

Department of Agronomy Faculty of Agriculture Assiut University





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Personal Information
Date of Birth: December 05, 1978

Place of Birth: Assiut, Egypt

Citizenship: Egyptian

Gender: male

### Education

Texas A&M University
Ph.D. in Plant Breeding (wheat
breeding)
Assiut University
M.Sc. in Plant Breeding (corn
breeding)
Assiut University
B.Sc. in Agronomy

### **Employment History**

Assiut University, Egypt Head of Department of Agronomy

Assiut University, Egypt Department of Agronomy Professor

**Embassy of the Arab Republic of Egypt, Abu Dhabi, UAE** Cultural Attaché and Head of the Egyptian and Cultural and Educational Bureau

**Embassy of the Arab Republic of Egypt, Muscat, Sultanate of Oman** Acted as Cultural Attaché and Head of the Egyptian and Cultural and Educational Bureau College Station, TX, U.S.A. December 2010

Assiut, Egypt June 2003

Assiut, Egypt June 1999

July 2023-Present

July 2021 - Present

February 2020 – February 2022

August 2020 – February 2022





Göttingen University, Germany Department of Crop Sciences Division of Plant Breeding Georg Forster Research Fellowship (Alexander von Humboldt Foundation)	August 2017 – November 2017
Saskatchewan University, Canada Department of Plant Sciences Post-Doctoral Position	January 2014 – June 2014
Assiut University, Egypt Department of Agronomy Associate Professor	June 2016 – July 2021
Assiut University, Egypt Department of Agronomy Assistant Professor	Feb. 2011 – June 2016
Göttingen University, Germany Department of Crop Sciences Division of Plant Breeding Georg Forster Research Fellowship [Follow up research] (Alexander von Humboldt Foundation)	August 2012 – December 2013
Texas A&M University, USA Department of Soil and Crop Science	August 2007 – December 2010

### Accomplished Tasks

Ph.D. Graduate Student

- Enhanced the scientific and cultural relationships between Egypt and both UAE and Oman through my job as a Cultural Attaché in the Embassies of the Arab Republic of Egypt in both UAE and Oman. Managed and facilitated the collaboration ties between universities in Egypt and the UAE. Arranged and managed cultural events on different occasions in the Embassy of the Arab Republic of Egypt in Abu Dhabi, UAE.
- Participated in obtaining the quality assurance and accreditation from the national authority to ensure the quality of education and accreditation for the Faculty of Agriculture, Assiut University.

**Research Experiences and Achievements** 



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-My-research experience including working in international research groups in USA while I was pursuing my Ph.D. degree in Plant Breeding and in both Germany and Canada while I was working as a post-doctoral research fellow.

In addition, I led teamwork working in introducing and adopting the nutritional crop quinoa to Egypt by conducting a multi-location experiment across Egypt to investigate the adaptability and stability of quinoa. This step could open vistas to the adoption of an extraordinary crop in Egypt.

Furthermore, I led teamwork working in introducing and adopting quality protein maize (QPM) inbred lines to Egypt, in collaboration with Centro Internacional de Mejoramiento de Maíz y Trigo (CIMMYT) (a.k.a. International Maize and Wheat Improvement Center), Mexico, by conducting research on adaptability and combining ability of QPM inbred lines. This is a crucial step toward the production of commercial QPM hybrids in Egypt. Both quinoa and QPM are nutritional crops, which provide people under the poverty level in Egypt with cheap and sustainable sources of proteins, essential amino acids, vitamins, and minerals.

Moreover, due to scarcity of water along with heat events that hit Egypt during growing seasons of wheat and maize, a magnificent loss of yield has been reported. Therefore, both drought and global warming triggered me to develop heat and drought-tolerant wheat and maize lines in collaboration with CIMMYT. Therefore, I led teamwork to study adaptability and stability of wheat advanced breeding lines obtained from CIMMYT across diverse locations in Egypt.

Furthermore, I have conducted research on phytoremediation of highly contaminated soil with heavy metals.

## **Teaching Responsibilities**

"Using Statistical Software in Agricultural Research", "Biostatistics", "Experimental Design" "Seed Production", "Molecular Breeding", "Breeding for Abiotic Stress Tolerance", "Host- Plant-Resistance", "Scientific Writing" and "Fundamentals of Plant Breeding"

### Academic Supervision Responsibilities

Supervised 4 M.Sc. students and 1 Ph.D. student.

