ( Walker ) Attacking Cymbopogon Citratus”** by M. Nira Rani, Umesh Bharti and Dalip Kumar presented as poster at 18th Punjab Science Congress held at Desh Bhagat University, Mandi Gobindgarh from 7-9 February, 2015
13. Paper entitled **“Bee Pollen Protects Against Doxorubicin Induced Pneumotoxicity In Spragne Dawley Rats** “by Neetu Rani , Madhavi Singh , Neelima R. Kumar, Umesh Bharti and Shivani Singla presented as poster at CHASCON-2015, Panjab University, Chandigarh from 25th-27th March, 2015
14. Paper entitled **“Psyllids: As Architect Of Schefflera Leaf Gall”** by Sukanya Thakur ,Neelima .Kumar ,V.P.Sharma ,Umesh Bharti presented as poster at CHASCON-2015, Panjab University, Chandigarh from 25th-27th March, 2015
15. Paper entitled **“Composting Leaves: As Soil Amendment And Conditioner”** by Anita kaushal , khushboo tank and umesh bharti presented as poster at CHASCON-2015, Panjab University, Chandigarh from 25th-27th March, 2015
16. Paper entitled **“Therapeutic Potential Of Bee Propolis Against Antituberculosis Drug Induced Toxicity In Kidney Of Male Sprague Dawley Rat: “Biochemical And Histopathological Approach”** by Umesh Bharti, Neelima R. Kumar and Jaspreet Kaur presented as poster at CHASCON-2015, Panjab University, Chandigarh from 25th-27th March, 2015
17. Presented a poster entitled **“Evolution Of Parental Care In Amphibians “** in National Seminar cum Workshop on “Trends in Animal Behaviour research” organized by department of Zoology, MCM DAV College for Woman, Sector-36 A, Chandigarh on 2nd March 2015

18. Dalip Kumar, Umesh Bharti, Neetu Monga, Divya Sharma and Sunaina Jaswal, **Molecular phylogenetic investigations on four species of genus Sitophilus (Coleopteran: Curculionidae)** ,Poster presentation at National Conference on Entomology, Punjabi University, Patiala on October, 29-30, 2015
19. Dalip Kumar, Neelam Sharma,Umesh Bharti, Neetu Monga, Sunaina Jaswal, Divya Sharma , **Evaluation of diverse techniques of DNA extraction from the rice weevil, *Sitophilus oryzae* (l) (Coleoptera: Curculionidae)** Poster presentation at National Conference on Entomology, Punjabi University, Patiala on October, 29-30, 2015
20. Anita Kaushal and Ms.Umesh Bharti presented a poster entitled '**Kitchen Waste Composting: Sustainable approach to reduce load on landfill site**' at CHASCON-2016, Panjab University, Chandigarh
21. Umesh Bharti, Neelima R. Kumar and Jaspreet Kaur "**Protective efficacy of bee pollen against toxicity induced by anti-tuberculosis drug isoniazid in testis of Sprague Dawley rats- A histopathological approach**" in two day national seminar on Animal Diseases: Impact on human health and control issues: organized by Dept. of Zoology and Dept of food science, MCM-DAV COLLEGE, SEC 36, Chandigarh on 30-31st Aug, 2016.
22. Umesh Bharti, Neelima R. Kumar and Jaspreet Kaur "**Therapeutic potential of bee pollen against toxicity induced by anti-tuberculosis drug rifampicin in Sprague Dawley rats**". Paper presentation at National conference on food security issues and environmental challenges for indian agriculture in the next decade (NCFSIECIAND) on 19th to 20th Nov, 2016 at University Auditorium, Panjab University, Chandigarh
23. Shivani Singla,Neelima R Kumar and Umesh bharti, **Ameliorative properties of the propolis against anti-cancerous drug doxorubicin induced hepatotoxicity in male rats**. Paper presentation in Punjab science Congress at IET Bhattal on 7th -9th Feb, 2017on 10th March, 2017
24. Umesh Bharti, Neelima R. Kumar and Jaspreet Kaur "**Protective influence of bee pollen on isoniazid induced toxicity in Sprague Dawley rats**". Paper presentation in CHASCON2017, Panjab University, Chandigarh on 10th March, 2017
25. Anita Kaushal and Ms.Umesh Bharti, **Composting as fall season's gift to garden**. Paper presentation in CHASCON2017, Panjab University, Chandigarh on 10th March, 2017
26. Deepti Chaudhary, Umesh Bharti and Neelima R. Kumar, poster presentation on 'Discerning migratory birds in crisis- as every species counts' in ZOOCON-2018 on Bridging the gap- biodiversity and human health organized by Zoology department, Panjab University, Chandigarh on 21<sup>st</sup> and 22<sup>nd</sup> march,2018.
27. Deepti Chaudhary, Umesh Bharti and Neelima R. Kumar Presented a poster entitling "**Saga of Biotechnology: Evolution of the revolution**" in BIO-cAMP 2018 organised by Department of Biotechnology, UIET, Chandigarh on November 1 & 2, 2018.
28. Deepti Chaudhary, Umesh Bharti and Neelima R. Kumar Presented a poster entitling "**Mobile phone usage pattern and awareness about RF-EMR among**

