

# **CURRICULUM VITAE**



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**Date of Birth:** 30/10/1969, Sousse, Tunisia

**Nationality:** Tunisian

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## **1. FIELD OF SPECIALIZATION:**

- Insect ecology, biology, monitoring and control (*Parabemisia myricae*, *Bemisia tabaci*, *Phthorimaea operculella*, *Tuta absoluta*, *Spodoptera littoralis*, *Helicoverpa armigera*...)
- Insects biocontrol: Use of microorganisms (Baculoviruses and bacteria) to control lepidopteran
- Use of botanicals (plant extracts and essential oils) for pest control
- Vegetable and fruits insect pest management
- Integrated pest management

## **2. ACADEMIC QUALIFICATIONS:**

2014	University of Carthage. Habilitation to Supervise Research (HDR) in Plant Protection
2004	University of Tunis El Manar, PhD, Study of a granulovirus isolated from potato tuber moth <i>Phthorimaea operculella</i> Zeller in Tunisia (Lepidoptera: Gelechiidae).
1995	University of Tunis El Manar Master, Introduction and acclimatization of <i>Eretmocerus debachi</i> Rose & Rosen (Hym., Aphelinidae) parasitoid of <i>Parabemisia myricae</i> (Kuwana) (Hom., Aleurodidae) in Tunisia
1992	IRESA, University of Sousse, Engineer of Agronomy, Higher Institute of Agronomic Sciences of Chott-Mariem.

## **3. PROFESSIONAL EXPERIENCE**

May 2014 to date Associate Professor (Lecturer) in Plant Protection (Entomology- Parasitology), Regional Research Centre on Horticulture and Organic Agriculture (CRRHAB/IRESA).

**2005- 2014** Assistant Professor (Chargé de Recherche), Regional Research Centre on Horticulture and Organic Agriculture (CRRHAB/IRESA).

**1999-2005** Research assistant. National Institute of Agronomic Research of Tunisia (INRAT).

#### **4. EXPERIMENTAL SKILLS**

- Insect rearing and maintenance
- Molecular, biochemical and immunological techniques: DNA extraction, Gel electrophoresis of DNA, PCR, data analysis of DNA sequencing, Spectroscopy, ELISA.
- Bacterial and viral techniques: isolation, culturing and regular maintenance of cultures
- Bioinformatics: BLAST, Fasta, Clustal W, sequencing analysis software
- Microscopy: Histology, transmission and fluorescence microscopy,
- Computer Skills: Application software: MS-OFFICE (Power point, Word, Excel, publisher, paint).
- Bioinformatics (NCBI Pubmed search engine, BLAST), Statistics (Basic applied biostatistics).

#### **5. TRAINING COURSES**

- June 2009 Molecular biology techniques and bioinformatics (analyses of Bemisia project results). Centre de Biologie et Gestion des Populations (CBGP) Montpellier. France. June 1-30 2009.
- November 2008 Molecular biology techniques (Bemisia genetic studies). Centre de Biologie et Gestion des Populations (CBGP), Montpelliers. France. October 3 - November 6 2008.
- June 2007 Molecular biology techniques (characterization of Bemisia biotypes). Centre de Biologie et Gestion des Populations (CBGP) de Montpelliers (France). May 8- June 16 2007.
- January 2002 Molecular biology techniques to study baculoviruses. Laboratory of Entomovirology, Faculty of Agriculture-IRD, Cairo, Egypt. January, 01-24 2002.

#### **6. PROFESSIONAL ACTIVITIES:**

- Member of the office of Mediterranean Group of Pesticides Research (MGPR)
- Member of the Arab Society of Plant Protection (ASPP)
- Member of the Scientific Council of the Regional Research Center on Horticulture and Organic Agriculture (CRRHAB)
- Member of the scientific commission of the Technical Center of Potato and Artichoke.
- Member of the Commission for the assessment of projects in plant protection and quality of agricultural products (IRESA)
- Member of the jury for recruitment and promotion of agricultural researchers.
- Member of the National Committee of Vegetable Crops, Ministry of Agriculture.
- Member of the National Committee of Organic Agriculture, Ministry of Agriculture

- Member of the National Committee of *Tuta absoluta*, Ministry of Agriculture
- Reviewer of Tunisian Journal of Plant Protection (TJPP), the Annals of the INRAT, Potato Journal, Jordan Journal of Biological Sciences
- Grant reviewer for the Institution of Agricultural Research and Higher Education (IRESA)

## **7. TEACHING**

2008-2013 Courses in Entomology; Taxonomy, Agriculture insect pests, integrated pest management. School of Higher Education in Agriculture of Mograne, Zaghouan, Tunisia (Ecole Supérieure d'Agriculture de Mograne ESAM).

