

CURRICULUM VITAE

Name : Sanaa I. Mohamed. Milad
Date of Birth : 2 - 7 - 1957
Nationality : Egyptian
Present Post : Professor of plant breeding and biotechnology, Crop
Science Department, Faculty of Agriculture,
Alexandria University, Alexandria, Egypt.
Address : Biotechnology Laboratory, Crop Science Department, Faculty
of Agriculture, Alexandria University, Alexandria, Egypt.
E-mail : s.i.milad@hotmail.com
Tel. : 0020165825553- (002)(03)5913481

Education and Academic Qualification :

1. Ph. D. Crop Science, June 1990, Faculty of Agriculture, Alexandria University, Alexandria, Egypt.
Dissertation : Tissue Culture Studies for Somatic Hybridization Between *Medicago sativa* and *Medicago arborea*.
2. M. Sc., Crop Science, December 1983, Faculty of Agriculture, Alexandria University Alexandria, Egypt.
Dissertation : Agronomic and Genetic Evaluation of Some Local and Introduced Rice Cultivars (*Oriza sativa* L.) Under Two Levels of N Fertilization.
3. B. Sc. Agriculture (Crop Science) (Excellent with Honor). June 1979, Faculty of Agriculture, Alexandria University, Alexandria, Egypt.

Post Held :

1. Demonstrator at Crop Science Dept., Faculty of Agric., Alexandria University from 1979 to 1984.
2. Assistant Lecturer at Crop Science Dept., Faculty of Agric., Alexandria University from 1984 to 1990.
3. Lecturer at Crop Science Dept., Faculty of Agric., Alexandria University from 1990 to 2002.
4. Associate professor at Crop Science Dept., Faculty of Agric., Alexandria University from 2002 .
5. Professor at crop science Dept. , Faculty of Agriculture ,Alexandria University from 2008 till now.

Specialty :

- Plant biotechnology (Protoplast Fusion Technology, Somaclonal and Gametoclonal Variation Technology, Micropropagation Technology, Molecular markers and Modern Breeding).

Professional Experience :

1. Research Area :

*Director and Investigator, Biotechnology Laboratory, Crop Science, Faculty of Agriculture, Alexandria University, Alexandria, Egypt.

2. Teaching :

- a. Tissue Culture in Higher Plants.
- b. Molecular Marker and plant breeding.
- c. Biotechnology and plant breeding.
- d. Molecular markers.
- e. Principles of Field Crop Production.
- f. Production of Field Crops.
- g. Statistics and Design of Field Experiments.
- h. Principles of Plant Breeding.

3. Conferences :

- a. The Second Conference of Egyptian Society of Crop Science, Alexandria Univ, 1986.
- b. The Fourth Conference of the Egyptian Society of Crop Science, Cairo Univ, 1990.
- c. The Ninth Conference of Agronomy , Minufiya Univ. ,2000.
- d. Biovision 2004. An International Biotechnology Conference, April 2004, Alexandria, Egypt.
- e. First conference of cereal crops ,20-21 June 2005 , Alexandria , Egypt.
- f. Biovision 2006 An International Biotechnology Conference April 2006, Alexandria, Egypt.
- g. Biovision 2008 An International Biotechnology conference , April 2008, Alexandria Egypt.
- h. Second conference of cereal crops ,10-11 February 2010,Alexandria , Egypt.
- g. Alexandria University second forum of applied research projects, February 2010 ,Alexandria Egypt.
- h. Biovision 2010 An International Biotechnology Conference, April 2010, Alexandria, Egypt.
- i. The twelveth International Conference of Agronomy,Suez Canal Univ, 2010.
- j. The Seventh International Conference of Plant Breeding, Alexandria Univ., May 2011.

4. Training

* Training course in Tissue Culture Techniques held in Cairo May 18-29, 1991, and sponsored by Canada Egypt McGill Agricultural Response Program (CEMARP)

5. Books published :

Book title	Date	Publisher
Plant breeding principles	2005	Alexandria university

6. Projects

Title	Period	Funding	Funding organization	Responsibility
Induction and Selection of Drought Tolerant lines of Rice Using Biotechnology Tools	From 2010-2012	170000	Research Enhancement Program, Alexandria University, Egypt	Co-PI
Biotechnology Tools for Improving Rust resistance and Drought Tolerance in Wheat Variants	From 2008-2011	400000 EGP	Research Enhancement Program, Alexandria University, Egypt	P-I
Biotechnology Tools for Improving Stripe Rust resistance in Wheat	From 1999-2002	300000 EGP	Alexandria university , Egypt and Montana state University USA	Co-PI
"Induction and Selection of Leaf and Stripe Rust Tolerant Lines of Wheat by Biotechnology Tools".	From 1998-2001	500000 EGP	Science and Technology Center "The Program on the National Strategy for Genetic Engineering and Biotechnology ", Egypt	Co-PI

7. Supervision of theses and dissertations:

Title of theses or dissertation	Degree granted for theses or dissertation	University conferring the degree	Date
Towards <i>in vitro</i> selection Studies for drought tolerance in rice.	M.Sc.	Alexandria	2002
Biotechnology tools for Improving stripe rust resistance in wheat.	Ph.D.	Alexandria	2004
Genetic and Breeding studies for Improving Resistance to Turcicum Leaf Blight in Maize.	Ph.D.	Alexandria	2008
<i>In vitro</i> selection for improving resistance to fusarium stalk rot in maize.	M.Sc.	Alexandria	2008
In Vitro Selection and Molecular Markers for Improving Drought Tolerance in Wheat.	Ph.D	Alexandria	2010
Introduction and selection of drought tolerant variants of wheat using biotechnological tools .	Ph.D	Alexandria	In progress
Identification and mapping of molecular marker linked to drought tolerance in wheat.	Ph.D	Alexandria	In progress
Identification and mapping of molecular marker linked to slow rusting genes (Lr-34 / Yr18) in F ₂ wheat population	M.Sc.	Alexandria	In progress
Molecular Marker for improving rust resistance in wheat	M.Sc.	Alexandria	In progress
Biotechnology tools for improving resistance to	M.Sc.	Alexandria	In progress

common smut in maize			
Breeding rice for drought tolerance using biotechnological approaches.	M.Sc.	Alexandria	In progress

8. MEMBERSHIPS:

- Egyptian Society for Crop Sciences.
- Egyptian Society for Plant Breeding.
- Member of Egyptian Universities promotion Committees.
- Member of International Plant Proteomics Organization (INPPO) in Japan.

