

CURRICULUM VITAE

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Education

B.Sc. 1993, Agriculture Science (Major Horticulture/Vegetables), Assiut Univ., Egypt.

M.Sc. 1998, Vegetable Breeding, Assiut Univ., Egypt.

Ph.D. 2004, Molecular Genetics, a joint Ph.D. program between Assiut Univ. and the Federal Center for Breeding Research in Cultivated Plants, Germany

Current Professional Position:

Associate Prof. of Plant Biotechnology, College of meteorology, Environment and Arid Land Agriculture, King Abdulaziz University, Saudi Arabia

Scientific Qualifications

- 1- BSc, Agriculture (Vegetable Crops), June 1993, final grade “very good, honors.
- 2- MSc, Vegetable Crops, Horticulture Department, Faculty of Agriculture, University of Assiut. Thesis title “*Performance of faba bean (Vicia faba L.) genotypes in Orobanche infested soil*”.
- 3- Ph.D, (Molecular Genetics) March 2004, Cooperative Project between Horticulture department, Faculty of Agriculture, University of Assiut and the Federal Center for Breeding Research in Cultivated Plants, 06484 Quedlinburg, Germany. Dissertation title: “*Polymerase Chain Reaction (PCR)-Based Marker for the genome and Nematode Resistance QTL(s) in Raphanus sativus L.*”

Teaching Experience:

A- Selected Educational Activities

| No | Activity name | Place | Date | Year |
|----|--|---|--|------|
| 1 | Greenhouse Management and Technology Workshop | MUCIA Office, 7 Nad El Sad St., Dokki, Cairo, Egypt | 15-19 Aug | 2007 |
| 2 | First US Faculty Developing Program | Florida and Ohio Universities | March 20 th – May 1 st | 2005 |
| 3 | Teaching Methods and Curriculum Development | Le Meridien Hotel , Luxor, Egypt | 4 – 7, Jan | 2004 |
| 4 | Needs Assesment&Capacity Building Workshop | Assiut University, Assiut, Egypt | 14 Sept | 2004 |
| 5 | Teaching Methods and Curriculum Development Workshop | Assiut University Hotel, Assiut, Egypt | 10 – 11, Jan | 2005 |
| 6 | Principles of Horticultural Crops Propagation | Ghazala Hotel, Sharm El Shak, Egypt | 3 – 8 Aug | 2005 |
| 7 | Peer Evaluation and Review | Assiut University Hotel, Assiut, Egypt | 31 Dec | 2005 |
| 8 | Establishing Student Internship Program and Outstanding Teacher Academy Workshop | MUCIA Office, 7 Nad El Sad St., Dokki, Cairo, Egypt | 15, March | 2006 |
| 9 | Developing Work Plans: Assisting Farmer Groups in Upper Egypt to Improve Product Quality and Identify Market Opportunities | Ain Sokhna Resort, Cairo, Egypt | 23 - 25 | 2006 |
| 10 | Capacity Building Component professional Faculty Development Workshop | MUCIA Office, 7 Nad El Sad St., Dokki, Cairo, Egypt | 16 – 17 April | 2006 |
| 11 | Agricultural Technical Schools Capacity Building | Le Meridien Hotel Luxor | 11 – 12 July | 2006 |
| 12 | Agricultural Technical Schools Training of Trainers (TOT) Workshop | Ain Sokhna Resort, Cairo, Egypt | 24 – 27 July | 2006 |
| 13 | Agricultural Technical Schools Teaching Methods and Curriculum Development Workshop | Le Meridien Hotel Luxor, Luxor, Egypt | 30 -31 July | 2006 |
| 14 | Agricultural Technical Schools Teaching Methods and Curriculum Development Workshop | Le Meridien Hotel Luxor, Luxor, Egypt | 1 - 3 Aug | 2006 |
| 15 | Capstone Course | Etap Hotel, Minia, Egypt | 19 – 21 Nov | 2006 |