## **8. UNDERGRADUATE AND GRADUATE STUDENTS SUPERVISION**

Theses: Sawsen Ben Tiba, 2013-2018  
 Khaoula Zarrad, 2014-2018  
 Thameur Bousselema, 2015-2018

Masters: Ameni Dhouibi, 2013  
 Chourabi Khira, 2010  
 Kamel Nasralli, 2009

Engineer memories: Salma Essid, 2015  
 Khaoula Bedis, 2014  
 Thameur Bousselema, 2014  
 Mohamed Ali Azaiz, 2013  
 Amina Ayed, 2012  
 Ines Touiri, 2010  
 Karima Khsib, 2010  
 Néziha boukhili, 2010  
 Jihène Romdhane, 2009  
 Mahfouf Mohamed Fayçal, 2008  
 Anis Bouraoui, 2008  
 Nesrine Zallama, 2007  
 Hamdi Saidi, 2006

## **9. NATIONAL AND INTERNATIONAL RESEARCH -DEVELOPMENT PROJECTS**

2016-2018 Sustainable and integrated management of protected vegetable crops CléProD: Project funded by IRESA in the Center east of Tunisia.  
 Coordinator of the Project.

2010-2013 Sustainable and integrated management of *Tuta absoluta* in tomato culture in Tunisia. Project funded by IRESA

2007-2009 JEAI BEMIGEST (management of the problem Bemisia in Vegetable Crops). Project funded by Institute of Research for Development (IRD).

	Partners: Centre de Biologie et Gestion des Populations (CBGP) de Montpellier, France.
2000-2003	Integrated pest management of the Potato tuber moth. Project funded by IRESA.
2014-2015	Convention of research for development funded by the Group of Food Conservatives Industries (Groupement des Industries de Conserves Alimentaires (GICA)) to test resistance of some varieties of tomato to TYLC virus transmitted by <i>Bemisia tabaci</i> .
2013-2014	Specific convention about excessive use of pesticides in agriculture funded by APE Wardenine association
2008-2011	Convention of research for development to evaluate efficacy of yellow sticky traps to control whiteflies in greenhouses funded by Regional Office of Agriculture Development of Monastir (CRDA Monastir).

## 10. EXTENSION

Invited to carry out courses and conferences for technical services administration about:

Artichoke Integrated pest management (training courses organized by Technical Center of potato and artichoke).

Integrated pest management to control the potato tubermoth *Phthorimaea operculella* (training courses organized by Technical Centre of potato and artichoke).

Integrated pest management in greenhouses crops (Office of Agriculture Development of Sousse and Monastir).

The safe use of agrochemical pesticides and Alternatives (Technical Centre of Organic Agriculture, Office of Agriculture Development of Sousse and Monastir...).

## 11. NATIONAL AND INTERNATIONAL SYMPOSIUM ORGANIZATION

- 20-21 April 2015. First national symposium on integrated plant protection (SYNPIP-2015). Sousse. Tunisia.
- 9-10 October 2015. 9th MGPR's International Symposium: Pesticides in Food and the Environment in Mediterranean Countries. Hammamet. Tunisia.

## 12. PUBLICATIONS

- 51- H. JEDER, A. LAARIF B, I. CHAIEB B ET F. KSOURI (2018). Farmers' risk perceptions of pesticides used for greenhouses vegetables production in Tunisian Center-East. *New Medit.* In press.

