# Curriculum Vitae

## Prof. Dr. Khaled F. M. Salem

## Present Address

Plant Biotechnology Department,
Genetic Engineering and Biotechnology Research Institute
(GEBRI), University of Sadat City,
Egypt.
E-mail:khaled.salem@gebri.usc.edu.eg
https://orcid.org/0000-0002-2673-4761

## Personal Information

**Name:** **Khaled F. M. Salem**
**Position:** **Professor**
**Nationality:** **Egyptian**
**Languages** **Arabic, English, German**

## Field of Specialization

**Molecular Plant Breeding and Genetics, "Plant Biotechnology"**

## Present Position

**1.** **Professor,** Biology Department, College of Science and Humanitarian studies, Shaqra University, Qwaieah 11971, Kingdom of Saudi Arabia**,**
2. **Professor,** Plant Biotechnology Department, Genetic Engineering and Biotechnology Research Institute (GEBRI), Menoufia University, Sadat City, Egypt.

## Higher Education

**1993:** **B. Sc.** with final general grade **"Excellent with a grade of honor"**, Menoufia University, Egypt.

**1994-1998:** **Master of Science, M. Sc. in Plant Breeding**, Menoufia University, Egypt.
**M. Sc. Thesis title: Breeding Studies on Rice (*Oryza sativa* L.).**

**2001-2004:** **Ph. D. student, Genebank Department,** Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany.
**Ph. D. (Plant Breeding and Genetics)**, Martin-Luther-University, Halle-Wittenberg, Germany.

**2004** **Doctor of Philosophy, Ph. D. (Plant Breeding and Genetics)**, Martin-Luther-University, Halle-Wittenberg, Germany.

## Employment Experiences " ACADEMIC APPOINTMENT"

1998: Demonstrator, Genetic Engineering and Biotechnology Research Institute, Menoufia University, Egypt.

1999-2004: Assistant lecturer, Genetic Engineering and Biotechnology Research Institute (GEBRI), Menoufia University, Egypt.

2005- 2010: Lecturer, Molecular Plant Breeding, Genetic Engineering and Biotechnology Research Institute (GEBRI), Menoufia University, Egypt.

2010-2016: Associate Professor, Plant Biotechnology Department, Genetic Engineering and Biotechnology Research Institute (GEBRI), Menoufia University, Egypt.

2016-till now Professor, Plant Biotechnology Department, Genetic Engineering and Biotechnology Research Institute (GEBRI), Menoufia University, Egypt.

2016-till now: Professor, Biology Department, College of Science and Humanitarian studies, Shaqra University, Qwaieah 11971, Saudi Arabia

## National Research Experiences

1. Rice Cultivation Training Course, 4th–16th Feb. 1995, RRTC, Sakha 33717, Sakha, Kafer El-Sheik., Agriculture Research Center, Giza, Egypt
2. Rice breeding and genetics program, hybridization program at the national rice research program, Sakha, Kafer El-Sheik., Agriculture Research Center, Giza, Egypt
3. Biotechnology and genetic engineering in industrial fungi and higher plants, 8-18 May 1999, Training course, Alexandria University, Egypt.
4. Plant Tissue Culture, Plant biotechnology Department, Genetic Engineering and Biotechnology Research Institute (GEBRI), Menoufia University, Egypt.
5. Responsible for teaching and research on used biotechnology and classical breeding methods for field crop breeding. Plant Biotechnology Department, Genetic Engineering and Biotechnology Research Institute (GEBRI), Menoufia University, Egypt.

## International Research Experiences

- **Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany (2001-2004)**

Molecular plant breeding "Mapping of genes/QTLs, Genetic Diversity "Genotyping Data", Using molecular genetic software, Abiotic stresses (Post-flowering drought tolerance, Phenotypic data,), Responsible for identifying traits for abiotic stress tolerance in field crops, developing a breeding program abiotic stress tolerance using traditional and modern one, developing evaluation methods for plant improvement using quantitative and molecular genetics" QTL analysis software (MAPMAKER\QTL, QGENE. Automated Sequencing, on gel-based. Cereal genomics, marker development, characterization, and validation. Cereal tissue culture and transformation.

- **Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany (2001-2004)**

Molecular marker techniques (SSRs, ESTs, AFLPs, SNPs) for mapping, tagging and map-based cloning of simple as well as quantitative traits

- **Ministry of Agriculture, Beijing, China, Egypt-China Program, (22 October to 4 November 2008)**

Corn cultivation technology for Africa, Corn breeding program in China and Genbank has visited, several lecturers in plant breeding, plant nutrition, plant physiology, corn breeding program, Responsible for identifying adaptive characteristics of corn to low nitrogen and drought, developing reliable screening indices for plant evaluation and plant improvement.

