

Curriculum Vitae
RUCHIKA KATARIA GEEDI
Postdoctoral Research Associate

Contact Information and Affiliation

USDA-Agricultural Research Service
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Educational Background

Ph.D. 2012 The Maharaja Sayajirao University of Baroda, Vadodara, Zoology (Entomology)
M.Sc. 2008 The Maharaja Sayajirao University of Baroda, Vadodara, Zoology (Entomology)
B.Sc. 2006 The Maharaja Sayajirao University of Baroda, Vadodara, Zoology

Employment/ Academic Appointments

2018 – Present Postdoctoral Research Associate, USDA-ARS, Wooster, Ohio
2016 – 2018 Research Scientist (Entomology), A.G. BioSystems Pvt. Ltd., Hyderabad (India)
2014 – 2015 Senior Researcher, National Institute of Plant Health Management, Hyderabad (India)
2013 – 2014 Research Associate/Assistant, National Institute of Malaria Research (India Council of Medical Research, New Delhi)
2008 – 201 Visiting Faculty (Part-time), Faculty of Environmental Science, M.S. University of Baroda, Gujarat, India

Honors and Awards

2018 National Science Foundation – IGTRCN Peer to Peer training fund, University of Maryland, USA.
2008 Selected as Visiting Faculty, Faculty of Environmental Science, M.S. University of Baroda, Gujarat, India.
2008 UGC – RFSMS (Research Fellowship for Meritorious Students - Applicant).

Memberships

2018 International Society of Chemical Ecology (Early Career Professional)
2018 Entomological Society of America (Early Professional)
2017 Indian Science Congress (Young Professional)
2015 Society of Science (Young Professional)
2015 International Nanoscience Community (Young Professional)

Refereed Publications

1) Shivakumar, M.S., & **R. Kataria** (2011) Comparative efficacy of azadirachtin on the larval population of *Culex quinquefasciatus*, *Anopheles stephensi*, and *Aedes aegypti* (Diptera:

- Culicidae) in Gujarat, India. International Journal of Pharma and BioSciences. 2: 41-47.
- 2) Singh, A., **Kataria, R** & D. Kumar (2012) Repellence property of traditional plant leaf extracts against *Aphis gossypii* Glover and *Phenacoccus solenopsis* Tinsley. African Journal of Agricultural Research (AJAR). 7: 1623-1628.
 - 3) **Kataria, R.**, & D. Kumar (2012) Occurrence and infestation level of sucking pests: Aphids on various host plants in agricultural fields of Vadodara, Gujarat (India). International Journal of Scientific and Research Publication. 2: 1-6.
 - 4) **Kataria, R.**, & D. Kumar (2013) On the aphid – ant association and its relationship with various host plants in the agroecosystem of Vadodara, Gujarat, India. HALTERES. 4: 25-32.
 - 5) Kulkarni, N.V., Gupta, S., **Kataria, R.**, & N. Sathyanarayana (2015). Morphometric analysis and reproductive system studies of *Trogoderma granarium* Everts (Coleoptera: Dermestidae). International Journal of Scientific and Research Publication. 5: 1-8.
 - 6) Kulkarni N.V., & **R. Kataria** (2015) Evaluation of various oils on Khapra Beetles, *Trogoderma granarium* Everts (Coleoptera: Dermestidae) in terms of survival of adulthood, grain damage and population build-up. International Journal of Agricultural Science and Research. 5: 11-22.
 - 7) **Kataria, R.**, & D. Kumar (2015) Studies on the chemical analysis of aphid semiochemicals from *Aphis gossypii* (Glover) and *Aphis nerii* (Boyer de Fonscolombe). International Journal of Pharma and Bio-Sciences. 6:553574.
 - 8) **Kataria, R.**, & D. Kumar (2015) Population dynamics, Biology of cotton aphid, *Aphis gossypii* (Glover) and its associated natural enemies in Vadodara, Gujarat. International Journal of Science and Nature. 6: 1-10.
 - 9) Kulkarni, N., **Kataria, R.**, & N.Sathyanarayana (2015) Effect of oil impregnated bag on *Trogoderma granarium* Everts (Coleoptera:Dermestidae) in terms of population build-up and grain damage. International Journal of Science and Nature. 6: 714-721.
 - 10) Kulkarni,N., **Kataria, R.**, & N. Sathyanarayana (2015) Effect of storage structures on *Trogoderma granarium* Everts (Coleoptera:Dermestidae) in terms of population build-up and grain damage. International Journal of Environment, Ecology, Family and Urban Studies (IJEEFUS). 1: 51-58.
 - 11) **Kataria, R.**, & D. Kumar (2016) Population dynamics of *Aphis craccivora* (Koch) and its natural enemies on bean crop in relation to weather parameters in Vadodara, Gujarat. Legume Research – An International Journal. 40: 571-579.
 - 12) **Kataria, R.**, & D. Kumar (2017) Studies on the presence of semiochemicals E- β - Farnese (EBF) of the aphids, *Aphis craccivora* (Koch), Gujarat, India. Journal of Entomological and Zoological Studies. 5: 120-129.
 - 13) **Kataria, R.**, & N. Kulkarni (2017) Evaluation of a push-pull approach for *Trogoderma granarium* (Evert) using a novel dispensing system for repellents/attractants under laboratory conditions. Journal of Entomological and Zoological Studies. 5: 1008-1014.

Non-Refereed Publications

- 1) **Kataria, R.**, & D. Kumar (2009) Reduction of hazardous impact of chemical control from agricultural crops by utilization of different insect biolures. Proceedings of the ICOB -V held in India-reg. New Delhi.
- 2) **Kataria, R.**, & N.V. Kulkarni (2015) A Booklet on *Trogoderma granarium* (Evert) in handbook of plant biosecurity division, National Institute of Plant Health Management, Hyderabad.

