

Curriculum Vitae

Family Name	: KHARRAT	
First Name	: MOHAMED	
Date of birth	: October 1 st , 1960	
City and Country	: Sfax, Tunisia	
Nationality	: Tunisian	
Date of first recruitment:	November 1 st , 1988 at INRAT (National Agricultural Research Institute of Tunisia, till October 2012)	
Personal situation	: Married - 2 Childs (Hajer : born in 1995 and Mourad : born in 1996)	
Employer	: INRAT (Nov. 1988 - Nov. 2012) ICARDA (Nov. 2012- Nov. 2014) INRAT (Nov. 2014 - ...)	
Academic title	: Director of research / Professor at University of Carthage (Tunis, Tunisia)	
Actual Position	: Head of Field Crop Laboratory at INRAT since October 2015	
Professional Address	: INRAT Hedi Karray Street, 2049 Tunis, Tunisia	
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Languages:

Languages	Writing	Speaking	Comprehension	Reading
French	Excellent	Very Well	Excellent	Excellent
English	Well	Well	Well	Well
Spanish	Well	Well	Well	Well
Arabic (mother tongue)	Excellent	Excellent	Excellent	Excellent

Academic Background

- **2005:** Habilitation degree for research in 2005
- **1999:** Ph.D. in biology and agronomy from the University of Rennes I : National School of Higher Education in Agronomy (ENSAR), Rennes, France) in "Genetic of resistance to different pathotypes of *Ascochyta fabae* on faba bean and strategy of selection of resistant cultivars" (maximum qualification).

- **1988:** Master's degree in plant breeding and seed production of the Mediterranean Agronomic Institute of Zaragoza (CIHEAM) in 1988.
- **1986:** Post-graduate certificate of specialization in plant breeding and seed production of the Mediterranean Agronomic Institute of Zaragoza (CIHEAM) in 1986
- **1985:** Engineer in agronomy (crop science) of the National Agronomic Institute of Tunisia (INAT) in 1985
- **1981:** High School Diploma (Bacalaureate) in Mathematics and Sciences (June 1981)

Short Term Training

- Participation in international course on food legume breeding at IAM de Zaragoza (Spain), from 1 - 26 Feb. 1988
- Training at ICARDA (Aleppo) on trial management from 2 to 30 April 1989
- Participation in a course on the control of insect on food legume and cereal Aleppo from 16 to 29 April 1989
- Participation in a course organised by ICARDA at Morocco on faba bean breeding from 9 to 20 April 1990
- Participation in a course organised by ICARDA at Aleppo, on the utilisation of biotechnology in food legume breeding from 22 July to 2 August 1990
- Participation in a course at ITCF (Boigneville, France) on STAT-ITCF and experimentation from 16 to 19 Oct. 1990
- Participation in a course organised by ICARDA, CIMMYT, and CIHEAM at Zaragoza (Spain) on the new methods of biometry for the evaluation of varieties from 16 to 27 Sept. 1991
- Participation in a course organised by ARC (Egypte), UNDP & ICARDA on the RFLP and PCR techniques from 17 to 28 nov. 1991 at Cairo (Egypt)
- Participation in a course organised by ICARDA & IRESA at Tunis on the models and analysis of trials for variety evaluation from 6 to 11 july 1992
- Participation in a course organised by ICARDA (Aleppo) on the control of diseases and parasites of grain legumes from 4 to 15 april 1993
- Participation in a course organised by the University of Hohenheim and the Tropical Agriculture Centre (Germany) on the biology and control of parasitic plants (Orobanche and Striga) from 27 june to 8 July 1994
- Scientific visits for several weeks at INRA Rennes "Phytopatology station and Plant Breeding station in 1995, 1996, 1997 et 1999.
- Participation in the 2nd and 3rd International Conferences of cool season food legumes at Cairo (Egypt) in 1992 and at Adelaïde (Australia) in 1997.
- Participation in 2nd, 3rd and 4th European Conference on Grain Legumes at Copenhaguen (Denmark) in 1995, at Valladolid (Spain) in 1998, and Krakow (Poland) in 2001.
- Participation in the International congress of parasitic plants at Amsterdam (Netherland) in 1993 and at Cordoba (Spain) in 1996.
- Participation at Morocco in the Mediterranean Seminar on food legumes -25-27 October 2001.
- Participation at Tunis in the regional course on Methods and techniques of development project management, organized by GTZ GmbH/COMIT, from 16 july to 3 august 2001.
- Participation at Morocco in the FAO/ICARDA meeting for rehabilitation of food legume in North Africa. 25-27 Dec. 2002.
- Participation at Morocco in the FAO/ICARDA workshop for Sustainable integrated Orobanche management in the Near East and North Africa, 7 - 9 April 2003.
- Participation in the 1st International Ascochyta workshop on grain legumes. 2-6 July 2006, Le Tronchet, France.
- Participation in the Model Legumes Congress, Tunis, 24-28 March 2007.
- Participation in the 6th European Conference on grain legumes, Lisbon, Portugal, 12-16 November 2007.
- Participation to coordination meeting ICARDA/Tunisia since 1989.