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| 16 | Agricultural Technical School Lesson Plans | Movenpick Hotel, Giza, Egypt | 23 – 27 Jan | 2007 |
| 17 | Strategic planning for Higher Agriculture Education | Ain Sokhna Resort, Cairo, Egypt | 14 – 16 March | 2007 |
| 18 | Developing Supervised Experience Programs for Agricultural Technical School Students | Le Meridien Hotel Luxor, Luxor, Egypt | 15 – 20 July | 2007 |

B- Teaching the following Courses

| No | Course name | Semester | Undergraduate | Graduate | Duration |
|----|--|---------------|----------------------|----------|------------------|
| 1 | Agriculture Economics and Extension | Winter/Summer | Free course | | 2 semester |
| 2 | Agricultural farms Management | Winter/Summer | Free course | | 2 semester |
| 1 | Production of Greenhouse vegetables | Autumn | 4 th year | | semester |
| 2 | Principles of Vegetable crops production | Autumn | 3 rd year | | Half semester |
| 3 | Principles of Vegetable crops breeding | Autumn | 3 rd year | | Half semester |
| 4 | Vegetable crops production | Autumn | 4 th year | | Half semester |
| 5 | Reproduction of Vegetables crops | Spring | 3 rd year | | Half semester |
| 6 | Principles of plant tissue culture | A/S | | X | Semester |
| 7 | Production of Vegetables Hybrids | A/S | | X | Semester |
| 8 | Statistical design and analysis of vegetable traits. | A/S | | X | Half semester |

Research Experience:

1-Experimental design and statistical analyses

2- Computer programs:

a-Win 98, Win XP, SAS, MSTAT, HG 4.0 and Office 2000, **b**-JOINMAP 3.0, MAPQTL 4.0 and MAPMAKER, **c**- Computer programs for publication, i.g. Power point 2000, Publisher 2.0.

3- Plant Tissue Culture

- a- Contribute effectively in establishment the horticulture department tissue culture lab, faculty of agriculture, Assiut university.
- b- Good background on tissue culture techniques i.e. Anther, pollen and ovule culture of cabbage, cucumber, onion and squash; Meristem culture of Potato; Bud culture of sweet potato.

4-Molecular Plant genetics

- a- Training course on using of the PCR-Based technology, National Research Center for Agriculture Science, Cairo, from 05 to 12/02/ 2000.
- b- Holding two years of experience in the Lab of biotechnology at the Federal Center for Breeding Research in Cultivated Plants, Germany.
- c- Good experiences in different PCR-Based marker techniques, i.g., RAPDs, AFLPs, dp-RAPD and SSRs.
- d- DNA isolation, quantification, purification techniques; PCR amplification; Gel electrophoresis and polyacrylamid gel electrophoreses; Gel Staining; Gel Documentation and data analysis.
- e- Working will with JoinMap 3&4, JoinMap QTL 3&4, Map Maker and Map Maker QTL software.
- f- Good experience to work with the hybridization-based markers, i.e. RFLPs, FISH and GISH.

Grants:

- 1- 2006 :USAID funded project in title: Agricultural Strategies For Enhancing Upper Egypt Farmer Associations (Fas) Exportation Of Green Beans. Grant value 87.000 LE
- 2- 2012: The Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (231 - 155 - 1432). “Double Haploid Homozygous Cabbage (*Brassica oleracea* var. *capitata*) Line(s) Derived From Anther Culture”.
- 3- 2012: The Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (229 - 155 - 1433). Project title “Towards Mapping Salinity Tolerance QTL(s) for Marker Assistent Selection (MAS) in Tomato”
- 4- 2012: The Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No (4 –155– D1433). Project title “In Vitro Nodal Segments of four Adapted Saudi genotypes of jojoba (*Simmondsia chinensis*)”

- 5- 2013: King Abdulaziz City for Science and Technology (KACST), grant no (0154-11) , Project title “Effect of Climatic Change on Genome Stability: Molecular and Physiological aspects”
- 6- 2013: The Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No (5-155- D1433). Project title: “Control of Doubling and Early Bolting Bulbs of Onion Genotypes by Sizes of Sets and Irrigation Systems”.

