



## C.V

### **First:-Personal data**

**Name:** Almoataz Bellah Ali El-Mouhamady Hassan

**Date of birth:** 3/11/1978

**Religion:** Muslim

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**Date of Birth:** Dakahlia Governorate - Mansoura City - First Section - West District - Al-Galaa Street Behind the Socialist Camp- House: El-Metwally Abdul Razek Shukr- Third Floor - House 71.

**Current Position:** Assistant professor, Department of Genetics and Cytology, Genetic Engineering and Biotechnology Division, National Research Centre, Dokki-Giza - Tahrir Street -12622, Egypt.

**Public domain:** Genetics

**Specialization:** (Plant Genetics)

**Department:** Genetics and Cytology

**Division:** Genetic Engineering and Biotechnology

**Second: Educational Qualifications:-**

**1):-Bachelor degree** in Agricultural Sciences, Agronomy Department, June 1999, very good assessment, Faculty of Agriculture, Mansoura University.

**2):-Master Degree** in Agricultural Sciences - (Crops) in (29-6-2003) from the University of Tanta - Kafr El-Sheikh Branch - Faculty of Agriculture.

**(Breeding Studies For Salt Tolerance In Rice)**

**3):-Degree of Doctor** of Philosophy in Agricultural Sciences - (Agronomy) in (12 - 7-2009) from the Faculty of Agriculture - Kafr El-Sheikh University entitled:

**(Breeding For Drought Tolerance In Rice)**

**Graduation:-**

1):- Agricultural Specialist, Field Crops Research Institute, Agricultural Research Center, from 1/7/2000 to 7/6/2006.

2):-Assistant Researcher in the Department of Genetics and Cytology at the Center as of the date of appointment 7/6/2006 and receipt of work on 8/6/2006 and until 30/8/2009.

3):-Assistant professor in genetics and cytology department - Genetic – Engineering and Biotechnology Division - National Research Center from 31/8/2009 to date.

### **Scientific activity:-**

#### **:Awards**

- 1):-Applying for the award of the Center for Scientific Encouragement in Agricultural Sciences in 2013.
- 2):-Award for excellence in research outputs from the National Research Centre for 2013.

#### **Participation in internal research projects:-**

- 1):-Member of project No. (9050403) entitled "Evaluation Documentation and Exploitation of Genetic Resources for Egyptian Vegetable Crops in the Development of High Local Varieties of Production and Quality" from 16/12/2012 to 2013.
- 2):-Member of the project number (10120105) entitled "Production of hybrid wheat hybrids that are drought-tolerant and benefit from production in a functional and functional manner" from 2013 to 2015.
- 3):-Member of the project No. (11030107) entitled "Advanced genetic studies on wheat to withstand drought under Egyptian conditions" in the period from 2016 to 2019.
- 4):-Member of the project number (11030108) entitled Effect of addition of nanometric materials on tissue culture and applications (from 2016 till (2019).

#### **Supervision of thesis:-**

- 1):-Supervising the doctoral thesis for student Mohamed Ismail Mustafa Korat and the thesis entitled (The use of genetic engineering in the development of salinity resistant in bread wheat) and from 2013 and the work until its date.

2):-Supervising the doctoral thesis for the student Mohamed Ali Abdel Fattah Hassan Madkour and entitled (genetic and physiological studies on wheat tolerance to drought) and on 5/2/2014 and the work is finished.

**Attendance of the training courses:-**

:In the National Research Centre – (Training Center)

1):-Attend a training course entitled.

**(Basics of Bioinformatics)**

In the period from 26/12/2010 to 30/12/2010

2):-Attend a training course entitled.

**(PCR)**

In the period from 2/1/2011 to 6/1/2011

3):-Attend a training course entitled

4):- **Separation and Purification Techniques Used for Preparation of )  
(Diagnostic and Application of Immunoblotting).**

In the period from 8/5/2011 to 12/5/2011

5):-Attend a training course in

**(the field of occupational safety and health in the period)**

from 10/2/2013 to 14/2/2013.

**:Attendance of Seminars**

1):- Attendance of the symposium held by the Egyptian Society for Genetic Engineering and Biotechnology at the National Research Centre under the title:-

**(Future challenges of genetically modified organisms and their products by law and society)**

in 16/5/2010.

