

CV of Khalil Khamassi



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Present Position Associate Professor head of the Tunisian Faba bean Breeding programme: Cool Grain Legumes Breeding (pulses: faba bean, lentil chickpea and common bean, mung bean, cowpea), Since March 2016. University of Carthage, Field Crop Laboratory, National Institute for Agricultural Research of Tunisia (INRAT), Address: Street Hédi Karray 1004 El Menzah - Tunis - TUNISIA
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Degrees

- 2014** **PhD in Plant Sciences (highest honors)** at the National Agronomic Institute of Tunisia (INAT). The thesis was performed in the Laboratory of Horticultural Science at INAT in collaboration with The Jhon Bingham Laboratory, National Institute of Agricultural Botany (NIAB), Cambridge, United Kingdom (UK).
- 2008** **Master Research Degree in Agronomy and Plant Biotechnology (ABV)**, Option: Plant Genetic Resources and Biotechnology (RPB) at the National Agronomic Institute of Tunisia (INAT) (**cum laude**).
- 2006** **National Degree in Agricultural Engineering Sciences** Graduate School of Agriculture of Kef (ESAK) (**with Honors, ranking 2nd out of 79** students).
- 2003** **National Competition for Admission in top Engineering Schools:** Preparatory Cycle: National contest for entry to the Engineering Cycle at the National Institute of Agronomy of Tunis (INAT).
- 2001** **Baccalaureate Degree in Experimental Sciences / Tunisia (with honors).**

Grant(s) and projects funded

- **2017-2020:** National coordinator in International trilateral project as part of the UK Grand Challenges Research Fund. Project called “**BEANS4N.AFRICA**”, led by University of Reading (U of R) UK and involving INRAT (Tunisia) as partner with Sakha ARS (Egypt). The U of R designed and validated a high-density SNP genotyping chip and is deploying this to genotype a large panel of lines and mapping populations in pursuit of two goals: 1. mapping and introgression into Tunisian and Egyptian-adapted backgrounds of the low vicine-convicine gene and mapping resistance to *Orobanche crenata*.
- **2019-2022:** member of ‘Innovative sustainable solutions for broomrapes: prevention and integrated pest management approaches to overcome parasitism in Mediterranean cropping systems’ (**Zeroparasitic**). Project: within the framework of the PRIMA 2020 Research and Innovation Action (RIA) program.

(2015-2016): Ministry of Agriculture of Saskatchewan, Canada, and ADF grant: proposing an experiment on dwarfism and developing molecular markers for low phytate mutation in faba bean.

Previous positions held

2014-2016: Postdoctoral Research Scientist, University of Saskatchewan, Saskatoon, Canada.

2010-2011: Research Assistant, National Gene Bank of Tunisia (**NGB**).

Trainings and Courses	
Dates	Courses Subjects
2021	From 8 February to 10 April: WUR - Online Tailor-Made Training course: the training course regarding innovative tools in plant breeding for smart climate agriculture for food security in Tunisia. Accepted; organised by University of Wageningen University & Research (WUR)-Plant breeding (The Netherlands) in Collaboration with the Regional Field Crops Research Centre of Beja (CRRGC) in Tunisia, The course is funded by the Orange knowledge programme (OKP) of NUFFIC, The Netherlands and the CRRGC in Tunisia
2019	From 17 to 19 July 2019; EU 201 Apply for a European R&I project: Entering a consortium as a project partner or as a solo applicant; Choose your instrument and understand the expectations; Identify leaders and contact them; Anticipate the creation of a project and network; Propose a position and size its contribution (objectives, team, contribution, IP, results, budget); Write own contribution; Master the details of a specific instrument organised by l'UGPE-H2020 Tunisia
2019	11-12 Juillet 2019; " EU 101 Understanding and identifying European R&I projects: Understand the dynamics of European R&I projects; Understand the typologies of instruments Identifying calls for projects, Identify partners and consortia; Register as a partner and get in touch. EU 101"organised by l'UGPE-H2020 Tunisia
2019	From 17 to 21 June 2019 ; Advanced course « ourse on BIG DATA TECHNIQUES AND APPLICATIONS IN THE AGRI-FOOD SYSTEM ». Institute Agronomic Mediterranean of Zaragoza (IAMZ), Saragosse, Espagnq. (1 week)
2018	(From 03 to 05 July 2018) first session of International Theoretical and Practical Course on «Experimental Design and Statistical Analysis for Plant Pathology », organized by CBBC Tunisia
2018	From 26 to 29 Febreuary 2018: training and participation to grain legume diversity collecting mission for <i>ex-situ</i> conservation and genetic diversity studies in Noth Ouest of Tunisia. Tunisia Gene bank with collaboration of University of Bari Italy
2017	(28-29 Novembre 2017), 2 days of training 'Introduction to project editing H2020' organized by IRESA and ANPR.
2017	(15 to 22 octobre 2017) ; Advanced course « Progress En Amélioration Génétique Et Agronomie pour Accroitre la durabilité de la culture des légumineuses à graines ». Institut Agronomique Méditerranéen de Zaragoza (IAMZ), Saragosse, Espagnq. (1 week)
2017	(17-21 July) ; 2nd session of the international theoretical and practical course « Using whole genome data in plant breeding : GWAS & Genomic Selection » , CBBC Tunisia (1week)

