

NAME: **DR. MONIKA AIRI**
Designation: Assistant Professor
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FIELD OF SPECIALIZATION

Research Area: 1. Taxonomy of Mosquitoes

Research Area: 2. Biological Control of Store Pests

MAJOR ACHIEVEMENTS

- Gold Medal in M. Phil.
- Merit Scholarship in M.Phil. for being a topper in the Entrance Exam.
- State Merit Scholarship by Government of Punjab in M.Sc. for the session 2000–2002.
- UGC meritorious students fellowship (May, 2007-April, 2012)

TEACHING EXPERIENCE: 5 years 8 months

RESEARCH:

RESEARCH HIGHLIGHTS

- Biosystematic studies for the recognition of species and their intraspecific taxa of genus *Culex* l. (Culicidae : Diptera) from Chandigarh and adjoining areas.
- To study the reason of phenotypic plasticity in various groups of insect mainly mosquitoes and bruchids at molecular level.
- To study the biological control potential of a field egg parasitoid for the suppression of store pest *C. maculatus*.

AWARDS IN RESEARCH:

- ❖ Second prize in poster presentation at 4th Insect Science Congress organized by Punjab Agriculture University, Ludhiana. April 16-17, 2015.
- ❖ Best Poster Award in UGC-CAS Sponsored Conference on Redefining approaches to address Current Issues for Sustainable Biodiversity, Deptt. of Zoology, Panjab University Chandigarh. December 2-3, 2011.
- ❖ Best Poster Award in International Conference on Entomology organized by Punjabi University, Patiala. Feb.20-22, 2009.
- ❖ Best Poster Award in “UGC Working Conference on Entomological Research: Progress and Problems” organized by Zoology Department on 19–21 March, 2002.

PUBLICATIONS:

International: 3

National: 3

International:

- **M. Airi** and S. kaur (2015) Confirmation of *Culex (Culex) tritaeniorhynchus summosus* (Culicidae: Diptera) as a separate species. Journal of vector borne diseases. 52, 219–223. Impact Factor: 1.07
- Tewari, P.K., Sood, S., Sharma, S., **Airi, M.** (2003). Store host species range of field *Uscana* adapted to store conditions. Egg parasitoid News. No. 15, p.23.
- Tewari, P.K., Pajni, H.R., Sood, S., Sharma, S., Kohaar, I., **Airi, M.** (2002). Exploitation of egg parasitoids of field bruchids for the control of store bruchids. Egg parasitoid News. No. 14, p.30.

National:

- **Airi, M.** (2016). Enhancement of parasitic potentiality of *Uscana femoralis* Pajni and Sood for the control of *Callosobruchus maculatus* (Fab.) (Coleoptera: Bruchidae), a pest of stored pulses. In Recent Advances in Emerging Technologies. 317-324.
- Sagandeep Kaur, **Airi, M.**, Tewari, P.K. (2010). Intraspecific variations in three species of *Culex vishnui* subgroup (Diptera: Culicidae) based on Male genitalia. Entomon. 34(3): 125-135.
- Sagan deep Kaur and **Airi, M.** (2009). Studies on Seasonal Prevalence with relative abundance of five species belonging to tribe Aedini (Diptera: Culicidae) from Chandigarh and its adjoining areas. Advances in Entomology. Proc. International Conference on Entomology organized by Punjabi University, Patiala. 201-215.
- Tewari, P.K., Mavi, N.K., **Airi, M.** (2005). Exploitation of field egg parasitoids *Uscana femoralis* Pajni and Sood for the control of store pest, *Callosobruchus maculatus* (fab.). Research Journal Science, Panjab University. 55: 157-163.

PARTICIPATION IN CONFERENCES/WORKSHOPS/SEMINARS:

International: 4

National: 28

International

1. Presented a paper in ‘International Conference on Recent Trends in Emerging Technologies organized by Sri Guru Granth Sahib World University, Fatehgarh Sahib. Feb. 23-24, 2016.
2. Presented a poster in “International Conference on Entomology” organized by Punjabi University, Patiala. Feb.21-23, 2014.
3. Presented a poster in “International Conference on Entomology” organized by Punjabi University, Patiala. Feb.17-19, 2012.
4. Presented a poster in “International Conference on Entomology” organized by Punjabi University, Patiala. Feb.20-22, 2009.

