

Agricultural Research Center
Field Crops Research Institute
Rice Research & Training Center.
Sakha – Kafr El-Sheikh



مركز البحوث الزراعية
معهد بحوث المحاصيل الحقلية
مركز البحوث و التدريب في الأرز
سكخا – كفر الشيخ

Curriculum Vitae

Name: Mohamed Mohamed Hassan El-Malky

Title: Professor of Genetics, Rice Research & Training Center (RRTC), Sakha, kafer El-Sheikh, Egypt

Date of birth: May, 16, 1965

Nationality: Egyptian

Marital status: Married current

Tel: +20473148110 +201066198273

Office: +20473223683

Fax Number: +20473225099

E-mail: mhalky@yahoo.com.

Education:

- Bachelor degree in genetics from Al-Azhar University in June 1988
- Master degree in genetics from Menufiya University in 1997 (Genetic studies on rice by using tissue culture technique)
- Ph.D. degree in genetics from Minufiya University in 2004 (Genetic studies on blast disease resistance in rice)

Training Courses:

- Training course for rice breeding and seed production at Rice Research & Training Centre (RRTC), Egypt 4th of April to 16th April, 1995.
- The Egyptian German cooperation laboratory course on plant biotechnology at Minoufiya University, Tissue Culture and Genetic Engineering Centre Sadat City, Egypt (Plant chromosome diagnostics) 19-29 March 1995.
- International Rice Science and Technology Training Course at the Rice Research Institute of HAAS. Shangsha, China (15th of April 24th July, 1995)

- Training in USA on biotechnology lab especially microsattalite, RAPD, STS and RFLP techniques at Davis University, California USA (15th of August 1999- 15th of January 2000)

- Training course for hybrid rice technology (breeding and seed production) at Rice Research & Training Centre (RRTC), Egypt cooperative with FAO from 28-8-2001 to 30-8-2001.

- Training Course on 'Biotechnology Tools for the Management of Biodiversity' 13-25 June 2005, Sokoine University of Agriculture, Morogoro, Tanzania

Field Experience:

Well experienced in conducting field and greenhouse experiments concerning rice breeding particularly and seed production for inbreed and hybrid rice production, also biotic and a biotic stress. Good in collecting data, analyzing and reporting, good in selecting in the field particularly in yield trials.

Laboratory Experience:

Highly experienced in hybridization and identify the purity seeds specially for seed breeder, nuclear seeds register and foundation seeds, tissue culture experiments (Callus induction from anther and somatic tissue and maintenance, plant regeneration and adaptation and transfer somaclones to the field) Good experience in molecular markers (RAPD, STS, RFLP and microsattalite techniques), with automated analysis using ABI systems, which were using in fingerprinting for seed rice varieties.

Last position:

Director and experience of Egyptian-Niger farm from 1-8-2009 to 1-4-2011

Foreign Language:

English is the first foreign language (very good reading, writing and speaking) and good using of computer.

Outreach activities:

1. Experience in the production of Nuclear, breeder, foundation and registered seeds in rice

2. To participate in the formulation and the implementation of the research program of the breeding and seed production

3. To participate in the produced and release Giza 177, 178, 179, 182, Sakha101. 102 Sakha 103, 104, 105, 106, Egyptian Jasmine as the inbreed varieties and Egyptian hybrid rice one as the hybrid rice.

3. Participation in the activities of the national campaign to promote rice crop in Egypt.
4. Participate in reviews bulletins special guided rice crop and manuals for workshops, held annually to discuss the results of the experiments.
5. The practical involvement and scientific envoys to train Africans in the Center for Research and Training in rice annually.
7. The lectures agricultural extension workers to applied the recommendations for research and training in rice.
8. Participate in public seminars national campaign to promote rice crop, which will be held in the governorates to discuss means of achieving better crop productivity.
9. Participate in the lectures theoretical training and practical training programs in agricultural workers, farmers, distinguished centers with regard to technical recommendations of items in rice.
10. An official Communication Research and Training Center in rice in a network research and extension.
11. Participate in training African International Center for Agriculture (AICA) on rice agriculture technology
12. Training students of the Faculty of Agriculture University of Abdul Momen in Niger

Publications:

