


Dr. Jouda Mediouni Ben Jemâa
Professor in Entomology

 <https://orcid.org/0000-0003-0916-9243>
[https://www.researchgate.net/profile/Jouda Mediouni Ben Jemâa](https://www.researchgate.net/profile/Jouda_Mediouni_Ben_Jemâa)
Scopus Author ID: 36198695900



National Agricultural Research Institute of Tunisia (INRAT), Laboratory of Biotechnology Applied to Agriculture, University of Carthage

Phone: +216 97652174

Email: joudamediouni1969@gmail.com / j_mediouni@hotmail.fr

Address: INRAT, Rue Hedi Karray, 1004 El Menzah, Tunis, Tunisia

Education

2005: PhD, Plant Protection (Entomology), National Agronomic Institute of Tunisia (INAT), University of Carthage.

1997: Specialized Engineer, Plant Protection, (Entomology), INAT, University of Carthage, Tunis, Tunisia.

1994: Engineer, ESA- Kef (Agronomy).

1989: Baccalaureate degree, Mathematics & Sciences.

Research Experience

IPM control of insect pests;

Ecology, Population dynamics and Biocontrol of insect pests;

Post-harvest control of stored product insect pests;

Essential oils as bioinsecticides;

Sterile Insect Technique (case of the carob moth *Ectomyelois ceratoniae*)

Sex pheromone research on the carob moth *Ectomyelois ceratoniae*

Last 5 Years Publications (2017-2021)

1. Amira Cherif, Mohsen Rezgui, Faten Titouhi, Sondes Youssfi, Abir Soltani, Salha Barg, Mustapha El Bouhssini, **Jouda Mediouni Ben Jemâa**. 2021. Distribution, population dynamics and damage of Hessian fly, *Mayetiola destructor* (Diptera: Cecidomyiidae) in North Tunisia. Journal of Applied Entomology 145:3, 223-238 <https://doi.org/10.1111/jen.12840>

2. Dridi Imen, Haouel-Hamdi Soumaya, Cheraief Imed, **Mediouni Ben Jemâa Jouda**, Landoulsi Ahmed, Chaouch Rym. 2021. Essential Oil from Flowering Tops of *Lavandula dentata* (L): Chemical Composition, Aantimicrobial, Antioxidant and Insecticidal Activities, Journal of Essential Oil Bearing Plants, 24:3, 632-647, <https://doi.org/10.1080/0972060X.2021.1944326>

3. Fatima Aissaoui, Mariam Hedjal-Chebheb, Abir Soltani, Soumaya Haouel-Hamdi, Oualid Talhi, Borhane Eddine Chérif Ziani, **Jouda Mediouni-Ben Jemâa**. 2021. Variations of chemical composition of two Algerian essential oils collected for different seasons and assessment of their insecticidal toxicity against three moth pests. Journal of Plant Diseases and Protection.1-10. <https://doi.org/10.1007/s41348-021-00491-6>

4. Antonio Carapelli, Claudia Brunetti, Claudio Cucini, Elena Cardaioli, Abir Soltani, Moez Amri, Jouda Mediouni Ben Jemâa, Pietro Paolo Fanciulli, Francesco Nardi. 2021. The mitogenome of the true bug *Nysius cymoides* (Insecta, Heteroptera) and the phylogeny of Lygaeoidea. Mitochondrial DNA Part B,6:8, 2366-2368, <https://doi.org/10.1080/23802359.2021.1951139>