### Attended Training

Theorem Theorem		
Analytical and creative thinking in teaching	FLDC*	Assiut University, Egypt, 2019
Statistical analysis in scientific research	FLCD	Assiut University, Egypt, 2019
Design of electronic course	FLCD	Assiut University, Egypt, 2019
Activate electronic course	FLCD	Assiut University, Egypt, 2019
Technical aspects for design and accomplish research	FLCD	Assiut University, Egypt, 2019
Research and scholarship funding	FLCD	Assiut University, Egypt, 2019
Preparing Cultural Attachés	National Training Academy (NTA)	Sheikh Zayed City, Egypt, 2018





"Research Ethics"	FLDC	Assiut University, Egypt, 2015.
"Preparing leaders in the field of preventing and combating corruption"	Administrative Control Authority	Cairo, Egypt 2015.
"International Publishing of Research"	FLDC	Assiut University, Egypt, 2015.
"Quality Standards in Teaching I"	FLDC	Assiut University, Egypt, 2015.
"Strategic Planning"	FLDC	Assiut University, Egypt, 2015.
"Conference organization"	FLDC	Assiut University, Egypt, 2015.
"Legal and Financial Aspects in the University Environment"	FLDC	Assiut University, Egypt, 2015.

\*FLDC: Faculty and Leadership Development Center

### **Professional Skills**

Advanced skills in Microsoft Office - Statistical Software: SAS, and R

# Publications

#### **Research papers:**

Sun, M., Tong, J., Dong, Y., Pu, Z., Zheng, J., Zhang, Y., Zhang, X., Hao, C., Xu, X., Cao, Q., Rasheed, A., **Ali, M. B.**, Cao, S., Xia, X., He, Z., Ni, Z., Hao, Y. (2024). Genetic dissection of grain zinc and iron concentrations in wheat landrace Chinese Spring. Theoretical and Applied Genetics, *137*(7), 148. <u>View</u>

Sayed, M. A., **Ali, M. B.**, Bakry, A. B., El-Sadek, A. N., Léon, J. (2021). AB-QTL mapping of grain yield, heading date and their stability parameters in barley across multi-environmental trials in Egypt. Plant Breeding 140 (6), 1042-105 <u>View</u>

Faridi, R., Koopman, B., Schierholt, A., **Ali, M.B.**, Apel, S., Link, W. (2021). Genetic study of the resistance of faba bean (*Vicia faba*) against the fungus Ascochyta fabae through a genome-wide association analysis. Plant Breeding, Vol. 140(3): 442–452 <u>View</u>

Sayed, K.A., **Ali, M.B.**, Ibrahim, K.M., Kheiralla, K.A., El-Hifny, M.Z. (2020). Line × Tester analysis for yield and 100-grain weight under normal and water stress conditions in yellow maize (*Zea mays* L.) Assiut J. Agric. Sci. 51 (1), 1-25 <u>View</u>

Henian, M.M., Bakheit, B.R., Ali, M.B., El-Morshidy, M.A., Amro, A.M. (2020). Assessment of bread wheat genotypes under normal irrigation and water stress. Assiut J. Agric. Sci 51 (1), 42-65 <u>View</u>

Ali, M.B. (2020). Diallel analysis of maize inbreds for grain yield, protein and tryptophan content. Egypt. J. Agron. Vol. 42(1): 1-17 <u>View</u>

**Ali, M.B.,** Mahmoud, A.F. (2019). Half-diallel analysis of Fusarium head blight resistance in bread wheat (*Triticum aestivum* L.). Egypt. J. Agron. Vol. 41(3): 207-223 <u>View</u>





Ali, M.B. (2019). Combining Ability of Physiological and Yield Traits of Bread Wheat Diallel Crosses under Timely and Late Sowing Dates. Egypt. J. Agron. Vol. 41(2): 159-181. <u>View</u>

**Ali, M.B.,** Sayed, M.A. (2019). Stability Analyses and Heritability of a Doubled Haploid Population of Barley (*Hordeum vulgare* L.). Egypt. J. Agron. Vol. 41(1): 47-58. <u>View</u>

**Ali, M.B.,** Haridy, A.G., Mahmoud, A.F. (2019). Evaluation of faba bean genotypes for yield and resistance to Fusarium root rot under greenhouse and field conditions. Int. J. Biosci. 14(2), 374-385. View

Ali, M.B., Abbas, H.S. (2018). Genotype-by-environment interaction for seed yield per plant in faba bean: Comparison of different statistical approaches. Egypt. J. Plant Breed.

