Lara Ramzi Jaber, Professor

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Date of birth: *August 22, 1979*
Place of birth: *Amman Jordan*
Marital status: *Single*
Language proficiency:
Arabic (mother tongue)
English (excellent user)
Deutsch (good user)
Italiano (beginner level)

EDUCATION

- ***2006-2010:*** Ph.D. Georg-August-University Goettingen Germany, Faculty of Agricultural Sciences, Department of Crop Sciences/Agricultural Entomology Section. Thesis title ***"The effects of the root endophytic fungus* Acremonium strictum *on plant-herbivore interactions"***. Degree conferred in end 2010*,* ***with honors (grade: "summa cum laude")***
- ***2002-2005:*** M.Sc. University of Jordan, Faculty of Agriculture, Department of Horticulture and Plant Protection. Major in Entomology, area of specialization is Integrated Pest Management (IPM). Thesis title ***"Integrated Pest Management Program for Controlling* Capnodis carbonaria *and* C. tenebrionis *(Coleoptera: Buprestidae) In Irbid Governate"***. Degree conferred in beginning 2005, with a cumulative average of ***3.94*** and a rating of ***Excellent***
- ***1997-2001:*** B.Sc. Jordan University of Science and Technology, Faculty of Agriculture, Department of Plant Production. Degree conferred 2001, with a cumulative average of ***85.6*** and a rating of ***Excellent***

JOB EXPERIENCE

- ***February 2023-present:*** Professor at the Department of Plant Protection, Faculty of Agriculture, University of Jordan, Jordan
- ***July-August 2021:*** Guest professor at the Department of Microbiology, Faculty of Biology, Leopold-Franzens-Universität Innsbruck (LFUI), Innsbruck, Austria
- ***January 2020:*** Visiting scientist at the Biological Control Research Unit, Faculty of Agriculture, Suez Canal University, Ismailia, Egypt
- ***February 2017-February 2023:*** Associate Professor at the Department of Plant Protection, Faculty of Agriculture, University of Jordan, Jordan
- ***June-September 2015:*** Visiting scientist at Agroscope Reckenholz, Zurich, Switzerland
- ***November 2014-January 2017:*** Assistant Professor at the Department of Plant Protection, Faculty of Agriculture, University of Jordan, Jordan
- ***July-September 2013:*** Visiting scientist at the Department of Phytomedicine, Geisenheim University, Germany
- ***July-August 2012:*** Visiting scientist at IASMA Research and Innovation Center, Fondazione Edmund Mach, Italy
- ***February 2012-October 2014:*** Full-time lecturer at the Department of Plant Protection, Faculty of Agriculture, University of Jordan, Jordan
- ***May 2011-January 2012:*** Postdoctoral Scientist at IASMA Research and Innovation Center, Fondazione Edmund Mach, Italy

HONOR AWARDS and RESEARCH GRANTS

- Named among the Stanford University's 2023 list of the top 2% scientists in the world ***(December 2023)***
- Named among the Stanford University's 2022 list of the top 2% scientists in the world ***(October 2022)***
- LFUI Guest Professorship awarded by the Leopold-Franzens-Universität Innsbruck ***(July-August 2021)***
- Named among the Stanford University's 2020 list of the top 2% scientists in the world ***(December 2020)***
- University of Jordan Distinguished Researcher Award ***(2014-2019)***
- Grant from the Science and Technological Development Fund (STDF) under the STDF-IRD-AUF scheme ***(February 2019-February 2021)***
- Grant for Scientific Exchanges from the Swiss National Science Foundation (SNSF) ***(June-September 2018)***
- AgreenSkills Program for International Mobility Fellowship ***(January-December 2017)***
- Université de Lorraine and French Grand Est Region Grants ***(January-December 2017)***
- International Short Visit Fellowship from the Swiss National Science Foundation (SNSF) ***(June-September 2015)***
- The University of Jordan Research Grant for funding the research project "The innovative use of fungal entomopathogens for the biological control of crop pests and diseases" ***(June 2014-June 2018)***
- Short-stay research fellowship by the Deutscher Akademischer Austausch Dienst (DAAD) ***(July-September 2013)***

- Funding of PhD studies by the Deutscher Akademischer Austausch Dienst (DAAD) / German Academic Exchange Service ***(2006-2010)***
- Gottlieb Daimler-und Karl Benz-Stiftung / Daimler-Benz Scholarship (in the framework of the program „Research in Foreign Countries") ***(2006)***
- Funding of M.Sc. studies by the Arab Organization of Agricultural Development (AOAD) ***(2002-2005)***
- Co-funding of M.Sc. studies by Bayer CropScience ***(2002-2005)***
- Four M.Sc. Assistantship Grants ***(2002-2005)***
- Four B.Sc. Honor Awards ***(1997-2001)***

