

CURRICULUM VITAE



AFECHTAL Mohamed, PhD

Researcher
National Institute for Agricultural Research
(INRA-Morocco)

PERSONAL INFORMATION

Surname/First Name AFECHTAL Mohamed
Date and place of birth February 2, 1983, Béni Mellal, Morocco
Address B.P. 257, 14 rue Abou Temmam, 14000 Kénitra
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WORK EXPERIENCE

Dates **03/01/2008 – today**
Name and address of employer National Institute for Agricultural Research (INRA)-Regional Centre of Kénitra
B.P. 257, 14 rue Abou Temmam, 14000 Kénitra, Morocco
Type of business or sector Researcher
Occupation or position held Responsible of the laboratory of Virology at the INRA - Regional Centre of Agricultural Research of Kénitra
Main activities and responsibilities

EDUCATION

Date **05/2013**
Place of Education Catania, Italy
Name and type of organization providing education University of Catania, Faculty of Agriculture, Department of Agri-Food and Environmental Systems Management, Section of Plant Pathology and Applied Entomology Via S. Sofia 100 - 95123 Catania, Italy
Title or qualification awarded Ph.D

Date **10/2007**
Place of Education Rabat, Morocco
Name and type of organization providing education Institute of Agronomy and Veterinary Sciences - Hassan II
B.P. 6202, Rabat-Instituts, Rabat, Morocco
Title or qualification awarded Agronomic Engineer; field: Plant Protection

Date **10/2007**
Place of Education Bari, Italy
Name and type of organization providing education International Centre for Advanced Mediterranean Agronomic Studies - Mediterranean Agronomic Institute of Bari (CIHEAM / IAM-Bari)
Via Ceglie 9, 70010 Valenzano (BA), Italy
Title or qualification awarded Master of Science; field: Integrated Pest Management of

awarded	Mediterranean Fruit Crops; branch: Virology
Date	06/2006
Place of Education	Bari, Italy
Name and type of organization providing education	International Centre for Advanced Mediterranean Agronomic Studies - Mediterranean Agronomic Institute of Bari (CIHEAM / IAM-Bari) Via Ceglie 9, 70010 Valenzano (BA), Italy
Title or qualification awarded	Postgraduate specialization diploma
Date	07/2005
Place of Education	Rabat, Morocco
Name and type of organization providing education	Institute of Agronomy and Veterinary Sciences - Hassan II B.P. 6202, Rabat-Instituts, Rabat, Morocco
Title or qualification awarded	General Agronomy Diploma
Date	06/2001
Place of Education	Ouaouizerth, Maroc
Name and type of organization providing education	Ouaouizerth High School, Azilal, Morocco
Title or qualification awarded	BA in Experimental Sciences

TRAINING

Date	02/2006
Place of training	Bari, Italie
Name and type of organization providing training	Crop Life Africa Middle East, Mediterranean Agronomic Institute of Bari (IAM-Bari), Via Ceglie 9, 70010 Valenzano (BA), Italy
Principal subjects/Occupational skills covered	Training of Trainers
Date	11/2010
Place of training	Tunis, Tunisia
Name and type of organization providing training	CropLife International, International Center for Agricultural Research in the Dry Areas (ICARDA), B.P. 435, El-Menzah 1, 1004 Tunis, Tunisia
Principal subjects/Occupational skills covered	Responsible use of pesticides

LANGUAGES

Language	Arab	French	English	Italian
Speaking	Excellent	Excellent	Excellent	Medium
Writing	Excellent	Excellent	Excellent	Medium
Understanding (listening and reading)	Excellent	Excellent	Excellent	Excelent

PUBLICATIONS

- Mokrini F., Viaene N., Wayenberge L., Afechta M., Essarioui A., Moens M. 2017.** *The importance, biology and management of cereal cyst nematodes (Heterodera spp.) - A review.* Revue Marocaine des Sciences Agronomiques et Vétérinaires. (In press).
- Bibi I., Benchacho M., Afechta M. 2017.** Programme de certification du figuier (*Ficus carica* L.) au Maroc. Revue Marocaine des Sciences Agronomiques et Vétérinaires. (In press).
- Bibi I., Djelouah K., Remah A., Afechta M. 2017.** Pepino Mosaic Virus: a serious threat to tomato plants worldwide. 2017. Revue Marocaine des Sciences Agronomiques et Vétérinaires. (In press).
- Afechta M., Jamai H., Mokrini F., Essarioui A., Faddoul Z., Sbaghi M., Dababat A.A. 2016.** First report of Hop stunt viroid infecting citrus trees in Morocco. *Plant disease* 100(7): 1512
- Essarioui A., Mokrini F., Afechta M. 2016.** Molecular interactions between tomato and its wilt pathogen Fusarium oxysporum f. sp. Lycopersici- a review. *Revue Marocaine des Sciences Agronomiques et Vétérinaires* 4(1): 66-74.
- Afechta M., Djelouah K., Cocuzza G. and D'Onghia A.M. 2015.** Large scale survey of *Citrus Tristeza Virus* and its aphid vectors in Morocco. *Acta Horticulturae (ISHS)*. 1065: 753-757.
- Delić D., Afechta M. and Djelouah K. 2013.** First report of citrus tristeza virus in citrus orchards in Bosnia and Herzegovina. *Plant Disease*. 97(12): 1665.
- Aboussaleh Y., Ahami A. and Afechta M. 2013.** Food diversity and nutritional status in school children in Morocco. In: Behnassi, M., Pollmann, O. and Kissinger, G. (eds). Sustainable food security in the era of local and global environmental change. Springer Netherlands. pp 203-215.
- Afechta M., Djelouah K. and D'Onghia A.M. 2011.** Detection of an outbreak of *Citrus Tristeza Virus* in Morocco. *Integrated Control in Citrus Fruit Crops IOBC/wprs Bulletin* Vol. 62, 2011 p. 12.
- Afechta M., Milano R., Djelouah K and D'Onghia A.M. 2010.** The first survey of pome fruit viruses in Morocco. *Julius-Kühn-Archiv*, 427: 253-256.
- Di Serio F., Afechta M., Attard D., Choueiri E., Gumus M., Kaymak S., Lolić B., Matić S., Navarro B., Yesilcollou S. and Myrta A.** Detection by tissue printing hybridization of pome fruit viroids from the Mediterranean basin. *Julius-Kühn-Archiv*, 427: 357-360.
- Afechta M., El Guill M., Abbad A.F., Djelouah K. and D'Onghia A.M. 2007.** Détection d'un foyer isolé de la tristeza (*Citrus Tristeza Closterovirus*) dans la région de Loukkos. *Alwamia*, p. 260-261.
- Lolic B., Afechta M., Matic S., Myrta A. and Di Serio F. 2007.** Detection by tissue printing hybridization and characterization of *Pear Blister Canker Viroid* in Bosnia and Herzegovina. *Journal of Plant Pathology*, 89 (3): 369-375.
- Attard D., Afechta M., Agius M., Matic S., Gatt M., Myrta A. and Di Serio F. 2007.** First report of *Pear Blister Canker Viroid* in Malta. *Journal of Plant Pathology*, 89(3): S71.
- Afechta M., Lolic B., Matic S., Attard D., Myrta A. and Di Serio F. 2007.** Identification and characterization of *Pear Blister Canker Viroid* in MALTA and in Bosnia and Herzegovina. *Journal of Plant Pathology*, 89(3): S27.
- Afechta M., Choueiri E., El Zammar S., Jreijiri F., Hobeika C., Myrta A. and Di Serio F. 2007.** Identification and Characterization of *Apple Dimple Fruit Viroid* in Lebanon. *Journal of Plant Pathology*, 89(3): S27.