- 50- BEN TIBA S, LAREM A, **LAARIF A**, E. Fritsch, K. Undorf-Spahn, S. Abuelgasim Mohamed, S. Ekesi, J. T. Wennmann, J. Krosche, S. Fattouch, J. A. Jehle1 (2018). The potential of novel African isolates of *Phthorimaea operculella* granulovirus for the control of *Tuta absoluta*. *Journal of Applied Entomology*. 00:1–10. <https://doi.org/10.1111/jen.12568>
- 49- N.E. BEN-KHALIFA, I. CHAIEB, **A. LAARIF**, R. HAOUALA. (2018). Insecticidal activity of six *Apiaceae* essential oils against *Spodoptera littoralis* Biosduval (Lepidoptera: Noctuidae). *Journal of New Science*. Volume 55 (1). [www.jnsciences.org](http://www.jnsciences.org). E-ISSN 2286-5314.
- 48- SAFA RGUEZ, KAMEL MSAADA, MEJDA DAAMI-REMADI, IKBEL CHAYEB, INES BETTAIEB REBEY, MAJDI HAMMAMI, **ASMA LAARIF** & IBTISSEM HAMROUNI-SELLAMI (2018): Chemical composition and biological activities of essential oils of *Salvia officinalis* aerial parts as affected by diurnal variations, *Plant Biosystems*. DOI: 10.1080/11263504.2018.1473305.
- 47- I. CHAIEB1, K. ZARRAD, R. SELLAM., W. TAYEB., A. BEN HAMMOUDA., **A. LAARIF** and S.A BOUHACHEM (2018). Chemical composition and aphicidal potential of *Citrus aurantium* peel essential oils. *Entomologia Generalis*, Vol. 37, Issue 1. 063-075.
- 46- I. CHAIEB, A.L BEN HAMMOUDA, W. TAYEB, K. ZARRAD, T. BOUSLEMA and **A. LAARIF** (2018).The Tunisian Artemisia Essential Oils for Reducing Contamination of Stored Cereals by *Tribolium castaneum*. *Food Technology and Biotechnology* 56 (2). DOI10.17113/ftb.56.02.18.5414.
- 45- ZARRAD K., **LAARIF**, A. BEN HAMMOUDA, 1. CHAIEB, AND 1. MEDIOUNI-BEN JEMAA. (2017) Anticholin- esterase Potential of Monoterpenoidson the Whitefly Bemisia Tabaci and Their Kinetic Studies". *Journal of Agricultural Science and Technology*. Vol 19, No 1.643-652.
- 44-A. ENNIGROU, HERVÉ CASABIANCA, **A. LAARIF**, B. HANCHI, KARIM HOSNI (2017). Maturation-related changes in phytochemicals and biological activities of the Brazilian pepper tree (*Schinus terebinthifolius* Raddi) fruits. *South African Journal of Botany*, Elsevier, 108, pp.407-415.
- 43- AKACHA, M., CHAIEB, I., **LAARIF**, A., HAOUALA, R., AND BOUGHANMI, (2017). Effects of *Melia azedarach* leaf extracts on nutritional behavior and growth of *Spodoptera littoralis*. (Tunisia). *Tunisian Journal of Plant Protection*. Volume 12, Special Issue. 61-70.
- 42- ZARRAD, K., CHAIEB, I., BEN HAMMOUDA, A., BOUSLAMA, T., AND **LAARIF**, A. (2017). Chemical composition and insecticidal effects of *Citrus aurantium* essential oil and its powdery formulation against *Tuta absoluta*. *Tunisian Journal of Plant Protection*. Volume 12, Special Issue. 83-94.
- 41- A. BEN HAMMOUDA, I. CHAIEB, K. ZARRAD, **A. LAARIF** (2017). A New Pteromalid Species: *Anisopteromalus Quinarius* (Gokhman & Baur, 2014) Found in Tunisia, *Entomology and Applied Science Letters*. 4 (4): 7-10.
- 40- BEN HAMMOUDA, A., BOUSSADIA, O., BEDIS, K., CHAIEB, I., **LAARIF**, A., AND BRAHAM, M. (2016). Effect of olive leaf extracts on the feeding, growth and metabolism of *Spodoptera littoralis*. *Tunisian Journal of Plant Protection*. 11: 63-72.
- 39-DAMMAK M., BEN KHEDHER S., BOUKEDI H. CHAIB I., **LAARIF A**, TOUNSI S. (2016) Involvement of the processing step in the susceptibility/tolerance of two lepidopteran larvae to *Bacillus thuringiensis* Cry1Aa toxin. *Pesticide Biochemistry and Physiology*.127 46–50.