Ali, M.B., Elsadek A., Salem, E. (2018). Stability Parameters and AMMI Analysis of Quinoa (*Chenopodium quinoa* Willd.). Egypt. J. Agron. 40(1): 59-74. <u>View</u>

Ali, M.B., Salem, E.M.M., Sayed, M.A. (2017). Genetic Variability of Barley (*Hordeum vulgare* L.) Genotypes in Phytoremediation of Heavy Metals-Contaminated Soil. Egypt. J. Agron. 39(3): 383–399. <u>View</u>

Sayed, M.A., El-sadek, A.N., Bakry, A.B., **Ali, M.B.,** Leon, J., Salem, E.M. (2017). QTL analysis in Barley across Environments in Egypt. Egypt. J. Agron. 39(1): 53-70. <u>View</u>

Amri, B., Khamassi, K., **Ali, M.B.**, Teixeira da Silva, J. A., Ben Kaab, L. B. (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 Botany 106: 35-40. <u>View</u>

Webb, A., Cottage, A., Wood, T., Khamassi, K., Hobbs, D., Gostkiewicz, K., White, M., Khazaei, H., **Ali, M.**, Street, D., Duc, G., Stoddard, F., Maalouf, F., Ogbonnaya, F., Link, W., Thomas, J., O'Sullivan, D.M. (2016). A SNP-based consensus genetic map for synteny-based trait targeting in faba bean (*Vicia faba* L.). Plant Biotechnology Journal 14: 177–185. <u>View</u>

**Ali, M.B.**, El-Sadek, A.N. (2016). Evaluation of Drought Tolerance Indices for Wheat (*Triticum aestivum* L.) under Irrigated and Rainfed Conditions. Communications in Biometry and Crop Science. 11(1):77-89. <u>View</u>

Ali, M.B., Welna, G., Sallam, A., Martsch, R., Balko, C., Gebser, B., Sass, O., Link, W. (2015). Association analyses to genetically improve drought and freezing tolerance of faba bean (*Vicia faba* L.). Crop Science. 56(3):1036-1048. <u>View</u>

**Ali, M.B.**, El-Sadek, A.N., Sayed, M.A., Hassaan, M. (2015). AMMI Biplot Analysis of Genotype × Environment Interaction in Wheat in Egypt. Egypt. J. Plant Breed. 19(6):1889 – 1901.

Ali, M.B. (2015). Genetic Linkage Maps and Homology Study of Backcross Families of German Faba Bean (*Vicia faba* L.). Journal of Crop Improvement. 29(4): 474-490. doi: 10.1080/15427528.2015.1053012. <u>View</u>

Ali, M.B. (2015). Physiological Response of German Winter Faba Bean (*Vicia faba* L.) to Drought. Journal of Crop Improvement. 29(3): 319-332. doi:10.1080/15427528.2015.1022918. <u>View</u>





Khamassi, K., Makay, I.J., **Ali, M.B.**, Rezgui, S., O'sullivan, D., Jeddi, F. (2014). Agro-morphological variation and nutritional qualitative trait screening among field bean (*Vicia faba* L. Var minor). Legume Genomics and Genetics, 5 (3): 7-24. doi: 10.5376/lgg.2014.05.0003. <u>View</u>

**Ali, M.B.**, Ibrahim, A.M.H., Malla, S., Rudd, J., Hays, D. (2013). Family-based QTL mapping of heat stress tolerance in primitive tetraploid wheat (*Triticum turgidum* L.). Euphytica. 192(2): 189-203. doi: 10.1007/s10681-012-0824-8. <u>View</u>

Basnet, B.R., **Ali, M. B.**, Ibrahim, A.M.H., Payne T. and Mosaad, M. G. (2011). Evaluation of genetic bases and diversity of Egyptian wheat cultivars released during the last 50 years using coefficient of parentage. Commun. Biometry Crop Sci 6 (1): 31-47. <u>View</u>

Ali, M.B., Ibrahim, A. M., Hays, D.B., Ristic Z. and Fu, J. (2010). Wild tetraploid wheat (*Triticum turgidum* L.) response to heat stress. Journal of Crop Improvement 24:228-243. doi:10.1080/15427528. 2010.481523. <u>View</u>

### **Conferences:**

Ali, M.B., Welna, G, Sallam, A., Balko, C., Sass, O., Martsch, R., Link, W. (2014). Association analyses on frost and drought tolerance in German winter faba beans (*Vicia faba* L.). In Proc. GPZ, September, Kiel, Germany.