PUBLICATIONS

- Wyckhuys KAG, Akutse KS, Amalin DM, Araj SE, Barrera G, Beltran MJB, Ben Fekih I, Calatayud P-A, Cicero L, Cokola MC, Colmenarez YC, Dessauvages K, Dubois T, Durocher-Granger L, Espinel C, Fernández-Triana JL, Francis F, Gómez J, Haddi K, Harrison RD, Haseeb M, Iwanicki NSA, **Jaber LR**, Khamis FM, Legaspi JC, Lomeli-Flores RJ, Lopes RB, Lyu B, Montoya-Lerma J, NguyenTD, Nurkomar I, Perier JD, Pozsgai G, Ramírez-Romero R, Robinson-Baker AS, Sanchez-Garcia FJ, Silveira LC, Simeon L, Solter LF, Santos-Amaya OF, de Souza Tavares W, Trabanino R, Vásquez C, Wang Z, Wengrat APGS, Zang L-S, Zhang W, Zimba KJ, Wu K, Elkahky M (2024) Functional structure of the natural enemy community of the fall armyworm, *Spodoptera frugiperda* in the Americas. ***Biological Control***, 198, 105640

- Wyckhuys KAG, Akutse KS, Amalin DM, Araj S-E, Barrera G, Beltran MJB, Ben Fekih I, Calatayud P-A, Cicero L, Cokola MC, Colmenarez YC, Dessauvages K, Dubois T, Durocher-Granger L, Espinel C, Fallet P, Fernández-Triana JL, Francis F, Gómez J, Haddi K, Harrison RD, Haseeb M, Iwanicki NSA, **Jaber LR**, Khamis FM, Legaspi JC, Lomeli-Flores RJ, Lopes RB, Lyu B, Montoya-Lerma J, Montecalvo MP, Polaszek A, Nguyen TD, Nurkomar I, O'Hara JA, Perier JD, Ramírez-Romero R, Sanchez-Garcia FJ, Robinson-Baker AM, Silveira LC, Simeon L, Solter LF, Santos-Amaya OF, Talamas EJ, de Souza Tavares W, Trabanino R, Turlings TCJ, Valicente FH, Vásquez C, Wang Z, Wengrat APGS, ZangL-S, Zhang W, Zimba KJ, Wu K, Elkahky M, Hadi BAR (2024) Global scientific progress and shortfalls in biological control of the fall armyworm *Spodoptera frugiperda*. ***Biological Control***, 191, 105460
- Kenis M, Benelli G, Biondi A, Calatayud PA, Day R, Desneux N, Harrison RD, Kriticos D, Rwomushana I, van den Berg J, Verheggen F, Zhang YJ, Agboyi LK, Ahissou RB, Ba MN, Bernal J, de Freitas Bueno A, Carrière Y, Carvalho GA, Chen XX, Cicero L, du Plessis H, Early R, Fallet P, Fiaboe KKM, Firake DM, Goergen G, Groot AT, Guedes RNC, Gupta A, Hu G, Huang FN, **Jaber LR**, Malo EA, McCarthy CB, Meagher Jr. RL, Mohamed S, Mota Sanchez D, Nagoshi RN, Nègre N, Niassy S, Ota N, Nyamukondiwa C, Omoto C, Reddy Palli S, Pavela R, Ramirez-Romero R, Rojas JC, Subramanian S, Tabashnik BE, Tay WT, Virla EG, Wang S, Williams T, Zang LS, Zhang L & Wu K (2023) Invasiveness, biology, ecology, and management of the fall armyworm, *Spodoptera frugiperda*. ***Entomologia Generalis***, 43, 187-241

- Russo ML, **Jaber LR**, Scorsetti AC, Vianna F, Cabello MN & Pelizza SA (2021) Effect of entomopathogenic fungi introduced as corn endophytes on the development, reproduction, and food preference of the invasive fall armyworm *Spodoptera frugiperda*, ***Journal of Pest Science***, 94, 859-870
- Gange AC, Koricheva J, Currie AF, **Jaber LR** & Vidal S (2019) Meta-analysis of the role of entomopathogenic and unspecialised fungal endophytes as plant bodyguards. ***New Phytologist***, 223, 2002-2010
- **Jaber LR** (2018) Fungal entomopathogens as endophytes: A promising approach towards sustainable agriculture? In: ***Proceedings of the International Conference on Food, Agriculture and Animal Sciences (ICOFAAS)****, Antalya, Turkey, 3–7 October 2018. p 9*
- **Jaber LR** (2018) Seed inoculation with endophytic fungal entomopathogens promotes plant growth and reduces Crown and Root Rot (CRR) caused by *Fusarium culmorum* in wheat. ***Planta****, 248, 1525-1535*
- **Jaber LR** & Alananbeh MK (2018) Fungal entomopathogens as endophytes reduce several species of *Fusarium* causing crown and root rot in sweet pepper (*Capsicum annuum* L.). ***Biological Control***, *126, 117-126*
- **Jaber LR**, Araj SE & Qasem JR (2018) Compatibility of endophytic fungal entomopathogens with plant extracts for the management of sweetpotato whitefly *Bemesia tabaci* Gennadius (Homoptera: Aleyrodidae). ***Biological control****, 117, 164–171*