- college going students of Chandigarh”** in 22<sup>nd</sup> Punjab Science Congress held at DAVIET, Jalandhar on February 7-9, 2019.
29. Deepti Chaudhary, Aena, Jayotsana, Chetna, Sapna, Karishma, Umesh Bharti and Neelima R. Kumar presented a poster entitled **“Electromagnetic pollution in Chandigarh – A survey based study using electrosmog meter”** in 13<sup>th</sup> CHASCON held at Panjab University, Chandigarh on March 13-15, 2019 and **got 1<sup>st</sup> position in life science Category**
  30. Sapna Yadav, Simran, Anita Kaushal and Umesh Bharti presented a poster entitled **“Kitchen Waste Composting: A Green Alternative To Clean Earth”** in 13<sup>th</sup> CHASCON held at Panjab University, Chandigarh on March 13-15, 2019.
  31. Avinchal, Jainis Thaper, Rudhika and Umesh Bharti presented a poster entitled **“Asiatic Lion: A Rare success story of Gujrat”** in 13<sup>th</sup> CHASCON held at Panjab University, Chandigarh on March 13-15, 2019.
  32. Meghna Rathee, Poonam Mor and Dr. Umesh Bharti presented a poster entitled **“Control of Petroleum and crude oil pollution with the help of bacteria”** in 13<sup>th</sup> CHASCON held at Panjab University, Chandigarh on March 13-15, 2019.
  33. Deepti Chaudhary\*, Umesh Bharti, Neelima R. Kumar and Anita Kaushal presented a poster entitled **Trends In Mobile Phone Usage Pattern Among Youth** in 14<sup>th</sup> CHASCON held at Panjab University, Chandigarh on 17-19<sup>th</sup> December, 2020.
  34. Ameesha Verma\* and Umesh Bharti presented a poster entitled **Protective Gears Ppe And Surgical Masks Significant Life Saver In 2020 Reuse** in 14<sup>th</sup> CHASCON held at Panjab University, Chandigarh on 17-19<sup>th</sup> December, 2020.
  35. **Farhat\* and Umesh Bharti** presented a poster entitled **Microplastic In Oceans: Effecting Marine Life** in 14<sup>th</sup> CHASCON held at Panjab University, Chandigarh on 17-19<sup>th</sup> December, 2020
  36. Kalyani Kumari **and Umesh Bharti** presented a poster entitled **‘Effect on oxytocin on health of cattle’** in 14<sup>th</sup> CHASCON held at Panjab University, Chandigarh on 17-19<sup>th</sup> December, 2020

#### **CONFERENCES/WORKSHOP ATTENDED**

1. Participated in one day college cluster Workshop on “Geo-Tagging” held under the aegis of state project directorate (RUSA), UT, Chandigarh on 10th August, 2016 at Post Graduate Govt. College for Girls, Sector-42, Chandigarh
2. Community Hygiene and Public Health Society organized for poster making competition on Malaria and Dengue – Symptom’s & Control on 9th Sept, 2016
3. A Slogan- writing Competition on Tobacco Control was organized by Community Hygiene and Public Health Society in association with Drug De-addiction society on 14h Sept, 2016
4. Participated in one day college cluster Workshop on “Management Information System” held under the aegis of state project directorate (RUSA), UT, Chandigarh on 20th October, 2016 at Post graduate Govt. College, Sector-11, Chandigarh.
5. Two-day Workshop cum Exhibition was organised in collaboration with society ‘Natural Biodiversity’ from 21st and 22nd October, 2016 in Room No. 1 & Porch

area for exhibition. Kulbhushan Kanwar, Navtej Singh, and Dr. Arun Bansal were the invited experts.