2017	Avril 2017, one day training session : The valuable tools contributing to your research cycle “Discover, Read, Cite, Publish & Get cite collaboration with the CNUDST- Le Center National Universitaire de Documentation Scientifique et technique At Carthage University –Institut National de la Recherche Agronomique deTunis (INRAT)
2016	(3-13 Octobre 2016) Specialized training course on “Statistical Design and Biometrical Techniques ”, INTERNATIONAL Center for Agricultural Research in the Dry Areas (ICARDA), AMMAN, and JORDANIE. ‘2 weeks)
2016	(1 day) conference entitled "agro-ecological interest of legumes" at the Tunis Science City
2016	01-au 30 Mars 2016: Postdoctoral fellowship at Plant Sciences Department, University of Saskatchewan, Saskatoon, Saskatchewan, Canada. The theme of this training is the screening of a faba bean population for the selection of low-dose phytate accessions (phytic acid).
2014-2015	Safety orientation for employees training (1 day) Lab biosafety training (1day) Biosafety online courses (30 days)
2012	Quantitative methods in plant breeding (intensive courses)NIAB Cambridge United kingdom, (2 weeks)
2011-2012	English free classic pre intermediate levelCambridge Regional College (CRC) UnitedKingdom, (10 months)
2011	Best Practices for Collection, Conservation and Utilization of Genetic Resources (4 days) . Sponsored by National Gene Bank Tunis (NGB) and ICARDA Genetic Resources Section Aleppo Syria Tunis, Tunisia.
2009	Accelerated software training adobe flash 8.0 CS3 At Tunis Science City (4days) Accelerated software training adobe Photoshop At Tunis Science City (4 days)
2008	Accelerated English Course level 4 “Upper inter-mediate” at Bourguiba Institute of Languages (80 hours)

PHD co supervision from 2021:

- 1. Soumayya Abidi: phenotypic, physiological and molecular screening of accessions of Faba bean (*vicia faba L.*) and identification of resistances candidate genes from 2021,** at the National Agronomic Institute of Tunisia (INAT), University of Carthage, (supervisor: Dr Zouhaier Abbes , CO-supervisor: Dr Khalil Khamassi).
- 2. Ameni Soualhi: phenotypic, physiological and molecular screening of accessions of chickpea (*Cicer arietinum L.*) and the valorization of its flour in industrial purposes from 2021,** at the the Higher Institute of Biotechnology of Béja (ISBB), University of Jendouba, (supervisor: Prof: Mondher Mejri , CO-supervisor: Dr Khalil Khamassi).

Supervision of masters and end of studies (technician- engineer degrees) from 2016-2020:

➤ MSc of research:

3. **Abir Dakhlaoui (2019)**. Characterization of the physical and molecular properties of the seed and molecular of some accessions of *Vicia faba* L. Defended on January 5, 2019 at the National Agronomic Institute of Tunisia (INAT), University of Carthage, (supervisor: Dr Khalil Khamassi)

➤ MSC Professional

1. **Asma Nebti (2020)**. Morphological and molecular characterization of some bean accession (*Vicia faba* L.) and valorization of faba bean flour in industry pastry. Defended on 23 th December, 2020 at the Agricultural high school of Mateur (ESAM), University of Carthage, (supervisor: Dr Khalil Khamassi).

2. **Ahlem Mhimdi (2018)**. Agronomic evaluation and molecular characterization of broad bean and faba bean accessions (*Vicia faba* L). Professional Master in living and environmental technologies (course: Biological Engineering) from the Higher Institute of Applied Biological Sciences of Tunis (ISBAT (encadrant : Dr Khalil Khamassi).