- **Jaber LR** & Ownley BH (2018) Review: Can we use entomopathogenic fungi as endophytes for dual biological control of insect pests and plant pathogens? ***Biological control****, 116, 36-45*
- **Jaber LR** & Araj SE (2018) Interactions among endophytic fungal entomopathogens (Ascomycota: Hypocreales), the green peach aphid *Myzus persicae* Sulzer (Homoptera: Aphididae), and the aphid endoparasitoid *Aphidius colemani* Viereck (Hymenoptera: Braconidae). ***Biological control****, 116, 53-61*
- **Jaber LR** (2017) Editorial – Endophytic fungal entomopathogens with multiple roles for sustainable agriculture. ***Arab and Near East Plant Protection Newsletter***, 70, 3
- **Jaber LR** & Enkerli J (2017) Fungal entomopathogens as endophytes: can they promote plant growth? ***Biocontrol Science and Technology,*** *1, 28–41*
- **Jaber LR** & Enkerli J (2016) Effect of seed treatment duration on growth and colonization of *Vicia faba* by endophytic *Beauveria bassiana* and *Metarhizium brunneum.* ***Biological control****, 103, 187–195*
- **Jaber LR** & Enkerli J (2016) Fungal entomopathogens as endophytes for plant protection: Can they promote plant growth as well? In: ***Proceedings of the 49th Annual Meeting of the Society of Invertebrate Pathology****, Tours, France, 24–28 July 2016*
- **Jaber LR** (2015) Grapevine leaf tissue colonization by the fungal entomopathogen *Beauveria bassiana s.l.* and its effect against downy mildew. ***BioControl***, *60, 103–112*

- Vidal S & **Jaber LR** (2015) Entomopathogenic fungi as endophytes: plant–endophyte–herbivore interactions and prospects for use in biological control. ***Current Science****, 109, 46–54*
- **Jaber LR** & Salem NM (2014) Endophytic colonisation of squash by the fungal entomopathogen *Beauveria bassiana* (Ascomycota: Hypocreales) for managing Zucchini yellow mosaic virus in cucurbits. ***Biocontrol Science and Technology****, 24, 1096–1109*
- **Jaber LR** & Salem NM (2014) Establishing the fungal entomopathogen *Beauveria bassiana* (Ascomycota: Hypocreales) as an endophyte in cucurbits for managing Zucchini Yellow Mosaic Virus (ZYMV). In: ***Proceedings of the 47th Annual Meeting of the Society of Invertebrate Pathology****, Mainz, Germany, 3–7 August 2014. p 14*
- **Jaber LR**, Vidal S & Pertot I (2013) Can endophytic *Beauveria bassiana* protect grapevine against *Plasmopara viticola*? In: ***Schneider C, Leifert C & Feldmann F (Eds) Endophytes for plant protection: the state of the art****, Berlin, Germany*
- **Jaber LR** & Vidal S (2010) Fungal endophyte negative effects on herbivory are enhanced on intact plants and maintained in a subsequent generation. ***Ecological Entomology****, 35, 25–36*
- **Jaber LR**, Stahlmann H, Tefera T & Vidal S (2010) Establishment of the fungal entomopathogen *Beauveria bassiana* (Ascomycota: Hypocreales) as an endophyte in broad bean and oilseed rape and its potential for insect biocontrol. In: ***Proceedings of the 43rd Annual Meeting of the Society of Invertebrate Pathology****, Trabzun, Turkey, 11–15 July 2010. p 78*

- Stahlmann H, **Jaber LR**, Vidal S (2010) Interactions of entomopathogenic endophytes with faba bean rust (*Uromyces viciae-fabae*). ***Julius-Kühn-Archiv***, 428
- **Jaber LR** & Vidal S (2009) Interactions between an endophytic fungus, aphids, and extrafloral nectaries: do endophytes induce extrafloral-mediated defences in *Vicia faba*? ***Functional Ecology****, 23, 707–714*
- Sharaf N & **Jaber LR** (2006) Integrated pest management program for controlling *Capnodis carbonaria* Klug and *C. tenebrionis* L. (Coleoptera: Buprestidae) in Irbid Governate. In: ***Proceedings of the Ninth Arab Congress of Plant Protection***, *Damascus, Syria, 19–23 November 2006, p E-190*

