



CURRICULUM VITAE

I- PERSONAL INFORMATION:

Family name: Abdel-Rahman
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II- EMPLOYMENT:

- 1- Professor of Genetics, Damanhour University, Egypt (2017- now)
- 1- Assistant Professor of Genetics, Damanhour University, Egypt(2011-2017)
- 2-Lecturer of Genetics, Alexandria University, Egypt (2004-2011)
- 2- Scholar Visitor, Crop Science, ACES, Illinois University (UIUC)(2007-2009).
- 3- Assistant lecturer, Genetic branch, plant botany department, Faculty of Agriculture, Damanhour branch.(1998-2004).
- 4- Demonstrator, plant botany department, Faculty of Agriculture, Damanhour branch. (1997-1998).
- 5- Research assistant, sugar crops institute, Agriculture Research center (1995-1997).
- 6- Research assistant, Agriculture Genetic Engineering Research Institute, AGERI Agriculture Research center (1994-1995).

III- EDUCATION:

- 1- B.Sc.,(Genetic), Faculty of Agriculture, Alexandria university (1993)
Excellent with honor.
- 2- Qualified courses for master degree (1994-1996)
- 3- M.Sc., (Genetic), Faculty of Agriculture, Alexandria University (1997)
under title Biochemical and Genetical Studies on Sugar Beet.
- 4- Ph.D. (Genetics) Faculty of Agriculture (Damanhour branch), Alexandria University (2004) under title Genetical Studies on Olive.

B- LANGUAGES

- 1- Mother language: Arabic
- 2- Foreign language: English



C- MEMBER SHIP:

Syndicate of Agriculture Works.

IV- EXPERIENCES :

1-Good experience in Tissue Culture Techniques (Sugar Cane, Sugar Beet, Olive , Maize, Wheat ,Cotton, Morenga and Gotropha).

2-Principals Investigator in a project for capacity building funded by Scientific Technology Developmental Fund (STDF) under title (Purchase the Biolistic Particle Bombardment and its Accessories).

3-Principals Investigator in a project for Transgenic Egyptian maize plants expressing enhanced tryptophan levels as a defense mechanism against biotic and a biotic stress funded by Scientific Research Academy .

4-Principals Investigator in a project for material transfer agreement (genes) between Illinois University (USA) and Damanhour University (Genetic Engineering Laboratory) .

5- Member in a project team for maize transformation using different plasmids (plastid transformation, nuclear transformation, decrease lignin and Anthranilate Synthase Gene), Illinois University (2007-2009).

6- Completed training in General Laboratory Safety Training, Illinois University, 3/21/2008.

7- Completed course in 2008 Ethics Training program for Illinois university employees 11/10/2008.

8- Training in Stereomicroscope in the Institute of Genomic Biology, Illinois University 3/19/2008.

9-Attendance of Laboratory Biosafety and Biosecurity Workshop Cairo, Egypt. April 3- 5, 2007.

10- Member in a project team for Construction Diploma in agricultural pollution (HEEPF) (2005-2007) headed by Prof. Samia A. Madkour.

11- Member in a research team for Sugar cane Mosaic virus (SCMV) isolation, identification, and production of sugar cane varieties through Molecular Biology



techniques (October, 1993 - May, 1995) supervised by Prof. G. I. Fegla and M. A. Sharf.

12- Having a language courses in American Cultural Center (English Teaching Program), having TOEFL Certificate.

13- Good experience in computer soft-wares including

- a- Word processing programs (Word perfect, Power point, Microsoft word)
- b- HTML, Java script, Front page, and fundamental of Internet.

14- Good experience in editing scientific reports and preparing scientific seminars.

15- Academic Teaching:

Good experience in teaching courses for under graduates and post doctors like:

- 1-The Basic of Genetics
- 2-Population and Quantative Genetics
- 3-Advanced Cytogenetics
- 4-Medical Genetics
- 5-Mutation Genetics
- 6-Nucleic acids Biochemistry
- 7- Advanced Molecular Genetic
- 8- Tissue culture & Biotechnolgy.
- 9- Bioinformaics
- 10- Animal Biotechnology
- 11- Transgenic plants

V-RESEARCH SKILLS

- *Tissue Culture Techniques
- *Taking pictures for calli using Stereomicroscope
- *Extraction and purification of plasmid and genomic DNA
- *PCR, Southern blotting technique
- *Gene bombardment, GUS assays: histochemical and fluorometric detection and quantification
- * Chromosome aberrations detection techniques in animals (mice rat and quail), and in plants (onion, bean, and garlic).
- * DNA & RNA and gene expression with RT-PCR and Differential display.

VI- PUBLICATIONS:

- 1- Mousa I.E and **Abdel- Rahman M.M.**, Identification of bacteria responsible for nitrification and its correlation with physicochemical properties of water resources. **Research Journal of Applied Biotechnology (RJAB)** June 2016.