Award

Merit National Order (chevalier) for Education and Science in 2002.

Areas of Interventions as a production agronomist - international consultant

With over 27 years of operational experience as a **farming system specialist** in research, agricultural development and management of multidisciplinary and multi-institutional teams. My interventions strengths cover the following areas:

- Design and implementation of regional and country agricultural research strategies, capacity building and managing multidisciplinary teams in national and international settings
- Design, supervision and implementation of agriculture investment projects including technology transfer, crop models, yields projection and farm budgets
- Design, supervision and review of agri-business investment projects and associated value chain analysis and development with emphasis on cereals, forage and food legumes
- Review of quality enhancement and quality assurance of agriculture investment projects
- Governance of agricultural research institutions
- Building public/private partnerships for the design and implementation of agricultural development and research programs

Professional career: national and international

- Principal Engineer in the food legume laboratory at the National Institute for Agricultural Research of Tunisia (INRAT) from Nov. 1, 1988 to Oct. 18, 1989
- Associate Researcher in the food legume laboratory at the National Institute for Agricultural Research of Tunisia (INRAT) from Oct. 18, 1989 to June 1993
- Senior researcher (chargé de recherche) in the food legume laboratory at the National Institute for Agricultural Research of Tunisia (INRAT) from June 1993 to May 2005
- Maître de recherche in the field crop laboratory National Institute for Agricultural Research of Tunisia (INRAT) from May 2005 to March 2012
- Director of research / Professor in the field crop laboratory National Institute for Agricultural Research of Tunisia (INRAT) since March 2012
- Head of Food Legume Programme at INRAT since November 1997
- Head of Field Crop Laboratory at INRAT since January 2016
- Coordinator of many national and international projects led and implemented by ICARDA in collaboration with NARS with co-financing by IFAD
- National expert for FAO/TCP project on integrated management of Orobanche on Grain Legumes 2006 & 2007.
- Member of scientific committee of many international seminar and workshop (Ascochyta workshops, Plant parasitic plants,)
- Vice chair for Africa of the International Treaty for Phytogenetic Resources on Food and Agriculture (2009-2011)
- Focal point of Tunisia of the International Treaty for Phytogenetic Resources on Food and Agriculture (2009-2011)
- Member of editorial board of Annales de l'INRAT and the Tunisian Journal of Plant Protection.
- President of Tunisian association of ex-students of Mediterranean Agronomic Institute of Zaragoza (ATA-IAMZ) from nov. 1990 to april 1993 and Organisation with ATA-IAMZ in collaboration with IAM Zaragoza of 3 seminars in Tunisia in 1991, 1992, 1993

- Organisation with REMAFEVE/GTZ/INRAT of the second seminar and workshop of the REMAFEVE/REMALA Network at Hammamet (Tunisia) in 2002.
- Collaboration with International Centre for Agricultural Research in Dry Areas (ICARDA) on food legumes since 1989.
- Member of the national committee for planning, fellow-up and evaluation for field crops and since 2010 president of this committee.
- Member of the national committee for variety registration of food legumes and industrial crops
- Member of scientific council of National Gene Bank since 2008
- Member of scientific council of Biotechnology Centre of Borj Cedria (Tunis) since 2010
- Member of scientific council of National Institute for Agricultural Research of Tunisia
- Reviewer of many impacted scientific journals: Euphytica, Crop & Pasture Science, Frontiers in Plant Science, section Crop Science and Horticulture, ...