- 38- ELBAZ M., HANSON P., FGAIER S. & **LAARIF A.** (2016). Evaluation of tomato entries with different combinations of resistance genes to tomato yellow leaf curl virus (TYLCV) disease in Tunisia. *Plant Breeding* 135(4): 525-530. doi: 10.1111/pbr.12375.
- 37- M. DAMMAK, S. BEN KHEDHER, H. BOUKEDI, I. CHAIB, **A. LAARIF**, S. TOUNSI (2016). Involvement of the processing step in the susceptibility/tolerance of two lepidopteran larvae to *bacillus thuringiensis* cry1Aa toxin *Pesticide Biochemistry and Physiology*. Volume 127. 46-50.
- 36- **A. LAARIF** , D. SALEH, C. CLOUET, N. GAUTHIER (2015). Regional co-occurrence between distinct *Bemisia tabaci* (Hemiptera: Aleyrodidae) species in Tunisia with new insights into the role of host plants. *Phytoparasitica*. DOI 10.1007/s12600-014-0437-y. 43:135-150.
- 35- ZARRAD K., A. BEN HAMOUDA, I. CHAIEB, **A. LAARIF**, J. MEDIOUNI-BEN JEMÂA. (2015). Chemical composition, fumigant and anti-acetylcholinesterase activity of the Tunisian *Citrus aurantium* L. Essential oils. *Industrial crops and products* 76, 121-127.
- 34- S. BEN KHEDHER, H. BOUKEDI, O. KILANI-FEKI, I. CHAIB, **A. LAARIF** , L. ABDELKEFI-MESRATI, S. TOUNSI (2015). *Bacillus amyloliquefaciens* AG1 biosurfactant putative: Receptor Diversity and histopathological effects on *Tuta absoluta* midgut. *Journal of invertebrate pathology*. Volume 132, 42-47.
- 33- BEN HAMOUDA, A., CHAIEB, I., ZARRAD, K., & **LAARIF, A.** (2015). Insecticidal activity of methanolic extract of Silverleaf nightshade against *Tribolium castaneum*. *International Journal of entomological research*, 3(1), 23-28.
- 32- A. BEN HAMOUDA, K. ZARRAD, I. CHAIEB, **A. LAARIF** (2015). Antifeedant and insecticidal properties of *Solanum elaeagnifolium* extracts on the African Cotton Leafworm. *Azarian Journal of agriculture*. 2 (3), 71-74.
- 31- A. BEN HAMOUDA, O. BOUSSADIA, K. BEDIS, **A. LAARIF**, M. BRAHAM (2015) studies on insecticidal and deterrent effects of olive leaf extracts we *Myzus persicae* and *Phthorimaea operculella*. *Journal of entomology and zoology Studies*. 3(6), 294-297.
- 30- AMEL BEN HAMOUDA, ZARRAD KHAOULA, **ASMA LAARIF** , IKBAL CHAIEB (2015). Insecticidal effect of *Solanum elaeagnifolium* extracts under laboratory conditions. *Journal of Entomology and Zoology Studies*. 3 (3), 187-190.
- 29- BEN HAMOUDA AMEL, MECHI ATIKA , ZARRAD KHAOULA , **LAARIF ASMA** AND CHAIEB IKBAL (2015). Disruptive effects of pomegranate *Punica granatum* Linn. (Lythraceae) extracts on the feeding, digestion and morphology of *Spodoptera littoralis* (Boisduval) (Lepidoptera: Noctuidae). *Entomology and Applied Science Letters*, 2, 2:1-6.
- 28- AMEL BEN HAMOUDA, IKBAL CHAIEB, MEJDA DAAMI-REMADI and **ASMA LAARIF** (2015). In vitro evaluation of insecticidal and antifungal potencies of fruit peel extracts of pomegranate (*Punica granatum*). *Central European Journal of Experimental Biology*, 4 (1):11-15.
- 27- KHALIL, S., ZARRAD, K., BEN HAMMOUDA, A., AYED LAKHAL, Y., RGUEZ, S., TAYEB, W., **LAARIF, A.**, AND CHAIEB I. (2015). Comparison between insecticide effects of wild and cultivated rosemary essential oils we stored product insects. *Tunisian Journal of Plant Protection*. 10: 105-115.