2):-Attend a seminar at the National Research Centre entitled

**(Gene Mapping in Plants).**

in 28/12/2010

3):-Attending a seminar at the National Research Center entitled

**(Climate Changes Challenges and Strategies)**

in 17/4/2011

4):-Attend a seminar at the National Research Center entitled

**(Application of Molecular Modeling)**

in the period from 24 to 25 June 2013

5):-Attend a seminar at the National Research Center entitled

**(Plant Biotechnology Classical and New Trends Symposium)**

in 5/12/2013

6):-Attend a seminar at the National Research Center entitled

**(Corona Virus)**

in 2/6/2014

**Attendance of workshops:-**

1):-Attending a workshop at the National Research Center under the title

**(Agriculture Between The Actual Challenges and The Future  
Looking)**

in 27/3/2011.

2):-Attending a workshop at the National Research Center under the title

**(Designing and Statistical Analysis of Biological Experiments)**

in 22/5/2011

3):- Attending a workshop at the National Research Center under the title

**Role and Application of Bio-safety to Protect The Workers and The )  
(Environment From Exposure To Biological and Chemical Risks**

In the period from 8-9 / 4/2013

4):- A workshop in the Academy of Scientific Research and Technology  
Association of Biotechnology - Union of Arab Scientific Research  
Councils (Arab Society for Genetic Engineering) entitled "**The Role of  
Biotechnology in Economic Development in Egypt**" on 16th June 2014  
at the National Research Center.

**Conference attendance:-**

1):-Attend the International Conference of the Research Division of  
Genetic Engineering and Biotechnology at the National Research Center  
:entitled

**(Biotechnology for Better Live)**

In the period from 3-5 / 11/2009

2):-Attending the Fifth Scientific Conference for the Environment,  
Faculty of Science, Zagazig University, entitled

**"The role of environmental development in community service"**

in 19/5/2010

3):-Attending a conference of the University of October for Modern  
(Sciences and Arts (October University For Modern Sciences And Arts

- :Entitled

**MSA Annual Conference for Pharmacy and Biotechnology )**  
**(Students-Communication and innovation for the future scientists**

and from 30/6 to 1/7/2010

4):- Attend the conference of the National Research Center entitled

**Bio-Processing and Application of Microbial Biotechnology in )**  
**(Agriculture**

in the period from 1-3 / 11/2010

5):-Attending the first international conference at the National Research  
:Center entitled

**(Human Genetics And Genomics Challenges For Proper Health)**

from 8-10 / 11/2010

6):-Attending a conference in the National Center for Justice, Social  
" Peace and Development, Giza, 2017 entitled

**(Futures Scientists)**

and from 18-19 / 12/2010

7):-Attending the Sixth Scientific Conference of the Environment,  
Faculty of Science, Zagazig University

**(Natural Resources Conservation and Environmental Protection)**

in 27/7/2011

8):-Attending the first international conference of WATERBIOTECH at  
:the National Research Center under the title

**(Biotechnology ForAfricas Sustainable Water Supply)**

and from 9-11 /10/2012

9):-Attending the National Conference of the Agricultural and Biological  
Research Division

**(For agricultural development in Sinai)**

At the National Research Center from 10-11 / 12/2012

10):- Attending a conference

**The Third Euro-Mediterranean Conference of Natural Products )**

**(From Biotechnology to Nano Medicine**

- :In

(The Euro-Mediterranean Association of Life Sciences EMALS)

From 4-6 /1/2014

11):- Attending a conference at the National Research Center entitled

**(Water Security: Challenges and Solutions)**

in 29/4/2014

**Participation in Societies:-**

1):-Member of the Egyptian Society for Genetic Engineering and



Biotechnology in 14/1/2015.

2):-Member of the Egyptian Society for Biotechnologies and Technologies in 18/1/2015.

3):- Member of the National Association for Human Genetics in 21/1/2015.

4):-Member of the Egyptian Society for Genetic Sciences in 1/1/2015.

### **Lectures:-**

1):-Presenting five lectures on (Field Crop Improvement Strategy to face the adverse conditions) at the Nile Media and Training Center in Mansoura from 2-6 / 2/2013.

2):-Presenting a lecture entitled "The use of plant breeding and genetic engineering programs to improve maize crop" at Mansoura Media Center, corresponding to 13/5/2013.

### **Cultural and Media Activity:-**

1):-Publication of an article entitled (production of rice varieties resistant to drought) in the evening newspaper on Wednesday, November 18, 2009.

2):-published an article entitled (cloud ... no longer black) and the evening newspaper on Tuesday, December 15, 2009.

3):-recording two consecutive episodes of the Greater Cairo Radio entitled (Mechanisms to counter the adverse conditions of the rice crop in order to produce a class resistant to drought) in October 2009.