- **Ministry of Agriculture, Beijing, China, Egypt-China Program, (August 26 to September 8, 2009)**

Tropical crop production Technology for Africa, several tropical crop research institutes have visited in China, and several lecturers in plant breeding, plant nutrition, and plant physiology.

- **CIHEAM, Mediterranean Agronomic Institute of Zaragoza, Spain, ($12^{th}$-$16^{th}$ April 2010)**

Applications of Bioinformatics in Plant Breeding, have experience in DNA marker technology, software, Bioinformatics and plant breeding, and application bioinformatics in plant breeding.

- **CIMMYT International Maize and Wheat Improvement Center, El-Batan, Texcoco, Mexico, (December 5-10, 2010)**

Wheat Science to textbooks, I have experience in wheat breeding, a different scientist has several lectures on different backgrounds i.e., wheat breeding, wheat physiology, wheat grain quality, wheat pathology, wheat molecular markers, wheat transformation, and weeds.

- **Visiting Scientist,** "Global Wheat Program", **CIMMYT International Maize and Wheat Improvement Center, El-Batan, Texcoco, Mexico, (December 11-17, 2010)**

During this period I have visited different labs in wheat and corn programs.

- **ICGEB International Centre for Genetic Engineering and Biotechnology, Trieste, Italy (July 1-5, 2013)**

I have attended several lectures in the training course "Strategic Approaches in the evaluation of the science underpinning GMO regulatory-making" and the biosafety for GMO crops.

- **IARTC International Agricultural Research and Training Center, Menemen, Izmir, TURKEY (August 19-23, 2013)**

I have attended several lectures in the training course on Genbank management and biodiversity conservation. It gives experience on how to establish a Genbank and effective processor of the management.

## Training courses and workshops in Higher Education Quality (2014- 2022)

- Attended a workshop entitled: Self-evaluation requirements at Shaqra University, Saudi Arabia
  I have attended several lectures in the training course on Self-evaluation requirements at Shaqra University, Saudi Arabia. It gives experience on how to establish a Self-evaluation requirement.

- Attended a workshop entitled "Learning Outcomes, Shaqra University, Saudi Arabia

I have attended several lectures in the training course on Learning Outcomes at Shaqra University, Saudi Arabia. It gives experience on how to establish Learning Outcomes.

- Attended a workshop entitled "Learning Outcomes of Programs and Courses, Shaqra University, Saudi Arabia
- Attended a workshop entitled "Fundamentals and Quality Standards in Academic Programs, Shaqra University, Saudi Arabia
- Attended a workshop entitled "Program and Course Description, Shaqra University, Saudi Arabia
- Attended a workshop entitled "Strategic Planning, Shaqra University, Saudi Arabia
- Attended a workshop entitled "Quality Standards in Higher Education, Shaqra University, Saudi Arabia
- Attended a workshop entitled "Internal and External Review, Its Mechanisms, Report Preparation and Programs, Shaqra University, Saudi Arabia
- Attended a workshop entitled "Strategic Planning for Quality and Improvement Plans, Shaqra University, Saudi Arabia
- Attended a workshop entitled "Measuring Learning Outcomes, Shaqra University, Saudi Arabia

## Teaching Courses under-graduate students (2014- 2022)

| | | |
|---|---|---|
| **1.** Genetics | **2.** Plant physiology | 3. General botany |
| **4.** General microbiology | **5.** Molecular biology | 6. Tropical desert ecology |
| **7.** Metabolism | **8.** General entomology | 9. Graduation project (1) |
| **10.** Graduation project (2) | **11.** Scientific English (Terminology and report writing) | |

## Teaching Courses Post-graduate students i.e. Ph.D., M.Sc. and Diploma (2005- June 2022)

| | | |
|---|---|---|
| **1.** Diversity And Evolution Of Land Plants | **2.** Field Crop Biotechnology\ | **3.** Seminars |
| **4.** Genetics And Cytogenetics In Crops | **5.** Molecular Plant Breeding | **6.** Crop Breeding |
| **7.** Somaclonal plant Variation | **8.** Breeding Of Disease Resistant Plants | **9.** Seed biotechnology |
| **10.** Advanced Plant Breeding | **11.** Principle Of Molecular Biology | **12.** Mutation Breeding |
| **13.** Advanced Genetic | **14.** Methods of plant breeding | |
| **15.** Plant breeding for environmental stress | **16.** A practical approach in plant molecular biology | |
| **17.** Methods in molecular plant breeding | **18.** Fundamentals Of Plant Propagation And Micro-propagation | |
| **19.** Fundamental Of Plant Cell, Tissue And Organ Culture | **20**- GenBank | **21**- Special Topics |
| **22.** Field Crop Biotechnology2. | **23.**Database | |