3. **Nahed Zaghdoudi (2018)**. Screening *Orobanche foetida* partial resistance in some accessions of chickpeas (*Cicer arietinum* L.). Defended on November 15, 2018 at the Higher Institute of Biotechnology of Béja (ISBB), University of Jendouba, (supervisor: Dr Khalil Khamassi).

4. **Marwa Zouaghi (2019)**. Agro-morphological characterization of some chickpea accessions (*Cicer arietinum* L.). Defended on November 15, 2018 at the Higher Institute of Biotechnology of Béja (ISBB), University of Jendouba, (supervisor: Dr Khalil Khamassi).

➤ Engineer diploma end studies project :

1. **Ansem Noura (2017)**. Agro-morphological characterization and evaluation of resistance to *Orobanche* spp. On some breeding lines of *Vicia faba* L. End of studies project of the Engineer cycle in plant production sciences of the National Agronomic Institute of Tunisia (INAT), (encadrant : Dr. Khalil Khamassi).

➤ Technician diploma end studies project :

1. **Oumaima Joueouda (2017)**. Analysis of the genetic diversity of in some breeding lines of faba beans (*Vicia faba* L.). End of studies project with a view to obtaining the applied license in biotechnology from the Higher Institute of Applied Biological Sciences of Tunis (ISBAT). (encadrant : Dr. Khalil Khamassi).
2. **Wiem Ben Hassine (2017)**. The analysis of the genetic diversity of some lines of broad beans (*Vicia faba* L.) and their resistance to salt stress at the germination stage. End of studies project with a view to obtaining the applied license in environmental protection (course: environmental protection) from the Faculty of Sciences of Tunis (FST). (Supervisor: Dr. Khalil Khamassi).
3. **Jihene Saïdani (2018)**. The study of the level of resistance to the parasitic plant *Orobanche foetida* in some genotypes of chickpea (*Cicer arietinum* L.). Defended on June 21, 2018 at the Higher Institute of Biotechnology of Béja (ISBB), University of Jendouba, (supervisor: khalil khamassi).

Reviewing activity:

➤ MSC Professional

Salma Guermech (2016). Molecular characterization of some varieties of chickpeas and the development of a molecular fingerprint, supported on September 29, 2016 at the Faculty of Sciences of Bizerte (FSB), University of Carthage, (external reviewer: Dr khalil khamassi).

➤ 22 REVIEWS of MANUSCRIPTS

1. **2020-12-29.** The Soybean Transcriptogram Allows a Wide Genome-to-Single-Gene Analysis That Evinces Time-Dependent Drought Response. *Plant Molecular Biology Reporter*
2. **2020-12-24.** Growth and Dry Matter Partitioning Response in Cereal-Legume Intercropping Under Full and Limited Irrigation Regimes. *Scientific Reports*.
3. **2020-12-23.** Influence of Silicon and Chitosan on Growth and Physiological Attributes of Maize in a Saline Field *Physiology and Molecular Biology of Plants*.
4. **2020-10-18.** Réponse au déficit hydrique progressif chez la lentille : vers une différenciation morpho-physiologique entre des accessions sauvages (*Lens orientalis*), populations locales et lignées avancées de lentille (*Lens culinaris Medik.*). *Botany*.
5. **2020-08-07.** The fingerprints of climate warming on cereal crops phenology and adaptation options. *Scientific Reports*.
6. **2020-08-01.** Review On: Role of Seed Priming on Seed Quality. *International Journal of Plant Breeding and Crop Science*.
7. **2020-07-31.** Genotype X Environment Interaction and Grain Yield Stability of Maize (*Zea Mays L.*) Hybrids Tested in Multi-environment Trials at Mid-altitude Sub-humid Agro-ecology of Ethiopia. *International Journal of Plant Breeding and Crop Science*.
8. **2020-07-23.** Understanding Biodiversity in Sorghums to Support the Development of High Value Bio-based Products in Sub-Saharan Africa. *Journal of Cereals and Oilseeds*.
9. **2020-07-06.** Stay Green Genes Contributed for Drought Adaptation and Performance under Terminal Stress on Sorghum (*Sorghum Bicolor L. Moench*). *Journal of Plant Breeding and Crop Science*.
10. **2020-03-31.** Anthelmintic Efficacy and Oxidative Damage Related to the Relative Expression of the Hc29 Gene (GPx Family) on *Haemonchus Contortus* Larvae After Exposure to the Artemisia Cina N-Hexane Fraction *International Journal of Plant, Animal and Environmental Sciences*.
11. **2020-03-17.** A Novel Protein Elicitor PevL1, from *Verticillium Lecanii 2*, Induces Systemic Resistance Against Bean Aphid (*Megoura Japonica Matsumura*) in *Phaseolus Vulgaris L.* *International Journal of Plant, Animal and Environmental Sciences*.
12. **2020-02-20.** Plant Spacing and Variety of Field Corn (*Zea mays L.*) Affecting Yield, Yield Components and Silage Quality. *Walailak Journal of Science and Technology*.
13. **2020-02-07.** Genetic Diversity of Ethiopian Durum Wheat (*Triticum Durum Desf*) Landrace Collections as Reveled By Morphological Markers. *Journal of Plant Breeding and Crop Science*.
14. **2019-12-19.** Physical Properties, Chemical Composition and Nutritional Quality Potentials of *Lonchocarpus Sericeus* (Cube Root) Seeds and Seed Oil. *Walailak Journal of Science and Technology*.
15. **2019-09-25.** Evidences that polyploidization and hybridization affected resveratrol content in *Arachis* interspecific hybrids. *Journal of Plant Breeding and Crop Science*.
16. **2019-07-18.** Identification of rice genotypes tolerant to submergence at seedling stage in Uganda. *Journal of Plant Breeding and Crop Science*.
17. **2019-05-31.** Evaluation of Agro-morphological, yield components and nutritional quality traits of Tunisian arid regions *Vicia faba L. var. minor*. *Italian Journal of Animal Science*.
18. **2019-04-05.** Genetic divergence and principal component analysis among noug genotypes. *Academic Research Journal of Biotechnology*.