Khamassi, K, **Ali, M.B.**, Diapari, M., Jeddi, F., O'Sullivan, D.M. (2014) The use of KASPAR-SNP Marker to analyze the genetic structure and diversity of A Tunisian field bean (*Vicia faba* L. var minor) germoplasme collection in comparison to global genetic diversity and German frost and drought tolerant breeding lines. In Proc. IFLRC VI & ICLGG VII, July 7-11, Saskatoon, Canada.

**Ali, M.B.**, Vandenberg, A., Bett, K. (2014). Development and mapping of SNP markers associated with zt-1 and zt-2 genes controlling zero tannin in faba bean (*Vicia faba* L.). In Proc. IFLRC VI & ICLGG VII, July 7-11, Saskatoon, Canada.

**Ali, M.B.**, Welna, G, Sallam, A., Balko, C., Sass, O., Martsch, R., Link, W. (2014). Association analysis of abiotic stresses tolerance in winter faba bean (*Vicia faba* L.). In Proc. GPZ, February 11-13, Cologne, Germany.

Welna, G, **Ali, M.B.**, Link, W. (2013). Vorbereitung einer markergestützten Verbesserung der Trockenstresstoleranz bei der Ackerbohne. Gefördert durch das "Programm zur Innovationsförderung Pflanzenzüchtung "BMELV/BLE, November 06, Bonn, Germany.

O'Sullivan, D.M., Cottage, A., Webb, A., Wood, T., Khamassi, K., Hobbs, D., Gostkiewicz, K., White, M., Khazaei, H., **Ali, M.**, Febrer, M., Rogers, J., Duc, G., Stoddard, F., Maalouf, F., Ogbonnaya, F., Link, W., Smith, P., Thomas, J. (2013) A genomic toolkit for improvement of faba bean. In Proc. Building a new research alliance to reclaim Faba bean production area abandoned to Orobanche, October 7-9, Rabat, Morocco.





**Ali, M.B.**, Welna, G., Sallam, A., Balko, C., Sass, M., Martsch, R., and Link, W. (2013). Research on abiotic stress tolerance based on the Göttingen Winter Bean population. In Proc. Building a new research alliance to reclaim Faba bean production area abandoned to Orobanche, October 7-9, Rabat, Morocco.

**Ali, M.B.**, Welna, G., Sallam, A., Balko, C., Sass, O., Senbayram, M., Martsch, R., and Link, W. (2013). Breeding research for abiotic stresses tolerance in faba bean (*Vicia faba* L.). In Proc. The first legume society conference, May 9-11, 2013, Novi Sad, Serbia.

**Ali, M.B.**, Ibrahim, A.M.H., Malla, S., Rudd, J., Hays, D. (2012): Family-based QTL mapping of heat stress tolerance in primitive tetraploid wheat as a model. In Proc. The next generation plant breeding conference, November 12-14, 2012, Ede/Wageningen, The Netherlands. [Oral presentation].

Fu, J., Prasad V., Bowden R., Ibrahim A., Hays D., **Ali, M.B.**, and Ristic, Z. (2011): Genetic variations of yield-related traits in tetraploid wheat (*Triticum turgidum* L.) in heat stress conditions. In Proc. PAG meeting, January 15-19, 2011, San Diego, CA, USA.

**Ali, M.B.**, Ibrahim, A. M., Hays, D. B., and Ristic, Z. (2010): Response of Wild Tetraploid Wheat to Heat Stress. In Proc. Texas A&M AgriLife Conference, Jan. 11-15, 2010, College Station, TX, USA. [Poster]

**Ali, M.B.**, Ibrahim, A. M., Hays, D. B. and Ristic, Z. (2009): Response of Wild Tetraploid Wheat (*Triticum turgidum* L.) to Heat Stress. In Proc. ASA-CSSA-SSSA Annual meeting, Nov. 1-5, 2009, Pittsburgh, PA, USA. [Poster]

**Ali, M.B.**, Ibrahim, A.M., Hays, D. B. and Ristic, Z. (2008): Genetic Analysis of Heat Tolerance in *Triticum turgidum* L. In Proc. Texas Plant Protection Association Conferences (TPPA), Dec. 3-4, 2008, College Station, TX, USA. [Poster]

## References

Amir Ibrahim, Ph.D.

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Languages
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