### **International cooperation:-**

1):- Conducting international research arbitration for the magazine

**(African Journal of Agriculture Research)**

:Entitled

**Investigation on Combination Ability and Heterosis for Sodicity )  
Tolerance in Rice (Oryza Sativa L)**

No. 7446 / 07.06.13 / (AJAR) in 13/6/2013

2):-Member of the International Association of Scientific Information

**(International Network For Scientific Information)**

in 12/11/2014.

**List of Publications:-**

**Abdel Sattar A. A. and A. A. El-Mouhamady (2012).** Genetic Analysis and Molecular Markers for Yield and its Components Traits in Faba Bean (*ViciaFabaL.*). Australian Journal of Basic and Applied Sciences, 6(7): 458-466.

**Abo-Hamed S. A., A. A. El-Mouhamady and M. A. Madkour (2016).** Study the Resistance of Water Shortage in Wheat through Root Traits and Half Diallel Analysis under Normal and Drought conditions. *Journal of Environmental Sciences*, 45(3-4) : 247-253.

**Al-Kordy, M. A., H. M. Ibrahim, A. A. El-Mouhamady and H. M. Abdel-Rahman (2019).** Genetic Stability Analysis and Molecular Depiction in Elite Entries of Rice (*Oryza Sativa L.*). Bulletin of the National Research Centre, 43(85): 1-15.

**El- Demardash, I.S., A. A. El-Mouhamady, H. M. Abdel- Rahman, T. A. Elewa and K. A. Aboud, 2017.** Using Gamma Rays for Improving Water Deficit Tolerance in Rice. *Cur. Sci. Int.*,6(2):321-327.

**Eldessouky , E. I. Sara , Heiba , S.A.A , A. A. El-Mouhamady and Y.M Abdel-Tawab (2016).** DNA Fingerprinting and Half Diallel Analysis of Some Rice Genotypes under Water Deficit Conditions. *Research Journal of Pharmaceutical , Biological and Chemical Sciences*, 7(4) : 985-997.

- El-Keredy, M. S., A. E. Draz, A. Y. Ragab, A. A. Abdallah and A. A. El-Mouhamady (2003 A).** Combining ability for some quantitative characters in rice (*Oryza sativa* L.) Under normal and saline soil conditions. Proc 10<sup>th</sup> -The tenth conf. of agro. Octo. Suez Canal Univ. Fac. Environ. Agric. Sci. El-Irish, Egypt; Proc 10<sup>th</sup>: 107-120.
- El-Keredy, M. S., A. E. Draz, A. Y. Ragab, A. A. Abdallah and A. A. El-Mouhamady (2003 B) .** Effect of different levels of salinity on some agronomic, yield and its components and grain quality characters in rice. Proc 10<sup>th</sup> -The tenth conf. of agro. Octo. Suez Canal Univ. Fac. Environ. Agric. Sci. El-Irish, Egypt: 80-89.
- El-Keredy, M. S., A. E. Draz, A. Y. Ragab, A. A. Abdallah and A. A. El-Mouhamady (2003 C) .** Studies on rice (*Oryza Sativa* L.) II. Genetical analysis and correlation coefficients in some chemical and grain yield and its components characters in rice under saline soil conditions. Proc 10<sup>th</sup> -The tenth conf. of agro. Octo. Suez Canal Univ. Fac. Environ. Agric. Sci. El-Irish, Egypt: 121-132.
- El-Mouhamady , A. A. , Z. M . El-Ashary, F. I. Mohamed, T.A. Elewa and K. A. Aboud (2016).** Study The Effect of Water stress Conditions on Some Genotypes of bread Wheat (*Triticumaestivum* L.) Based on Morphological , Physiological Traits and DNA Fingerprinting. RJPBCS., 5(4): 2065-2077.
- El-Mouhamady A. A. ,H.M.Abdel-Rahman , T.A. Elewa and K.A. Aboud (2017).** Molecular Characterization and Stability Analysis for Yield and its Components Traits in Soybean (*Glycine max* L.),*Int.J.Curr.Microbiol.App.Sci*,6(7): 1835-1857.
- El-Mouhamady A. A. H. M. Abdel-Rahman, A. A. Rizkalla and M. A. El-Metwally (2019).** Assessment of Water Stress Tolerance in Wheat Genotypes Based on Half Diallel Analysis and DNA Fingerprinting. Pakistan Journal of Biological Sciences; 22(3):103-116.
- El-Mouhamady A. A., El-Ekhtyar A. M. and Zayed B. A (2011).** MOLECULAR GENETIC STUDIES ON STERILITY AND FERTILITY TRAITS IN RICE UNDER EGYPTIAN CONDITIONS. Faculty of Science, Zagazig University., 6Th Environmental Conference, 59-68.

