



Azam Amiri Associate Professor

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Education

- ✓ B.Sc, Plant Protection, University of Tehran - 2007
- ✓ MS, Plant Protection, University of Tehran - 2010
- ✓ PhD, ,University of Tehran - 2015

Courses

- | | |
|---|---------------------------------|
| 1. Ecology | 2. Plant Anatomy and Physiology |
| 3. Control of Pests and Important Diseases in the Green Space | 4. Plant Ecology |
| 5. Control of Pests and Important Diseases in the Green Space | 6. Plant Anatomy and Physiology |
| 7. seminar1 | 8. seminar2 |

Journals Papers

2026

1. Artificial intelligence for pest identification and decision support in sustainable crop protection: A critical review

Azam Amiri, Ali R. Bandani

EUROPEAN JOURNAL OF AGRONOMY Volume: (176) 1 - 17

2. Interactive effects of cold stress, density, and male-female separation on mortality, longevity, and reproductive traits in *Callosobruchus maculatus*

Azam Amiri, Ali R. Bandani

JOURNAL OF STORED PRODUCTS RESEARCH Volume: (117) 1 - 10

3. From Stress Exposure to Survival: Gene Expression Modules Under Heat-Desiccation Extremes in Insects

Azam Amiri

Journal of Epigenetics Volume: (7) 44 - 62

4. Leveraging Artificial Intelligence for Enhanced Food Security: Innovations in Farm and Warehouse Management

Azam Amiri

JOURNAL OF FOOD QUALITY Volume: (1) 1 - 16

5. Molecular biology of insect ATPases: from physiology to pest management

Azam Amiri, Ali R. Bandani

PEST MANAGEMENT SCIENCE Volume: (82) 5126 - 5142

6. Aphagy under pressure: Cold unveils hidden energetic conflicts across sex and generations

Azam Amiri, Ali R. Bandani

JOURNAL OF STORED PRODUCTS RESEARCH Volume: (116) 1 - 10

7. Molecular characterization and seasonal expression profiling of circadian clock genes in relation to obligatory diapause in the Sunn Pest, *Eurygaster integriceps* (Hemiptera: Scutelleridae)

Zeynab Alborzi, Azam Amiri, Maria Dolors Piulachs, Ali R. Bandani

JOURNAL OF INSECT PHYSIOLOGY Volume: (169) 1 - 12

2025

8. The advantage of virginity in cold-exposed *Callosobruchus maculatus*

Azam Amiri, Ali R. Bandani

JOURNAL OF STORED PRODUCTS RESEARCH Volume: (111) 1 - 9

9. Mating as a stress resilience behavior in *Callosobruchus*

Azam Amiri, Ali R. Bandani

Heliyon Volume: (11) 1 - 11

10. Identifying Effective Genes as Targets for RNA Interference in Sustainable Pest Control Strategies

Azam Amiri

Journal of Epigenetics Volume: (6) 1 - 16

11. Transgenerational effects of peppermint essential oil on life table parameters and antioxidant enzymes in *Callosobruchus maculatus*

Behnaz Farhadi, Azam Amiri, Reza Farshbaf Pourabad, Ali R. Bandani

Scientific Reports Volume: (15) 1 - 16

12. Grain hardness and protein content as key determinants of barley resistance to *Sitophilus granarius* Linnaeus, 1758 (Coleoptera: Curculionidae)

Seyed Mehdi Hashemi, Bahram Naseri, Azam Amiri, Ali R. Bandani

CROP PROTECTION Volume: (198) 1 - 9

13. RNA interference in the insects ATPase gene

Azam Amiri

Journal of Epigenetics Volume: (6) 1 - 26

14. Tissue-specific transcriptomic and endocrine signatures of obligatory reproductive diapause in *Eurygaster integriceps*

Zeinab Alborzi, Azam Amiri, Maria Dolors Piulachs, Ali R. Bandani

Scientific Reports Volume: (15) 1 - 17

15. Diapause and its regulation by endocrine signaling in insects: from environmental stimuli to management implications in plant protection

Azam Amiri, Ali R. Bandani

Volume: (56) 1 - 23

2024

16. Encountering a dead or live conspecific affects the behavior and longevity of *Callosobruchus*

Azam Amiri, Ali R. Bandani

JOURNAL OF STORED PRODUCTS RESEARCH Volume: () 1 - 9

2023

17. *Callosobruchus maculatus* males and females respond differently to grandparental effects

Azam Amiri, Ali R. Bandani

PLoS One Volume: (18) 0295937 - 0295954

2022

18. The study of effect of infected bean density in larval stage on biological parameters and mating behaviors of the cowpea weevil *Callosobruchus maculatus*

Azam Amiri, Faezeh Bagheri

Volume: (53) 47 - 55

19. The order of adult emergence from a bean influences *Callosobruchus maculatus* biological parameters

Azam Amiri, Ali R. Bandani

JOURNAL OF STORED PRODUCTS RESEARCH Volume: (98) 1 - 9

20. Does timing of post-stressor exposure mating matter for parental effect?

Azam Amiri, Ali R Bandani

JOURNAL OF STORED PRODUCTS RESEARCH Volume: (99) 1 - 11

21. Study of tyramine-binding mechanism and insecticidal activity of oil extracted from *Eucalyptus* against *Sitophilus oryzae*