Journal Editor:

- 1- **Gene Technology**
- 2- **Bioinformatics publication**
- 3- **Journal of Crop Science**

Reviewer

- 1- International Journal of Genetic Engineering, Scientific and Academic Publishing
- 2- Australian Crop Science Journal
- 3- Pakistan Journal of Science
- 4- International Journal of Agriculture Science
- 5- African Journal of Microbiology Research
- 6- The International Journal of Agricultural Research (IJAPR)

Outreach Experience

- 1- Principle Technical Supervisor of several large scale farms for **production of protected vegetable** in the reclaimed area in Assuit
- 2- **Owning and managing** a newly reclaimed farm, in Assuit Governorate, specialized in vegetable crops production.
- 3- **Owning and managing** a newly established nursery for vegetable seedlings production.
- 4- **Member** of the MUCIA technical team for green bean production and post harvest technology.
- 5-**Trainer** in conducting Business plans for farmer associations, workshops provided and carried out by **CARE** Int. and **MUCIA** organizations.

6- **Trainer** in the **MUCIA** program focuses on Agricultural Technical Schools (ATSS) Capacity Building.

7- **Local Consultant**, for **Chemonics International** teaming with senior US experts, Winrock, Int. to provide advice, technical assistance, and guidance on the kinds and types of grant related projects Farmers associations suppose to apply for in Round 2.

8- **Local Consultant**, for **MUCIA** and **Care** teaming with senior US experts, Rutgers Univ., Natural products PFID and Lincoln Univ., to provide advice, technical assistance, and guidance on "Strengthening Post-Harvest Handling/Infrastructure to Expand The Exports of Herbs and Medicinal Crops from Upper Egypt.

9- Attend and participate in the Conference entitled: "**Regional Consultation on Linking Farmers to Markets: Lessons Learned and Successful Practices**" which was conducted during the period January 28 – February 2, 2006 at the Marriott Hotel in Cairo (Zamalek).

10- Attended the first Faculties Development Program (FDP1) in the USA which was organized by the Midwest Universities Consortium for International Activities (MUCIA) and was conducted in **Florida and Ohio State Universities from March 20th to May 1st, 2005.**

11- Developed a new course for the fourth year student in the faculty of agriculture, Assiut University under the title "**Production of the economical vegetables under sandy soil condition**".

12- Attended several workshops on **teaching learning and curriculum development, business plan development, Strategic planning, Establishing Internship program for agricultural students, Lesson planning and post harvest technology of horticultural crops**, which were organized by the MUCIA, AERI organizations.

Contribution to scientific organizations

- 1- Member of the Egyptian Society of Plant Breeding since April 2004
- 2- Member of the Assiut Journal of Agricultural Science since May 2004
- 3- Member of the Egyptian society of Genetic Engineering since 2003 until now

- 7- Member of the AERI institutional linkage project which is a cooperative project between the Agriculture colleges of Egyptian Universities and the Midwest Universities Consortium for International Activities (MUCIA) and University of Illinois (USA).

Published Books and Chapters

Genome Mapping of Radish (*Raphanus Sativus L.*) Using PCR-Based Markers: Constructing Radish (*Raphanus Sativus L.*) Genetic Map Using RAPD and AFLP Markers. LAP Lambert Academic Publishing (2012-07-11) pp 76.

Publication list:

1. Aboul-Naser, M.H. AND **M.A. Ahmed**.2000. in vitro anther culture of cucumber (*Cucumis sativus L.*). Horti Sci 35 (3): Abst 491.
2. **Ahmed, M. A., M.M.A. Abdalla, M.F. Mohamed and E.A. Waly**.2001. Performance of faba bean (*Vicia faba L.*) genotypes in *Orobanche* infested soil. Assiut J Agric. Sci., 32: 263-290.
3. **Mousa, M.A.A.**, H. Budahn and H. Peterka.2001. mapping of nematode resistance gene in *Raphanus sativus*. Tagung der AG Molekulare (4) gemeinsam mit dem Scientific Coordinating Committee (SCC) von GABI, 25-26 September, 2001(POSTER).
4. Kandel, N.M., M.A. Fouad, H. A. Mohamed, H. Budahn, H. Peterka and **M.A.A. Mousa**.2004. An intra-specific genetic linkage map of oil radish (*Raphanus sativus L.*) using random amplified polymorphic DNA (RAPD) markers. Proc of the Agric Develop in Arabic Countries Workshop, 20-22 January, 2004, 233-252.
5. **Mousa, M.A.A.**, D. Yunhua, H. Budahn and H. Peterka.2004. Genome mapping in *Raphanus sativus* and QTL analysis of nematode resistance. Tagung der AG Molekulare (4) gemeinsam mit dem Scientific Coordinating Committee (SCC) von GABI, 25-26 March, 2004 (POSTER).
6. Peterka, H., H. Budahn, N. M. Kandeel, M.A. Fouad, H. A. Mohamed and **M.A.A. Mousa**.2004 AFLP-based genetic linkage map of oil radish

- (*Raphanus sativus* L.). Proc 2sd Intar Conf Enviro Develop, Assiut Univ, 23-25 March, 2004, 13-26.
7. Mohamed, F. M., H. Budahn, N. M. Kandeel, M. H. Aboul Nasr **M. A. A. Mousa** and H. Peterka.2004. A COMBINED AFLP AND RAPD GENETIC LINKAGE MAP OF OIL RADISH (*Raphanus Sativus* L.). Egypt J Plant Breed, 8: 127-141.
 8. **Mousa M. A. A.**, N. M. Kandeel, M. F. Mohamed, M. H. Aboul Nasr , H. Budahn and H. Peterka.2004. MAPPING QTL(s) FOR RESISTANCE TO THE BEET CYST NEMATODE (*Heterodera schachtii* Schm.) IN RADISH (*Raphanus sativus* L.). Ass. Univ. Bull. Environ. Res., Vol. 7, No. 2, 1:17
 9. Mohamed, F. Mohamed, **M.A.A. Mousa**, N. M. Kandeel and M. H. Aboul Nasr.2004. THE GENETIC CONTROL OF RESISTANCE TO THE BEET CYST NEMATODE (*Heterodera schachtii* Schm.). Assiut Univ J Agric Sci, vol 35: 83-93.
 10. Peterka, H.; Budahn, H.; Schrader, O.; Zhang, S.; **Ahmed, M. A.** (2004) Nematode resistance in a disomic rapeseed-radish chromosome addition line. Genetic variation for plant breeding Vollmann, J.; Grausgruber, A.; Ruckenbauer, P. Vienna, Austria Page(s):333 17th EUCARPIA General Congress - Genetic variation for plant breeding Tulln, Österreich
 11. **Magdi A. A. M.**, M. F. Mohamed, M. H. Dokashi and E. F. E. Elnobi .2006. Growth, Competition and Yield Advantage in Okra/Cowpea Intercropping in Upper-Egypt. Proc 1st Intar Conf Food and Envior, Minia Univ, 23-25 Nov., 123-140.
 12. Mohamed, F. M., M. H. Dokashi, **M. A. A. Mousa**, and E. F. E. Elnobi.2006. Growth and Yield of Intercropped Okra (*Abelmoschus esculentus*) and Cucumber (*Cucumis sativus*). Proc 1st Intar Conf Food and Envior, Minia Univ, 23-25 Nov., 213-235.
 13. Budahn, H.; Peterka, H.; Schrader, O.; Zhang, S.; Li, J.; **Mousa, M.A.A.**; Schütze, W.; Krämer, R.; Rudloff, E. (2006) Chromosomal assignment of resistance and quality traits using a complete series of disomic rape-radish addition lines Proceedings 15th Crucifer Genetics Workshop: Brassica 2006 Wageningen, Netherlands. Page(s):47