- El-Mouhamady A. A.; E.H. El-Seidy; A.M. El-Ekhtyar and T.A. Elewa (2014).** MOLECULAR MARKERS AND PHYSIOLOGICAL TRAITS LINKED TO SALINITY TOLERANCE IN RICE. *International Journal of Academic Research, Part A*, 6(7): 195-205.
- El-Mouhamady A.A., Gad A. M, Abdel Karim G. S. A (2020).** Genetic amelioration in lentil (*Lens culinaris* L.) using different doses of Ethyl Methane Sulphonate. *Bull of the Nat Res Cent*; 44 (88): 1-15.
- El-Mouhamady, A. A. and H.F. Ibrahim (2020).** Elicitation of salt stress-tolerant mutants in bread wheat (*Triticum aestivum* L.) by using gamma radiation. *Bulletin of the National Research Centre*; 44(108): 1-18.
- El-Mouhamady, A. A. and M. A. El-Metwally (2020).** Appreciation of Genetic Parameters and Molecular Characterization in Some Promising Accessions of Soybean (*Glycine max* L.). *Pakistan Journal of Biological Sciences*; 23(4):425-438.
- El-Mouhamady, A. A., I. S. El-Demardash and K. A. Aboud, 2010.** Biochemical and Molecular Genetic Studies on Rice Tolerance to Salinity. *J. of Ame. Sci.*, 6(11):521-535.
- El-Mouhamady, A. A., Kh. A. Amer and A.Y. Ragab (2012).** Development of Salinity Tolerance in Some Genotypes of Barley Using Line X Tester Analysis and Some Techniques of Biotechnology. *Journal of Applied Sciences Research*, 8(2): 972-982.
- El-Mouhamady, A. A., T. A. Elewa and K. A. Aboud (2014).** Study the Genetic Mode of Action Responsible for Germination Seeds of Oats (*Avena sativa*) under Low and High Levels of Temperatures. *Current Science International* 3(4): 341-351.
- El-Mouhamady, A.A. and E.H. El-Seidy (2014).** Molecular Markers Linked to Drought Tolerance in Maize (*Zea Mays* L.). *Research Journal of Agriculture and Biological Sciences*,10 (1) : 80-86.
- El-Mouhamady, A.A., A.A. Abdel-Sattar and E.H.El-seidy (2013).** Assessment of Genetic Diversity and Relationships among canola (Rapeseed) Varieties Using Random Amplified Polymorphic DNA (RAPD) and Specific-PCR Analysis. *Journal of Applied Sciences Research*, 9(3): 1651-1665.

- El-Mouhamady, A.A., A.A. Abdel-Sattar., E.H. El. Seidy and H.A. Abo – Yousef (2013).** Genetic Classification for Salinity Tolerance in Some Promising Lines of Maize (*Zea mays* L.). *Journal of Applied Sciences Research*, 9(1): 298-308.
- El-Mouhamady, A.A., A.M. El-Ekhtyar and I.S. El-Demardash (2012).** Molecular Markers Linked to Some traits in Rice. *Journal of Applied Sciences Research*, 8(5): 2689-2699.
- El-Mouhamady, A.A., E.H. EL-Seidy (2014).** MOLECULAR MARKERS AND GENETIC BASIS FOR TOXICITY TOLERANCE OF HEAVY METALS IN SOYBEAN. *INTERNATIONAL JOURNAL of ACADEMIC RESEARCH*, 6(2):130-137.
- El-Mouhamady, A.A., E.H. El-Seidy and K.A.Aboud (2012).** Identification of a Molecular Markers Linked to Drought Tolerance in Some Genotypes of Barley. *Australian Journal of Basic and Applied Sciences*, 6(5): 196-204.
- El-Mouhamady, A.A., E.H.El-Seidy; and T.A.Elewa (2014).** Using Molecular Markers to Study Mechanisms Responsible For Drought Tolerance in Some Genotypes of Sorghum. *Int. J. Curr. Microbiol. App. Sci*, 3(8): 481-491.
- El-Mouhamady, A.A., M.R. Rady and E.H. El-Seidy (2014).** Assessment of Genetic Variability for Six Lines of Wheat Using Physiological Traits and Molecular Markers Technique under Normal Irrigation and Water Stress Conditions. *World Applied Sciences Journal* 29 (4): 506-516.
- El-Mouhamady, A. A., M. R. Rady and I. S. El-Demardash (2013).** Molecular Genetic Studies on Agronomic Traits in Rice Using the Methods of Biotechnology. *Research Journal of Agriculture and Biological Sciences*, 9(1): 17-26.
- El-Mouhamady, A.A., S.KH.Abd-El-Aal ; T.A. Elewa; and K.A.Aboud (2015).** Studies on the biotic Stress Resistance in Rice through Molecular Markers and Six Population Analysis.*Int.J.Curr.Microbiol.App.Sci*, 4(1): 831-854.
- El-Mouhamady, A.A.; A.A.Abdel-Sattar and E.H.El-Seidy (2013).** Assessment the Degree of Drought Tolerance in Rice through the Environmental Tests and Molecular Markers Technique. *Research Journal of Agriculture and Biological Sciences*, 9(1): 40-57.