5. Soumaya Haouel-Hamdi, Abir Soltani, Rahma Jmal, Chokri Messaoud, Yosr Zaouali, Emna Boushah, **Jouda Mediouni-Ben Jemâa**. 2021. Use of binary mixtures of three Mentha essential oils for the control of rice weevil *Sitophilus oryzae* (Curculionidae). International Journal of Tropical Insect Science 41, 1333–1342. <https://doi.org/10.1007/s42690-020-00326-1>.
6. Abir Soltani, Yosr Zouali, Soumaya Haoual-Hamdi, Dalel Saadouni, Moez Amri, Antonio Carapelli, **Jouda Mediouni Ben Jemâa**. 2021. Relationship between secondary metabolites and infestations caused by chickpea leafminer *Liriomyza cicerina* (Diptera:Agromyzidae). International Journal of Tropical Insect Science 41, 251–259. <https://doi.org/10.1007/s42690-020-00200-0>.
7. Maha BenAbada, Soumaya Haouel Hamdi, Chokri Masseur, Hafedh Jroud, Emna Boushah, **Jouda Mediouni Ben Jemâa**. 2020. Variations in chemotypes patterns of Tunisian Rosmarinus officinalis essential oils and applications for controlling the date moth *Ectomyelois ceratoniae* (Pyralidae). South African Journal of Botany 128, 18-27. <https://doi.org/10.1016/j.sajb.2019.10.010>.
8. Soumaya Haouel Hamdi, Ezzeddine Saadaoui, Marwa Ben Jemia, Chokri Messaoud, Olfa Bachrouch, Emna Boushah, Mouhamed Larbi Khouja, **Jouda Mediouni Ben Jemâa**. 2020. A comparative study of *Eucalyptus salubris* essential oils efficacy extracted by innovative and conventional processes against *Sitophilus oryzae*. Journal of Plant Diseases and Protection. <https://doi.org/10.1007/s41348-020-00341-x>
9. Meriem Elaoui, Soumaya Haouel Hamdi, Rania Ben Nasr, Hanen Ghazghazi, Emna Boushah, Abdelwahed Laamouri, Yousef Ammari, **Jouda Mediouni**. 2020: Characterization of epicathechin contents in the *Ziziphus spina-christi* L. root extracts using LC-MS analyses and their insecticidal potential., Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology, <https://doi.org/10.1080/11263504.2020.1779837>
10. Ghozlene Aouadi, Soumaya Haouel, Abir Soltani, Maha Ben Abada, Emna Boushah, Salem Elkahoui, Faiza Taibi, **Jouda Mediouni Ben Jemâa**, Salima Bennadja. 2020. Screening for insecticidal efficacy of two Algerian essential oils with special concern to their impact on biological parameters of *Ephestia kuehniella* (Zeller) (Lepidoptera: Pyralidae). Journal of Plant Diseases and Protection, <https://doi.org/10.1007/s41348-020-00340-y>
11. Jazia Sriti Eljazi, Youkabel Zarroug, Jihed Aouini, Nidhal Salem, Olfa Bachrouch, Emna Boushah, Selim Jallouli, **Jouda Mediouni Ben Jemâa**, Ferid Limam. 2020. Insecticidal activity of Artemisia herba-alba and effects on wheat flour quality in storage. Journal of Plant Diseases and Protection, <https://doi.org/10.1007/s41348-020-00322-0>
12. Riham Gharib, **Jouda Mediouni Ben Jemâa**, Catherine Charcosset, Sophie Fourmentin, Hélène Greige-Gerges. 2020. Retention of Eucalyptol, a Natural Volatile Insecticide, in Delivery Systems Based on Hydroxypropyl- β -Cyclodextrin and Liposomes. European Journal of Lipid Science and Technology. <https://doi.org/10.1002/ejlt.201900402>.
13. Soumaya Haouel-Hamdi, Mohamed Ben Hamedou, Olfa Bachrouch, Emna Boushah, Youkabel Zarroug, Jazia Sriti, Chokri Messaoud, Majdi Hammami, Manef Abderraba, Ferid Limam, **Jouda Mediouni-Ben Jemâa**. 2020. Susceptibility of *Tribolium castaneum* to Laurus nobilis essential oil and assessment on semolina quality. International Journal of Tropical Insect Science. <https://doi.org/10.1007/s42690-020-00119-6>
14. Maha Ben Abada, Soumaya Haouel Hamdi, Riham Gharib, Chokri Messaoud, Sophie Fourmentin, Helene Greige-Gerges and **Jouda Mediouni Ben Jemâa**. 2019. Post-harvest management control of *Ectomyelois ceratoniae* (Zeller) (Lepidoptera: Pyralidae): new insights through essential oil encapsulation in cyclodextrin. Pest Management Science. <https://doi.org/10.1002/ps.5315>.
15. Asma Mami Maazoun, Soumaya Haouel Hamdi, Feten Belhadj, **Jouda Mediouni Ben Jemâa**, Chokri Messaoud, Mohamed Nejib Marzouki. 2019. Phytochemical profile and insecticidal activity of *Agave americana* leaf extract towards *Sitophilus oryzae* (L.) (Coleoptera: Curculionidae). Environmental Science and Pollution Research. <https://doi.org/10.1007/s11356-019-05316-6>.
16. Samah Ben Chaaban, Soumaya Haouel Hamdi, Kamel Mahjoubi, **Jouda Mediouni Ben Jemâa**. 2019. Composition and insecticidal activity of essential oil from Ruta graveolens, *Mentha pulegium* and *Ocimum basilicum* against *Ectomyelois ceratoniae* Zeller and *Ephestia kuehniella* Zeller (Lepidoptera: Pyralidae). Journal of Plant Diseases and Protection. <https://doi.org/10.1007/s41348-019-00218-8>.

