

CURRICULUM VITAE



Moez Amri, PhD

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Moez Amri, Ph.D, in biological sciences and plant breeding. Assistant professor of genetics and plant breeding at the University of Mohamed VI polytechnics (UM6P). Has more than 15 years of experience in agricultural research for development (R4D) in the dry areas. Skilled in plant breeding with proven record in genetic enhancement of cereal and food legume crops and development of innovative climate change resilient varieties for the most climate change vulnerable regions in the world; CWANA, Middle East (ME), Nile Valley (NV) and Sub-Saharan Africa (SSA). Former research scientist/plant breeder at the International Center for Agricultural Research in the Dry Areas (ICARDA). Former national coordinator of food legume breeding program at the National Institute of Agricultural Research of Tunisia (INRAT) and Regional Field Crop Research Center of Beja – Tunisia (CRRGC). He has a good awareness of the importance of R4D and agricultural science and innovation to improve smallholder's productivity and production and enhance mitigate and prevent food and nutritional insecurity under climate change scenarios. Good experience on plant nutrition, crop management, agriculture production, diversification and intensification and associated policies, advisory and support service dimensions directly relevant to climate change through specific focus on integrating food legumes into the cropping systems due to their environmental and socio-economic benefits and delivering multiple services in line with sustainability principles and climate change resilience. Good experience in coordinating research and R4D activities and projects involving many well-established researchers from different national and international institutions.

Research competencies: Plant breeding, Food legumes Breeding, cereal and food legume majors biotic and abiotic stresses, climate change resilience, cropping/farming systems, Pathogen/host interaction, Plant/Parasitic plant interaction, Crop production management, Integrated pest Management (IPM), Plant physiology

Areas of technical expertise in agriculture development - Over 17 years of operational experience as an agriculture production and research-oriented agronomist exposed actively from childhood to farming at a multi-generation small family farm in Northern Tunisia. My areas of expertise cover:

- Enhancing crop diversification and sustainability through better integration of food legumes into the cereal-legume cropping system to increase soil fertility and improve poor people's food and nutrition security,
- Good experience in alternative ecological and integrated control strategies and approaches for managing pests through better understanding the crop ecosystem as a basis for good crop management decisions and participatory action and interaction with farmers through Farmer Field School (FFS), field days and trainings.
- Development of new agricultural technologies, practices and policy options for sustainable and climate-smart farming and production systems in the drylands for better nutrition and income benefits to smallholders and poor rural populations,
- New technologies transfer, promotion, scaling-up and support to the NARS partners and national action plans to build robust, climate-smart food production systems and mitigate/adapt to climate change.
- Development and management of improved integrated crop production systems in dry areas under climate change scenarios
- Agriculture research for development in tropical and dry areas with emphasis on rainfed and irrigated cereals and food legumes breeding programs to develop innovative heat, drought, diseases and pest resistant varieties

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- Agriculture production, diversification and intensification projects and associated policies, advisory and support service dimensions.
- Formulation, supervision and quality review of agriculture development national, regional and international projects
- Agriculture knowledge management and capacity building

Evidence of leadership, program coordination, teamwork, delivery and knowledge sharing:

- Good experience in building climate resilience on dry and marginal lands in the CWANA, Middle-East and Nile-Valley and SSA through the development of new climate-resilient food legume improved varieties adapted to harsh dryland environments and related diseases and pest's resistance and heat and drought tolerance,
- Critically contributed to the development and commercial release and transfer to farmers of several new chickpea, faba bean and lentil varieties in Tunisia and many countries in the MENA region.
- Long experience in coordinating multidisciplinary and multi-institutional research teams in charge of R4D activities and projects involving many well-established researchers from different national and international institutions.
- Good experience on knowledge-based technology transfer and interventions for better livelihoods of smallholder farmers and rural poor people in the CWANA, Nile-Valley and Sub-Saharan Africa regions.
- Member of the steering committee and food legume working group of the MCGP project "Unlocking the yield GAP of wheat-based cropping systems in different rainfed agro-ecological zones of Morocco: A transformational impact for sustainable intensification. Morocco-CGIAR Grant Program IV. 2018-2019
- Member of the committee of ICARDA legume research team under the project "Enhancement of food security in the Arab region"; a large-scale regional project helping to boost food security in wheat-based cropping systems in some Arab countries – Algeria, Egypt, Jordan, Morocco, Sudan, Syria, Tunisia and Yemen. Three phases project 2011-2021, funded by AFESD, KFAED and OPEC.
- National coordinator of the ICARDA/CRRGC research project "Pre-emptive chickpea pre-breeding for biotic stresses and germplasm enhancement for abiotic stresses". 2015-2018.
- Member of the steering committee of the EU-IFAD research/development project: "Enhanced small-holder wheat-legume cropping systems to improve food security under changing climate in the drylands of West Asia and North Africa". 2012-2015.
- National coordinator of the multinational research project ARIMnet-MEDILEG "Breeding, revalorization of legumes in Mediterranean agriculture". 2012-2015 (I.D" 396).
- Coordinator of the project GCP/IBP "Efficiency of classical and molecular breeding for both resistance to Ascochyta blight and fusarium in chickpea (*Cicer arietinum* L)". 2012-2015. (G9M-1527-CA-KB-AM)
- Member of the steering committee of the Tunisia-Spain bilateral collaboration project AECID "stirting an inter-institutional cooperation action UCO / INRAT for strengthening legumes breeding programs for sustainable agriculture". 2011-2013 (AP/042110/11).
- Member of the steering committee of the European GLIP-TTC project on grain legumes. 2004-2008 (contrat: FOOD-CT-2004-506223).

Publications

1. Soltani A., Zouali Y., Haoual-Hamdi S., Saadouni D., **Amri M.**, Carapelli A. and Mediouni Ben Jemâa J. **2020**. Relationship between secondary metabolites and infestations caused by chickpea leafminer *Liriomyza cicerina* (Diptera: Agromyzidae).
2. Soltani A., Ben Abda M., **Amri M.**, Carapelli A. and Mediouni Ben Jemâa J. **2020**. Seasonal incidence of the leaf miner *Liriomyza cicerina* Rond (Diptera: Agromyzidae) in chickpea fields and effects of climatic parameters, chickpea variety, and planting date on the leaf miner infestation rate. Euro-Mediterranean Journal for Environmental Integration 5(58);
3. Briache F.Z., Ennami M., Mbasani-Mansi J., Lozzi A., Abousalim A., El Rodeny W., **Amri M.**, Triqui Z.E.A. and Mentag R. **2020**. Effects of Salicylic Acid and Indole Acetic Acid Exogenous Applications on