Main skills:

- Experience in grain legumes improvement especially faba beans, chickpea and lentil. Release of many varieties of chickpea, faba beans and lentil and registration in the Tunisian Official Catalogue of plant varieties of different varieties of grain legumes (faba beans: 5 varieties, chickpea: 4 varieties, and lentil: 2 varieties).
- Experience in studies of interactions between plants / fungi and parasites.
- Experience in managing genetic resources and their use in breeding programs.
- Experience in coordinating research and research & development projects
- Experience in conducting farm field schools
- Experience in project planning by objectives.
- Experience in statistical analysis using SAS, SPSS, Agrobase, Statistica softwares
- Experience in utilization of Office packages (Word, Excel, Powerpoint)

Project coordination and Main tasks

International Projects :

- National Coordinator of REMAFEVE network “réseau maghrébin de recherche sur les fèves” 1992-2002 (gtz project /Germany)
- National Coordinator of FRYMED project (EEC/INCO/DEV) 1998-2001 “Yield stability of faba bean and resistance to main pathogen in Western Mediterranean basin”.
- Coordinator of research team involved in the UE project CEE/ASCORAB (2000-2003) : «Development of Integrated Pest management techniques for the control of Ascochyta blight of chickpea»
- Coordinator of Portugal Tunisia project (A07/00) « Response of faba bean and chickpea to supplementary irrigation (2000-2001).
- Coordinator of Spain Tunisia project « Identification of molecular markers for resistance to fusarium wilt (race 0) on chickpea » (2005-2006).
- National Coordinator of EC project TTC GLIP (FOOD-CT-2004-506223): « New Strategies to Improve Grain Legumes for Food and Feed (2006-2008)
- INRAT Research team coordinator of MEDILEG Project (ARIMnet) (2012-2014).
- Project coordinator at ICARDA of EU-IFAD “Enhanced small-holder wheat-legume cropping systems to improve food security under changing climate in the drylands of West Asia and North Africa” since November 2012.

National Projects :

- Coordinator of National Federative Project on Food Legume (1999 –2003)

- Coordinator of National Federative Project on Promoting faba bean and forage Legumes (2009 –2012)

