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Date of birth: April 07, 1960

Nationality: Tunisia

EDUCATIONAL AND PROFESSIONAL QUALIFICATIONS

Degree: PhD

Post-degree studies: Plant pathology and plant breeding

Professional qualifications: Allagui's researches have dealt with host/pathogen interactions mainly *Phytophthora* species on Solanaceous crops; *Phytophthora* on pepper (*Capsicum* spp) and late blight on potato (*Solanum* spp), as well as rust species on cereals and legumes especially *Puccinia coronata* on oat (*Avena* spp) and *Uromyces* on faba bean (*Vicia faba* L.). He characterized for the first time a severe *Phytophthora* disease on pepper in Tunisia and identified with a reliable screening method a source of resistance to control the disease. In addition, he showed that a woody forest plant (*Rhamnus lycioides*) in Tunisia is a new aerial host of oat crown rust. This finding gives explanation of the high genetic variability of the crown rust virulence in the region. Such researches on oat crown rust have been led to reveal new local sources of resistance and to recommend for growers new resistant varieties with high productivity. Similar results on faba bean rust and potato late blight were obtained conducting to solve particular agricultural difficulties. Although focused on local phytopathological problems, these results have been cited by many others studies. Allagui's researches are funded by the National Institute of Agricultural Research of Tunisia and by different other international sponsors.

Areas of Specialization: Agronomic research in plant protection and plant breeding

Specific Experience related to: plant genetic resources for food and agriculture, climate change, agrobiodiversity, food security, local communities or project management Plant genetic resources for food and agriculture and agrobiodiversity : a lot of publications in these topics were published in different scientific journals as seen below:

1. Franck Panabières, Gul Shad Ali, Mohamed Bechir Allagui, Ronaldo J. D. Dalio, Neil C. Gudmestad, Marie-Line Kuhn, Sanjoy Guha Roy, Leonardo Schena and Antonios Zampounis, 2016. Phytophthora *nicotianae* diseases worldwide: new knowledge of a long-recognised pathogen. *Phytopathologia Mediterranea* 55(1) : 20–40
2. Mahfoudhi N., Selmi I., Lehad A., Elair M., Ben Hamda H., Allagui M.B., 2015. Molecular variability of *Prunus* necrotic ringspot virus isolates in different *Prunus* hosts in Tunisia. *Journal of Plant Pathology* 97(1): 129-133
3. Ben Fekih I., Boukhris-Bouhachem S., Allagui M. B., Bruun Jensen A., Eilenberg J., 2015. First survey on ecological host range of aphid pathogenic fungi (Phylum Entomophthoromycota) in Tunisia. *Annales de la Société entomologique de France* (N.S.), 51(2) : 140-144
4. Sanchez-Martin J, Rubiales D, Flores F, Emeran AA, Shtaya MJY, Sillero JC, Allagui MB, Prats E, 2014. Adaptation of oat (*Avena sativa*) cultivars to autumn sowing in Mediterranean environments. *Fields Crop research*, 156: 111-122 .
5. Saadoun M and Allagui MB, 2013. Management of chili pepper root rot and wilt (caused by *Phytophthora nicotianae*) by grafting onto resistant rootstock . *Phytopathologia Mediterranea*, 52 (1):141-147.
6. Allagui, M.B., Saadoun, M., and Jlassi, Y. 2013. Investigation of the genetic association between stem trichomes and resistance to the pathogen *Phytophthora nicotianae* in *Capsicum annuum* CM334 pepper cultivar. *Tunisian Journal of Plant Protection* 8: 65- 73.
7. Ben Fekih I, Boukhris-Bouhachem S, Eilenberg J, Allagui MB, Jensen AB, 2013. The occurrence of two species of Entomophthorales (entomophthoromycota), pathogens of *Sitobion avenae* and *Myzus persicae* (Hemiptera: aphididae), in Tunisia. *BioMed Research International*, Article ID 838145, 7 pages <http://dx.doi.org/10.1155/2013/838145>.
8. Kharrat M, Halila MH, Ben Salah H, Sifi B, Sayar R, Ben Ayed FS, Amri M, Benyoussf NO, Bouhadida M, Abbes Z, Tarres DS, Boukhris-Bouhachem S, Allagui MB, Ben Abderabah N, Ben Salem H, 2013. Grain legume research progress in Tunisia : Histoty and perspectives. *Phytopathologia Mediterranea*, 52 (1): 236-237.
9. Fernandez-Aparici M, Shtaya M, Emeran AA, Allagui MB, Kharrat M, Rubiales D, 2011. Effects of crop mixtures on chocolate spot development on faba bean grown in mediterrean climates. *Crop Protection* 30: 1015-1023