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- Induction of Faba Bean Resistance against *Orobanche crenata*. *Plant Pathol. J.* 36: 476-490
<https://doi.org/10.5423/PPJ.OA.03.2020.0056>
4. Abbes Z., Bouallegue A., Trabelsi I., Trabelsi N., Taamalli A., **Amri M.**, Mhadhbi H., and Kharrat K. **2020**. Investigation of some biochemical mechanisms involved in the resistance of faba bean (*Vicia faba* L.) varieties to *Orobanche* spp. *Plant Protection Science*, 56, 2020 (4): 1–12.
 5. Rajhi I., I. Neji, M. Ben Chikha, B. Baccouri, **M. Amri** and H. Mhadhbi. **2020**. Photosynthetic and physiological responses of faba bean genotypes to salinity stress: identification of a contrasting pair towards salinity. *Photosynthetica*. 58 (1): 174-185,
 6. Abbes Z., Trabelsi I., Sellami F., Mkadmi M., Kharrat M. and **Amri M.** **2019**. Intercropping with fenugreek (*Trigonella foenum-graecum*) enhances seed yield and reduces *Orobanche foetida* infestation in faba bean (*Vicia faba* L.). *Biological Agriculture & Horticulture*. 35(4), 1-10.
 7. **Amri M.**, Niane A.A., Agrawal S.K., Ahmed K.S., Hamwieh A. and Amri A. **2019**. Principales activités des programmes d'amélioration génétique de la lentille et du pois chiche Kabuli à ICARDA. *Innovations Agronomiques, INRA-France*, 74, 15-24
 8. Briache F.Z., M. Ennami, J.M. Mansi, F. Gaboun, R. AbdelWahd, Z.A. Fatimi, W. El-Rodeny, **M. Amri**, Z.A. Triqui and R. Mentag. **2019**. Field and controlled conditions screenings of faba bean genotypes for resistance to *Orobanche crenata* Forsk. and investigation of resistance mechanisms. *J. Plant Dis. Prot.*, 126(3), 211–224.
 9. **Amri, M.**, I. Trabelsi, Z. Abbes and M. Kharrat. **2019**. Release of a new faba bean variety "Chourouk" resistant to the parasitic plants *Orobanche foetida* and *O. crenata* in Tunisia. *Intl. J. Agric. Biol.*,21(3): 499–505
 10. Haouel Hamdi S., Labidi M., Hedjal-Chebheb M., **Amri M.**, Ouji A., Boushieh E., Mediouni Ben Jemâa J. **2018**. Could host adaptation and host alternation be suitable alternatives for safer control of the cowpea beetle *Callosobruchus maculatus* during storage? *Integrated Protection of Stored Products, IOBC-WPRS Bulletin, Vol. 130: 395-400.*
 11. Carapelli A., Soltani A., Leo C., Vitale M., **Amri M.** and J. Mediouni-Ben Jemâa. **2018**. Cryptic Diversity Hidden within the Leafminer Genus *Liriomyza* (Diptera: Agromyzidae). *Genes*,9, 554.
 12. Triki, E., Trabelsi, I., **Amri, M.**, Nefzi, F., Kharrat, M., and Abbes, Z. **2018**. Effect of some resistance inducers Benzothiadiazole BTH and Salicylic Acid SA on *Orobanche foetida* infestation in a faba bean small seeded variety. *Tunisian Journal of plant protection*, 13 (1): 113-125
 13. Iglesias-Garcia R., Prats E., Flores F., **Amri M.**, Mikic A., Rubiales D. **2017**. Assessment of field pea (*Pisum sativum* L.) grain yield, aerial biomass and flowering date stability in Mediterranean environments. *Crop & Pasture Science*.
 14. Trabelsi I., Yoneyama K., Abbes Z., **Amri M.**, Xionan Xie, Takaya Kisugui, Hun Il Kim, Kharrat M. and Yoneyama K. **2017**. Characterization of strigolactones produced by *Orobanche foetida* and *Orobanche crenata* resistant faba bean genotypes and effect of phosphorous, nitrogen, and potassium deficiencies on strigolactone production. *South African Journal of Botany*. 108, 15–22.
 15. Trabelsi I., Z. Abbes, **M. Amri**, M. Kharrat. **2016**. Study of some resistance mechanisms to *Orobanche* spp. infestation in faba bean (*Vicia faba* L.) breeding lines in Tunisia. *Plant Production Sciences*. Vol. 19(4): 562 – 573.
 16. Nefzi F., Trabelsi I., **Amri M.**, Triki E., Kharrat M. and Abbes Z. **2016**. Response of some chickpea (*Cicer arietinum* L.) genotypes to *Orobanche foetida* Poir. Parasitism. *Chilean Journal of Agricultural Research*. 76(2), 270-278.
 17. Trabelsi I., Abbes Z., **Amri M.** and Kharrat M. **2015**. Performance of faba bean genotypes with *Orobanche foetida* Poir. and *Orobanche crenata* Forsk. infestation in Tunisia. *Chilean Journal of Agricultural Research*. 75(1), 27-34.
 18. Bouhadida M., R. Ben Jannet, Z. Abbes, **M. Amri** and M. Kharrat. **2015**. Analysis of Genetic Diversity of *Orobanche foetida* populations parasitizing Crops legume. *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)*, Vol 8(3), PP 37-40.
 19. Millan T., E. Madrid, Jose I. Cubero, **M. Amri**, P. Castro and J. Robio. **2015**. **Chickpea** in: Antonio M. De Ron (ed.) *Grain Legumes, Series Handbook of Plant Breeding*. Springer Science+Business Media, New York. Vol. 10, Pp 499.
 20. Rubiales D., Flores F., Emeran A.A., Kharrat M., **Amri M.**, Rojas-Molina M.M., Sillero J.C. **2014**. Identification and multi-environment validation of resistance against broomrapes (*Orobanche crenata* and *O. foetida*) in faba bean (*Vicia faba*). *Field Crops Res.*
 21. Zouhaier Abbes, El Abed N., **Amri M.**, M. Kharrat and Ben Hadj Ahmed S. **2014**. Antioxidant and Antibacterial Activities of the Parasitic Plants *Orobanche foetida* and *Orobanche crenata* Collected on Faba Bean in Tunisia. *The Journal of Animal and Plant Sciences*. 24(1), 310-314.