Farshid Zargari Shastan, Zahra Nikfarjam, Ebrahim Nakhahae sobhie, Masoumeh Ghorbanipour, Alireza N

Frontiers in Chemistry Volume: (10) 1 - 17

22. Loneliness influences male and female life expectancy differently in *Callosobruchus*

Azam Amiri, Ali Reza Bandani

JOURNAL OF STORED PRODUCTS RESEARCH Volume: (96) 1 - 7

23. Effect of developmental time on the cowpea weevil *Callosobruchus maculatus* adult longevity and mating behaviors

Azam Amiri

Volume: (52) 149 - 156

24. *Callosobruchus* larval competition and its consequences for male and female adults

Azam Amiri, Ali R. Bandani

ETHOLOGY Volume: (128) 715 - 723

2021

25. Variable susceptibility in populations of *Tetranychus urticae* Koch (Acari: Tetranychidae) to propargite and chlorpyrifos

Farahani Saeed, Ali Reza Bandani, Azam Amiri

Journal of Crop Protection Volume: (10) 139 - 150

26. Evaluation of fumigant toxicity and behavioral effect of mint and rosemary essential oils in the cowpea weevil

Azam Amiri, Faezeh Bagheri

Volume: (51) 161 - 169

27. Facultative deuterotokous parthenogenesis in *Callosobruchus maculatus*

Azam Amiri, Ali R. Bandani

ZOOLOGISCHER ANZEIGER Volume: (291) 1 - 6

28. Parents living conditions influence offspring fitness and competency

Azam Amiri, Ali R. Bandani

JOURNAL OF STORED PRODUCTS RESEARCH Volume: (92) 1 - 12

2020

29. Gut compartments and ovary bacterial symbionts of the Sunn pest

Azam Amiri, Ali R. Bandani, Maryam Kafil

JOURNAL OF ASIA-PACIFIC ENTOMOLOGY Volume: (23) 723 - 730

30. *Callosobruchus* embryo struggle to guarantee progeny production

Azam Amiri, Ali Reza Bandani

Scientific Reports Volume: (10) 1 - 9

31. Effect of four essential oils, including eucalyptus leaf, eucalyptus flower, rosemary leaf, and mint leaf on hatching and larval duration of the cowpea weevil

Azam Amiri

Volume: (51) 121 - 128

32. Toxicity and repellency effects of three essential oils on two populations of *Tetranychus urticae* (Acari: Tetranychidae)

Saeed Farahani, Ali R. Bandani, Azam Amiri

Persian Journal of Acarology Volume: (9) 67 - 81

2019

33. Epigenetic in Insects

Azam Amiri

Journal of Epigenetics Volume: (1) 35 - 42

2016

34. MOLECULAR IDENTIFICATION OF CYSTEINE AND TRYPSIN PROTEASE EFFECT OF DIFFERENT HOSTS ON PROTEASE EXPRESSION AND RNAI MEDIATED SILENCING OF CYSTEINE PROTEASE GENE IN THE SUNN PEST

Azam Amiri, , Houshang Alizadeh

ARCHIVES OF INSECT BIOCHEMISTRY AND PHYSIOLOGY Volume: (91) 189 - 209

2015

35. Serine and cysteine proteases of *Rhynchophorus ferrugineus* (Coleoptera Curculionidae) larvae raised on date palms (*Phoenix dactylifera*)

Ali Darvishzadeh, , Azam Amiri, Seyed Qasem Mousavi

JOURNAL OF ASIA-PACIFIC ENTOMOLOGY Volume: (18) 547 - 552

2013

36. Comparison of Energy Reserves in Prediapause and Diapausing Adult Sunn Pest *Eurygaster integriceps* Puton (Hemiptera Scutelleridae)

, Azam Amiri

Journal of Agricultural Science and Technology Volume: (15) 435 - 444

2012

37. Effects of the Insect Growth Regulators Methoxyfenozide and Pyriproxyfen on Adult Diapause in Sunn Pest *Eurygaster integriceps* (Hemiptera Scutelleridae)

Azam Amiri, Ali Darvishzadeh,

Journal of Agricultural Science and Technology Volume: (14) 1205 - 1218

Conferences Papers

2025

1. Application of Artificial Intelligence in Agricultural Pest Control

Azam Amiri

2. Application of Artificial Intelligence Models in Environment Monitoring

Azam Amiri

3. Mobile Applications Based on Artificial Intelligence: A Novel Tool for Pest and Plant Disease Management

4. Rapid adaptation of insects in a changing world

3rd International and 4th National Conference on Agriculture, Environment and Food Security

Azam Amiri

5. Insect adaptation under heat stress

3rd International and 4th National Conference on Agriculture, Environment and Food Security

Azam Amiri

2019

9. Sunn pest gluten hydrolase gene silencing using RNAi technique

Azam Amiri, Ali Reza Bandani

10. Gene silencing by RNAi technique in the crop plants

Azam Amiri

2018

11. Possibility of Sunn pest Midgut dsRNA degradation

23rd Iranian Plant Protection Congress

Azam Amiri,

2015

12. Molecular identification and RNAi mediated silencing of cysteine protease in the Sunn pest

1st Iranian International Congress of Entomology

Azam Amiri, Ali Reza Bandani

Executive activities

مدیر گروه آموزشی مهندسی فضای سبز

from 1403/07/01 - to 1404/09/08

معاون مدیر تحصیلات تکمیلی

from 1397/11/01 - to 1398/03/01