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Education

2001 – 2007: PhD: Insecticide resistance of *Bemisia tabaci* to commonly used insecticides in Moroccan Tomato farms

Supervisors : Pr. A. HANAFI (*IAV HASSAN II*) & Pr. M.A. SERGHINI (*FSA-IBN ZOHR*)

1998 – 2000: Master of Sciences in Plant Biotechnology: Biocontrol of tomato bacterial canker *Clavibacter michiganensis subsp michiganensis* by antagonistic fluorescent *Pseudomonas*

Experience

2013: Invited professor at Faculte Polydisciplinaire de Taroudant (Ibn Zohr Univ.)

2011 – Current position: Manager of laboratories at INRA-CRRA-Agadir

2010 – Current position: Researcher IPM – INRA, Agadir, Morocco.

Main Projects:

- Modelisation of integrated production of tomato under multispans greenhouse microclimate.
- Biopesticides as a tool in IPM strategies to control tomato leafminers *Tuta absoluta*
- Phytosanitary status of tomato protected crops in the Souss-Massa
- Resistance of *Bemisia tabaci* to insecticides
- Side effects of pesticides on *Nesidiocoris tenuis* main predator of *T. absoluta* and whiteflies
- Biocontrol of *Eutetranychus orientalis* in organic citrus groves

Oct. 2007 – Jan. 2010: Quality Manager

- Citrus Unit – Packhouse, Cooperative COPAG (Taroudant – Morocco)

Oct. 2007 – Jan. 2010: Internal Auditor

- Citrus Unit – Orchards, Cooperative COPAG (Taroudant – Morocco)

Dec. 2006 – Sept. 2007: Technical and Quality Manager

- Tomatoes and Vegetables - Cooperative AZRO (Agadir – Morocco)

Mar. 2006 – Jun. 2006: Consultant

- Phytoconsulting (Agadir – Morocco)

Oct. 2003 – Jun. 2006: Temporary professor

- Universities and private institutes (Agadir – Morocco): Microbiology and Parasitology

Publications

1. Boujghagh M., **R. Bouharroud** and M. Mouhib **2015**. Germination of cactus (*Opuntia ficus indica*) seeds irradiated with various doses of radiations mutagenic treatment. Accepted for publication in *Acta Horticulturae*
2. Boujghagh M. and **R. Bouharroud** **2015**. Influence of the timing of flowers and young cladodes removal on reflowering and harvest periods, yields and fruits quality of prickly pear (*Opuntia ficus indica*). Accepted for publication in *Acta Horticulturae*
3. Wifaya A., **R. Bouharroud**, Elame F., Azim K., L. Bouirden, L. Gourdo, K. Lekouch, M. EL Jazouli and A. Taoufik **2014**. Modeling of integrated production tomato under multispans greenhouse in Souss Massa region. *International Journal of Enhanced Research in Science Technology and Engineering*, Vol. 3 (12): 125-132.
4. Mimouni A., R. Mrabet, F. Msanda and **R. Bouharroud** **2014**. Effect of mixed cropping rotations of vetch, barley and fodder pea-barley with corn on the chemical, physical and biological soil

