

Curriculum Vitae

CAIRO UNIVERSITY, 2022

Name: Mona AWAD

Academic titles: Ph.D.

Date of Birth: 3rd of March, 1981, Giza, Egypt

Nationality: Egyptian

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https://www.researchgate.net/profile/Mona_Awad/contributions

h-index Scopus: 6

ORCID ID: <https://orcid.org/0000-0002-4665-593Xn>

Web of Science Researcher ID: AAG-5870-2021

Affiliation

2019- Present: Associate Professor in Economic Entomology and Pesticides Department, Faculty of Agriculture, University of Cairo, Egypt.

2013 - 2019: Assistant Professor in Economic Entomology and Pesticides Department, Faculty of Agriculture, University of Cairo, Egypt.

2011–2012: Researcher, Faculty of Science, University of South Bohemia, České Budějovice, Czech Republic

2009– 2013: Researcher, Biology Centre AS CR, v.v.i. (Formerly Institute of Entomology), České Budějovice, Czech Republic

2008–2013: Assistant lecturer in Economic Entomology and Pesticides Department, Faculty of Agriculture, University of Cairo, Egypt.

2003–2008: Demonstrator in Economic Entomology and Pesticides Department, Faculty of Agriculture, University of Cairo, Egypt.

Education:

2010 – 2013 Ph.D., Zoology “Entomology”, Faculty of Science (former Faculty of Biological Sciences), University of South Bohemia, České Budějovice. Czech Republic

2008 MSc. Master in Agricultural Sciences, Faculty of Agriculture, University of Cairo, Egypt.

2002 Degree (Bachelor) in plant protection, Faculty of Agriculture, University of Cairo, Egypt.

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Workshop:

1. 2022: Innovative Microbial Control Workshop at Technical University of Darmstadt, Germany. Funded by DAAD (Ta'ziz partnership program, ID: 57626230)
2. 2014: Molecular Genetics Approaches: Principles and Applications. Cairo University Research Park.
3. 2012: Identification of beetle larvae, Heteroptera, Auchenorrhyncha, and morphological and anatomical microscopic slides, in Faculty of Science, University of South Bohemia, Czech Republic.
4. 2011: ELISA test in Biology Centre AS CR, v.v.i. (Formerly Institute of Entomology), České Budějovice, Czech Republic.
5. 2011: Western Blot technique in Biology Centre AS CR, v.v.i. (Formerly Institute of Entomology), České Budějovice, Czech Republic

Conference Presentations:

Awad M., G.J.M. Laugier, A. Loiseau and O. Nedvěd (2016). Unbalanced polyandry in wild-caught ladybirds *Harmonia axyridis*. XXV International Congress of Entomology. Orlando, Florida, USA, Oral Presentation.

Renault D., **M. Awad**, M. Mahmoud and H. Colinet (2015). Multiple biological proxies reveal the chrono-sequence of acclimation processes in insects. Sixth International Symposium on the Environmental Physiology of Ectotherms and Plants (ISEPEP6). Aarhus, Denmark.

Kleespies R.G., Y. Wang, S. El Salamouny, **M. Awad**, E. Agamy, R. Salama and J.A. Jehle (2014). Identification of a new multiple nucleopolyhedro virus isolated from the Jasmine moth, *Palpita unionalis* (Hübner) (Lepidoptera: Pyralidae) in Egypt. 47th Annual meeting of the society for invertebrate pathology and international congress on invertebrate pathology and microbial control, 3-7 August 2014, University of Mainz, Germany.

Awad M. (2012). Sperm competition following multiple mating in *Harmonia axyridis*. 2nd meeting of the IOBC/WPRS Working Group "Benefits and Risks of Exotic Biological control Agents" October 30- November 3, 2011/ Hluboká, Czech Republic.

Awad M., P. Kalushkov, T. Nedvěďová, O. Nedvěd (2012). Sperm survival in fertilized females of *Harmonia axyridis* during overwintering. 2nd meeting of the IOBC/WPRS Working

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Group "Benefits and Risks of Exotic Biological control Agents" October 30- November 3, 2011/
Hluboká, Czech Republic.

Grant projects:

Ongoing projects:

2019: Joint research project “fruit fly control”, with Laboratory of Microbial Genetics and Genomics at the Institute for Microbiology and Biochemistry of Geisenheim University.

Funded by: the German Academic Exchange Service (DAAD) under project-ID57478537.