## PROFESSIONAL ORGANIZATIONS AND DEVELOPMENT

1. Egyptian Society of Genetics
2. African Society for crop science
3. Egyptian Society of Plant Breeding

## Attend The Follwing Workshop

- **The EgyptianFarms in Africa. Egyptian Africa Forum in Agriculture "Seed Industry and Biotechnology", 24-26 July 2011, Cairo, Egypt,** Orbit line congress and events organization, Mophinbik Hotel, 6 October City, Cairo, Egypt.
- **Ministry of Agriculture, Beijing, China, Egypt-China Program, (22 October to 4 November 2008)**

Corn cultivation technology for Africa, Corn breeding program in China and Genbank has visited, several lecturers in plant breeding, plant nutrition, plant physiology, corn breeding program, Responsible for identifying adaptive characteristics of corn to low nitrogen and drought; developing reliable screening indices for plant evaluation and plant improvement;

- **Ministry of Agriculture, Beijing, China, Egypt-China Program, (August 26 to September 8, 2009)**

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- **CIHEAM, Mediterranean Agronomic Institute of Zaragoza, Spain, (12$^{th}$-16$^{th}$ April 2010)**

Applications of Bioinformatics in Plant Breeding, have experience in DNA marker technology, software, Bioinformatics and plant breeding, and application bioinformatics in plant breeding.

- **CIMMYT International Maize and Wheat Improvement Center, El-Batan, Texcoco, Mexico, (December 5-10, 2010)**

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- **IARTC International Agricultural Research and Training Center, Menemen, Izmir, TURKEY (August 19-23, 2013)**

I have attended several lectures in the training course on Genbank management and biodiversity conservation. It gives experience on how to establish a Genbank and effective processor of the management.

## Attend The Following Short TRAINING Courses

- First Rice cultivation training course, 4$^{th}$ Feb. –16$^{th}$ Feb. 1995, RRTC, Sakha 33717, Kafr El-Sheikh, Egypt
- Biotechnology And Genetic Engineering In Industrial Fungi and Higher Plants, 8-18 May 1999, Training course, Alexandria University, Egypt.
- January-Juni 2000: Goethe -Institute, Cairo, Egypt.
- January-May 2001: Goethe -Institute, Göttingen, Germany.
- Member of Organizing Committee for the International Workshop on. Plant Functional Genomics. Genetic Engineering & Biotechnology Research Institute, Sadat City, Menofia University, Egypt incorporation with Parco Tecnologico Padano, Milan University, Italy. January 21-26, 2006.

- Corn Cultivation Technology for Africa, 22 Oct. to 4 Nov. 2008, Training course, Beijing, China, Egypt-China Program, Chinese Government Fellowship.
- Tropical crop production Technology for Africa. The training course, August 26 to September 8, 2009, in Beijing, China, Egypt-China Program, Chinese Government Fellowship.
- Applications of Bioinformatics in Plant Breeding. **12th-16th** April 2010, **International Center for Advanced Mediterranean Agronomic Studies,** CIHEAM, Mediterranean Agronomic Institute of Zaragoza, Spain, Egypt-Spain Program, CIHEAM Fellowship.
- Wheat Science to textbooks workshop, December 5-10, 2010, CIMMYT, El-Batan, Texcoco, Mexico, CIMMYT Fellowship.
- Salem, K. F. M. 2010.Seminar delivered during "Wheat Science to textbooks workshop", December 5-10, 2010, CIMMYT, El-Batan, Texcoco, Mexico.
- Salem, K. F. M. 2010. Visiting scientists stay in the "Global Wheat Program", December 11-17, 2010, CIMMYT, El-Batan, Texcoco, Mexico, CIMMYT Fellowship.
- Strategic Approaches in the evaluation of the science underpinning GMO regulatory-making" 1-5 July 2013, Trieste, Italy, ICGEB, Italy, ICGEB Fellowship.
- 2nd INTERNATIONAL COURSE ON GENBANK MANAGEMENT AND BIODIVERSITY CONSERVATION, 19-23 August 2013, Menemen (Izmir), Turkey, Turkey Fellowship.

## Fellowships Awards

- Six months of Egyptian fellowship, German course, Goethe -Institute, Cairo, Egypt.
- Four months of Egyptian fellowship, German course, Goethe -Institute, Göttingen, Germany.
- Egyptian fellowship for study Ph. D in Germany for four years, Minister for Higher Education, Cairo, Egypt.
- Chinese Government Fellowship, attend a training course in corn Cultivation Technology for Africa, 22 Oct. to 4 Nov. 2008, Beijing, China.
- Chinese Government Fellowship, attend training course in Tropical crop production Technology for Africa, 22 Oct. to 4 Nov. 2008, Beijing, China.
- CIHEAM Fellowship attends a training course **on** Applications of Bioinformatics in Plant Breeding. **12th-16th** April 2010**,** CIHEAM, Zaragoza, Spain.
- CIMMYT Fellowship attends the Wheat Science to textbooks workshop, CIMMYT, El-Batan, Texcoco, Mexico.
- CIMMYT Fellowship as Visiting scientist stays in "Global Wheat Program", CIMMYT, El-Batan, Texcoco, Mexico.
- ICGEB Fellowship to attend a training course on Strategic Approaches in the evaluation of the science underpinning GMO regulatory-making" Trieste, Italy, ICGEB, Italy.
- Turkey Government Fellowship, to attend 2nd INTERNATIONAL COURSE ON GENBANK MANAGEMENT AND BIODIVERSITY CONSERVATION, Menemen (Izmir), Turkey, Turkey Fellowship.