10. Bnejdi F, Hammami I, Allagui MB, Saadoun M, El Gazzah M. 2010. Epistasis and maternal effect in resistance to *Puccinia coronata* Cda. f. sp. *avenae* Eriks in oats (*Avena* sp.). Agricultural Sciences in China 9(10):1462-1466
11. Hammami I, Allagui MB, Chakroun M and El Guzzah M, 2010. Natural population of oat crown in Tunisia. Phtopathol. Mediterr. 49, 35-41
12. Bnejdi F, Saadoun M, Allagui MB, Hanbury C and El Gazzah M, 2010. Relationship between epistasis and aggressiveness in resistance of pepper (*Capsicum annuum* L.) to *Phytophthora* *nicotianae*. Genetics and Molecular Biology, 33 (2): 279-284
13. B. Touati, I.E.Hassen, M.B. Allagui, L. Toumi, N. Ben Brahim 2009. Etude du polymorphisme génétique des populations de *Lavandula stoechas* L., analyse chimique et activités antifongiques de ses huiles essentielles — Communication par affiche, Third International Symposium on Medicinal and Aromatic Plants – SIPAM2009, Djerba – Tunisia, March 26-28, 2009
14. Obtention variétale Ghzala. JORT N° 92 du 17 novembre 2009 page 3565. Arrêté du ministre de l'agriculture et des ressources hydrauliques du 11 novembre 2009, fixant la liste des variétés végétales inscrites au Catalogue officiel des variétés végétales pour l'année 2009.
15. Allagui MB, 2009. Effectiveness of oat resistance to powdery mildew and crown rust in Tunisia's conditions. Page 129. In: 12th International Cereal Rusts and Powdery mildews conference .October 13-16, Antalya (Turkey)
http://www.icrpmc2009.org/ICRPMC_kitap-2.pdf
16. Allagui MB, El-Bennani Mabrouka, 2009. Stability of rust resistance components in different *Vicia faba* accessions over cold/warm growing periods and plant growth stage. Tunisian Journal of Crop Protection, 4(2) :121-134
17. Bnejdi F, Saadoun M, Allagui MB and El Gazzah M, 2009. Epistasis and heritability of resistance to *Phytophthora* *nicotianae* in pepper (*Capsicum annuum* L.). Euphytica, 167: 39-44
18. Ferjaoui S, Romdhani ME, Khamassy N et Allagui MB, 2008. Assessment of some potato varieties to natural infection of late blight caused by *Phytophthora infestans* in Tunisia. Ann. de l'INRAT, 81 : 7-23
19. Chakroun M, Allagui MB, Ben Youssef S, Hammami I, , Soltani H, and Haffani S, 2008. Improving productivity of oats as priority forage species in Tunisia. Proceedings of the 8th International Oat Conference (Minneapolis, Minnesota, USA).

20. Hammami I, Allagui MB, Chakroun M and El Guzzah M, 2008. Agronomic characterization of Tunisian spontaneous oat accessions resistant to oat crown rust and potential in plant breeding. Tunisian Journal of Plant Protection, 3(1):1-10
21. Saadoun M and Allagui MB, 2008. Pathogenic variability of *Phytophthora nicotianae* on pepper in Tunisia. Journal of Plant Pathology, 90(2):349-353.
22. Amri M, Allagui MB, Fernandez-Aparicio M, Kharrat M, Sifi B and Rubiales D, 2007. Effect of cultivar, nitrogen application and cropping system on *Orobanche foetida* infection on faba bean. Page 94. In: Integrating legume biology for sustainable agriculture, 6th European Conference on grain legumes 12-16 November, Lisbon Congress Center (Portugal).
23. Allagui MB, Amri M, Fernandez-Aparicio M, Kharrat M and Rubiales D, 2007. Vegetative behaviour of lentil intercropped with cereals in Tunisia. Page 95. In: Integrating legume biology for sustainable agriculture, 6th European Conference on grain legumes 12-16 November, Lisbon Congress Center (Portugal).
24. Trabelsi D, Allagui MB, Rouaissi M, Boudabbous A, 2007. Pathogenicity and RAPD analysis of *Phytophthora nicotianae* pathogenic to pepper in Tunisia. Physiological and Molecular Plant Pathology, 70: 142-148
25. Hammami I, Allagui MB, Chakroun M and El Gazzah M, 2007. Evaluating landrace oats (*Avena sp.*) collected in Tunisia for crown rust resistance under natural infection. Euphytica 157(1-2): 27-34
26. Kharrat M, Allagui MB, Sillero JC, Rubiales D, 2007. Faba bean accessions resistant to rust in Tunisia. Page 137. In: Acta of Model Legumes Congress (MLC 2007), 24-28 March (Tunis).
27. Allagui MB, Hammami C et Kharrat M, 2006. Evaluation et sélection de lignées de *Vicia faba* pour la tolérance à *Uromyces viciae-fabae*. Annales de l'INRAT , 79 : 137151
28. Hammami I, Allagui MB, Chakroun M and El Gazzah M, 2006. *Rhamnus lycioides* in Tunisia is a new aerial host of oat crown rust. European Journal of Plant Pathology, 115 : 357-361
29. Chakroun M, Soltani H, Ben Youssef S, Allagui MB, 2004. Agronomical characterization of selected oat genotypes. Page 160. Proceedings of the 7th International Oat Conference (Helsinki-Finland). Agrifood Research Reports 51. Pirjo Peltonen-sainio & Mari Topi-Hulmi (eds.) 239 pp.