17. Antonio Carapelli, Abir Soltani, Chiara Leo, Matteo Vitale, Moez Amri and **Jouda Mediouni-Ben Jemâa**. 2018. Cryptic Diversity Hidden within the Leafminer Genus *Liriomyza* (Diptera: Agromyzidae). *Genes*, 9, 554; <https://doi.org/10.3390/genes9110554>
18. Amira Cherif and **Jouda Mediouni Ben Jemâa**. 2018. Distribution, population dynamics and damage potential of barley stem gall midge, *Mayetiola hordei* (Diptera: Cecidomyiidae) on cultivated barley in two semi-arid areas of North Tunisia. <http://dx.doi.org/10.1016/j.cropro.2018.06.017>.
19. Soumaya Haouel-Hamdi, Olfa Bachrouch, Mariam Hedjal Chebheb, Meriem Labidi, Ali Ouji, Emna Boushah and **Jouda Mediouni-Ben Jemâa**. 2018. Changes in host discrimination behaviour of *Callosobruchus maculatus*: Shifting from habitual to ancestral hosts. *Evolutionary ecology research* 19 (2):195-208.
20. Mabrouka Ghabbari, Salvatore Guarino, Virgilio Caleca, Filippo Saiano, Milko Sinacori, Nuray Baser, **Jouda Mediouni- Ben Jemâa**, Gabriella Lo Verde. 2018. Behavior-modifying and insecticidal effects of plant extracts on adults of *Ceratitis capitata* (Wiedemann) (Diptera Tephritidae). *Journal of Pest Science*, <http://dx.doi.org/10.1007/s10340-018-0952-6>.
21. Nidhal Salem, Olfa Bachrouch, Jazia Sriti, Kamel Msaada, Saber Khammassi, Majdi Hammami, Saoussen Selmi, Emna Boushah, Souha Koorani, Manef Abderraba, Brahim Marzouk, Férid Limam & **Jouda Mediouni Ben Jemâa**. 2018. Fumigant and repellent potentials of *Ricinus communis* and *Mentha pulegium* essential oils against *Tribolium castaneum* and *Lasioderma serricorne*. *International Journal of Food Properties*, <http://dx.doi.org/10.1080/10942912.2017.1382508>,
22. Jazia Sriti Eljazi, Olfa Bachrouch, Nidhal Salem, Kamel Msaada, Jihad Aouini, Majdi Hammami, Emna Boushah, Manef Abderraba, Ferid Limam & **Jouda Mediouni Ben Jemâa**. 2018. Chemical composition and insecticidal activity of essential oil from coriander fruit against *Tribolium castaneum*, *Sitophilus oryzae*, and *Lasioderma serricorne*. *International Journal of Food Properties*, <http://dx.doi.org/10.1080/10942912.2017.1381112>,
23. Asma Mami Maazoun, Takoua Ben Hlel, Soumaya Haouel Hamdi, Feten Belhadj, **Jouda Mediouni Ben Jemâa**, Mohamed Nejib Marzouki. 2017. Screening for insecticidal potential and acetylcholinesterase activity inhibition of *Urginea maritima* bulbs extract for the control of *Sitophilus oryzae* (L.). *Journal of Asia-Pacific Entomology*, <http://dx.doi.org/10.1016/j.aspen.2017.04.004>,
24. Amira Cherif, Natsuko Kinoshita, DeMar Taylor, **Jouda Mediouni Ben Jemâa**. 2017. Molecular characterization and phylogenetic comparisons of three *Mayetiola* species (Diptera: Cecidomyiidae) infesting cereals in Tunisia. *Applied Entomology and Zoology*, <http://dx.doi.org/10.1007/s13355-017-0507-y>.
25. Soumaya Haouel Hamdi, Sourour Abidi, Dorra Sfayhi, Mohamed Zied Dhraief, Moez Amri, Emna Boushiha, Mariam Hedjal-Chebhebf, Khouja Mouhamed Larbig, **Jouda Mediouni Ben Jemâa**. 2017. Nutritional alterations and damages to stored chickpea in relation with the pest status of *Callosobruchus maculatus* (Chrysomelidae). *Journal of Asia-Pacific Entomology*, <http://dx.doi.org/10.1016/j.aspen.2017.08.008>.
26. Khaoula Zarred, Asma Laarif, Amel Ben Hamouda, Ikkal Chaieb, **Jouda Mediouni-Ben Jemâa**. 2017. Anticholinesterase Potential of Monoterpenoids on the Whitefly *Bemisia tabaci* and Their Kinetic Studies. *Journal of Agricultural Science and Technology* 19 (3), 643-652.
27. Soumaya Haouel Hamdi, Sourour Abidi, Dorra Sfayhi, Mohamed Zied Dhraief, Moez Amri, Emna Boushah, Mariam Hedjal-Chebheb, Khouja Mouhamed Larbi, **Jouda Mediouni Ben Jemâa**. 2017. Nutritional alterations and damages to stored chickpea in relation with the pest status of *Callosobruchus maculatus* (Chrysomelidae). *Journal of Asia-Pacific Entomology* 20 1067-107. <http://dx.doi.org/10.1016/j.aspen.2017.08.008>.
28. Faten Titouhi, Moez Amri, Chokri Messaoud, Soumaya Haouel, Sondes Youssfi, Amira Cherif, **Jouda Mediouni Ben Jemâa**. 2017. Protective effects of three *Artemisia* essential oils against *Callosobruchus maculatus* and *Bruchus rufimanus* (Coleoptera: Chrysomelidae) and the extended side-effects on their natural enemies. *Journal of Stored Products Research*. <http://dx.doi.org/10.1016/j.jspr.2017.02.007>