- characteristics in the Southwest of Morocco. *International Journal of Enhanced Research in Science Technology and Engineering*, Vol. 3 (12): 133-140.
5. Qessaoui R., Chebli B., Mayad E. H. and **R. Bouharroud** 2014. Biological control of *Botrytis cinerea* using fluorescent *Pseudomonas*. *The 2nd International American Moroccan Agricultural Sciences Conference, Marrakech, Morocco, October 2014*, Pp. 51.
 6. Walters A., Mimouni A., **Bouharroud R.**, Wifaya A. and Boujghagh M. 2014. Vegetable crop landraces in the Souss region of Morocco. *The 2nd International American Moroccan Agricultural Sciences Conference, Marrakech, Morocco, October 2014*, Pp. 15.
 7. **Bouharroud R.** 2014. Approche proactive pour lutter contre les acariens clés des agrumes au Maroc. *Agriculture du Maghreb* N°77: 82 – 85.
 8. **Bouharroud R.** and M. Setamou 2013. Residual effects of three neonicotinoids commonly used to control Asian citrus psyllid, *Diaphorina citri*. *Entomological Society of America Annual Meeting 2013; 11/2013*
 9. Nilahyane A., **R. Bouharroud**, A. Hormatallah, N. Ait Taadaouit 2012. Larvicidal effect of plant extracts on *Tuta absoluta* (Lepidoptera, Gelechiidae). *IOBC-WPRS Bulletin* Vol. 80 : 305-310.
 10. Ait Taadaouit N., M. Hsaine, A. Rochdi, A. Nilahyane and **R. Bouharroud** 2012. Effet des extraits végétaux méthanoliques de certaines plantes marocaines sur *Tuta absoluta* (Lepidoptera, Gelechiidae). *EPPO Bulletin*, Volume 42, Issue 2 : 275–280.
 11. **Bouharroud R.** 2011. Tomate : Principales maladies fongiques. *Agriculture du Maghreb*. N° 54, p : 92 – 96.
 12. **Bouharroud R.**, S. Lhaloui, F. Gaboun and A. Ait Lhaj 2011. The costs of the control of *Tuta absoluta* in the Souss valley of Morocco. *International Symposium on management of Tuta absoluta Agadir, Morocco, November 16-18, 2011*
 13. **Bouharroud R.**, Hanafi, A. and Serghini, M.A. 2007. Pyrethroids and Endosulfan resistance of *Bemisia tabaci* in the tomato greenhouses of the Souss valley of Morocco. *Acta Horticulturae* 747:409-413
 14. Hanafi, A., **Bouharroud R.**, Amouat, S. and Miftah, S. 2007. Efficiency of insect nets in excluding whiteflies and their impact on some natural biological control agents. *Acta Horticulturae* 747:383-387
 15. **Bouharroud R.**, Hanafi A., Brown J. K., and Serghini M. A. 2006. Resistance and cross-resistance of *Bemisia tabaci* to commonly used insecticides in the tomato greenhouses of the Souss valley of Morocco. *European Journal of Scientific Research* Vol. 14 (4): 587 – 594.
 16. **Bouharroud R.**, Hanafi A., Brown J. K., and Serghini M. A. 2006. Résistance de *Bemisia tabaci* aux insecticides communément utilisés dans les cultures de tomates sous serre de la région de Souss-Massa. *Actes du 2^{ème} Congrès International de Biochimie May 2006*
 17. Brown J.K., Hanafi A., **Bouharroud R.** and Murphy B. 2004. Molecular identification of Begomoviruses and haplotypes of *Bemisia tabaci* (Genn.) in tomato crops in Morocco. *Proceeding of the 2nd European Whitefly Symposium, Cavtat, Croatia*.
 18. **Bouharroud R.**, Hanafi A., Haouass F., Murphy B. et Serghini M. A. 2004. Premier rapport sur la résistance de la mouche blanche *Bemisia tabaci* aux insecticides au Maroc. *Proceeding de l'AMPP*. Pp: 125 – 135.
 19. Hanafi A., Amouat S., Miftah S., **Bouharroud R.** et Murphy B. 2004. Utilisation des filets anti-insectes en culture de tomate sous serre «Impact sur le couple *Bemisia*/TYLCV et sur la faune auxiliaire». *Proceeding de l'AMPP*. Pp: 319 – 328.
 20. **Bouharroud R.**, Hanafi A. Murphy B. and Serghini M. A. 2003. New developments in *Bemisia tabaci* resistance to insecticides in greenhouse tomato in Morocco. *IOBC/WPRS Bulletin*. Vol. 26(10): 21 – 25.
 21. Hanafi A., **Bouharroud R.**, Miftah S. et Amouat S. 2003. Evaluation of different types of insect screens for the exclusion of whiteflies and natural enemies. *IOBC/WPRS Bulletin*. Vol.26(10): 43 – 47.
 22. Hanafi A., **Bouharroud R.**, Miftah S. et Amouat S. 2003. Performances of two types of insect screens as a physical barrier against *Bemisia tabaci* and their impact on TYLCV incidence in greenhouse tomato in the Souss Valley of Morocco. *IOBC/WPRS Bulletin* Vol. 26(10): 39 – 42.
 23. **Bouharroud R.**, Hanafi A., Murphy B., Haouass F. and Serghini M. A. 2003. Evidence of *Bemisia tabaci* resistance to some commonly used insecticides in greenhouse tomatoes in Morocco. *Abstract Proceeding of the 3rd International Bemisia Workshop Barcelona 17 - 20 March, 2003*