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31. Al Faiez C, Chakroun M, Allagui MB and Sbeita A, 2004. Fodder oats in the Maghreb. Pages 53-69. In: FODDER OATS: a world overview. Eds Suttie JM & Reynolds SG, FAO (Rome) Plant Production and Protection Series No. 33. 266 pp.
32. Allagui MB, 2003. *Phytophthora nicotianae* - Tunisie. Page 117. Dans Phytopathologie, bases moléculaires et biologiques des pathosystèmes et fondements des stratégies de lutte. Editions De Boeck Université, Bruxelles (Belgique)
33. Allagui MB, Ahmed AS et Chakroun M, 2002. La rouille couronnée de l'avoine en Tunisie : effet de la date de semis et efficacité des gènes *Pc* de résistance. Annale de l'INRAT, 75 : 205-221.
34. Meskine M, Bouznad Z, Allagui MB et Aziri H, 2002. La rouille des fèves dans le Maghreb : incidence de la maladie et sources de résistance. Page 82. Dans Proceedings du 2ème Séminaire du Réseau REMAFEVE/REMALA, 'Le devenir des Légumineuses alimentaires dans le Maghreb', (éd.GTZ) Hammamet (Tunisie) 30 janvier-2 février.
35. Allagui MB, Duabèze AM et Palloix A, 2001. Looking for common genetic factors conferring resistance to *Phytophthora nicotianae* and *P. capsici* in the pepper line CM 334. Pages 275-278 in: Proc. of the XIth Eucarpia Meeting on Genetics and Breeding of Capsicum & Eggplant, April 9-13. Antalya, Turquie.
36. Allagui MB, Lepoivre P, 2000. Molecular and pathogenicity characteristics of *Phytophthora nicotianae* responsible for root necrosis and wilting of pepper (*Capsicum annuum* L.) in Tunisia. European Journal of Plant Pathology 106: 887-894
37. Allagui MB, Chakroun M, 1999. Prospection de la rouille couronnée et résultats de l'inoculation de lignées d'avoine. Pages 41-49. Dans Procceeding du 2ème symposium régional sur les maladies des céréales et légumineuses alimentaires (Projet PNUD/RAB/91/007). 10 - 12 novembre, Nabeul (Tunisie), 561 p.
38. Tarchoun N, Allagui MB, 1996. Premiers résultats de l'effet de la densité de plantation des bulbes de l'oignon rouge sur la production de semences. Revue de l'INAT 11(2), 127-135
39. Allagui MB, Lepoivre P, 1996. Comparaison de différentes techniques d'inoculation du piment par *Phytophthora nicotianae* var. *parasitica*. Agronomie 16, 333-340

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41. Allagui MB, Marquina JT, Mlaiki A, 1995. Phytophthora *nicotianae* var. *parasitica* pathogène du piment en Tunisie. Agronomie 15, 171-179
42. Allagui MB, Palloix A, Hamza N, 1995. Résistance du piment (*Capsicum* sp) à *Leveillula taurica*: évolution de l'épidémie avec la croissance des plantes. Phytopath. medit. 34, 143-148
43. Allagui MB, 1994. Pepper growing in Tunisia: Present and future. *Capsicum and Eggplant Newsletter* 13, 27-30.
44. Allagui MB, 1994. Phytophthora *nicotianae* var. *parasitica* resistance ability of some pepper varieties. *Capsicum and Eggplant Newsletter* 13, 93-96.
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