Curiculum Vitae

Feizollah (Arash) Maleki

CONTACT INFORMATION

117 Chemical Ecology Lab (CEL)
Center for Chemical Ecology
Orchard Road, University Park, PA, 16802
Phone: (814) 880-5004
Email: fum123@psu.edu, maleki.arash@gmail.com

EDUCATIONAL BACKGROUND

2013- 2020 **Ph.D. in Entomology**
Pennsylvania State University
- Dissertation title: Stomatal aperture regulates the uptake and transport of green leaf alcohols in maize
- Advisor: Dr. James H. Tumlinson

2003-2006 **M.Sc. in Agricultural Entomology,**
University of Tehran
- Thesis title: Effect of some diets on fitness of Macrolophus pygmaeus in laboratory conditions.
- Advisor: Dr. Ahmad Ashouri

1997-2002 **B.Sc in Plant Protection**
University of Mazandaran

CAREER AND ACADEMIC APPOINTMENTS

2013- 2020 **Graduate Research Assistant**
Pennsylvania State University

2020- now **Research Technologist**
Pennsylvania State University

Teaching Experience

Teaching certificate from Schreyer Institute for teaching excellence at Penn State University, 2017.
Graduate Teaching Assistant at course ENT313 (Introduction to Entomology) in 2013, 2015, 2016 and 2017 at Penn State University, University Park, PA, 16802.

Lecturer for course Insect Physiology from 2010-2013 at Azad University of Fars, Science and Research Branch, Shiraz, Iran.
Lecturer for course Entomology from 2007-2008 at Junior College of Kerman, Kerman, Iran.

PUBLICATIONS

Under preparation

1. **Maleki, F.** A., Seidl-Adams, I., Felton, G., Tumlinson, J. H., 2022. Stomatal closure prevents xylem transport of green leaf volatiles and uncouples their systemic function in maize.

I- Full Articles

1- Zibaee, A., Fazeli-Dinan, M., Zibaee, I., Jalali Sendi J., Bandani, A. R., and **Maleki, F**., 2011. A trypsin-like protease in Rice green semi-looper, *Naranga aenescens* Moore (Lep.: Noctuidae): purification and characterization. Archives of Insect Biochemistry & Physiology,Vol 78, 1: 1-16.

2- Bandani, A. R., **Maleki, F.**, Rahmani, S., Fazeli-Dinan, M., 2010. Characterization of α-amylaze in the alimentary canal of Naranga aenescens Moore (Lep.: Noctuidae), the rice green caterpillar. Munis Entomolgy and Zoology, Vol. 5, No. 2: 716-725.

3- Fahimi, A., Kharazi-Pakdel, A., Talaei-Hassanloui, R., Rezapanah, M.R. and **Maleki, F.**, 2008. Evaluation of the effect of MbNPV on cabbage moth, Plutella xylostella (Lep.: Plutellidae), in laboratory conditions. Journal of Entomological Society of Iran 28(1): 63-74. (Persian with English abstract)

4- **Maleki, F.**, Ashouri, A., Mohaghegh, J., Bandani, A., 2006. Effects of some diets on *Macrolophus pygmaeus* Rambur (Hem.: Miridae) fitness under laboratory conditions. Communications in Applied Biological Sciences Ghent University 71,393–397.

II- Paper presented in conferences

1. Maleki, F. A., Seidl-Adams, I., Tumlinson, J. H., 2020. Closure of stomata uncouples defense priming by a green leaf volatile in maize (talk). Annual Meeting of Entomological Society of America. **Entomology 2020: Entomology for All, ESA's Virtual Annual Meeting**

2. **Maleki, F.** A., Seidl-Adams, I., Tumlinson, J. H., 2019. Stomatal aperture determines the uptake and transport of GLV alcohols (talk & poster). The 35th annual meeting of International Society of Chemical Ecology. Atlanta, Ga. USA.
3. **Maleki, F.** A., Seidl-Adams, I., Tumlinson, J. H., 2019. Green leaf alcohols are transported through the xylem in maize (poster). Gordon Reseach Conference on Plant-Herbivore interactions. Ventura, Ca.
4. **Maleki, F.** A., Seidl-Adams, I., Tumlinson, J. H., 2017. How darkness affects perception of imminent danger by maize (talk). Annual Meeting of Entomological Society of America. Denver, Col.
5. **Maleki, F.** A., Seidl-Adams, I., Felton, G., Tumlinson, J. H., 2015. Detailed study of corn plant response to green leafy volatiles. (poster). Annual Meeting of Entomological Society of America. Minneaplois, MN.
6- Fahimi, A., Kharazi-Pakdel, A., Talaei-Hassanloui, R., Rezapanah, M.R. and **Maleki, F.,** 2008. Sensitivity of different larval stages of cabbage moth, Plutella xylostella (Lep.: Plutellidae), to MbNPV virus. Proceeding of 18th Plant Protection Congress, Hamedan, Volume I, Pests, 24-27 August 2008, Faculty of Agriculture, University of Bu-Ali Sina, Hamedan, Iran. 44p. (poster)(Persian with English abstract)
7- Fahimi, A., Kharazi-Pakdel, A., Talaei-Hassanloui, R., Rezapanah, M.R. and **Maleki, F.,** 2008. Bioassay of PxGV- Taiwanii virus on cabbage moth, *Plutella xylostella* (Lep.: Plutellidae), in laboratory conditions. Proceeding of 18th Plant Protection Congress, Hamedan, Volume I, Pests, 24-27 August 2008, Faculty of Agriculture, University of Bu-Ali Sina, Hamedan, Iran. 203p. (poster)(Persian with English abstract)
8- **Maleki, F.**, Ashouri, A., Mohaghegh, J., Bandani, A., 2006. Effects of some diets on *Macrolophus pygmaeus* Rambur (Hem.: Miridae) fitness under laboratory conditions. 58th International symposium on crop protection, 23 May 2006, Gent, Belgium. (poster)

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

Entomology Graduate Students Association (EGSA) at Penn State Entomological Society of America
International Society of Chemical Ecology
Entomological Society of Iran

SKILLS

Language skills: Persian and English
Computer skills: Microsoft Word, Excel, Power Point, Statistical softwares (Minitab 17, SPSS 13 and Limited SAS).
Molecular Techniques: DNA and RNA extractions, rtPCR analysis of gene expression, Phytohormones extraction and plant-tissue chemical analysis using GCMS, Chemical analysis of plant volatiles with GC-FID, Limited experience of Northern Blot and Southern Blot, Bacterial screening

WORKSHOPS

Molecular Analysis & Cloning, July 25-28, 2011 at Iranian Biological Resource Center.
Insect Chemical Ecology Short Course at Penn State, June 1-15, 2014, University Park, PA

OUTREACH ACTIVITIES

- Participated in **Great Insect Fair** Penn State University (2013 and 2014)
  - No of participants: > 5000 for each event
- Volunteer in elementary school outreach program to talk about **Introduction of Insect Development** (2015)
  - No of participants: ~ 20 kids
- Coordinator at **Exploration U Science night for the booth Bug O Vision**, Bellefonte, PA (2015)
  - No of participants: > 2000
- Instructor of the workshop "**Introduction to collection of plant volatiles**" as part of Insect Chemical Ecology Short Course at Penn State University (2017), University Park, PA
  - No of participants: ~ 100

HONORS AND AWARDS

William Yendol memorial research award, Penn State, Entomology Department, 2015. Michael Duke memorial award, Penn State, Entomology Department, 2017.
Sahakian travel award, Penn State, Ag School, 2019.
William Yendol memorial research award, Penn State, Entomology Department, 2019.