- 1-Fahmi, A.I., I.R. Aidy., H.H. Nagaty and M.M. El-Malky (2005). Combining abilities and relationships among some Egyptian and exotic rice varieties. Egypt. J. Agric. Res., 83(5A).
- 2-El-Refae, I.S.; I.M. El-Rewainy, B.A. Zayed and M.M. El-Malky (2005). Physiological aspects of grain yield variation in short and medium duration cultivars of rice grown under submergence conditions. Alex J. Agric. Res. 50 (2B) 33-38.
- 3-Fahmi, A.I., I.R. Aidy., H.H. Nagaty and M.M. El-Malky (2005). Genetic diversity of short-Grrowth Duration Germplasm of Rice (*Oryza sativa* L.) as Reveald by RAPD and Microsatellite Markers. Egypt.J. Genet. Cytol., 34:29-49, January, 2005.
- 4- Nagaty, H. H., I.R. Aidy, M.M. El-Malky, and M.I. Sherif (2006). Inheritance of Major Genes for Rice Blast Resistance in Some Egyptian Varieties. IRRI Japan – JIRCAS collaborative workshop, Los Banos, Laguna, Philippines, August 2006.
- 5- Hammoud, S.A.A., M.M. El-Malky, S.A., Shehata, and A.B. Khatab (2006). Heterosis, Combining Ability and Cluster Analysis in Rice (*Oryza sativa* L.). First Field Crops Conference (2006), Egypt. 244- 261.
- 6- Shebl, S. M., S. M. Hassan, I. H. Abou El-Darag and M. M. El-Malky (2007). Evaluation of different rice genotypes for allelopathy under field condition. The Third Conf. of Sustain. Agric. Develop. Fac. of Agric., Fayoum Univ., 12-14 Nov., 2007: pp. 1-14
- 7- Shebl, S. M., I.H Abou El-Darag and M.M. El-Malky (2008). Biological performance of some allelopathic rice entries against Barnyardgrass (*Echinochloa crus-galli*) weed

- as integrated with weed control by herbicides on rice productivity. Egyptian Journal of Biological Pest Control, 18 (2), 2008, 319-324
- 8- **Hammoud S. A. A., R. A. S. EL-Shafey , S.E.M.Sedeek and M.M. H. EL-Malky (2009)**. Genetic analysis of some rice promising lines derived from cross (Giza 177 × HR 5824-B-3-2-3) for yield and its components and resistance to blast disease. 6th International Plant Breeding Conference, Ismailia, Egypt. 365-383.
 - 9- **El-Malky, M.M.; A. A. Omran and H. H. Nagaty (2008)**. Genetic analysis and selected lines for blast resistance (*Pyricularia oryzae*) in crosses between American and Egyptian rice varieties. J. Agric.Res. Kafer El-Sheikh Univ., 34(2)2008
 - 10- **El-Malky, M. M., H. H. Nagaty and S.A.A. Hammoud (2006)**.Quantitative inheritance of some important agronomic characters in rice cultivars (*Oryza sativa* L.). First Field Crops Conference (2006), Egypt. 126-136.
 - 11- **El-Malky, M. M, I. S. El-Refae and H. H. Nagaty (2006)**. Genetic behavior of some rice cultivars under different irrigation intervals. The First Field Crops Conference. First Field Crops Conference (2006), Egypt. 146- 155.
 - 12- **El-Malky, M. M., Fahmi A. I., and Kotb A. A (2007)**. Detection of genetic diversity using microsattelites in rice (*oryza sativa* l.) African Crop Science Conference Proceedings Vol 8.pp. 597-603.
 - 13- **Sehly, M. R.; S.M. El-Wahsh; M.M. El-Malky; E. A. S. Badr; R. A. S. El-Shafey and I.R. Aidy (2008)**. Evaluation of certain Egyptian rice cultivars to blast disease incidence during fourteen years in Egypt. *J. Agric. Sci. Mansoura Univ.*, 33 (4): 2533 - 2547, 2008
 - 14- **Kotb Attia; M. E. El-Denary; M.M. EL-Malky; F. A. Amr; M.H;Ammar, A. A. Emeran; and M. E. Wagih (2008)**. Ectopic Expression of a Gene Encoding *RRM2* Increases Grain Mass in Transgenic Rice. Egyptian. J. Genet. Cytol., 37: 153-162
 - 15- **El-Malky, M. M., M. M. El-Habashy and A. F. Abdelkhalik (2008)**. Rice germplasm evaluation for agronomic traits and their influence on stem borer (*chiloagamegnon* bles.) resistance. *J. Agric. Res., Lahore-Pakistan 2008*, 46(3)
 - 16- **Kotb A.Attia, A. F. Abdelkhalik, M.H. Ammar, M.M.El-Malky, R.A.El-Namaky and H.F.El-Mowafi (2009)**. Application of molecular markers in hybrid rice breeding. International Plant Breeding Conference, Ismailia, Egypt. 600-608
 - 17- **Shebl, S. M., IH Abou El-Darag and M.M. El-Malky (2008)**. Biological performance of some allelopathic rice entries against Barnyardgrass (*Echinochloa crus-galli*) weed as integrated with weed control by herbicides on rice productivity. Egyptian Journal of Biological Pest Control, 18 (2): 319-324
 - 18- **El-Malky¹, M.M.; A. A. Omran² and H. H. Nagaty³ (2008)**. Genetic analysis and selected lines for blast resistance (*Pyricularia oryzae*) in crosses between American and Egyptian rice varieties. J. Agric.Res. Kafer El-Sheikh Univ., 34(2)2008
 - 19- **Sehly, M. R.¹; S.M. El-Wahsh¹; M.M. El-Malky²; E. A. S. Badr¹; R. A. S. El-Shafey² and I.R. Aidy² (2008)**. Evaluation of certain Egyptian rice cultivars to blast disease incidence during fourteen years in Egypt. *J. Agric. Sci. Mansoura Univ.*, 33 (4): 2533 – 2547
 - 20- **Hammoud S. A. A., R. A. S. EL-Shafey , S.E.M.Sedeek and M.M. H. EL-Malky (2009)**. Genetic analysis of some rice promising lines derived from cross (Giza 177 × HR 5824-B-3-2-3) for yield and its components and resistance to blast disease. 6th International Plant Breeding Conference, Ismailia, Egypt. 365-383.
 - 21- **Kotb A.Attia, A. F. Abdelkhalik, M.H. Ammar, M.M.El-Malky, R.A.El-Namaky and H.F.El-Mowafi (2009)**. Application of molecular markers in hybrid rice breeding. International Plant Breeding Conference, Ismailia, Egypt. 600-608.
 - 22- **El-Shami, M.i.; El-Danasory, E.F.El-Hashash; E.I. Zaazaa; M.A. Hager; S.Elkhfafi and M.M.El-Malky (2009)**. Salt tolerance (STO), A stress-Related protein in Arabidopsis has a major roll under other stress conditions. *J. Agric. Sci. Mansoura Univ.*, 34 (10): 10103 – 10113