6. Participated in one day college cluster Workshop on “Public Financial Management System (PFMS)” held under the aegis of state project directorate (RUSA), UT, Chandigarh on 5th November, 2016 at Post Graduate Govt. College for Girls, Sector-42, Chandigarh
7. Organised one day workshop entitled Charismatic world of science under capacity building programme of RUSA, Chandigarh on 11th November, 2016
8. Organised a lecture by Dr. (Mrs.) Neelima R. Kumar (Professor) Department of Zoology, Panjab University, on Wonders of Honey on 12th November, 2016 under minor research project sanctioned by DST, Chandigarh.
9. Organised UGC NET (Life sciences) classes for the students of MSc (Botany and Zoology) under the aegis of RUSA in the month of November 2016.
10. “Nutrition Awareness Programme” held in collaboration with NSS in Khuda Jassu on 27-12-2016
11. Participated in one day workshop on medicinal plants
12. Participated in RUSA sponsored workshop, “ On wings of Creativity: the craft of writing”, on 15th February 2017
13. Participated in one day capacity building workshop sponsored by State Project Directorate (RUSA), UT, Chandigarh on "Sexual Harassment at Workplace: Prevention and Action" on 20th Feb, 2017
14. Participated in one day capacity building workshop on Life Skills Training on Sponsored by state project directorate (RUSA) UT, Chandigarh on 2nd March, 2017
15. Organised a research poster competition on Good food for good health on 29th March 2017 under Minor research project sanctioned by DST, Chandigarh
16. Organised a lecture cum demonstration on Honey bee with its valuable products by renowned apiarist Mr. Madan Sharma on 29th March 2017 under Minor research project sanctioned by DST, Chandigarh
17. Organised one day workshop on Solar Energy- a key to the future in association with CREST on 29th March 2017
18. One day capacity building college cluster workshop on E-Learning Massive open online courses (MOOCS) sponsored by RUSA on 3rd April, 2017
19. A One-day training Workshop on "Government e-market (GeM)" on 9th May, 2017
20. E-Books: Selection acquisition and Access one day workshop sponsored by RUSA on 25th May 2017
21. One day workshop on “Magnificent World of Science” sponsored by RUSA on 14th Sep 2017
22. ‘Optimising emotional wellbeing’ one day workshop sponsored by RUSA on 15TH NOV 2017
23. Department of Sociology organised a One-day Workshop on “Research Ethics, Plagiarism and quality research papers” on 18th Nov 2017
24. One-day Capacity Building Workshop on “Sustainable Development in India: Issues and Challenges” on 24th Jan 2018



25. Participated in Three day State level Training workshop on Massive Open Online Courses (MOOCS) on 03-05 October, 2018 organised by state project directorate (RUSA) UT, Chandigarh
26. Participated in RUSA sponsored capacity building workshop on Web Based Educational Resources held at PGGCG-11, Chandigarh under the aegis of State Higher Education Council, Chandigarh on 23 Feb, 2019.
27. Participated in one day workshop on Medicinal Plants and their Cultivation on 6<sup>th</sup> Feb, 2020 organised by post graduate department of Botany and Environment Society Prakriti at PGGCG-11, Chandigarh
28. Organized a lecture by Dr. S.M. Bose, Former Senior Professor and Head of Surgery, PGI entitled 'Important facts about Cancer' on 15th September, 2018.
29. Organized a lecture by Dr. R. Kumar, Ex-Ophthalmologist, PGI entitled 'Minimum Medicines and Maximum Health' on 11th September, 2018.
30. Organised an awareness lecture by Dr. Gurjeet Kaur on 'Down's Syndrome' on 21st February 2019.
31. Organised two lectures on Vector borne Diseases and H1N1 by Dr. Upendrajeet Singh Gill, Assistant Director, Malaria and Ms. Vandana Thakur, State Entomologist on 1st March, 2019-04-06