TALKS and PRESENTATIONS

- **DGaaE Entomological Conference** *(March 2009, Göttingen, Germany)*
- **Max-Planck Institute for Chemical Ecology** *(June 2009, Jena, Germany)*
- **Multitrophic Interactions Workshop** *(March 2010, Göttingen, Germany)*
- **43rd Annual Meeting of the SIP** *(July 2010, Trabzon, Turkey)*
- **47th Annual Meeting of the SIP** *(August 2014, Mainz, Germany)*
- **49th Annual Meeting of the SIP** *(July 2016, Tours, France)*
- **Invited Speaker at The National Center for Agricultural Research and Extension Scientific Day** *(April 2016, Amman, Jordan)*
- **Invited Speaker at the DAAD Orientation Seminar for New Perspective-Scholarship Holders** *(September 2016, Amman, Jordan)*

- **Invited Keynote Speaker at the 1st International Conference on Food, Agriculture and Animal Sciences (ICOFAAS)** *(October 2018, Antalya, Turkey)*
- **Guest Professor Public Lecture hosted by The University of Innsbruck** *(August 2021, Innsbruck, Austria)*

TEACHING EXPERIENCE

- ***Assistant Instructor at Georg-August University (2008-2010):***

- Graduate level:

Biological Control and Biodiversity *(MSc level)*

- ***Full-time lecturer (2012-2014), Assistant Professor (2014-2016), Associate Professor (2017-2023), and as Full Professor (2023-present) at The University of Jordan:***

- Graduate level:

Advanced Biological Control (PhD level)

Insect-plant interaction (PhD level)

Integrated Pest Management (IPM) (MSc level)

- ***Undergraduate level:***

Field Training in Plant Protection (BSc level)

Insect vectors of plant diseases (BSc level)

Principles of Biological Control (BSc level)

Principles of Entomology (BSc level)

Principles of Plant Protection (BSc level)

Seminar in Plant Protection (BSc level)

PROFESSIONAL SERVICE

- ***Associate Editor:***
  - ***Biological Control (Elsevier)***
- ***Subject Editor:***
  - ***Journal of Pest Science (Springer)***
- ***Guest Editor:***
  - ***Special Issue: Recent Advances in the Biological Control of Fall Armyworm (*Spodoptera Frugiperda*) for Biological Control (Elsevier)***
- ***Reviewer:***
  - ***Biological Control*** (manuscripts reviewed = 14)
  - ***Biocontrol Science & Technology*** (manuscripts reviewed = 8)
  - ***Journal of Applied Entomology*** (manuscripts reviewed = 3)
  - ***Jordan Journal of Agricultural Sciences*** (manuscripts reviewed = 3)
  - ***Fungal Ecology*** (manuscripts reviewed = 2)
  - ***Acta Physiologiae Plantarum*** (manuscripts reviewed = 1)
  - ***BioControl*** (manuscripts reviewed = 1)
  - ***Comparative Biochemistry and Physiology*** (manuscripts reviewed = 1)
  - ***Frontiers in Plant science*** (manuscripts reviewed = 1)
  - ***Fungal Biology Reviews*** (manuscripts reviewed = 1)
  - ***Insect Science*** (manuscripts reviewed = 1)
  - ***Journal of Invertebrate Pathology*** (manuscripts reviewed = 1)
  - ***Journal of Pest Science*** (manuscripts reviewed = 1)

- ***Microbial Ecology*** (manuscripts reviewed = 1)
- ***Microbiological Research*** (manuscripts reviewed = 1)
- ***Pest Management Science*** (manuscripts reviewed = 1)
- ***Planta*** (manuscripts reviewed = 1)
- ***Plant Ecology & Diversity*** (manuscripts reviewed = 1)

UNDERGRADUATE & GRADUATE STUDENT TRAINING/SUPERVISION

- ***E. Srour:*** MSc (August 2022 – present)
- ***D. Fawaeer:*** BSc (May 2017 – June 2020)
- ***L. Zuwiri:*** BSc (March 2016 – July 2016)
- ***M. Abbasi:*** BSc (March 2015 – December 2015)
- ***A. Mittelstädt:*** BSc (April 2010 – September 2010)
- ***D. Khayat:*** MSc (April 2010 – September 2010)
- ***L. Verano Irazu:*** MSc (October 2009 – February 2010)
- ***H. Stahlmann:*** MSc (August 2009 – July 2010)

REFERENCES

- ***Prof. Dr. Stefan Vidal:*** Georg-August-University Goettingen
  Dept. of Crop Sciences/Agricultural Entomology
  Email: svidal@gwdg.de
- ***Prof. Dr. Alan Gange***: Royal Holloway London
  School of Biological Sciences
  Email: A.Gange@rhul.ac.uk