

CURRICULUM VITAE



Mohamed Hamdy Emam Amar Ph.D
Head of the Egyptian Deserts Gene Bank, North Sinai, Egypt
Plant Genetic Resources Department
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CAIRO – EGYPT

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PERSONAL BACKGROUND

Date of birth: : 12 July 1970
Place of birth : Cairo, Egypt.
Marital status : Married.
Citizenship : Egyptian.
Languages : English (reading, writing and speaking).

EDUCATION

Sep. 2009 to Jun., 2011

Postdoctoral degree

In Molecular Characterization of *Citrus* Genetic Resources,
Huazhong Agricultural University (HZAU), China.

Oct. 2004, Apr. 2008

PhD degree

In Plant Genetics entitled (assessment of genetic biodiversity in some ecotypes of
Balanites aegyptiaca)
Faculty Of Agriculture, Ain Shams University, Cairo, Egypt.

Oct. 1999- sep. 2003

MS.c Master degree

In plant genetics entitled (Development of molecular fingerprints in some olive
cultivars (*Olea europaea*)).
Faculty Of Agriculture, Ain Shams University, Cairo, Egypt.

Oct. 1998- June 1999

Diploma

In Genetics, Ain Shams Univ., Cairo, Egypt.

1988- June 1992

B.Sc

With good from Crop Production, Department of agronomy,
Faculty of Agriculture, Ain Shams University, Cairo, Egypt.

EMPLOYMENT, HISTORY AND EXPERIENCE

Post Doctoral program in National Key Laboratory of Crop Genetic Improvement.
Huazhong Agricultural University, Wuhan 430070, China from 2009 till 2011.
Assistant Professor associate, in Faculty of Agriculture, Suez Canal University.
Teaching Molecular Genetic, Bioinformatics and Statistics Genetic courses (as a part time).

PLACE OF WORK AND RESEARCH EXPERIENCE

Head of the Egyptian Deserts Gene Bank from 2011 till now.
Head of molecular genetic lab. Desert Research Center from 2003 till 2008.
Researcher in the Egyptian desert gene bank from 2008 till now.
Assistant researcher in molecular genetic lab in the Egyptian deserts gene bank from 2003 to 2008.
Agricultural specialist in molecular genetic lab in the Egyptian deserts gene bank from 2000 to 2003.
Agricultural engineer at desert research center in north Sinai station from 1996 to 2000.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- * A member of the Genetic Society.
- * A member of Egypt's Youth Society for Development and Environment.
- * A member of the National Gene Bank in Egypt.
- * A member of Bioversity International.
- * A member of International Society for Applied Life Sciences (ISALS).

TRAINING AND EXPERIENCES

Conservation and sustainable use of plant Biodiversity (Icarda 2000).
Molecular tools for Biodiversity Study (IPGRI 2001).
The role of Gene Banks in Promoting the Use of Agriculture Biodiversity to Combat Desertification (2006)
Molecular markers tools for bioversity study (Trainer 2008).
Bioinformatics and Molecular Biology (2009).
International symposium on molecular biology and biotechnology of fruit trees (China 2010).
Biodiversity and Conservation of Fungi (Egypt 2013).

EXPERIENCES

Research technology skill

Genetic Diversity: Characterization and utilization of wild plant which collected from Sinai desert.

Biotechnology: Tissue cultures, genetic transformation

Molecular marker: RAPD, RFLP, CAPS, AFLP, SCAR, SSR, ISSR, IRAP, REMAP, SSAP, SRAP, MSAP, IRAP, COI, ITS, IGS rDNA and SNP markers.

Molecular biology: PCR, RT-PCR, northern blot, Gene cloning,

Bio-Informatics : Sequences analysis

Plant Breeding: Breeding experimental data analysis

Research works as regards topics related to in vitro propagation and conservation of plant genetic resource.

Computer Skill

Operating system : Windows

Graphics software : PhotoShop7, MS paint, Adobe Illustrator, Macromedia flash

Bio. Info. software : NTSYSpc, DnaStar, GeneDoc, Clustal W, MEGA4, PHYLIP, PIYML, Cap3, MISA, SSR hunter, BLAST, aa2dna, primer3, GSDS, SeqCleaner, Blast2go, Pram, Meme,

Others : MS word, MS Excel, MS Power point, MS Access.

REFERENCES

1. Dr. Wenwu Guo
Professor, National Key Laboratory of Crop Genetic Improvement,
Huazhong Agricultural University, Wuhan, China, 430070,
Email: guoww@mail.hzau.edu.cn
2. Dr. Deng Xiuxin
Professor, National Key Laboratory of Crop Genetic Improvement,
President (Vice Chancellor)
Huazhong Agricultural University, Wuhan, China, 430070,
Email: xxdeng@mail.hzau.edu.cn
3. Dr. Abdel Tawab, F.M.
Professor of Genetic, Faculty Of Agriculture, Ain Shams University,
Cairo Egypt.
Email: fatthy38@yahoo.com

A PARTICIPANT IN THE RESEARCH TEAM IN THE FOLLOWING PROJECTS:

- Conservation and Utilization of Egyptian Wild Flora to Improve Salinity Tolerance in Cereals.
- Co-Principal investigator for the project (Improvement of the medicinal plant in Sinai area, from 2004 to 2008).
- One of the team work in the project, Evaluation and Conservation of wild plant in Egypt, as agreement between KEW and EDGB at 1st may, 2000 for 10 years.