14. **Magdi, A. A. M.**, M. F. Mohamed, M. H. Dokashi and E. F. E. Elnobi,2007. Intra-Row Intercropping of Cowpea and Cucumber with Okra as Influenced by Planting Date of Secondary Crops. Ass. Univ. Bull. Environ. Res., Vol. 10, No 1, 13-33.
15. Mohamed, F.M., M. H. Dokashi, M.A.A. Mousa anf E.F.E Elnobi.2007. Yield of crops in within-row intercropping okra-cowpea or okra-cucumber. Inter. J. Veg. Sci., 13(2): 33-48.
16. **Magdi A. A. M.** and M. F. Mohamed.2009. Enhanced Yield and Quality of Onion (*Allium Cepa* L. cv Giza 6) Produced using Organic Fertilizer. Bull. Environ. Res. 12(1): 9-19
17. H. Budahn, H. Peterka, **M.A.A. Mousa**, Y.H. Ding, S.S. Zhang and J.B. Li.2009. Molecular mapping in oil radish (*Raphanus sativus* L.) and QTL analysis of resistance against beet cyst nematode (*Heterodera schachtii*). Theor Appl Genet., 118: 775-782. (ISI)
18. **Magdi, A.A. Mousa.**2009. Effect of Zinc Plus Manganese Foliar Application on Potato Performance and Quality. Assiut Univ J Agric Sci., 40(1): 41-55.
19. **Magdi A. A. M.**, S. A. Abdelaal, G. I. Shalaby, G. H. Abdel-Raheem and N. A. Mohamed.2009. Growth and yield responses of dry and snap bean (*Phaseolus vulgaris* L.) cultivars to sowing dates in summer and fall under Assiut environments. Zagazeg J. Appl. Sci.,40(5): 109-129 .
20. **Magdi A.A. Mousa.**2009. Growth, yield components and yield of row intercropped okra-pepper as affected by row configuration. Zagazeg J. Appl. Sci., 40(5) 15-31.
21. Yaser, A. A. D., **M. A. A. Mousa** , D. F. Warnock , and D. E. Hahn. 2009. Opportunities for Producing Table Grapes in Egypt for the Export Market: A Decision Case Study. International Food and Agribusiness Management Review,12 (2), 57-71. (ISI)
22. **Magdi, A.A. M;** H. Abbas and A.G. Haredy.2012. Row configuration on Yield and Economics of Okra Intercropped with Eggplant. Int.J.Veg.Sci. vol18(4): 358-369.

23. **Magdi A. A. Mousa** and Hohgar Budahn.2012. Genetic behavior of resistance to the beet cyst nematode (*Heterodera schachtii* Schm) in radish (*Raphanus sativus* L.). AJMR Vol. 6(16): 3755-3760.(ISI)
 24. **Magdi A.A. M.**, Al-Qurashi AA and Bakhawain A. A. S. 2013. Response of tomato genotypes at early growing stages to irrigation water salinity. JFAE Vol 11. (2) – 132-138. (ISI)
 25. **Magdi A.A. M.**, Bakhawain A. A. S. and Shaheen M A 2013. Stimulation of Androgenesis in Cabbage (*Brassica oleracea* var *Capitata*) Anthers cultivated in Vitro by Growth Regulators and Medium Sucrose Concentration. The Journal of American Science Vol. 10 (2) 174-180. (ISI)
 26. **Magdi A.A. M.** and Bakhawain A. A. S.(2014). Genotypic and Growth Regulator Combination Effects on in vitro Nodal Segments of Jojoba (*Simmondsia chinensis* (Link). The life Science Journal, Vol 11(4):37-42 (ISI).
 27. Saleh M. Ismail and **Magdi A.A.Mousa**. 2014. Optimizing Tomato Productivity and Water Use Efficiency Using Water Regimes, Plant Density and Row Spacing Under Arid Land Conditions. Irrigation and Darning, 63: 640-650. (ISI).
 28. **Magdi A.A.Mousa**, Adel D. Al Qurashi and Ahmed A. Bakhawain. 2014. Ions Concentrations and Their ratios in Roots and shoots of Tomato Genotypes Associated with Salinity Tolerance at Early Growth Stage. International Journal of Plant, Animal and Environmental Sciences, 4(3):586-600.
- .29**
30. **Magdi A.A.Mousa**, Hassan. Abbas, Ashraf. G. Haredy and Mohammed F. Mohammed. 2013. Improved Androgenesis of Broccoli (*Brassica Oleracea* var *Italica*) Anthers Using Sucrose and Growth regulators.Asian Journal of Crop Science, 6(1): **1-9**
 31. **Magdi A.A.Mousa** . 2015.Control of Doubling and Early Bolting Bulbsof Onion Genotypes by Sizes of Sets and Irrigation Systems.2015. The life Science Journal, Vol 1(1) 61-74. (ISI).
 32. **Magdi A.A.Mousa**, Adel D. Al Qurashi and Ahmed A. Bakhawain. 2015. Performance of Cowpea (*Vigna unquiculat* L.) Cultivars Under