ORAL PRESENTATIONS AND POSTERS

- Afechta M. 2013.** The arrival in Morocco of *Toxoptera citricidus* (Kirkaldy 1907), the main vector of *Citrus tristeza virus*, may seriously affect the citrus industry. In: meeting of the CIHEAM Mediterranean Network on IPM, on: Strengthening the surveillance system of invasive fruit tree pests in the Mediterranean region. *Future IPM in Europe*, 20th March 2013, Riva del Garda, Italy.

- Afechta M., Djelouah K., Cocuzza G. and D'Onghia A.M. 2015.** Large scale survey of *Citrus*

Tristeza Virus and its aphid vectors in Morocco. *XII International Citrus Congress - International Society of Citriculture*, 18-23 November 2012, Valencia, Spain.

Afechtal M., Djelouah K. and D'Onghia A.M. 2011. Detection of an outbreak of *Citrus Tristeza Virus* in Morocco. *Integrated Control in Citrus Fruit Crops IOBC*. 1-03 March 2010, Agadir, Morocco.

Afechtal M., Milano R., Djelouah K and D'Onghia A.M. 2010. The first survey of pome fruit viruses in Morocco. *21st International Conference on Virus and other Graft Transmissible Diseases of Fruit Crops (ICVF)*, 05-10 July 2009, Neustadt, Germany.

Di Serio F., Afechtal M., Attard D., Choueiri E., Gumus M., Kaymak S., Lolić B., Matić S., Navarro B., Yesilcollou S. and Myrta A. 2010. Detection by tissue printing hybridization of pome fruit viroids from the Mediterranean basin: Incidence and Biodiversity. *21st International Conference on Virus and other Graft Transmissible Diseases of Fruit Crops (ICVF)*, 05-10 July 2009, Neustadt, Germany.

Afechtal M., Lolic B., Matic S., Attard D., Myrta A. and Di Serio F. 2007. Identification and characterization of *Pear Blister Canker Viroid* in MALTA and in Bosnia and Herzegovina. *Italian Society of Phytopathology (SIPaV)*, 18-21 September 2007, Perugia, Italy.

Afechtal M. Choueiri E., El Zammar S., Jreijiri F., Hobeika C., Myrta A. and Di Serio F. 2007. Identification and characterization of *Apple Dimple Fruit Viroid* in Lebanon. *Italian Society of Phytopathology (SIPaV)*, 18-21 September 2007, Perugia, Italy.

SKILLS AND EXPERTISE

- Plant pathology, virology, bacteriology, epidemiology,
- DNA/RNA extraction for viruses, bacteria, viroids and other virus-like agents.
- Biological and serological detection and characterization of viruses, bacteria, viroids and other virus-like agents (citrus, olive, grapevine, fig, fruit trees, vegetable crops, ...).
- Molecular identification, detection and characterization of viruses, bacteria, viroids and other virus-like agents (citrus, olive, grapevine, fig, fruit trees, vegetable crops, ...).
- Microbiology (bacterial isolation, LOPAT tests, identification techniques)
- Molecular tools (PCR, molecular hybridization, genome sequencing, real time PCR, cloning, AFLP, RFLP).
- Sequence and genome analysis (BLAST, BioEdit, MEGA6, CLC Genomics, primer design).
- Databases: NCBI, Genbank database.
- Pathogenicity, population genetic structure and dynamic, phylogeny
- Interactions virus-vectors.
- Field and greenhouse experiments (plant inoculation, disease survey, transmission trials)
- Data analysis, statistics (ANOVA, generalized linear model, regressions...)

OTHERS

- Member of the Mediterranean Network of the International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM) on IPM.
- Participation in several meetings at the headquarters of the National Office for Health Security of Food Products (ONSSA) on the development of a national strategy for the control and prevention of the citrus tristeza disease in Morocco.