- 26-MAJDOUB O., DHEN N., SOUGUIR S., HAOUAS D., BAOUANDI M., **LAARIF A.** . And CHAIEB I. (2014). Chemical composition of the essential oils of the *Ruta chalepensis* and their insecticidal activity against *Tribolium castaneum*. *Tunisian Journal of Plant Protection* . 9: 83-90.
- 25- BEN HAMOUDA A., MECHI A., ZARRED K., CHAIEB I. and **LAARIF A.** (2014). Insecticidal activities of extracts from the bark of the Granada (*Punica granatum*) against the red flour beetle *Tribolium castaneum*. *Tunisian Journal of Plant Protection*, 9: 91-100.
- 24- DHEN N., MAJDOUB O., SOUGUIR S., TAYEB W., **LAARIF A.** and CHAIEB I. (2014). The chemical composition and toxicity by fumigation of essential oils of *Artemisia absinthium* against *Rhyzopertha dominica* and *Spodoptera littoralis*. *Tunisian Journal of Plant Protection* . 9: 57-65.
- 23- LADHARI A., OMEZZINE F., CHAIEB I., **LAARIF A.** and HAOUALA R. (2013). Antifeeding and insecticidal effects of *Capparis spinosa* L. It *Spodoptera littoralis* (Boisduval) larvae. *African Journal of Agricultural Research*. Vol. 8(42), pp. 5232-5238.
- 22- **LAARIF A** , ZARRAD K, Tayeb W, AYED A, SOUGUIR S and CHAIEB I, (2013), chemical composition and insecticidal activity of essential oil from *Citrus aurantium* (Rutaceae) fruit peels against two greenhouse insects; *Spodoptera littoralis* ( Noctuidae ) and *Tuta absoluta* ( Gelechiidae ). *Advances in Agriculture, Science and Engineering Research*. 3 (5): 825 - 830.
- 21- LADHARI A, **LAARIF A**, OMEZZINE F, HAOUALA R. (2013). Effect of the extracts of the spiderflower, **Cleome arabica**, on feeding and survival of larvae of the cotton leafworm, *Spodoptera littoralis*. *Journal of Insect Science* 13:61. Available online: <http://www.insectscience.org/13.61>.
- 20- SOUGUIR S ., Chaieb I., BEN CHEIKH Z., **LAARIF A.** (2013). Insecticidal activities of essential oils from some cultivated aromatic plants against *Spodoptera littoralis* (Boisd). *Journal of plant protection research*. Vol. 53, No. 4. 388-391.
- 19- RGUEZ S., DAAMI-REMADI M., CHAIB I., **LAARIF A** . & HAMROUNI I. (2013). Chemical composition, antifungal activity and insecticidal activity of the essential oil of *Salvia officinalis*. *Tunisian journal of medicinal plants and natural products* 9(2): 65-76.
- 18- ZARRED K; CHAIEB I.; SOUGUIR S; TAYEB W; CHRAIEF I; **LAARIF A.**; HAMMAMI M; HAOUALA R.(2013) Bio-insecticidal potential of essential oils of two Citrus species against two greenhouse pests *Tuta absoluta* Meyrick and *Spodoptera littoralis* Boisduval. *Microbiologie Hygiène Alimentaire*. 25, No. 73: 84-88.
- 17- ZANGAR I., SOUGUIR S., **LAARIF A** ., CHAIEB I. (2013): Study of the toxicity of essential oils of eucalyptus occidentalis and Eucalyptus camaldulensis there *Tribolium castaneum* (Coleoptera: Tenebrionidae). *Microbiology Food Hygiene*. Vol 25, No. 73: 116-119.
- 16- KHALED W., ZARRAD K., SOUGUIR S., GUESMI C., TAYEB W., **LAARIF A** ., Chaieb I. (2013). Chemical composition of essential oils of fruits of three ripening stages of bitter orange and their insecticidal potential against the aphid (*Myzus persicae*) *Microbiol. Hyg. Power supply* .-flight 25, No. 73: 107-111.
- 15- DOUNIA S., **LAARIF A** . , C. CLOUET, N. GAUTHIER (2012) . Spatial and post-plant partitioning between coexisting *Bemisia tabaci* cryptic species in Tunisia. *Population ecology*. 54 (2). Pp 261-274. DOI: 10.1007/s10144-012-0303-Z.