RELEVANT PUBLICATIONS

International and National Scientific Journals

1. KHARRAT M., ONFROY C., TIVOLI B., HALILA. M.H. **2000.** Charaterization of Tunisian isolates of *Ascochyta fabae*, causal agent of blight of faba bean. **Annales de l'INRAT**, **73**: 91-104.
2. KHARRAT M., LE GUEN J., TIVOLI B. **2000.** Genetic of resistance to *Ascochyta fabae* on faba bean (*Vicia faba* L.). **Petria**, **10**(3): 241-245.
3. ZERMANE N., KROSCHEL J. SOUSSI T., KHARRAT M. **2001.** First report of *Smicronyx cyaneus* Gyll. On *Orobanche foetida* Poiret: investigations in Tunisia. **Haustorium (Parasitic Plants Newsletter)**, N°39: 5-6 (Note de Recherche).
4. RHAÏEM A., CHERIF MOHAMED, KHARRAT M., CHERIF MEJDA, HARRABI M. **2002.** New faba bean genotypes resistant to chocolate spot caused by *Botrytis fabae*. **Phytopathol. Medit.** **41**: 99-108.
5. METOUI O., PORTA PUGLIA A., MARRAKCHI M., KHARRAT M., ANGELINI R. **2002.** The *Vicia faba* diamine oxydase system and its role in response to *Ascochyta fabae* and to wounding. **J. Plant Pathol.**, **84**(1): 19-25.
6. DI VITO M., CATALANO F., ZACCHHEO G., SADIKI M., KHARRAT M. **2002.** Response of lines of faba bean to six populations of root lesion nematodes (*Pratylenchus* spp.) from the Mediterranean region. **Nematol. Medit.**, **30**: 107-109.
7. RUBIO J., HAJJ-MOUSSA E., KHARRAT M., MORENO M.T., MILLAN T., GIL J. **2003.** Two genes and linked RAPD markers involved in resistance to *Fusarium oxysporum* f.sp. *ciceris* race 0 in chickpea. **Plant breeding**, **122**: 188-191.
8. ZOUAOUI BOUTITI M., SOUSSI T., ZERMANE N., KHARRAT M. **2004.** Identification et évaluation des champignons ayant un potentiel dans la lutte biologique contre l'*Orobanche crenata* Forsk. **Revue de l'INAT**, Vol. **19**(1): 163-179.
9. COBOS M.J., FERNANDEZ M.J., RUBIO J., KHARRAT M., MORENO M.T., GIL J., MILLAN M.T., **2005.** A linkage map of chickpea (*Cicer arietinum* L.) based on populations from kabuli x desi crosses: location of genes for resistance to fusarium wilt race 0. **Theor. Appl. Genet.**, **110**: 1347-1353.
10. ELLOUZE W., KHARRAT M., BOUZID S., **2005.** Evaluation de quelques lignées de *Vicia faba* L. pour la résistance génétique au parasite *Orobanche foetida*. **Revue de la Soc. des Sciences Naturelles de Tunisie, Nouvelle série, Tome 31**: 85-93
11. KHARRAT M., LE GUEN J., TIVOLI B., **2006.** Genetics of resistance to 3 isolates of *Ascochyta fabae* on faba bean (*Vicia faba* L.) in controlled conditions. **Euphytica**, **151**: 49-61.
12. INFANTINO A., KHARRAT M., RICCIONI L., COYNE C.J., MCPHEE K.E., GRÜNWALD N.J., **2006.** Screening techniques and sources of resistance to root diseases in cool season food legumes. **Euphytica**, Vol. **147**(1-2): 201-221.
13. RUBIALES D., PEREZ-DE-LUQUE A., FERNANDEZ-APARICO M., SILLERO J.C., ROMAN B., KHARRAT M., KHALIL S., JOEL D.M., RICHES CH., **2006.** Screening techniques and sources of resistance against parasitic weeds in grain legumes. **Euphytica**, Vol. **147**(1-2): 187-199.
14. TIVOLI B., BARANGER A., AVILA C.M., BANNIZA S., BARBETTI M., CHEN W., DAVIDSON J., LINDECK K., KHARRAT M., RUBIALES D., SADIKI M., SILLERO J.C.,