- 23- **Abd-Eltawab S. Barakat, Osama A.M. Rashwan, Reda M. Morsey and M. M. El-Malky (2011).** Effect of black rice flour on sponge cake quality. *Egyptian J. of Nutrition* 26 (4):177-195
- 24- **Metwally, T.F.; E.E.Gewaily; E.S.Naeem and M.M.El-Malky (2011).** Response of different promising rice genotypes to various nitrogen levels. *J. Agric. Sci. Mansoura Univ.*, 2 (43): 507 – 520
- 25- **El-Malky, M.M.; E.I.Zaazaa and G.B.Anis (2011).** Estimation of genetic components, heritability, and clustering analysis for some agronomic characters in rice. *Al-Azhar J.Agric. Res.*, (11) 109-124
- 26- **Metwally, T.F.; M.M. El-Malky; A.A.Glela and A.S.Gharieb (2012).** Performance of Elite Aromatic Rice Varieties under Different Sowing Dates under Egyptian Condition. *J. Agric. Sci. Mansoura Univ.*, 3 (2): 311 - 333.
- 27- **El-Malky, M.M. and S.A A. Hammoud (2012).** Utilization of diallel analysis crosses in developing elite promising lines of rice. *Egypt. J.Agric. Res.*, 90 (4): 163- 189
- 28- **El-Malky, M.M., M.M. El-Habashy, S.A.A. Hammoud and M.R. Sreif (2013).** Genetic studies of some rice varieties for rice stem borer (*Chilo agamemnon* Bles.) and agronomic characters under Egyptian condition. *Egypt. J. Plant breed* 17 (2): 196-212
- 29- **El-Malky, M.M., and R. M. Elamawi (2013).** Inheritance of some identified blast resistance genes and agronomic traits by utilization of Line x Tester analysis in rice (*Oryza sativa* L.). *J. Agric. Res. Kafr El-Sheikh Univ.*, 39 (4) : 532-568
- 30- **El-Malky, M. M., H. H. Nagaty., R.A.Eissa and A.I.A. El-Sherif (2014).** Genetic analysis of blast resistance in some Egyptian rice varieties using Monogenic Lines and molecular markers. *Munufiya J. Agric. Res.*, 39: 2(1): 605-619
- 31- **Metwally, T. F. ; S. A. A. Hammoud , M.M. H. EL-Malky and S.M. Bassiouni (2014).** Genetic variability and performance of some promising rice genotypes as affected by nitrogen fertilizer under salt stress condition. *Munufiya J. Agric. Res.*, 39:: 2(2): 685-702
- 32- **Metwally, T. F. ; Howwida; B.El-Habat; M.M. EL-Malky and A.S. Barakat (2014).** Comparative studies for grain yield, Grain quality, cooking quality and nutrition value traits of black rice variety. *J. Agric. Sci. Mansoura Univ.*, 5 (3): 401 – 414..
- 33- **El-Malky, M.M., and H.M. El-Zun (2014).** Genetic behavior of yield, grain quality, stem borer and storage insect infestation traits for some rice genotypes at different sowing dates. *J. Plant Production, Mansoura Univ.*, 5 (6): 917 - 935
- 34- **METWALLY,T.F. ; E.E. GEWAILY AND M.M. EL-MALKY (2014).** Influence of top leaf defoliation on growth and yield of rice under different sowing dates. *Field Crops Conference. Field Crops Conference (2014), Egypt.*
- 35- **El-Malky, M.M., I.H. Abou Eldarag and Ehab M.R. Metwali (2015).** Allelopathy, genetic parameters and cluster analysis of rice (*Oryza sativa* L.) *Alex J. Agric. Res.* 60 (3):139-149.
- 36- **El-Malky, M.M.,Ehab M.R. Metwali and H.M.Hassan (2015).** Blast population analysis to resistance genes through monogenic lines using Line x Tester analysis in rice (*Oryza sativa* L.). In press.