- 14- MAJDOUB O, DHEN N, SOUGUIR S, HAOUAS D, BAOUANDI M, **LAARIF A**., Chaieb I., 2013. Insecticidal activity of *Ruta chalepensis* (The) essential oils against two stored product insects: *Tribolium castaneum* (Herbest) and *Sitophilus zeamais* (Motsch) *Microbiology Food Hygiene*. 25, No. 73: 89-93.
- 13- DHEN N, MAJDOUB O., SOUGUIR S, TAYEB W, **LAARIF A** ., CHAIEB I., 2013. Chemical composition and bio-insecticidal activity of *Eugenia caryophyllata* Essential Oil against *Spodoptera littoralis*. *Microbiology Food Hygiene* -flight 25, No. 73: 94-98.
- 12- SOUGUIR S., BEN CHEIKH Z., CHAIEB I., **LAARIF A** . (2013). Study of the toxicity of essential oils of *Origanum majorana* there *Tribolium castaneum* and *Plodia interpunctella* (stored product insects). *Tunisian journal of medicinal plants and natural products*. Volume 9 (1). 29-34.
- 11- **LAARIF A**. SALHI, E., FATTOUCH S. and BEN HAMOUDA M.H. 2011. Molecular detection and biological characterization of nucleoplohydrovirus Tun-Sl(NPV) isolated from *Spodoptera littoralis* in Tunisian tomato greenhouses. *Annals of Biological Research*. 2 (4):180-191.
- 10- **LAARIF A**. SALHI, E., FATTOUCH S. and BEN HAMOUDA M.H. 2011. Isolation and identification of a Nosema strain ( *microsporidia*, *Nosematidae* ) from potato tubermoth, *Phthorimaea operculella* (Zeller) ( *Lepidoptera*, *Gelechiidae* ) in Tunisia. *Annals of Biological Research*. 2 (4): 281-290.
- 9- **LAARIF A**., BEN AMMAR A., TRABELSI M. AND BEN HAMOUDA M.H. 2006. Histopathology and morphogenesis of the Granulovirus of the potato tuber moth *Phthorimaea operculella*. *Tunisian Journal of Plant Protection* . Vol. 1, No. 2. p115-124.
- 8- **LAARIF A**., 2004. A study of a pathogenic granulovirus of *Phthorimaea operculella*. (*Lepidoptera* , *Gelechiidae* potato tubermoth in Tunisia: Characterization of the virus, Epidemiology and application. *Thesis for obtaining the degree of Phd in Biological Sciences*. 133 p.
- 7- **LAARIF A**., FATTOUCH S., ESSID, W., MARZOUKI N., BEN SALAH H. and BEN HAMOUDA M.H. 2003. Epidemiological survey of the *Phthorimaea operculella* granulosis virus in Tunisia. *EPPO Bulletin*. 33 (2). 335-338.
- 6- BOUDAGGA, H., BARBOUCHE, N., **LAARIF A**, AND BEN HAMOUDA, M. H. 2003. Morphological identification of the *varroa mite* species ( Acari: Varroidae ) colonizing Tunisian apiaries. *Systematic & Applied Acarology Society*. 8. 97-100.
- 5- **LAARIF A** ., BOUDEGGA H., BEN SALAH H. and BEN HAMOUDA M. H. 2003. Characterization of a granulovirus isolated from potato tuber moth *Phthorimaea operculella* Zeller ( *Lepidoptera*: *Gelechiidae* ). *Annals of the INRAT* , 2003, 76.
- 4- BEN JAMAA M. H. AND **LAARIF A** . 2001. Phytosanitary State forest nurseries in Tunisia: Diagnosis and perspectives of struggle. *The Annals of the INRGREF*. N°. Special, 180-196.
- 3- BEN JAMAA M. H. AND **LAARIF A** . 2001. Insect pests and diseases of poplar in Tunisia. *The Annals of the INRGREF* . No. Special, 197-214.
- 2- Chermiti, B., **LAARIF A** . and Gahbiche H. 1996. Determination of preferential sites of Ponte de *Parabemisia myricae* on the leaves of citrus. *The Annals of the INRAT* . 69: 157-170.

1- CHERMITI B. GAHBICHE H. ONILLON J.C. **LAARIF A** . DALI, M.; MESSELMANI, H. 1995, introduction and acclimatization of Eretmocerus debachi Rose & Rosen (Hym., APHELINIDAE) parasitoid of *Parabemisia myricae* (Kuwana) (Hom., Aleurodidae) in Tunisia. *Bulletin. Section Régionale West Palaearctique, International Organization for Biological Control.* 18(5):88-102.