2019: Detection and prevalence of the inherited endosymbiotic bacteria in the Alien invasive ladybirds beetle *Harmonia axyridis*, in collaboration with Professor Oldřich Nedvěd from Faculty of Science, University of South Bohemia, České Budějovice, Czech Republic

Co-PI:

2019-2022: Susceptibility of *Agrotis ipsilon* Hufnagel (Lepidoptera: Noctuidae) to cry 1 Bt toxins and binding to receptors. *Funded by: Basic & Applied research Grant (Call 6), Science and Technology Development Fund (STDF)*

2019: Joint research project “fruit fly control”, with Laboratory of Microbial Genetics and Genomics at the Institute for Microbiology and Biochemistry of Geisenheim University.

Funded by: the German Academic Exchange Service (DAAD) under project-ID57478537.

2016-2018: *Harmonia axyridis*, Thermal plasticity, multiple mating, global invasion success, **Funded by bilateral** agreement between Egyptian academy of Science and Czech Academy of Science.

Co-worker in grants:

2010 – 2013: Alien invasive ladybirds beetle *Harmonia axyridis* help in biological control of pests on plants or threat to biodiversity.

Funded by: Grant number QH82047 from the Ministry of Agriculture of the Czech Republic.

Stay abroad:

2022 (July): Research Visit to the Laboratory of Insect-Associated Microorganisms and Microbial Control at the Technical University of Darmstadt, Germany. Within the framework of the joint research, project Providencia Bacteria for Fruit Fly Biocontrol. **Funded by: The German Academic Exchange Service (DAAD) under project-ID57626230.**

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2019 (September, Two weeks): Research Visit to the Laboratory of Microbial Genetics and Genomics at the Institute for Microbiology and Biochemistry of Geisenheim University, Germany. Within the framework of the joint research project fruit fly control.

Funded by: The German Academic Exchange Service (DAAD) under project-ID57478537.

2019 (July, one week): Erasmus+ Teaching Mobility, Faculty of Biology, University of Jagiellonian, Poland.

2018 (Six months): Postdoctoral Researcher, Faculty of Science, University of South Bohemia, České Budějovice.

Funded by Egyptian Minister of Higher Education (Mission Sector).

2018 (Five months): Postdoctoral Researcher, Faculty of Science, University of South Bohemia, České Budějovice.

Funded by Czech Ministry of Education, Youth and Sport.

2017 (December, one week): Erasmus+ Teaching Mobility, Faculty of Biology, University of Jagiellonian, Poland.

2017 (one month): Postdoctoral Researcher, Faculty of Science, University of South Bohemia, České Budějovice.

Funded by bilateral agreement between Egyptian academy of Science and Czech Academy of Science.

2016 (one month): Postdoctoral Researcher, Faculty of Science, University of South Bohemia, České Budějovice.

Funded by bilateral agreement between Egyptian academy of Science and Czech Academy of Science.

2014 (Three months): Postdoctoral Researcher, University of Rennes 1, UMR CNRS 6553 Ecobio.

Funded by: The French Embassy in Cairo.

2012 (One month): Microsatellite analysis in Centre de Biologie pour la Gestion des Populations (CBGP) UMR1062 INRA, Montpellier, France.

Funded by Faculty of Science, University of South Bohemia, České Budějovice.

2010 – 2013 Ph. D., Zoology “Entomology”, Faculty of Science (former Faculty of Biological Sciences), University of South Bohemia, České Budějovice , Czech Republic.

Academic Service:

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2017 (May): Organizing info-session titled "Funding Opportunities for Scientific Research, Mobility and Upcoming Open Calls" at Faculty of Agriculture, Cairo University.

2017(March): Judgment Committee of "The Intel International Science and Engineering Fair", (Intel ISEF) Alexandria, Egypt.

2016: Hosting and joining Professor Oldřich Nedvěd from Faculty of Science (former Faculty of Biological Sciences), University of South Bohemia, České Budějovice, Czech Republic at Department of Economic Entomology, Faculty of Agriculture, Cairo University.

Funded by: bilateral agreement between Egyptian academy of Science and Czech Academy of Science.

2017- present: Membership at the International Cooperation Office, Fac. Agriculture, Cairo University.

2016- Present: Membership of the quality of education administration at Dep. of Economic Entomology and pesticides, Fac. of Agriculture, Cairo University.

2016- 2017: Member of "Administrative and scientific board of virology center ", Department of Economic Entomology, Faculty of Agriculture, Cairo University.