## Reviewer of different scientific Journal

- Agriculture MDPI
- Analele Universitatii din Oradea ‹Fascicula Biologie
- Annals of Agricultural Sciences
- Applied Sciences MDPI
- Arabian Journal of Scientific Research
- Archives of Agronomy and Soil Science
- Biochemical Genetics
- Bulletin of the National Research Centre
- Bulletin of the National Research Centre
- Computers and Electronics in Agriculture Journal
- Crop Breeding and Applied Biotechnology

- Current Plant Biology Journal
- Euphytica
- Fascicula Biologie (AUOFB)
- Genetic Engineering and Biotechnology
- Genetic Resource and Crp Evolution
- Genes MDPI
- Genetika
- Heliyon
- Journal of Agriculture and Food Research
- Journal of Cereal Science
- Journal of Genetic Engineering and Biotechnology
- Journal of Plant Interactions
- Molecules MDPI
- New Valley Journal of Agricultural Science
- Notulae Botanicae Horti Agrobotanici Cluj-Napoca
- Pakistan Journal of Agricultural Sciences
- South African Journal of Botany

## Participate in the following national and international conferences

**Salem K. F. M.** and A. Börner. (2003). Evaluation of wheat accessions from Gatersleben Genebank for post-anthesis drought tolerance in field. **In: Gesellschaft für Pflanzenzüchtung, GPZ-Tagung, Vortragsveranstaltung zum Thema: "Abiotischer Streß – Herausforderung für die Pflanzenzüchtung'', 11-12 Juni 2003, Groß Lüsewitz, Germany.**

**Salem K. F. M.**; Marion Röder and A. Börner. (2003). Mapping of quantitative trait loci (QTLs) for post-anthesis drought tolerance in bread wheat (*Triticum aestivum* L.). (2003). **In: Gesellschaft für Pflanzenzüchtung, GPZ-Tagung, 11. Vortragsveranstaltung "Harnessing Genetic Diversity: Genomics and Allele Mining''., 16-17.09.2003, Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK), Gatersleben, Germany.**

**Salem K. F. M.**; Marion Röder and A. Börner. (2004). Molecular mapping of quantitative trait loci (QTLs) determining post-anthesis drought tolerance in hexaploid wheat (*Triticum aestivum* L.). **In: 7 Gesellschaft für Pflanzenzüchtung, GPZ-Tagung, Vortragsveranstaltung zum Thema: " Klimatische und edaphische Sortenanpassung und Züchtung für Nachwachsende Rohstoffe''. 3-5 March 2004, Halle/Saale, Germany. Vort Pflanzenzüchtung 64: 21-24.**

**Salem K. F. M.** and A. Börner. (2004). Post-anthesis drought tolerance in genus *Triticum.* **In: Botanikertagung, 5-10 September 2004, Braunschweig, Germany.**

**Salem, K.F.M.,** M.S. Röder & A. Börner. 2007. Cleaved amplified polymorphic sequence (CAPS) screening of the thermostable alleles of *ß*-amylase gene in Egyptian barley. **EWAC, Turkey, 6 -10/05/ 2007.**

**Salem, K. F. M**., M.S. Röder & A. Börner. 2007. Evaluation of some barley varieties for the presence of thermostable alleles of *ß*-amylase. **8th African Crop Science Society Conference, 27- 31 October 2007- El-Minia, Egypt**

**Salem K. F. M.**, R. K. Varshney, M. S. Röder and A. Börner. 2008. Detection of Genetic Diversity in Egyptian Barley Genotypes using Barley Expressed Sequence Tag-SSR markers. In: 10th International Barley Genetics Symposium (IBGS), Alexandria, Egypt 5-10 April 2008. The International Center for Agricultural Research in the Dry Areas (ICARDA) and the Bibliotheca Alexandrina, Alexandria, Egypt.