- SWEETINGHAM M., MUEHLBAUER F.J., **2006**. Screening techniques and sources of resistance to foliar diseases caused by major necrotrophic fungi in grain legumes. **Euphytica**, Vol. 147(1-2): 223-253.
15. ALLAGUI M.B., HEMMAMI C., **KHARRAT M.**, **2006**. Evaluation et sélection de lignées de *Vicia faba* pour la tolérance à *Uromyces vicia-fabae*. **Annales de l'INRAT**, 79: 137-151.
16. ABBES Z., **KHARRAT M.**, CHAIBI W., **2006**. Study of the interaction between *Orobanche foetida* and faba bean at root level, **Tunisian Journal of Plant Protection**, Vol. 1(1): 55-64
17. NASRAOUI B., SRARFI F., ALOUI S., **KHARRAT M.**, **2006**. First report of pea black stem due to *Phoma pinodella* in Tunisia. **Tunisian Journal of Plant Protection**, Vol. 1(2): 105-107 (short communication)
18. BEN ABDALLAH, M.A., MANSOURI T., **KHARRAT M.**, SIFI B., BAHROUNI H., **2006**. Variation des pertes en grains par jour de retard de la récolte de pois chiche (*Cicer arietinum* L.). **Annales de l'INRAT**, 79: 197-207.
19. **KHARRAT M.**, SARKER A., ERSKINE W., **2007**. Registration of Saliana lentil. **Journal of Plant Registrations**, Vol. 1: 42.
20. **KHARRAT M.**, SARKER A., ERSKINE W., **2007**. Registration of Kef lentil. **Journal of Plant Registrations**, Vol. 1: 43.
21. SAYAR R., KHEMIRA H., **KHARRAT M.**, **2007**. Inheritance of deeper root length and grain yield in half-diallel durum wheat (*Triticum durum*) crosses. **Ann. Appl. Biol.**, 151: 213-220.
22. ABBES Z., **KHARRAT M.**, DEVAULT P., SIMIER P., CHAÏBI W., **2007**. Field evaluation of the resistance of some faba bean (*Vicia faba* L.) genotypes to the parasitic weed *Orobanche foetida* Poiret. **Crop Protection**, 26: 1777-1784.
23. ROMAN B., SATOVIC Z., ALFARO C., MORENO M.T., **KHARRAT M.**, PEREZ DE LUQUE A., RUBIALES D., **2007**. Host differentiation in *Orobanche foetida* Poir. **Flora**, 202: 201-208
24. ABBES Z., **KHARRAT M.**, SIMIER PH., CHAÏBI W., **2008**. Characterization of resistance to crenate broomrape (*Orobanche crenata*) in a new small-seeded line of Tunisian faba beans. **Phytoprotection** 88: 83-92.
25. ABBES Z., **KHARRAT M.**, CHAÏBI W., **2008**. Seed germination and tubercle development of *Orobanche foetida* and *Orobanche crenata* in presence of different plant species. **Tunisian Journal of Plant Protection**, Vol. 3, No. 2: 101-108
26. SIFI B., **KHARRAT M.**, KHALDI R., KAABIA M., BEN SALEM M., **2008**. Introduction de la culture du pois chiche d'hiver dans les systèmes de production en zone semi- aride de la Tunisie. **Revue des régions arides**. N°21 Vol.(II): 915-920.
27. ABBES Z., **KHARRAT M.**, CHAÏBI W., **2008**. Sensibilité à la plante parasite *Orobanche crenata* chez quelques lignées de *Vicia faba* L. **Revue des régions arides**. N°21 Vol.(III): 1130-1135
28. DÍAZ-RUIZ R., TORRES A., GUTIERREZ M. V., RUBIALES D., CUBERO J. I., **KHARRAT M.**, SATOVIC Z., ROMÁN B., **2009**. Mapping of quantitative trait loci controlling *Orobanche foetida* Poir. resistance in faba bean (*Vicia faba* L.). **African Journal of Biotechnology**, Vol. 8(12): 2718-2724.
29. HALILA I., COBOS M.J., RUBIO J., MILLÁN T., **KHARRAT M.**, MARRAKCHI M., GIL J., **2009**. Tagging and mapping a second resistance gene for *Fusarium* wilt race 0 in chickpea. **Eur. J. Plant Pathol.** 124: 87-92.