Water Deficit at Different Growth Stages and Arid Land Climates.
(Under submission).

33. Sayed Sartaj Sohrab¹, Muhammad Yasir, Sherif Ali El-Kafrawy, Hassan S.M. Al-Zahrani, **Magdi Ali Ahmed Mousa**, Ahmed A. Bakhashwain (2016). Phylogenetic relationships, recombination analysis and genetic variability of Tomato yellow leaf curl virus infecting tomato in Jeddah, Saudi Arabia. *POJ* 9(1):90-98.
34. Sayed Sartaj Sohrab¹, Muhammad Yasir, Sherif Ali El-Kafrawy, Hassan S.M. Al-Zahrani, **Magdi Ali Ahmed Mousa**, Ahmed A. Bakhashwain (2016). Association of tomato leaf curl Sudan virus with leaf curl disease of tomato in Jeddah, Saudi Arabia. *VirusDis* (Published online 04 March 2016).
35. Abdullah Ahmady, Magdi AA Mousa and Ahmed A Zaitoun. 2016. Effect of microwave radiation on *Tribolium confusum* Jaquelin du Val (Coleoptera: Tenebrionidae) and *Callosobruchus maculatus* (F.) (Coleoptera: Chrysomelidae: Bruchidae). *Journal of Entomology and Zoology Studies*, 4(4): 1257-1263.
36. Abdullah Ahmady, Magdi AA Mousa, Ahmed A Zaitoun. 2017. Efficacy of Some Botanical Oils against Stored-product Pest Cowpea Beetle, *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae). *International Journal of Zoology Studies*, 2(1): 05-09.
37. Abdullah Ahmady, Najibullah Rahmatzai, Zainullah Hazim, Magdi AA Mousa and Ahmed A Zaitoun. 2016. Effect of temperature on stored product pests *Tribolium confusum* Jaquelin du Val (Coleoptera: Tenebrionidae) and *Callosobruchus maculatus* (F.) (Coleoptera: Chrysomelidae: Bruchidae). *Journal of Entomology and Zoology Studies*, 4(6): 166-172.
38. Zainullah Hazim, Adel D. AL-Qurashi, Najibullah Rahmatzia, Abdullah Ahmady and Magdi A. A Mousa. 2016. VARIABILITY AND CHARACTERS ASSOCIATION IN INTER-SPECIFIC F2 TOMATO OPULATION (*Lycopersicon esculentum* L.). *International Journal of Advanced Research*, 4(11): 2353-2358.
39. Najibullah Rahmatzai, Ahmed A. Zaitoun, Mohamed Hussein Madkour, Abdullah Ahmady, Zainullah Hazim, Magdi A. A. Mousa. 2017. In vitro and in vivo antifungal activity of botanical oils against *Alternaria solani* causing early blight of tomato, *International Journal of Biosciences*, Vol. 10(1): 91-99.

40. Magdi Ali Ahmed Mousa and Adel Daif Allah Al-Qurashi. 2017. Sex ratio, growth and yield of Squash (*Cucubita pepo* L.) cultivars under stresses of different light regimes. *International Journal of Biosciences*, 10(2): 49-60.