Invited Presentations

- 1) **Geedi, R.** (2017) Recent advances in field of Semiochemicals – Welcome in the world of insect communication, Koppert Biologicals, Netherlands. (*Invited by Koppert BV, Netherlands*)
- 2) **Geedi, R.** (2016) Field trials for *Plodia sp.* in CBL factory, Columbus, Srilanka. (*Invited by Hayleys, Columbus, Srilanka*)
- 3) **Geedi, R.** (2017) Press conference and field trials of *Pectinophora gossypiella* (PBW) using mating disruption techniques in Junagadh Agricultural University associated with ATGC (*Invited by ATGC Pvt. Ltd, Hyderabad*)
- 4) **Geedi, R.** (2018) Role of multitrophic interactions in sucking pests. Annual Congress on Plant Science and Bio-security, Valencia, Spain. (Oral Presentation)
- 5) **Geedi, R.** (2018) Global Summit on Plant Science & Plant Physiology, Kuala Lumpur, Malaysia (Invitation for Oral Presentation).
- 6) **Geedi, R.** (2017) Recent advances for controlling *Pectinophora gossypiella* (PBW) by novel management strategies in India. 3rd International Conference on Agricultural and Biological Sciences, Hyderabad.

Submitted Presentations

- 1) **Geedi, R.,** Ranger, C.M., Canas, L., Reding, M.E., Castrillo, L & Griggs, M.H. (2019) Behavioral Response of *Myzus persicae* to microbial emissions from *Beauveria bassiana*. Annual Meeting of Entomological Society of America, St. Louis.(poster presentation)
- 2) **Geedi, R.,** Ranger, C.M., Canas, L., Reding, M.E. & L. Castrillo (2019) Microbial Volatile Emissions Mediate Attraction of a Generalist Herbivore to a Fatal Fungus. Annual Meeting of International Society of Chemical Ecology, Atlanta, Georgia.(poster presentation)
- 3) **Geedi, R.,** Ranger, C.M., Canas, L. & M.E. Reding (2018) Fatal attraction of a generalist insect herbivore to *Beauveria bassiana*. North Central Branch Meeting of the Entomological Society of America, Cincinnati. (poster presentation)
- 4) **Kataria, R.** (2015) Popularization and commercialization of low cost agricultural technologies. National workshop with exhibition, National Institute of Plant Health Management, Hyderabad. (oral presentation)
- 5) **Kataria, R.,** & C. Nag (2014) Molecular and chemical techniques such as as ELISA (Analysis of Sporozoite and Blood meal of Mosquitoes), PCR technology (DNA isolation, gel electrophoresis), Dissections of Salivary glands, Midgut, Ovary (Parous & nulliparous), Spermatheca of mosquitoes, Laboratory bioassays including Cone susceptibility / Adult susceptibility, Impregnation of insecticide papers. NIMR HQ, New Delhi. (Training and presentation)
- 6) **Kataria, R.** (2013) Malaria Vector Control: A Recent Approach using Long- lasting Insecticidal Nets. II National Conference on Recent Advances in Biological Sciences, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India. (oral presentation)
- 7) **Kataria, R.** (2011) Pest Management for food security and Environment health. 3rd Congress on Insect Science, Indian society for the advancement of insect science, Department of Entomology, Punjab Agricultural University, Ludiana. (poster presentation)
- 8) **Kataria, R.** (2010) Inter-disciplinary approaches in Environmental Sciences. 12th Annual Conference of Society of Science and Environment, Department of Zoology, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara (Gujarat), India. (oral presentation and poster presentation)

- 9) **Kataria, R.** (2009) Reduction of hazardous impact of chemical control from agricultural crops by utilization of different insect biolures. 5th International Conference on Biopesticides: Stakeholders Perspectives, Society for Promotion and Innovation of Biopesticides & The Energy and Resources Institute (teri). (poster presentation)
- 10) **Kataria, R.** (2009) Recent Challenges in Biodiversity Conservation: Climate Changes and urbanization. National Seminar, Department of Zoology, Maharshi Dayanand Saraswati University, Ajmer, Rajasthan (oral presentation)
- 11) **Kataria, R.** (2008) Current Trends in Environmental Sciences. State Level Seminar, Department of Biological and Environmental Science, N.V.Patel College of Pure and Applied Sciences, Vallabh Vidya Nagar, Anand. (poster presentation)
- 12) **Kataria, R.** (2008) Larvicidal action of Azadirachtin (EC 0.03%) on the larval population of mosquito genera *Culex*, *Anopheles* and *Aedes* in vadodara”. IXth International symposium on vector & vector borne diseases, National academy of vector borne diseases, Puri, Orissa, India. (poster presentation)
- 13) **Kataria, R.** (2016) Innovative Approaches and Recent Advances in Pheromone Technology. Recent Advances in Insect Science, Madras University, Chennai. (oral presentation)

Grant Proposals

- 1) NSF – IGTRCN Award , University of Maryland, USA (\$3,000)
- 2) Development of pheromone slow release systems through micro encapsulation in organic nanogels (DST/NM/NS/2018/249) – Technology Mission Division-DST (under processing) – Rs.34,26000

Invited Reviews

- Peer reviewer of the following journals : 1) Agricultural Science Research Journal, 2) Journal of Agricultural Science and Technology, 3) International Journal of Pharma and Biosciences, 4) International Journal of Scientific and Research Publication.