Published articles:

1. Abdel-Tawab, F.M., I.A.Hussein, A.H. Atta and M.H. Amar (2004). Development of molecular fingerprints in twenty olive cultivars (*Olea europaea*). Egyptian journal of Genetic and Cytology, 33(1): 131-152.
2. Abdel-Tawab, F.M., I.A.Hussein, A.H. Atta and M.H. Amar (2008). Assessment of genetic biodiversity in some ecotypes of *Balanites aegyptiaca*. Egyptian journal of Genetic and Cytology, 37 (2): 134-149.
3. Mohamed Hamdy Amar (2010). Assessment of genetic diversity in some endangered ecotypes of *Solenostemma argel* sp. in Egypt. Egyptian journal of Genetic and Cytology, 39 (1): 115-129. ISSN: 0046-161X.
4. Hongbo Cao, Manosh Kumar Biswas, Yan Lu, Mohamed Hamdy Amar, Zhu Tong, Qiang Xu, Juan Xu, Wenwu Guo and Xiuxin Deng (2010). Doubled haploid callus lines of Valencia sweet orange recovered from anther culture. Plant Cell Tiss. Organ Cult., 104 (3): 415-423. ISSN: Springer 1573-5044.
5. Mohamed Hamdy Amar, Manosh Kumar Biswas, Zongwen Zhang and Wen-Wu Guo (2011). Exploitation of SSR, SRAP and CAPS-SNP markers for genetic diversity of *Citrus* germplasm collection. Scientia Horticulturae, 128: 220-227. ISSN: Elsevier 0304-4238.
6. Manosh Kumar Biswas, Lijun Chaia, Mohamed Hamdy Amar, Xiantong Zhang and Xiu-xin Deng. (2011). Comparative analysis of genetic diversity in Citrus germplasm collection using AFLP, SSAP, SAMPL and SSR markers. Scientia Horticulturae, 129: 798- 803. ISSN: Elsevier 0304-4238.
7. Mohamed Hamdy Amar (2012). Comparative Analysis of SSR and SRAP Sequence Divergence in Citrus Germplasm. Biotechnology, 11 (1): 1-9. ISSN: 1682-296X.
8. Mohamed Hamdy Amar, Ahmed H. M. Hassan and Esraa A.M.Ei Sherbony (2012). Assessment of genetic diversity in some wild plants of Asteraceae family by ribosomal DNA sequence. Egyptian journal of Genetic and Cytology, 41 (2): 195-208. ISSN: 0046-161X.
9. Mohamed Hamdy Amar and Mohamed Abd El Wahab (2013). Compative genetic study among *Origanum* L. plants grown in Egypt. J. of Biodiversity and Env. Sci., 3 (12): 208-222. ISSN: 2220-6663.
10. Mohamed Hamdy Amar and Mohamed Abd El Salam (2013). Retro transposon-markers: an overview of the recent progress in *Citrus* germplasm. J. of Biodiversity and Env. Sci., 3 (10): 31-41. ISSN: 2220-6663.
11. Mohamed Hamdy Amar, Ahmed H.M. Hassan, Manosh Kumar Biswas, Ehsan Dulloo, Zong-Zhou Xie and Wen-Wu Guo (2014). Maximum parsimony based resolution of Inter-species phylogenetic relationships In *Citrus* L. (Rutaceae) using ITS of rDNA. Biotechnol. & Biotechnol. Eq., 28 (1): 1-6. ISSN: 1310-2818.

Under review articles:

1. Amar, M. H., (2014). Comparative study of the discriminating capacity of SRAP and MSAP markers for genetic analysis of almond sp. (*Prunus dulcis*).
2. Amar M. H., (2014). Phylogenetic relationships of *Citrus* and its relatives based on *Cytochrome oxidase-I* gene sequence.
3. Amar M. H., (2014). Genetic diversity within *Citrus* and its revealed based on retrotransposon markers.

Certificates granted



Certificate of completion



Mohamed Hamdy

Emam Amar

has completed the Post Doctoral Research Fellowship on

**Molecular Characterization of
Citrus Genetic Resources**

26 August 2009 - 30 June 2011

Host institute:
HZAU-Biodiversity Centre of Excellence for Training
Huazhong Agricultural University, Wuhan, China



Elizabeth Goldberg
Head, Capacity Development Unit,
Biodiversity International





Yuan Youliang
Director, International Cooperation
Department
Huazhong Agricultural University





Certificate

Serial No: 0038542

TO WHOM IT MAY CONCERN

The Faculty of Agriculture, Ain Shams University certifies that:

Mr. / Mohamed Hamdy Emam Amar

Date of Birth : July 12, 1970

Place of Birth : Giza

Nationality : Egyptian

has obtained the degree of :

DOCTOR OF PHILOSOPHY
IN AGRICULTURAL SCIENCE
" Genetics "

As approved by the Faculty Council on May 5, 2008 and the University
President by delegation on May 22, 2008

Title of thesis:

Assessment of Genetic Biodiversity in Some
Ecotypes of *Balanites aegyptiaca*.

This certificate has been issued upon the candidate's request to be
presented to whom it may concern.

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Date 3/8/2008



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