24. Hanafi A., **Bouharroud R.**, Murphy B. and Haouas F. **2003**. Evaluating the mode of action for a novel, non-toxic whitefly pesticide. Abstract Proceeding of the 3rd International *Bemisia* Workshop Barcelona 17-20 March, 2003
25. Hanafi A., Murphy B.C., **Bouharroud R.**, Amouat S. and Alaoui D. **2003**. Efficiency of exclusion nets against *Bemisia tabaci* (Homoptera: Aleyrodidae) and TYLCV incidence in greenhouse tomato. Abstract Proceeding of the 3rd International *Bemisia* Workshop Barcelona 17-20 March, 2003
26. Hanafi A., **Bouharroud R.** and Murphy B. **2003**. *AGRI-50: Effect on Bemisia tabaci* pupae and adult emergence. European Whitefly Studies Network Newsletter Issue N°15
27. Hanafi A., **Bouharroud R.** and Murphy, B. **2003**. *Bemisia tabaci* insecticide resistance in Morocco. *European Whitefly Studies Network Newsletter Issue N°15*.
28. Hanafi A., B. Murphy, I. Alaoui and **Bouharroud R.** **2002**. Physical methods for the control of *Bemisia tabaci* and its impact on TYLCV infection in greenhouse tomato in Morocco. *IOBC/WPRS Bulletin* Vol. 25 (1) pp. 85-88.
29. Hanafi A., **Bouharroud R.**, and B. Murphy. **2002**. Evaluating a new non-toxic pesticide for integrated control of *Bemisia tabaci* in protected agriculture in Morocco. *IOBC/WPRS Bulletin* Vol. 25 (1) pp. 89-92.
30. Hanafi A., **Bouharroud R.** and Amouat S. **2002**. Evaluating a new non-toxic pesticide for integrated control of *Bemisia tabaci* in Protected_Agriculture in Morocco. European Whitefly Studies Network. pp.11-12. EWSN Abstract Compendium 245 p.
31. Hanafi A., **Bouharroud R.** and Haouas F. **2002**. Evaluating *Bemisia tabaci* resistance to the most common Neocotinoids used in Protected Cultivation in Morocco. European Whitefly Studies Network. pp.13-15. EWSN Abstract Compendium 245 p.
32. Hanafi A., **Bouharroud R.** and Murphy, B. **2001**. Evaluation of a non-toxic pesticide against *Bemisia tabaci* in the Souss Valley of Morocco. *EWSN Newsletter Issue N° 11*.

International Fellowship and Media distinction

- ✓ Newscast on live 20h00 Medi1Sat TV (October, 2014)
- ✓ TV Report'' *Massarat ailmiya*'' مسارات علمية on ATHAQAFIA Channel 4 (April, 2014)
- ✓ BORLAUG FELLOWSHIP at Texas Agricultural & Machinery University – Kingsville (Citrus Center – Weslaco) USA, 2011
- ✓ Participation to WORLD FOOD PRIZE, IOWA (USA), October, 2011
- ✓ GREENMED, *The Mediterranean Fresh Produce Magazine*, (N°03/2007 May-June)
- ✓ Newscast on live 20h00 2M TV (April, 2001)

Technical and Professional Training

Topic	Dates	Language
Tender offer (Moroccan Law)	Mar., 2013	French
How to manage a meeting?	Mar., 2013	French
Personal development : Time management	Feb., 2012	French
Personal development : Creativity	Jan., 2012	French
Microbiologic and Chemical analysis	Oct., 2009	French
Certification in agriculture	Oct., 2009	French
Certification Tesco Nature's Choice	Jul., 2009	French
Internal auditing techniques	Jan., 2009	French
Certification "British Retail Consortium"	Jul., 2009	French
Agricultural Machinery and equipment (pesticide application)	Jan., 2009	French
How to develop job descriptions?	Dec., 2007	French
Molecular detection methods of grapevine virus	Dec., 2003	English
Marked-assisted selection for breeding tomatoes	Dec., 2003	English
Trainer of the FAO Hortivar database on performance of horticulture cultivars	Feb., 2003	English

Meeting organization

- Convenor of National Seminar "**Integrated Pest Management in Citrus Orchards**" (*International speaker was invited*), Agadir, July, **2012**
- Assistant Organizer of the International ISHS symposium "**Advances in soil and soilless cultivation under protected environment**" 19-24 February **2006**
- Assistant Organizer of the VIth Triennial congress - African Potato Association - **APA- "Research development innovation for income generation and food security"**. 05-10 April **2004**
- Assistant Organizer of the IOBC workshop "**IPM in protected cultivation: Mediterranean climate**" November 30 to December 05, **2003**
- Assistant Organizer of "**Workshop of Integrated Production and Protection in Greenhouse Crops**" organised by **FAO** February 02 to 07, **2003**
- Member of Organizing committee of "**Biological Days**", Ibn Zohr Univ., **1996**

Membership

2015 Associated member of Phytopathology and IPM Unit at University Ibn Zohr, Fac. Sciences, Agadir

2015 Associated member of Process Engineering for Energy and Environment, Ecole Nationale des Sciences Appliquée (ENSA-Agadir)

2011 and **2012** Member of International Association for the Plant Protection Sciences (IAPPS)

Others

- Languages: Tashelhite (*Native language*), Arabic, French, English, Spanish (*Initiation*)
- Statistic software: POLO-PC, MINITAB, SPSS and SAS
- Born in Agadir (Morocco) in June 24, 1973
- Married, 02 Childs
- Interested business news related to agriculture