**R. M. Esmail, K. F. M. Salem and A. M. El-Zanaty. 2009.** Genetic Diversity Studies Of Egyptian Cotton (*Gossypium barbadense* L.) Varieties Using RAPD Markers And Agronomic

Traits. 6th Egyptian Plant Society of breeding Conference, 4-7 May 2009, Ismalia, Egypt

**Abdelmoaty El-Abd and K. F. M. Salem.** 2009. Detection of genetic diversity in rice (*Oryza sativa* L.) Varieties using Microsatellite DNA-Markers and Quantitative traits. 6th Egyptian Plant Society of breeding Conference, 4-7 May 2009, Ismalia, Egypt

Borner, A., S. Landjeva, **K.F.M. Salem** und U. Lohwasser. **2009**. Pflanzengenetische Ressourcen als Grundlage für die Züchtung klimatoleranter Sorten. Proceedings of a German Conference 'Weizenforum = Wheat Forum' Norddeutsches Weizenforum Schriftenreihe des Inst. Für Pflanzenbau und –züchtung der CAU Kiel, Germany, 63, 23-27.

Börner, A., S. Landjeva, K. F. M. Salem, B. KOBILJSKI & K. NEUMANN. (2010). Plant genetic resources- a prerequisite for drouhgt tolerance breeding in wheat. Tagungsband 60. Tagung der Vereinigung Pflanzenzüchter und Saatgutkaufleute Österreichs, Gumpenstein, Österreich, 24.-26. November 2009.

**El-Absawy, E. A., K.F.M. Salem, K. F. Abdellatif and H. ElShamy. 2012.** Estimation of genetic diversity among some Egyptian barley (*Hordeum vulgare* L.) cultivars using RAPD markers and agronomic traits. 1st International Conference On Biotechnology Applications In Agriculture, Moshtohor-Hurghada, 18-22 February 2012, Faculty of Agriculture, Benha University, Egypt.

**El-Zanaty, A.M., K.F.M. Salem, M. Ismail and R.M. Esmail. 2012.** Genetic shift in some Egyptian cotton (*Gossypium barbadense* L. ) Varieties released from 1920 to 1998 as revealed by RAPD markers. 1st International Conference On Biotechnology Applications In Agriculture, Moshtohor-Hurghada, 18-22 February 2012, Faculty of Agriculture, Benha University, Egypt.

**K.F.M. Salem and M. Z. Mattar. 2012**. The Use of Simple Sequence Repeats For Detecting Genetic Diversity and Differentiation In Egyptian and Exotic Rice **(*Oryza sativa L.*)** Subspecies. 13th Egyptian Agronomy Society of Conference in Cooperation with Faculty of Agriculture, Moshtoher, Bahna University, Egypt, 6-7 September 2012

Emara, H. A., **Khaled F. M. Salem**, Ahmed A. Abd El-Halim and Ramy N. F. Abd El-Kowy. 2013. An *in vivo* and *in vitro* traits analysis of a diallel cross in rice (*Oryza sativa L.*). In press. 8th Egyptian Plant Society of breeding Conference, 6-7 May 2013, Faculty of Agriculture, Kafer El-Sheik, Egypt.

## Publications

**1997**

**Salem K. F. M.** (1997). Breeding studies on rice (*Oryza sativa* L.). M. Sc. Thesis. Faculty of Agriculture, Minufiya University, Shibin El-Kom, Egypt.

**2003:**

**Salem K. F. M.** and A. Börner. (2003). Evaluation of wheat accessions from Gatersleben Genebank for post-anthesis drought tolerance in field. **In: Gesellschaft für Pflanzenzüchtung, GPZ-Tagung, Vortragsveranstaltung zum Thema: "Abiotischer Streß – Herausforderung für die Pflanzenzüchtung'', 11-12 Juni 2003, Groß Lüsewitz, Germany.**

**Salem K. F. M.**; Marion Röder and A. Börner. (2003). Mapping of quantitative trait loci (QTLs) for post-anthesis drought tolerance in bread wheat (*Triticum aestivum* L.). (2003). **In: Gesellschaft für Pflanzenzüchtung, GPZ-Tagung, 11. Vortragsveranstaltung "Harnessing Genetic Diversity: Genomics and Allele Mining''., 16-17.09.2003, Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK), Gatersleben, Germany.**

**2004:**

**Salem K. F. M.**; Marion Röder and A. Börner. (2004). Molecular mapping of quantitative trait loci (QTLs) determining post-anthesis drought tolerance in hexaploid wheat (*Triticum aestivum* L.). **In: 7 Gesellschaft für Pflanzenzüchtung, GPZ-Tagung,**

**Vortragsveranstaltung zum Thema: " Klimatische und edaphische Sortenanpassung und Züchtung für Nachwachsende Rohstoffe''. 3-5 March 2004, Halle/Saale, Germany. Vort Pflanzenzüchtung 64: 21-24.**

**Salem K. F. M.** and A. Börner. (2004). Post-anthesis drought tolerance in genus *Triticum.* **In: Botanikertagung, 5-10 September 2004, Braunschweig, Germany.**

**Salem K. F. M.** (2004). The Inheritance and Molecular Mapping of Genes for Post-anthesis Drought Tolerance (PADT) in Wheat". **Martin-Luther-University, Halle-Wittenberg, Germany. 124 pp.**