30. COBOS M.J., WINTER P., **KHARRAT M.**, CUBERO J.I., GIL J., MILLAN T., RUBIO J., **2009**. Genetic analysis of agronomic traits in a wide cross of chickpea. **Field Crops Research**, **111**: 130–136.
31. HALILA I., RUBIO J., MILLÁN T., GIL J., **KHARRAT M.**, MARRAKCHI M., **2009**. Resistance in chickpea (*Cicer arietinum*) to Fusarium wilt race 0. **Plant Breeding**, Vol. **129**(5): 563-566.
32. ABBES Z., **KHARRAT M.**, DELAVAULT PH., CHAÏBI W., SIMIER PH., **2009**. Nitrogen and carbon relationships between the parasitic weed *Orobanche foetida* and susceptible and tolerant faba bean lines. **Plant Physiology and Biochemistry**, Vol.**47**: 153-159.
33. ABBES Z., **KHARRAT M.**, DELAVAULT PH., CHAÏBI W., SIMIER PH., **2009**. Osmoregulation and nutritional relationships between *Orobanche foetida* and faba bean. **Plant Signaling & Behavior**, **4**(4): 336-338.
34. AMRI M., SALLEMI F., **KHARRAT M.**, **2009**. First report of the parasitic plant *Orobanche foetida* on Fenugreek (*Trigonella foenum-graecum*) in Tunisia. **Tunisian J. Plant Protection**. Vol.**4**(2): 235-238. (short communication)
35. ABBES Z., **KHARRAT M.**, POUVREAU J.B., DELAVAULT PH., CHAÏBI W., SIMIER PH., **2010**. The dynamics of faba bean (*Vicia faba* L.) parasitism by *Orobanche foetida*. **Phytopathol. Mediterr.**, Vol. **49**(2): 239-248.
36. OMRI BEN YOUSSEF N., KRID S., RHOUMA A., **KHARRAT M.**, **2010**. First report of *Rhizoctonia solani* AG 2-3 on chickpea in Tunisia. **Phytopathol. Mediterr.**, Vol. **49**(2): 253-257.
37. FERNÁNDEZ-APARICIO M., AMRI M., **KHARRAT M.**, RUBIALES D., **2010**. Intercropping reduces *Mycosphaerella pinodes* severity and delays upward progress on the pea plant. **Crop Protection**, Vol. **29**(7) : 744-750.
38. ABBES Z., **KHARRAT M.**, BAYAA B., KHALIL S., **2010**. Comportement de différentes accessions améliorées de féverole (*Vicia faba* L.) vis-à-vis d'*Orobanche crenata* Forsk. et *Orobanche foetida* Poir. **Cahiers de l'Agriculture**, Vol. **19**(3): 194-199.
39. ABBES Z., SELLAMI F., AMRI M., **KHARRAT M.**, **2010**. Effect of sowing date on *Orobanche foetida* infection and seed yield of resistant and susceptible faba bean cultivars. **Acta Phytopathologica & Entomologica Hungarica** **45**(2): 267–275.
40. **KHARRAT M.**, ABBES Z., AMRI M., **2010**. A new faba bean small seeded variety 'Najeh' tolerant to orobanche registered in the Tunisian catalogue. **Tunisian J. Plant Protection**. Vol.**5**(1): 125-136.
41. FERNANDEZ-APARICIO M., SHTAYA M.J.Y., EMERAN A.A., ALLAGUI M.B., **KHARRAT M.**, RUBIALES D., **2011**. Effects of crop mixtures on chocolate spot development on faba bean grown in Mediterranean climates. **Crop Protection**, Vol. **30**(8): 1015-1023.
42. BOUKHRIS-BOUHACHEM S., BEN YOUSSEF S., **KHARRAT M.**, **2011**. First report of *Geoica utricularia* (Hemiptera: Aphididae) population on parasitic broomrape *Orobanche foetida*. **Florida Entomologist**, **94**(2): 343-344.
43. ABBES Z., SELLAMI F., AMRI M., **KHARRAT M.**, **2011**. Variation in the resistance of some faba genotypes to *Orobanche crenata*. **Pak. J. Bot.**, **43**(4): 2017-2021.
44. SFAYHI D., **KHARRAT M.**, **2011**. Physicochemical and cooking characteristics of Tunisian chickpea varieties. **Food 5 (Special Issue 1)** : 68-72.
45. ABBES Z., **KHARRAT M.**, DJEBALI W., CHAIBI W., **2011**. Interaction between broomrapes and their hosts. **Journal of Phytology**, **3**(1): 68-72.