2016- present: Member of "Educational Programs Development Committee" of Department of Economic Entomology, Faculty of Agriculture, Cairo University.

Professional Societies/Committees Memberships:

2017-2020: Membership IUCN Species Survival Commission (SSC)

<https://www.iucn.org/theme/species/about/species-survival-commission>

2016-present: Membership of Egyptian society of Biological control

2004-present: Membership of Egyptian society of Entomology

Student Activity:

2017: Supervisor of FAO model at Faculty of Agriculture, Cairo University.

Journals Peer Reviewer for

- Behavioral Ecology <https://academic.oup.com/beheco>
- Entomological Research Society

<http://www.entomol.org/journal/index.php?journal=JERS>

Scientific awards:

2016: Cairo University Prize of International Publications.

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List of Publications:

Mona Awad, Radka Piálková, Danny Haelewaters, Oldřich Nedvěd. Infection pattern of ladybird *Harmonia axyridis* (Coleoptera: Coccinellidae) by ectoparasitic fungus *Hesperomyces virescens* and endosymbiotic bacteria. **Submitted to Journal of Invertebrate Pathology**.

Moataz A.M. Moustafa, Wael H. Elmenofy, Engy A. Osman, ,Nourhan A. El-Said, **Mona Awad** (2022) Biological impact, oxidative stress and adipokinetichormone activities of *Agrotis ipsilon* in responseto bioinsecticides. **Plant Protection Science** 58(4). DOI: 10.17221/46/2022-PPS

Said El-Salamouny, Jorg T. Wennmann, Regina G. Kleespies , Katja. Richert-Poggeler , Amany Mansour , **Mona Awad** , Essam Agamy , Ramadan Salama, Johannes A. Jehle (2022) Identification of a new nucleopolyhedrovirus isolated from the olive leaf moth, *Palpita vitrealis*, from two locations in Egypt. **Journal of Invertebrate Pathology** 192(4): DOI: 10.1016/j.jip.2022.107770.

Mona Awad , Ibrahim E-DS, Osman EI, Elmenofy WH, Mahmoud AWM, Atia MAM, et al.(2022) Nano-insecticides against the black cutworm *Agrotis ipsilon* (Lepidoptera: Noctuidae):Toxicity, development, enzyme activity, and DNA mutagenicity. **PLoS ONE**, 17(2): e0254285. <https://doi.org/10.1371/journal.pone.0254285>

Moustafa, M.A.M.; **Mona Awad** , Amer, A.; Hassan, N.N.; Ibrahim,E.-D.S.; Ali, H.M.; Akrami, M.; Salem,M.Z.M (2021). Insecticidal Activity of Lemongrass Essential Oil as an Eco-Friendly Agent against the Black Cutworm *Agrotis ipsilon* (Lepidoptera:Noctuidae). **Insects**, 12, 737. *Insects* 2021, 12, 991. <https://doi.org/10.3390/insects12110991>

Knutelski, S.; **Mona Awad** , Łukasz, N.; Bukowski, M.; Śmiałek, J.; Suder, P.; Dubin, G.; Mak, P. (2021). Isolation, Identification, and Bioinformatic Analysis of Antibacterial Proteins and Peptides from Immunized Hemolymph of Red Palm Weevil *Rhynchophorus ferrugineus*. **Biomolecules**, 11(1), 83; <https://doi.org/10.3390/biom11010083>

Mona Awad, Sharaf, A., Elrahman, T.A. et al. (2021). The First Report for the Presence of Spiroplasma and Rickettsia in Red Palm Weevil *Rhynchophorus ferrugineus* (Coleoptera: Curculionidae) in Egypt. **Acta Parasitol.**66 (2):593-604. doi: 10.1007/s11686-020-00310-2 **PMID: 33389546**.

Mona Awad , Nedvědová J., Nedvěd O. (2021). Thermal plasticity of anti-oxidative enzymes in fresh adults of *Harmonia axyridis* (Coleoptera: Coccinellidae). **African Entomology** 29(1) DOI: 10.4001/003.029.0125

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Amira H. A. Moursey · Mohamed Aboelghar · Magda Khattab· **Mona Awad** · Ibtisam A. Hemeida · Sayeda S. Ahmed (2021). Effect of *Gryllotalpa gryllotalpa* (Orthoptera: Gryllotalpidae) on plant and crop characteristics of sugar beet, *Beta vulgaris* L. and detection of associated damage using hyperspectral remote sensing. **International Journal of Tropical Insect Science**. <https://doi.org/10.1007/s42690-021-00689-z>

Ahmed S.S., Naroz M.H., Abdel- Aziz S.Y., **Mona Awad** and Abd Shafy S. (2019). Morphological, Molecular and Biological Studies on Common Bean Weevil *Acanthoscelides obtectus* (Say) in Egypt. **J. Entomology**, 16: 30–38.