**Salem K. F. M.,** M.S. Röder & A. Börner. 2004. Drought tolerance in wheat germplasm- Evaluation and molecular mapping. **In: Institut für Pflanzengenetik und Kulturpflanzenforschung, IPK Tagung, 22-24/08/2004, Ag Ressourcengenetik und Reproduktion, Abteilung Genbank, Gatersleben, Germany.**

**2007:**

**Salem K. F. M.**, M.S. Röder & A. Börner. 2007. Identification and mapping quantitative trait loci for stem reserve mobilisation in wheat (*Triticum aestivum* L.). **Cereal Research Common. 35: 1367-1374.**

**Salem, K. F. M**., M.S. Röder & A. Börner. 2007. Evaluation of some barley varieties for the presence of thermostable alleles of *ß*-amylase. **8th African Crop Science Society Conference, 27- 31 October 2007- El-Minia, Egypt**

**2008:**

Varshney R. K., **Salem, K. F. M**., M. S Röder, A. Graner and A. Börner. 2008. Assessment and comparison of genetic diversity in barley germplasm collection using gSSR, eSSR and SNP markers. **Plant Genet Res, 6: 167-174.**

**Salem, K. F. M.**, *A.M. El-Zanaty and R.M. Esmail*. 2008. Assessing Wheat (*Triticum aestivum* L.) Genetic Diversity Using Morphological Characters and Microsatellite Markers. World J. of Agric. Sci. 4 (5): 538-544.

**Salem K. F. M.**, R. K. Varshney, M. S. Röder and A. Börner. 2008. Detection of Genetic Diversity in Egyptian Barley Genotypes using Barley Expressed Sequence Tag-SSR markers. In: 10th International Barley Genetics Symposium (IBGS), Alexandria, Egypt 5-10 April 2008. The International Center for Agricultural Research in the Dry Areas (ICARDA) and the Bibliotheca Alexandrina, Alexandria, Egypt.

**2009:**

**Esmail, R. M., K. F. M. Salem and A. M. El-Zanaty. 2009.** Genetic Diversity Studies Of Egyptian Cotton (*Gossypium barbadense* L.) Varieties Using RAPD Markers And Agronomic Traits. 6th Egyptian Plant Society of breeding Conference, 4-7 May 2009, Ismalia, Egypt

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**Salem K. F. M.** and M. Z. Mattar. **2009.** Allelic detection at the microsatellite *XGwm261* locus linked to the *Rht8* dwarfing gene in wheat. Egypt. J. Biotechnol, 32: 226-235

Borner, A., S. Landjeva, **K.F.M. Salem** und U. Lohwasser. **2009**. Pflanzengenetische Ressourcen als Grundlage für die Züchtung klimatoleranter Sorten. Proceedings of a German Conference 'Weizenforum = Wheat Forum' Norddeutsches Weizenforum Schriftenreihe des Inst. Für Pflanzenbau und –züchtung der CAU Kiel, Germany, 63, 23-27.

**Salem, K.F.M.** Relationship between genetic diversity based on SSRs markers with heterosis and combining ability in diallel cross of bread wheat (*Triticum aestivum* L.). Minufiya J. Agric. Res. **٣٤ (٦)**: 2159-2178.

**2010**

**Salem K. F. M.,** R. K. Varshney, M. S. Röder and A. Börner. **(2010).** EST-SSR based estimates on functional genetic variation in a barley (*Hordeum vulgare* L.) collection from Egypt. **Genet Resource Crop Evol. 57 (4):** 515-521.

Börner, A., S. Landjeva, **K. F. M. Salem**, B. KOBILJSKI & K. NEUMANN. (2010). Plant genetic resources- a prerequisite for drought tolerance breeding in wheat. Tagungsband 60. Tagung der Vereinigung Pflanzenzüchter und Saatgutkaufleute Österreichs, Gumpenstein, Österreich, 24.-26. November 2009.

**2011**

**Emara, H.A., A.A. Nower, K.F.M. Salem and S. S. M. EL-Taher. (2011).** Estimating heterosis and combining ability for *in vivo* and *in vitro* traits using diallel cross in Maize (*Zea mays L).* J. productivity and development 16: 101-120.

**2012**

**El-Absawy, E. A., K.F.M. Salem, K. F. Abdellatif and H. ElShamy. 2012.** Estimation of genetic diversity among some Egyptian barley (*Hordeum vulgare* L.) cultivars using RAPD markers and agronomic traits. 1st International Conference On Biotechnology Applications In Agriculture, Moshtohor-Hurghada, 18-22 February 2012, Faculty of Agriculture, Benha University, Egypt.

**2013**

Emara, H. A., **Khaled F. M. Salem**, Ahmed A. Abdel-Halim and Ramy N. F. Abd El-Kowy. (2013). An *in vivo* and *in vitro* traits analysis of a diallel cross in rice (*Oryza sativa L.*). Egyptian Journal of Plant Breeding: 17:(2):591-610.

