

## Walid Hamada (Ph.D)



### Professor in Molecular Plant Microbe Interactions

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### Educational qualifications:

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| 1996 | Ph.D. In Molecular Plant Pathology<br>Institut National Agronomique de Paris-Grignon, France      |
| 1992 | Master of Science in Crop Protection<br>Institut National Agronomique de Paris-Grignon, France    |
| 1991 | Bachelor Degree in Agronomy (Plant Sciences)<br>Institut National Agronomique de Tunisie, Tunisia |

### Teaching duties:

- Genetic Resistance to Plant Disease
- Genetic engineering and plant protection
- Bioinformatics applied to plants
- Plant Biotechnology

### Research interest:

- Molecular characterization of plant fungal pathogens
- Mechanisms of Induced defense response of the plant to fungal pathogens
- Identification of beneficial microorganisms (fungi and bacteria) antagonists to the fungi
- Characterization of natural products (plant and algae extracts) inducing plant defense response

### Selected papers

1. Kalthoum Harbaoui, **Walid Hamada**, Vivianne G.A.A. Vleeshouwers, Nouri khammassy, Moncef Harrabi, Theo van der Lee. (2012). Characterisation of *Phytophthora infestans* isolates collected from potato and tomato crops in Tunisia during 2006-2008. Potato Research. V 56 (1).
2. Kalthoum Harbaoui, **Walid Hamada**, Ying Li, Vivianne G.A.A. Vleeshouwers, Theo van der Lee. (2013) Genetic Diversity of *Phytophthora infestans* Population Collected from Potato and Tomato Crop Regions during 2006-2008 in Tunisia . Plant disease Vol. 98 No. 7 898-908.
3. Somai L. and **Hamada W** (2014) Fungicide sensitivity of *Mycosphaerella graminicola* Tunisian isolates:the importance of drug transporter genes in the process of fungicide tolerance. Phytopathologia Mediteranea. 53, 1, 83–93
4. Ben Hassine A. and **Hamada W**. (2014) First isolation of the *Mycosphaerella graminicola* teleomorph stage causing Septoria leaf blotch on wheat in Tunisia. New Disease Rep 29, 18.
5. Maissa Ben-Jabeur and **Walid Hamada** (2014). Antifungal activity of chemically different essential oils from wild Tunisian *Thymus spp*. Natural Product Research, 1-5.

6. Maissa Ben-Jabeur, Emna Ghabri, Machraoui Myriam, **Walid Hamada** (2015). Thyme essential oil as a defense inducer of tomato against gray mold and Fusarium wilt. *Plant Physiology and Biochemistry* 94 (2015) 35-40
7. Warda Jendoubi, Kalthoum Harbaoui & **Walid Hamada** (2015). Salicylic acid-induced resistance against *Fusarium oxysporum* f. s. *pradicis lycopersici* in hydroponic grown tomato plants. *Journal of New Science*. Volume 21(5) 985-995.
8. Rabeb El Khaldi, Majda Daami-Remadi, **Walid Hamada**, Lamia Somai & Mohamed Cherif (2015). The potential of *Serratia marcescens* : An indigenous strain isolated from date palm compost as biocontrol agent of *Rhizoctonia solani* on potato. *Journal of Plant Pathology and Microbiology*. S3 36. 1-5.
9. Lamia Somai-Jemmali, Béatrice Randoux, Ali Siah, Maryline Magnin-Robert, Patrice Halama, Philippe Reignault & **Walid Hamada** (2016) Similar infection process and induced defense patterns during compatible interactions between *Zymoseptoria tritici* and both bread and durum wheat species. *European Journal of Plant Pathology*, in press.

### ***Selected communications***

1. Warda Jendoubi, Ricardo Rodriguez, **Walid Hamada**. (2013) The potential of biofungicides in controlling soil born pathogen on tomato by inducing defense response . Poster présenté au XII<sup>ème</sup> European Fusarium Seminar, Bordeaux (France). May 2013.
2. L. Somai-Jemmali, B. Randoux, A. Siah, M. Ors, P. Halama, P. Reignault & **W. Hamada**. (2014) Efficacy and modes of action of resistance inducers on two wheat species against *Mycosphaerella graminicola*. Communication presented in 66th International Symposium on Crop Protection, Gand (Belgium). May 2014.
3. Lamia Somai-Jemmali, Ali Siah, Beatrice Randoux, Philippe Reignault, Patrice Halama R. Rodriguez & **Walid Hamada** (2015). Plant oligosaccharids enhancer of wheat defense response against Septoria leaf blotch. Oral presentation in the 67th International Symposium on Crop Protection, Gand (Belgium). May 2015.
4. Zayneb Kthiri & **Walid Hamada** (2015). Coating wheat seeds with beneficial microorganisms enhance defence response of the plant to fungal infection. Poster présenté lors du 67th International Symposium on Crop Protection, Gand (Belgium). May 2015.
5. Somai-Jemmali L., Magnin-Robert M., Randoux B., Siah A., Tisserant B., Halama P., Reignault P. & **Hamada W.** (2015). Biological control mechanisms of ascorbic acid against *Mycosphaerella graminicola* in wheat. Oral presentation in the 67<sup>th</sup> International Symposium on Crop Protection Ghent, Belgium. May 2015.