**El-Mouhamady, A.A; E.H.El-Seidy; T.A. Elewa and K.A. Aboud (2014).** Studies on Breeding for Drought Tolerance in Some Promising Lines of Sugar Beet (*Beta vulgaris* L.). Middle East Journal of Applied Sciences, 4(3): 718-732.

**El-Mouhamady. A. A and M. A. F. Habouh (2019).** Genetic Improvement of Some Rice Genotypes for Salinity Tolerance Using Generation Mean Analysis. Cu. Sci. Inte., 8(2): 321-348.

**El-Seidy, E.H., A.A. El-Mouhamady, K.A. Aboud (2013).** STUDIES ON THE MODIFICATION OF GENE EXPRESSION WHICH ESPONSIBLE FOR SALINITY TOLERANCE IN SOME GENOTYPES OF WHEAT. International Journal of Academic Research Part A; 5(6): 23-32.

**Esmail, R. M, A.A. Abdel Sattar, N.S. Abdel-samea, A.A. El-Mouhamady, E. M. Abdelgany and F.B. Fathallaha (2016).** Assessment of Genetic Parameters and Drought Tolerance Indices in Maize Diallel Crosses. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(6) : 2409-2428.

**Heiba , S.A.A., A. A. El-Mouhamady , Sara E. I. Eldessouky, Hoda B.M. Ali and T. A. Elewa (2016 a).** Study the Genetic Variations Related to the Resistance of Heavy metals Toxicity in Some Rice Genotypes Using RAPD Markers. IntJ.Curr.Microbiol.App.Sci , 5(1):174-189.

**Heiba, S.A.A. , Sara E.I. Eldessouky , A. A. El-Mouhamady , I.S. El-Demardash and A.A. Abdel-Raheem (2016 b).** Use of RAPD and ISSR Assays for the Detection of Mutation Changes in Wheat (*Triticumaestivium* L.) DNA Induced by Ethyl-Methane Sulphonate (EMS). International Journal of Chem Tech Research , 9(3): 42-49.

**khatab, I. A., A. A. El-Mouhamady, H. M. Abdel-Rahman, Mona A. Farid and I.S. El-Demardash (2017).** Agro-morphological and Molecular Characterization of Sorghum (*Sorghum Vulgare* L.) for Water Stress Tolerance. International Journal of Current Research in Biosciences and Plant Biology , 4(1) : 37-55.

**Khatab, I. A., A. A. El-Mouhamady, S. A. Mariey and T. A. Elewa, 2019.** Assessment of Water Deficiency Tolerance Indices and their Relation with ISSR Markers in Barley (*Hordeum vulgare* L.). Cu. Sci. Inte., 8(1): 83-100.

**Kishk, A. M. S, Abdel-Rahman, H. M, El-Mouhamady , A. A and Aboud K. A (2017).** Sophisticated Genetic Studies on Onion through Using Gamma Rays, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 8(4):202-220.

**Ramadan, W.A, H. M. Abdel-Rahman, A. A. El-Mouhamady, Mohamed Ali Farg Habouh and K. A. Aboud (2016).** Molecular Genetic Studies on Some Barley Entries for Drought Tolerance. International Journal of Pharm Tech Research, 9(12) : 265-285.

**Tawfik, R. S. and A. A. El-Mouhamady (2019).** Molecular genetic studies on abiotic stress resistance in sorghum entries through using half diallel analysis and inter-simple sequence repeat (ISSR) markers. Bulletin of the National Research Centre., 43(117): 1-17.

**Zian, A.H., IS El-Demardash, AA El-Mouhamady, Ebtchage El-Barougy (2013).** Studies the Resistance of Lupine for Fusarium oxysporum F. spLupini) Through Molecular Genetic Technique. World Applied Sciences Journal., 26 (8): 1064-1069.