National

1. Attended Hands on training workshop on “Apiculture Operations” organized by P.G. Govt. College for girls, Sector-42. Chandigarh. April 7, 2015.
2. Presented a paper in “Indian Society for the advancement of Insect Science” organized by Punjab Agriculture University, Ludhiana. April 16-17, 2015.
3. Presented a poster in National seminar cum workshop “Trends in Animal Behaviour” organized by MCM DAV college for women, Sector-36 Chandigarh. 2nd March, 2015.
4. Attended a Seminar on “Science for shaping future of India” organized by Chandigarh Chapter of Indian Science Congress association, Panjab University, Chandigarh. 17-18 November, 2012.
5. Participated in “6th Chandigarh Science Congress” organized by Panjab University, Chandigarh. Feb.26-28, 2012.
6. Presented a poster in “UGC-CAS Sponsored Conference on Redefining approaches to address Current Issues for Sustainable Biodiversity”, Deptt. Of Zoology, Panjab University Chandigarh. December 2-3, 2011.
7. Presented a poster in “3rd Congress on Insect Science” organized by Indian Society for the Advancement of insect Science, Punjab Agriculture University, Ludhiana. April. 18-20, 2011.
8. Participated in “5th Chandigarh Science Congress” organized by Panjab University, Chandigarh. Feb.26-28, 2011.
9. Presented a poster “National Seminar-Cum-Workshop on Exploring new vistas in Biodiversity Research for Sustainable Development” organized by Deptt. Of Zoology, Panjab University Chandigarh. January 22-24, 2011.
10. Participated in “Faculty Development Programme on Research and Data Analysis Using SPSS” organized by Department of Statistics, Panjab University in collaboration with SPSS, South Asia Ltd., Bangalore. December 16-17, 2010.
11. Presented a poster in “National Conference on Environment Degradation and its impact on mankind” organized by Punjabi University environment society and Department of Zoology, Panjabi University, Patiala. Nov.19-20, 2010.
12. Presented a paper in “ National Seminar on Biodiversity: The essence of Life” organized by Department of Botany and Zoology, Govt. College Sector-1, Panchkula. September, 21, 2010.
13. Participated in “National Conference on Advances in Biological Sciences” organized by Deptt. Of Zoology, Panjab University Chandigarh. March 29-30, 2010.
14. Presented a poster in “13th Punjab Science Congress” organized by Panjab University Chandigarh and Punjab Academy of Sciences. Feb. 7-9, 2010.

15. Participated in “21st National Congress of Parasitology” organized by Deptt. Of Zoology, Panjab University Chandigarh and Indian Society for Parasitologists. Nov. 14-16, 2009.
16. Participated in “UGC sponsored 2nd National Symposium on Biodiversity, Cell and Molecular Biology” organized by Panjab University Chandigarh. March 1-2, 2009.
17. Participated in “3rd Chandigarh Science Congress” organized by Panjab University, Chandigarh. Feb. 26-28, 2009.
18. Presented a paper in “22nd National Symposium on “Recent trends in Zoological Sciences: Applications to Agriculture, Environment and human health” organized by Indian Society of Life Sciences, Kanpur and PAU, Ludhiana. Nov. 6-7, 2008.
19. Presented a poster in “2nd Chandigarh Science Congress” organized by Panjab University, Chandigarh. March 14-15, 2008.
20. Participated in “UGC sponsored National Symposium on Biodiversity, Cell and Molecular Biology” organized by Panjab University Chandigarh. Feb.26-27, 2008.
21. Presented a paper in “1st Chandigarh Science Congress” organized by Panjab University, Chandigarh. March 10-11, 2007.
22. Attended “27th Workshop on Electron Microscopy”, organized by the Sophisticated Analytical Instrumentation Facility, Panjab University, Chandigarh. January 8-20, 2007.
23. Participated in “UGC Working Conference on Recent Concepts in cell and animal physiology” organized by Department of Zoology, Panjab University, Chandigarh. March 10-11, 2006.
24. Participated in “UGC Sponsored National Seminar on “New Trends in Fishery Development in India” organized by Zoology Department, Panjab University, Chandigarh on 16-18 February, 2005
25. Participated in “UGC Conference on Trends in Parasitology” organized by Zoology Department, Panjab University, Chandigarh on 24-26 February, 2004.
26. Participated as a delegate in 91st Indian National Science Congress held at Panjab University, Chandigarh on 3–7 January, 2004.
27. Presented poster in “UGC Working Conference on Entomological Research: Progress and Problems” organized by Zoology Department, Panjab University, Chandigarh on March 19–21, 2002.
28. Attended the “12th Workshop on Electron Microscopy” organized by CIL, Panjab University, Chandigarh September, 13-14, 2001.