#### **AWARDS:**

1. Paper entitled "**Composting Leaves: As Soil Amendment And Conditioner**" by Anita kaushal, khushboo tank and umesh bharti presented as poster at CHASCON-2015, Panjab University, Chandigarh from 25th-27th March, 2015. GOT **FIRST PRIZE IN POSTER PRESENTATION IN CHANDIGARH SCIENCE CONGRESS**
2. Paper entitled '**Molecular phylogenetic investigations on four species of genus Sitophilus (Coleoptera: Curculionidae)**' by Dalip Kumar, Umesh Bharti, Neetu Monga, Divya Sharma and Sunaina Jaswal, presented as poster at National Conference on Entomology, Punjabi University, Patiala on October, 29-30, 2015. GOT **FIRST PRIZE IN POSTER PRESENTATION**
3. Paper entitled "**Electromagnetic pollution in Chandigarh – A survey based study using electrosmog meter**" by Deepti Chaudhary, Aena, Jayotsana, Chetna, Sapna, Karishma, Umesh Bharti and Neelima R. Kumar in 13<sup>th</sup> CHASCON held at Panjab University, Chandigarh on March 13-15, 2019 and got **1<sup>ST</sup> POSITION IN LIFE SCIENCE CATEGORY**
4. E-poster presentation entitled "Microplastic In Oceans: Effecting Marine Life" **SECOND PRIZE** – Bagged by Farhat\* and Umesh Bharti (M.Sc. I Zoology) in 14<sup>th</sup> CHANDIGARH SCIENCE CONGRESS (17-19<sup>th</sup> December, 2020) Organized Panjab University, Chandigarh.

#### **LIST OF PROJECTS:**

1. **Inter Institutional Major project** was sanctioned to Dr. Dalip Kumar, Dr. Neetu Monga and MS. Umesh Bharti worth Rs/-13,30,800, Entitled "**MOLECULAR PHYLOGENETICS OF TRUE WEEVILS (COLEOPTERA: CURCULIONIDAE)**" as Co-Investigator from UGC (2014-16).

2. **Inter Departmental Minor research project** entitled “**A Study of Waste derived organic matter in campus of Post graduate Govt. College for Girls, Sector-11, Chandigarh, as a soil amendment**” was sanctioned to Dr.Anita Kaushal and Ms.Umesh Bharti in July 2014 by Department of Science & Technology, UT, Chandigarh.
3. “**A Study of the Impact of Changing Food Habits on the Health of Adolescent Girls of PG Govt. College for Girls-11, Chandigarh (Age Group 17-21years) with special reference to Socio-Economic Environment**”: Amount Sanctioned – 70,000/- received on 16/9/16 from DST-CHD was sanctioned to Dr.Anita Kaushal and Ms.Umesh Bharti
4. **To study the impact of electromagnetic radiations on adolescents and adult population of Chandigarh** Amount sanctioned 50000/- received on 6/11/19 from DST-CHD was sanctioned to Dr.Anita Kaushal and Ms.Umesh Bharti

#### **BOOKS PUBLISHED:**

1. **DIVERSITY OF HONEY BEE FLORA OF CHANDIGARH.** Dalip Kumar, Vineeta Sharma and Umesh Bharti. Lambert Academic Publishing. ISBN-13: 978-3-659-47775-1; ISBN-10: 3659477753. 112pp. 2016-03-26
2. **COMPOSTING A WAY OF REJUVENATING EARTH,** Dr.Anita Kaushal and Dr.Umesh Bharti by Akinik Publications, New Delhi, ISBN 9789387072121
3. **CONCEPTS OF ANIMAL TAXONOMY** Umesh Bharti and Ravneet Kaur: 1<sup>st</sup> Edition: ISBN 978-93-5335-576-0. AkiNik Publications (New Delhi), 2019.pp:124
4. **CONCEPT OF ZOOGEOGRAPHY & WILDLIFE :** Umesh Bharti and Ravneet Kaur: Ist Edition: 978-81-945148-1-7 (Integrated Publishers), 2020 pp:

#### **BOOK CHAPTERS**

1. Umesh Bharti and Ravneet Kaur: **PARTHENOGENESIS IN INSECTS** – Overview: Latest trends in Zoology & Entomology Sciences (Volume – 11) 978-93-90420-32-2 (Akinik Publishers); 2020: pp:
2. Umesh Bharti and Ravneet Kaur: **CONCEPT OF DIAPAUSE IN INSECTS:** Applied Entomology and Zoology (Volume – 7) 978-93-90420-97-1 (Akinik Publishers); 2020: pp:
3. Umesh Bharti and Ravneet Kaur: **OVERVIEW OF COVID – 19: ITS PREVENTION AND MANAGEMENT IN THE LIGHT OF SOME NUTRACEUTICALS (A REVIEW):** Epidemiology and Transmission of Infectious Diseases: 978-93-5407-406-6: Career point University, Bhoranj (Himachal Pradesh, India), 2020:
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#### **Ph.D GUIDE**

- Approved guide to guide Ph.D students
  - Two students are enrolled
1. Ms. Deepti Chaudhary (Synopsis submitted) (CSIR-NET)
  2. Mr. Ehsaan (Synopsis submitted) (UGC-NET)