## PATENTS

- 2016 Chaieb Ikbal, Zarrad Khaoula, Ben Hamouda Amel, Houas Dalila, Bouslama Thameur, Tayeb Wafa, **Laarif Asma**. An insecticide preparation based on silica and 1.8 cineole for agricultural use". Filed at INNORPI, May 6, 2016 under the number TN2016 /0167.
- 2015 -Zarrad Khaoula, Chaieb Ikbal, Taieb Wafa, Ben Hammouda Amel, **Laarif Asma**. Insecticidal formulation based on clay and essential oil of bark of bigarades for agricultural use. Filed at INNORPI, May 6, 2016 under the number TN2016 TN2015 /0222.

## 13. ABSTRACTS, POSTERS AND PRESENTED PAPERS (international congress)

**A. LAARIF , K. ZARRAD, M. ELBAZ , I.CHAIEB N. GAUTHIER** (2017). Current research achievements on *Bemisia tabaci* in Tunisia: species status and alternatives for sustainable management of a major *B. tabaci*-transmitted phytopvirus disease. **Oral communication**, 12th International Arab Congress of Plant Protection 5 – 9 November, 2017. Cairo – Egypt. *Arab Journal of Plant Protection*. Volume 35, Special Issue, p73.

- BEN TIBA S., **LAARIF A.**, FATTOUCH S., KROSCHEL J., FRITSCH E., UNDORF-SPAHN K., LAREM A., JEHLE J. A. (2016). Molecular identification and biological activity of African isolates of PhopGV on *Tuta absoluta* larvae. **Poster**, 49th Annual Meeting of the Society for Invertebrate Pathology. 24-28 July 2016 .Tours – France.
- BEN TIBA, S., LAREM, A., FRITSCH, E., UNDORF-SPAHN, K., **LAARIF, A.**, FATTOUCH, S., JEHLE, J. (2015): Characterization of the Tunisian PhopGV isolate TU1.11; molecular identification and biological activity on *Phthorimaea operculella* larvae. In: JKI (Hrsg.): **Oral communication**. Achtes Nachwuchswissenschaftlerforum 2015: 19.-21 October in Quedlinburg ; Abstracts (Berichte aus dem Julius-Kühn-Institut 181), Quedlinburg ; Ribbesbüttel,18.
- CHAIEB IKBAL, ZAARAD KHAOULA, BEN HAMOUDA AMEL, TAYEB WAFA, **LAARIF ASMA** 2015, Insecticidal activity of solid formulation based on bitter orange essential oils and purified clay. **Oral Communication**, 9th MGPR, International Symposium of Pesticides in Food and The Environment in Mediterranean Countries. October 09-10 2015, Hammamet, Tunisia. Act of symposium, p 11.
- K. ZARRAD, I. CHAIEB, A. BEN HAMOUDA, J. MEDIOUNI-BEN JEMÂA, **A. LAARIF**. (2015). Toxicity of essential oils formulation against stored product insect. **Poster**, 9th MGPR's International Symposium: *Pesticides in Food and the Environment in Mediterranean Countries*. October 09-10 2015, Hammamet, Tunisia. Act of symposium, Abstracts, 95.

- A. LAARIF, D. SALEH, C. CLOUET, N. GAUTHIER (2013). Current species status and distribution of *Bemisia tabaci* in Tunisia from various vegetables and ornamentals. **Poster**, International Whitefly Symposium- 20-24 may 2013, Kolymbari, Crete, Greece.
- LAARIF A., CHAIEB I., BLIBECH I. AND FATTOUCH S. (2013). Current research in microbial control of insect pests and prospects for the use the entomopathogens in Tunisia. **Oral Communication**, Proceedings of *Crop Protection Management in Mediterranean Organic Agriculture ISOFAR /MOAN /CTAB Symposium* 14-16 May 2013. Sousse, Tunisia. Act of congress P9.
- DHOUBI A., BLIBECH I., CHAIEB I., BORG I. AND LAARIF A. (2013), Insecticidal activity of *Bacillus brevis* and *Beauveria bassiana* on *Tuta absoluta* (Meyrick, 1917) (Lepidoptera: Gelechiidae). **Poster**, *Crop Protection Management in Mediterranean Organic Agriculture ISOFAR /MOAN /CTAB Symposium* May 14- 16, in Sousse, Tunisia. Act of congress p80.
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## **15. LANGUAGES**

- Arabic (*mother tongue*), with a good knowledge of spoken and written French and a good knowledge of English.