Ismail, M. **K.F.M. Salem**, El-Zanaty, A.M. and R.M. Esmail. 2013. Association mapping of fiber and agronomic characters in Egyptian cotton (*Gossypium barbadense* L.) genotypes. J. Agric. Chem. And Biotechn., Mansoura Univ. 4: 205-216.

El-Zanaty, A.M., **K.F.M. Salem**, M. Ismail and R.M. Esmail. 2013. Impact of plant breeding on genetic diversity of the Egyptian cotton (*Gossypium barbadense* L.) varieties as revealed by RAPD markers. J. Agric. Chem. And Biotechn., Mansoura Univ. 4: 217-227.

The genetic diversity and relatedness of rice (Oryza sativa L.) cultivars as revealed by AFLP and SSRs. Life Science, 10: 1471-1479, (2013).

**2014**

Mohamed F. M. Salem, **Khaled F.M. Salem**, Emily T. Hanna, Noura E. Nouh. (2014). Effect of Nutrient Sources and Environmental Factors on the Biomass Production of Oyster Mushroom (*Pleurotus Ostreatus*). Journal of Chemical, Biological and Physical Sciences 2249 –1929.

**Salem K. F. M.** and M Matter. (2014). Identification of microsatellite alleles for salt tolerance at seedling stage in wheat (*Triticum aestivum* L.). Life Science Journal 11(12s): 1064-1073.

**2015**

El-Absawy, E. A., A. A. Nowar, **K. F. M. Salem**, F. A. Feky and Engy Edward (**2015**). ESTIMATION OF GENETIC DIVERSITY AMONG SOME BREAD WHEAT (*Triticum aestivum* L.) GENOTYPES USING MOLECULAR MARKERS AND AGRONOMIC TRAITS. *Minufiya J. Agric. Res. 40( 3):223–233.*

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**2022**

Shamseldeen Eltaher, Ahmed Sallam, Hamdy A. Emara, Ahmed A. Nower, **Khaled F. M. Salem**, Andreas Börner, P. Stephen Baenziger, Amira M. I. Mourad (2022) Genome-wide association mapping revealed SNP alleles associated with spike traits in wheat. Agronomy 12:1469.https://doi.org/10.3390/agronomy12061469

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## Training Course Organiation

- **Organizer, Trainer and Speaker in the workshop under the title: Application of DNA Markers in Plant Breeding, held at Department of Plant Biotechnology, Genetic Engineering and Biotechnology Research Institute (GEBRI), Sadat City, Menoufia University, Egypt. From 16$^{th}$-18$^{th}$ December 2012**

- **Organizer, Triner and Speaker in the workshop under the title: Assessing of Genetic Diversity in Plant Using Microsatellite Markers, held at Department of Plant**

**Biotechnology, Genetic Engineering and Biotechnology Research Institute (GEBRI), Sadat City, Menoufia University, Egypt. From 20-22 May 2013**

## M. Sc. Thesis Finished under my Supervision

1- El-Taher, S. S. M. 2011. Biotechnological Studies on Maize (*Zea mays* L.). M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.112pp.

2- El-Shamy, Hamdy G. M. 2012. Genetic and Biotechnological Studies on Barley (*Hordeum vulgare* L.). M. Sc. In Genetic Engineering and Biotechnology "Plant Cell, Tissue and Organ Culture" Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.112pp.

**3- Abdelkawy, R. N. F. 2013.** Biotechnological Studies on Rice (*Oryza sativa* L.). M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

4- Asmaa H. A. Elgendy. 2014. Biotechnological Studies On Common Chicory (*Cichorium Intybus* L.). M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

5- Engy E. F. Hanna. 2015. Assessing Genetic Diversity of Wheat Genotypes Using Morphological and Molecular Markers. M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

5-**Tahoon, M. H. A. 2015.** Biotechnological Studies on Tomato. M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

**6- Hend Nawara, B.Sc. 2016. Prediction of heterosis and combining ability in bread wheat using tissue culture.** M. Sc. In "Plant Breeding", Plant Department, Faculty of Science, Minufiya University, Egypt.

## M. Sc. Thesis not Finished under my Supervision

1- **Abdelmaksod, H. H. 2008- till now.** Biotechnological Studies on Field Crops. M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.
2- **Mr. Hassan, A. A. B. 2009-till now. Breeding Studies On Tomato For Nematode Resistance Through Biotechnological Studies.** M. Sc. In Genetic Engineering and Biotechnology "Horticulture Crops Biotechnology" Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt**.**
3- **Isac, A. F. 2010-till now.** Breeding studies on wheat for drought tolerance. M. Sc. In Crop Science "Plant Breeding", Faculty of Agriculture, Minufiya University, Egypt.
4- **Hanaa, A. M. 2010-till now.** Breeding studies on wheat for Nitrogen Efficiency. M. Sc. In Crop Science "Plant Breeding", Faculty of Agriculture, Minufiya University, Egypt.
5- **Ismail, Ahmed. 2012-till now.** Breeding studies on wheat through Biotechnology. M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

6- **Elgendy, A. H. Abdalla. 2010 till now.** Biotechnological Studies On Common Chicory (*Cichorium Intybus* L.). M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology" Genetic Engineering and Biotechnology Research Institute (GEBRI), University of Sadat City, Egypt.