19. **2019-01-14.** Diallel analysis of scald and net blotch resistance in barley (*Hordeum vulgare* L.). Journal of Plant Breeding and Crop Science.
20. **2019-01-14.** Genetic variability, heritability and genetic advance in shrunken-2 super-sweet corn (*Zea mays* L. *saccharata*) populations. Journal of Plant Breeding and Crop Science.
21. **2017-04-12.** Trends in Production and Export of Lentils in Ethiopia. International Journal of Plant Breeding and Crop Science.
22. **2015-04-05.** Genetic variation in morpho-physiological traits associated with frost tolerance in faba bean (*Vicia faba* L.) Euphytica.

Selection of relevant publications (2010-2015):

- Babay, E.; **Khamassi, K.**; Sabetta, W.; Miazzi, M.M.; Montemurro, C.; Pignone, D.; Danzi, D.; Finetti-Sialer, M.M.; Mangini, G. Serendipitous In Situ Conservation of Faba Bean Landraces in Tunisia: A Case Study. **Genes** **2020**, *11*, 236.
- Dakhlaoui A., **Khamassi K.**, Babay E., Rouissi M. & Chaar H. **2019**. Caractérisation moléculaire de quelques races primitives tunisiennes « landrace » de fèves-féverole (*Vicia faba* L.), *Revue Agrobiologia*, *9*(1): 1372-1385
- Angra, D., **Khamassi, K.**, Lopez-Diaz, I., Carera-Ruiz, E. and O'Sullivan, D.M. (2016) Dwarfism in commercial faba bean varieties is caused by a defect in gibberellin biosynthesis. In press for Journal of Experimental Botany.
- Bédis Amri, **Khalil Khamassi**, Mohamed B.Ali, Jaime A.Teixeira da Silva et Leila Bettaieb Ben Kaab (2016). Effects of gibberellic acid on the process of organic reserve mobilization in barley grains germinated in the presence of cadmium and molybdenum. *South African Journal of Botany* *106* (2016) 35–40. Available online 4 June 2016. <https://doi.org/10.1016/j.sajb.2016.05.007>
- Anne Webb, Amanda Cottage, Thomas Wood, **Khalil Khamassi**, Douglas Hobbs¹, Krystyna Gostkiewicz, Mark White, Hamid Khazaei, Mohamed Ali Daniel Street, Gérard Duc, Fred Stoddard, Fouad Maalouf, Francis Ogonnaya, Wolfgang Link, Jane Thomas, Donal M O'Sullivan¹ (**2015**). A SNP-based consensus genetic map for synteny-based trait targeting in faba bean (*Vicia faba* L.), *Plant Biotechnology*, (ISI Journal Citation Reports © Ranking: 2013: ISSN: 1467-7652.
- **Khalil Khamassi**, Ian J. Mackay, Mohamed B. Ali, Salah Rezgui, Donal O' Sullivan, Fayçal Ben Jeddi (**2014**). Agro-morphological Variation and Nutritional Qualitative Trait Screening among Field bean (*Vicia faba* L. *var minor*). *Legume Genomics and Genetics* 05/2014; Vol. 5(3). ISSN: 1925. DOI: 10.5376/lgg.2014.05.0003.
- **Khalil Khamassi**, Fayçal Ben Jeddi, Doug Hobbs, Jose Irigoyen, Fred Stoddard, Donal M O'Sullivan, Huw Jones (**2013**). A baseline study of vicine-convicine levels in faba bean (*Vicia faba* L.) germplasm, *Plant Genetic Resources available on* ISSN: 1479-2621 EISSN: 1479-263X. CJO2013. doi:10.1017/S1479262113000105: 1-8,
- **Khalil Khamassi**, Kalthoum Harbaoui, Jaime A. Teixeira da Silva, Fayçal Ben Jeddi (**2013**). Optimal Germination Temperature Assessed by Indices and Models in Field Bean (*Vicia faba* L. *var. minor*) *Agriculturae Conspectus Scientificus*. ISSN: 1331-7768 e-ISSN: 1331-7776. Vol. 78 (2): 131-135.
- **K. Khamassi**, L. Bettaiëb Ben Kaab, S.Khoufi, R. Chaabane, Jaime A. Teixeira da Silva, I. J. Mackay, and M. Ben Naceur (**2012**). Morphological and Molecular Diversity of Tunisian Chickpea. *Europ.J.Hort.Sci.* *77* (1). S. 31–40, ISSN 1611-4426. Verlag Eugen Ulmer KG, Stuttgart ISSN (printed): 1611-4426 ISSN (electronic): 1611-4434