- 2- **Abdel- Rahman M.M.**, Ragab N.M., Mousa I.E., Over expression of defense mechanism genes in transgenic maize enhances increasing in tryptophan level. The Egyptian Journal for Experimental biology (ESEB) 2017.
- 3- **Abdel- Rahman M.M.**, El-Faramawy A.M., Mousa I. E., Identification of Differentially Expressed Genes Induced by Poly Ethylene Glycol in Maize (*Zea mays* L.) Callus Quality Improvement. **Asian Journal of Microbiology, Biotechnology and Environmental Science** (2016) vol 18, No (4):859-866.
- 4- **Abdel- Rahman M.M** and Mousa E. I. Effects of down regulation of lignin content in maize *Zea mays* L. plants expressing C4H3 gene in the antisense orientation. **Biofuels** 2016 , ISSN: 1759-7269 (print) 1759-7277 journal homepage: [http:// www.tandfonline.com/ loi/tbfu20](http://www.tandfonline.com/loi/tbfu20)
- 5- **Abdel- Rahman M.M.**, Bayoumi S.R. and Barakat M.N., Identification of molecular markers linked to Fusarium ear rot genes in maize plants *Zea mays* L. **Biotechnology & Biotechnological Equipment** 2016 issn:1310-2818 (print)1314-3530.
- 6- **Abdel- Rahman M.M.** Genetic modification of lignin to improve biofuel production from maize *Zea mays* L. using particle bombardment. **International conference on Biological , Civil and Environmental Engineering** (BCEE) Bali, Indonesia (C0215059) Feb. ,2015.
- 7- **Abdel- Rahman M.M.** Improvement the production of maize *Zea mays* L. crop by using particle bombardment **International conference on Biological , Civil and Environmental Engineering** (BCEE) Bali, Indonesia (C0215060) Feb. ,2015.
- 8- Bayoumi S., **Abdel-Rahman M.M.**, Milad S., Barakat M. Genetic analysis of resistance to Fusarium ear rot in two maize populations. *Journal of Agricultural and Environmental Science* (2013) vol.12 (3) 104-126.
- 9- Lygin A., **Abdel-Rahman, M.M.**, Ulanov A. Lozovaya V. and Widholm J.M. Polyethylene glycol treatment promotes metabolic events associated with maize callus morphogenic competence **.Phytochemistry** 82, 46-55, 2012.
- 10- Hamza H.A., Hafez E.E., **Abdel- Rahman M.M.**, Madkour S.A., Heikal H.A. and Adss E.A. RAPD analysis of some local *Ralostonia solanacearum* isolates and study the relationship between polygalacturonase activity and



- infection of different Potato cultivars. **Minufia Journal Agriculture Research** (2011) 6: 1611-1625.
- 11- **Abdel- Rahman M.M.**, Mousa E. I., Kim K. and Widholm J.M., Maize lignin content modification for biofuels production. *The Egyptian Journal for Experimental biology (ESEB)* Vol. 7 (1) 59-66, 2011.
 - 12- **Abdel-Rahman, M.M.**, A.E. Abdel-Hamid and M.A. Abdel- Rassoul. Cytogenetic effects of Malathion insecticide on Japanese quail (*Coturnix japonica*). *Minufiya J. Agric. Res.* Vol 36, No.3 2011.
 - 13- **Abdel-Rahman, M.M.** Maize transformation with feedback-insensitive anthranilate synthase gene by particle bombardment of immature embryo. *Journal of the advanced in agricultural researches Faculty of Agricultural (Saba Basha) Alexandria University.* Vol. 15, No. 4, 1205-1222 . 2010
 - 14- **Abdel-Rahman, M.M.** Plastid transformation in *Zea mays L.* The 12th International Conference of Agronomy , Elarish, Egypt, 20-22 September 2010.
 - 15- **Abdel-Rahman, M.M.** and Widholm J.M., Maize tissue culture plant regeneration ability can be improved by polyethylene glycol treatment. *In vitro Cell Dev. Biol, -Plant* Vol. 46, No. 6, 509-515 June, 2010.
 - 16- **Abdel-Rahman, M.M.** and Widholm J.M., Transformation of two plasmids into maize callus using particle bombardment. *Journal Enviromental Agriculture Science, Faculty of Agriculture Damanhour branch, Alexandria University.* Vol.8 (2) August 2009.
 - 17- **Abdel-Rahman, M.M.** and Elargawy E. Molecular Genetical Studies on different plant pathogens (host-Pathogen interactions) of Charcoal rot disease on Sunflower (2nd International conference for Genetic Engineering and Biotechnology, Sharm-Elshisk, Egypt, 2006).
 - 18- Mousa, I.E., **Abdel-Rahman, M.M.**, and EL-Rakshy, N.A. Treatment of backwash wastewater through biofilter and heavy metals bioconversion.(2nd International conference for Genetic Engineering and Biotechnology, Sharm-Elshisk, Egypt,2006).
 - 19- Sharaf M.A, Ouf A.A. and **Abdel-Rahman M.M.**, In vitro selection of drought tolerant Sugar Cane (variety GT54-C9) *Journal of Agriculture Sciences* volume 20 No. (5) May 1995

VII- REFERENCES:

- 1- Prof. Dr. Effat Abdel- Latif Badr
Professor of Genetics, Faculty of Agriculture, Alexandria University.
- 2- Prof. Dr. Jack M. Widholm,
Professor of plant physiology, Crop Science Department, ACES, Illinois University.



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- 2- Prof. Dr. Vera Lozovaya,
Research Professor, Crop Science Department, Illinois University.
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- 3- prof. Dr. Samia Ahmed Madkour,
Professor of plant physiology, Faculty of Agriculture (Damnhour branch),
Alexandria University.
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- 4- Prof. Dr. Houssam El-din Mouhamed El-Wakil,
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- 5- Prof. Dr. Nooh Soliman Sabra
Professor of Genetics, Faculty of Agriculture, Alexandria University.
- 6- Prof. Dr. Haggag Abo -Elazaym
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