## Ph. D. Thesis not Finished under my Supervision

1- El-Taher, S. S. M. 2011. : **Molecular Studies on Tolerance of some Field Crops for Abiotic Stress**. Ph. D. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

2- **AbdelAall, M. 2012-till now.** Breeding Studies on Wheat (*Triticum aestivum* L.) through Biotechnology. Ph. D. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

3- **El-Shamy, Hamdy G. M. 2012. Molecular breeding for abiotic stress tolerance on barley (*Hordeum vulgare* L.).** Ph. D. In Genetic Engineering and Biotechnology "Plant Cell, Tissue and Organ Culture" Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

4- **Mrs. Hendawy, M. F. A. 2013. Molecular Breeding for some quantitative traits in common wheat (*Triticum aestivum* L.).** Ph. D. In Crop Science Department, "Plant Breeding" Faculty of Agriculture- Shebin El-Kom-, Minofiya University, Egypt.

## Ph. D. Thesis Finished under my Supervision

1- **Ayobe, Aboubakr. 2016.** Breeding Studies on Cereal crops through Biotechnology. Ph. D. In Genetic Engineering and Biotechnology "Field Crops Biotechnology", Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

2- **Hendawy, M. F. A. 2019.** Breeding for some quantitative traits in common wheat (*Triticum aestivum* L) using molecular marker technique. Ph. D. In Field crops, Crop Science Department, Minufiya University, Egypt.

3- Eltaher, S. S. E. M. Molecular studies on bread wheat (*Triticum aestivum* L.) for drought stress tolerance. Ph. D. In Genetic Engineering and Biotechnology "Field Crops Biotechnology", Genetic Engineering and Biotechnology Research Institute (GEBRI), University of Sadat City, Egypt.

4- **Abdelal, M. S. A. 2020.** Biotechnological Studies on Environmental Stress of Wheat (*Triticum aestivum* L.). Ph. D. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), University of Sadat City, Egypt.

## M. Sc. Thesis Approval committee for the following M. Sc. Thesis

**1-** El-Taher, S. S. M. 2011. Biotechnological Studies on Maize (*Zea mays* L.). M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.112pp.

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**3- Abdelkawy, R. N. F. 2013.** Biotechnological Studies on Rice (*Oryza sativa* L.). M. Sc. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt

4- **Hend Nawara, B.Sc. 2016.** Prediction of heterosis and combining ability in bread wheat using tissue culture. M. Sc. In "Plant Breeding", Plant Department, Faculty of Science, Minufiya University, Egypt.

## Ph. D. Thesis Approval committee for the following Ph. D. Thesis

1- **Ayobe, Aboubakr. 2016.** Breeding Studies on Cereal crops through Biotechnology. Ph. D. In Genetic Engineering and Biotechnology "Field Crops Biotechnology"Genetic Engineering and Biotechnology Research Institute (GEBRI), Minufiya University, Egypt.

## Attend the following programs in the Faculty and Leadership development project "Associate Professor Program"

- **Competing for Research Funds**
- **Communication Skills**
- **Research Ethics**
- **Conference Organization**
- **Strategic Planning**
- **-Legal and Financial Aspects in the University Environment**

## Attend the following programs in the Faculty and Leadership development project "Lecturer Program"

- **Research Methodology**
- **Code of Ethics**
- **Discussion Making & problem-Solving**
- **Curriculum Design**
- **Quality Assurance**
- **International Publishing of Scientific Research**

## Computer Skills, Attend the fellowing training Course "ICTP Program"

1- Windows, ICTP Unit, Minufiya University, Egypt.
2- Word, ICTP Unit, Minufiya University, Egypt.
3- Powerpoint, ICTP Unit, Minufiya University, Egypt.
4- Excel, ICTP Unit, Minufiya University, Egypt.

### Languages & Degree of Proficiency

| Speak | Write | Read | |
|---|---|---|---|
| Very Good | Very good | Very good | English |
| Very good | Very good | Very good | German |
| Mother tongue | Mother tongue | Mother tongue | Arabic |

- Institutional TOEFL test record. September/07/1998, AMIDEAST, Egypt.
- German Language Bestatigung. 2000. Grundstufe III, 19/04/2000-04/07/2000. Goethe-Institut, P. o. Box 7, Mohamed Farid 11518, Cairo.
- German Language Bestatigung. 2000. Grundstufe III, 19/04/2000-04/07/2000.