- Tawba Kalai, **Khalil Khamassi**, Jaime A. Teixeira da Silva, Houda Gouia, Leila Bettaieb Ben-Kaab (2014). Cadmium and Copper Stress Affect Seedling Growth and Enzymatic Activities in Germinating Barley Seeds. Journal: Archives of Agronomy and Soil Science. 60(6): 765-783. ISSN: 0365-0340 DOI: 10.1080/03650340.2013.838001 E-ISSN: 1476-3567 (Impact factor: 0,504);
- Sahari Koufi, **Khalil Khamassi**, Jaime A. Teixeira da Silva, Nadia Aoun, Salah Rezgui & Fayçal Ben Jeddi (2013). Assessment of diversity of phenologically and morphologically related traits among adapted populations of sunflower (*Helianthus annuus* L.), Helia.36(58): 29-40. Print ISSN: 1018-1806; DOI: 10.2298/HEL1358029K.
- Sahari Koufi, **Khalil Khamassi**, Jaime A. Teixeira da Silva, Nadia Aoun, Salah Rezgui & Fayçal Ben Jeddi (2012). Seed Quality-Related Traits Influence Germination of *Helianthus annuus* L. Grown Under Three Levels of Water Supply, Journal of Crop Improvement, 26 (6) 842-853. ISSN 1542-7528 (Print).e-ISSN 1542-7536 (Online).
- Sahari Koufi, **Khalil Khamassi**, Jaime A. Teixeira da Silva, Ramzi Chaabane, M' Berek Ben Naceur (2012). Morphological and molecular characterization of six of the most frequently cultivated hard wheat varieties in Tunisia, Journal of Plant Breeding and Crop Science Vol. 4(7):106-114. Print ISSN: 1752-3478.
- **Khalil Khamassi**, Sahari Koufi, Ramzi, Chaabane, Jaime A. Teixeira da Silva, M'barek Ben Naceur (2011) Optimization of Conditions for Assessment of Genetic Diversity in Chickpea (*Cicer arietinum* L.) Using SSR Markers. International journal Plant Breeding (Global Sciences Book) (2):141-145. Print ISSN: 1752-3478

Oral Communications:

- Donal M. O' Sullivan, Deepti Angra, Vasiliki Tagkouli, Khalil Khamassi, Walid El-Rodeny Mahmoud Zeid (2018). W244: Gene Identification in Faba Bean to Synteny and Beyond. Plant and Animal Genome Conference XXVI-13-17, Janvier, San Diego, Canada.