46. FERNÁNDEZ-APARICIO, M., MORAL A., KHARRAT M., RUBIALES D., 2012. Resistance against broomrapes (*Orobanche* and *Phelipanche* spp.) in faba bean (*Vicia faba*) based in low induction of broomrape seed germination. **Euphytica**, Vol. 186 (3): 897-905.
47. AMRI M., ABBES Z., BEN YOUSSEF S., BOUHADIDA M., BEN SALAH H., KHARRAT M. 2012. Detection of the parasitic plant, *Orobanche cumana* on sunflower (*Helianthus annuus* L.) in Tunisia. **African Journal of Biotechnology** Vol. 11(18): 4163-4167.
48. BENYOUSSEF N., LE MAY C., MLAYEH O., KHARRAT M. 2012. First report of *Didymella fabae*, teleomorph of *Ascochyta fabae*, on faba bean crop debris in Tunisia. **Phytopathol. Mediterr.**, Vol. 51(2): 369-373.
49. BOUHADIDA M., BENJANNET R., MADRID E., AMRI M., KHARRAT M. 2013. Efficiency of marker-assisted selection in detection of ascochyta blight resistance in Tunisian chickpea breeding lines. **Phytopathol. Mediterr.**, Vol. 52(1) : 202-211.
50. AMRI M., ABBES Z., BOUHADIDA M., KHARRAT M. 2013. First report of the parasitic plant *Phelipanche ramosa* on berseem clover (*Trifolium alexandrinum*) in Tunisia. Tunisian Journal of Plant Protection 8: 127-132.
51. BOUHADIDA M., SRARFI F., SAADI I., KHARRAT M. 2013. Molecular characterization of pea (*Pisum sativum* L.) using microsatellite markers. **Journal of Applied Chemistry**, 5:57-61.
52. GUTIÉRREZ N, PALOMINO C, SATOVIC Z, RUIZ-RODRIGUEZ MD, VITALE S, GUTIERREZ MV, RUBIALES D, KHARRAT M., AMRI M, EMERAN A, CUBERO JI, ATIENZA SG, TORRES AM, AVILA CM. 2013. QTLs for *Orobanche* spp. resistance in faba bean: Identification and validation across different environments. **Theoretical and Applied Genetics**. 32(4), pp 909-922.
53. OMRI BENYOUSSEF N., CHAAR H., KHARRAT M., LE MAY C. 2013. Spatial and temporal dynamics of Ascochyta blight caused by *Ascochyta fabae* in faba beans in Tunisia. **Phytopathologia Mediterranea**, 52(1): 236-237.
54. KHARRAT M., HALILA M.H., BEN SALAH H., SIFI B., SAYAR R., SRARFI BEN AYED F., AMRI M., OMRI BENYOUSSEF N., BOUHADIDA M., ABBES Z., SFAYHI TARRES D., BOUKHRIS-BOUHACHEM S., ALLAGUI M.B., BEN ABDERRABEH NAJAR A., BEN SALEM H. 2013. Grain Legume Research Progress in Tunisia: History and Perspectives: **Phytopathologia Mediterranea** 52(1): 236-237
55. AMRI M., M. BOUHADIDA, M. H. HALILA, M. KHARRAT. 2014. Chickpea cropping and breeding program: An overview on the Tunisian situation. **Legume perspectives: The timeless chickpea, big hearts pulse within pods**. The journal of the International Legume Society, Issue 3: 58-61. <http://ils.nsseme.com/assets/LegumPerspect3.pdf>
56. HALILA I., OMRI BENYOUSSEF N., BOUHADIDA KSIAA M., KHARRAT M. 2014. Evaluation au champ de différentes populations de lignées recombinantes de pois chiche pour la résistance à la race 0 de *Fusarium oxysporum* f. sp. *ciceris* (Foc). **Annales de l'INRAT**, Accepté.
57. ABBES Z., EL ABED N., AMRI M., KHARRAT M., 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. <http://www.thejaps.org.pk/docs/v-24-1/43.pdf>
58. ABBES Z., MKADMI M., TRABELSI I., AMRI M., KHARRAT M. 2014. *Orobanche foetida* control in faba bean by foliar application of Benzothiadiazole (BTH) and Salicylic Acid. **Bulgarian Journal of Agricultural Science**, 20(6): 1439-1443
59. 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.*, Vol. 166: 58-65. <http://dx.doi.org/10.1016/j.fcr.2014.06.010>
60. JENDOUBI W., M. BOUHADIDA, J. RUBIO, T. MILLAN, J. GIL, **M. KHARRAT**, E. MADRID. 2014. Development of chickpea near-isogenic lines for fusarium wilt race 0. Communication par affiche. Congrès: IFLRC VI and ICLGG VII, Saskatoon, Canada, du 07 au 11 Juillet 2014.
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Registration of Varieties in The Tunisian National Catalogue of Plant Variety :

- Faba bean Large Seeds : Chahbi, Mamdouh
- Faba bean Small Seeds : Badï, Bachaar, Najeh, Chourouk
- Chickpea : Béja1, Bouchra, Nayer, Nour, Rebha
- Lentil : Saliana Kef, Boulifa, Ebba
- Pea : Rahma, Basma