Nedvěd O., **Mona Awad**, Laugier G., Piálek L., Krejčí A., Karabüyük F., Pužejová K. & Kalushkov P. (2018). Paternity and sperm competition following multiple mating in *Harmonia axyridis* (Coleoptera: Coccinellidae). **IOBC-WPRS Bull.**, 137: 17-24.

Moustafa M.A.M., **Mona Awad**, Abdel-mobdy Y.E. and Eweis E.A. (2018). Latent effects of emamectin benzoate formulations on *Spodoptera littoralis* Bois. (Lepidoptera: Noctuidae). **Alex. J. Agric. Sci.**, 63: 53-61.

Hamada H.M., **Mona Awad** , EL-Hefny M. and Moustafa M.M.A. (2018). Insecticidal activity of garlic (*Allium sativum*) and ginger (*Zingiber officinale*) oils on the cotton leaf worm, *Spodoptera littoralis* (Boisd) (Lepidoptera: Noctuidae). **African Entomology**, 26: 84–94.

Mona Awad , Piálek L., Krejčí A., Laugier G. & Nedvěd O. (2017). Paternity following multiple mating in ladybird *Harmonia axyridis*. **Biocontrol**, 62: 297. Doi: 10.1007/s10526-017-9806-z.

Moustafa M.A.M., Kákai A., **Mona Awad** and Fónagy A. (2016). Sub lethal effects of spinosad and emamectin benzoate on larval development and reproductive activities of the cabbage moth, *Mamestra brassicae* L. (Lepidoptera: Noctuidae). **J. Crop Protect.**, 90: 197-204.

Mona Awad, Kalushkov P., Karabüyük F. & Nedvěd O. (2015), Non-random mating activity of colour morphs of ladybird *Harmonia axyridis* (Coleoptera: Coccinellidae), **Acta Soc. Zool. Bohem.**, 79: 11–17, ISSN 1211-376X.

Mona Awad , Laugier G.J.M., Loiseau A. & Nedvěd O. (2015), Unbalanced polyandry in wild-caught ladybirds *Harmonia axyridis* (Coleoptera: Coccinellidae), **Appl. Entomol. Zool.**, DOI 10.1007/s13355-015-0348-5

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Mona Awad, Kalushkov P., Nedvěďová T., Nedvěď O. (2013). Fecundity and fertility of ladybird beetle *Harmonia axyridis* after prolonged cold storage. **Biocontrol**, DOI [10.1007/s10526-013-9512-4](https://doi.org/10.1007/s10526-013-9512-4)

Mona Awad , Nedvěď O. (2013). Sperm competition following multiple mating in *Harmonia axyridis*. **IOBC WPRS Bul.**, **94**: 97-93

Mona Awad, Kalushkov P., Nedvěďová T. Nedvěď O. (2013). Sperm survival in fertilized females of *Harmonia axyridis* during overwintering. **IOBC Bul.**, **94**: 91-92.

Nedvěďová T., **Mona Awad** , Ungerová D., Nedvěď O. (2013). Characteristics of ladybird *Harmonia axyridis* during autumn migration. **IOBC-WPRS Bul.**, **94**: 117-122.

Zemek R., Prenerová E., **Mona Awad**, Hussein H.M. (2012). Potential of the strain of entomopathogenic fungus *Isaria fumosorosea* CCM 8376 as a biological control agent against *Cameraria ohridella* and other pests. **Acta Fytotechnica et Zootechnica**, **15**: 79–80.

Zemek R., Prenerová E., **Mona Awad** , Hussein H.M. (2012) Potential of the strain of entomopathogenic fungus *Isaria fumosorosea* CCM 8367 as a biological control agent against *Cameraria ohridella* and other pests. **Proceedings of abstracts of the XIXth Slovak and Czech Plant Protection Conference. Nitra**: 56–57.

Salama R.A.K. , Swailam S.M., Agamy E.A., **Awad M.A.** (2007): Food consumption and host preference of jasmine moth, *Palpita unionalis* (Hubner) (Lepidoptera: Pyralidae) on certain leaf olive varieties. **Egypt. J. Appl. Sci.**, **22 (12A)**: 252–260.