- **Khamassi K.**, D.M. O'Sullivan, F. Ben Jeddi (2013). Analysis of genetic diversity and molecular mapping of SNP markers for *Vicia faba* L. var *minor*". Workshop and Mini-Symposium, Rabat 6,7 et 8 Octobre 2013.
- **Khalil Khamassi**, Moez Amri, Mouhamed Kharrat (2017). Amélioration des fèves (*Vicia faba* L.) vers un produit de meilleure qualité nutritionnelle et pour une agriculture durable. Séminaire scientifique et de développement « Durabilité des Grandes cultures et changements climatiques. 18-20 avril, INRAT, Tunis, Tunisie
- D.M. O'Sullivan, A. Cottage, A. Webb, T. Wood, **K. Khamassi**, D. Hobbs, K. Gostkiewicz, M. White, H. Khazaei, M. Ali, M. Febrer, J. Rogers, G. Duc, F. Stoddard, F. Maalouf, F. Ogbonnaya, W. Link, P. Smith, J. Thomas (2013). "A genomic toolkit for improvement of faba bean_Workshop and Mini-Symposium, Building a new research alliance to reclaim Faba bean production area abandoned to Orobanche". Rabat 6,7 et 8 Octobre 2013.
Cottage A, Webb A, Hobbs D1, Khamassi K, Maalouf F, Ogbannaya F, Stoddard F, Duc G, Link W, Thomas JE, O'Sullivan DM (2012) SNP discovery and validation for genomic-assisted breeding of faba bean (*Vicia faba* L.).p.85, S-GAB05 Communications orales :dans VI International Conference on Legume Genetics and Genomics (ICLGG) (October 2-7, 2012) Hyderabad Marriott Hotel & Convention Centre Hyderabad, India October 2-7, 2012.

Posters:

- **Khalil Khamassi**, Mohamed B. Ali, Marwan Diapari, Faysal Ben Jeddi, Donal M. O'Sullivan(2014) Comparison of Genetic Structure and Diversity in a Combined Collection of Tunisian and a Reference Panel of Worldwide Diverse Inbred Lines of Faba Bean (*Vicia faba* L.). In International Food Legumes Research Conference (IFLRC VI) and 7th International Conference on Legume Genetics and Genomics (ICLGG VII) 8, 9, 10, 11 Juillet 2014, Saskatoon, Saskatchewan Canada.
- Wiem Ben Hassine, Hanen Sbei, Mustapha Rouissi, **Khalil Khamassi** (2017). Effect of salt stress on germination and seedling of *Vicia faba* L., Juillet. 1st Tunisian-South African Workshop Genetics and Omics for Studying Abiotic Stress Responses in Forage Crops », CBBC, Tunisia, DOI: 10.13140/RG.2.2.11209.24160
- **Khalil Khamassi**, Mohamed B. Ali, Marwan Diapari, Faysal Ben Jeddi, Donal M. O'Sullivan(2014) Comparison of Genetic Structure and Diversity in a Combined Collection of Tunisian and a Reference Panel of Worldwide Diverse Inbred Lines of Faba Bean (*Vicia faba* L.). In International Food Legumes Research Conference (IFLRC VI) and 7th International Conference on Legume Genetics and Genomics (ICLGG VII) 8, 9, 10, 11 Juillet 2014, Saskatoon, Saskatchewan Canada.
- Amanda Cottage, Krystyna Gostkiewicz, Douglas Hobbs, **Khalil Khamassi**, Simon Kightley, Donal O'Sullivan, Jane Thomas, Anne Webb (2012). Why a NIAB TAG *Vicia faba* pre-breeding programme (NIAB open day 2012), Cambridge United Kingdom.

Member of a working group

- Member of the Thematic Working Group on Cereals and grain Legumes at the BNG National Genebank of Tunisia.
- Member of the working group on the development of a national strategy for leguminous seeds sector in the General Directorate for Crop Production (DGPA) within the Ministry of Agriculture and Water Resources.
- **Plant protection deposited for inscription:**
Co-breeder of two varieties of lentils:
one lentil Variety " Nebeur " FLIP2012-21L (ILL6129X III1005) filed on 27/11/2017 for inclusion in the official catalog of new varieties of plants.

Training and Outreach	
March 2016	Grain legumes open field demonstrations to Tunisian farmers, Tunisia
January 2016	Representing University of Saskatchewan, Crop development Center at The Western Canadian Crop Production Show , Saskatoon, Canada
2015	Representing University of Saskatchewan, Crop development Center at The Western Canadian Crop Production Show , Saskatoon, Canada