9. APPOINTMENTS:

- Reviewer for several national and international journals.
- PI and Co-PI for two research projects funded by the University of Alexandria.
- Head of Plant Genetic Resource Department (PGRD), Arid Lands Cultivation and Development Research Institute, Mubarak City for Scientific Research and Technology Application (MuCSAT)

10. LIST OF PUBLICATIONS

- 1- Shaalan, M.A. ,A. E. Aly, M.I., Shaalan, and S.I. , Milad. 1987. Investigation on Rice Cultivars (*Oriza sativa* L.) in Egypt.I. Agronomic Performance of the Egyptian and Philippine Rice Cultivars Under Two Nitrogen Levels. Alex. J. Agric. Res. 32 : 125-135.
- 2- Shaalan, M. A. , A.E. Aly, M.I., Shaalan, and S. I. , Milad. 1987. Investigation on Rice Cultivars (*Oriza sativa* L.) in Egypt II.Genetic Behavior of Ten Egyptian and Philippine Rice Cultivars Under Two Nitrogen Levels. Alex. J. Agric. Res.32 : 137-148.
- 3- Barakat, M.N. ,S.I., Milad and F.H.Khadr.1990. Isolation and Culture of Alfalfa Protoplasts. Proc. 4th Conf. Agron., Cairo, Egypt II: 725-739.
- 4- Barakat, M. N.,S.I., Milad and F.H.Khadr.1990. Protoplast fusion Between *Medicago sativa* and *Medicago arborea*. Proc. 4th Conf. Agron., Cairo, Egypt II: 711-724.
- 5- Barakat, M.N., S.I., Milad and F.H.Khadr. 1992. Studies on Regeneration Ability from Somatic Tissue in *Medicago* Genotypes. Alex. J. Agric. Res. 37: 29-47.
- 6- Milad, S.I. and M.N. Barakat . 1999. *In vitro* Culture of Anthers and Pollen Grains of Cotton Genotypes. Alex. J. Agric. Res. 44 : 239-249.
- 7- Barakat, M.N., M. I.Motawei , S. I. Milad, M. A. Moustafa and Y.H. El-Daoudi. 2000. Using RAPD Markers for Evaluating Genetic Relationship Among Wheat Cultivars. Proc . 9th Conf. Agron., Minufiya Univ., 93-100.

- 8- Milad, S.I. 2000 Somatic Embryogenesis and Plant Regeneration from *In vitro* Culture of Seedling Explants of *Medicago* Species Proc . 9th Conf. Agron., Minufiya Univ., 625-634.
- 9- Milad, S.I. , M.I. Motawei and M.N. Barakat. 2001. Combining Ability of Immature Embryo Culture Response in Maize. . Alex. J. Agric. Res. 46: 45-55.
- 10- Motawei, M. I., M.N. Barakat, S. I. Milad, M. A. Moustafa and Y.H. El-Daoudi. 2001. Molecular Markers Linked to the Leaf Rust Resistance Gene *Lr29* in F₂ Wheat Population. . Alex. J. Agric. Res. 46 : 57-62.
- 11- Milad, S. I ., M. I. Motawei , M.N. Barakat, M. A. Moustafa and Y.H. El-Daoudi. 2001. Genotype and Media Effects on Somatic Embryogenesis and Shoot Formation in Some Egyptian Wheat Cultivars (*Triticum spp.*) Alex. J. Agric. Res. 46 : 37 -46.
- 12- Motawei, M. I., M.N. Barakat, S.I. Milad, M.A. Moustafa and I.A. Imbaby. 2003. Identification of RAPD markers linked to stripe rust resistance gene in wheat . Alex. J. Agric. Res. 48: 21 – 30 .
- 13- Barakat, M. N., S.I. Milad and I.A. Imbaby 2005 Field evaluation for rust diseases and RAPD analysis for somaclonal variant lines in wheat. Alex. J. Agric. Res. 50(3) : 11-24
- 14- Barakat, M. N. and S.I. Milad 2006 In vitro selection and identification of somaclonal variants of wheat resistance to yellow rust (*Puccinia striiformis*) Via RAPD markers. Alex. J. Agric. Res. 51(2): 87-99.
- 15- Barakat, M.N., S. I. Milad, A.M. El-Shafei and S.A. Khattab. 2008. Genetic studies of Northern corn leaf blight disease resistance in a yellow maize population using RAPD marker J. Adv. Agric. 13(2):187-204..
- 16- Barakat, M.N., M. I. Motawei, S. I. Milad, H.M. Abouzied and A.A. Abo Aly. 2008. Detection of RAPD markers flanking the leaf rust resistance gene, *Lr34*, in wheat, using Bulk segregant analysis. Alex. J. Agric. Res. 53: 27-33.
- 17- Milad, S.I. .2008. Field evaluation and selection of resistance to rust diseases (*Puccinia spp.*) in wheat somaclonal variant lines. Alex. J. Agric. Res. 53:35-45.
- 18- Milad, S.I. .2008. Genetic diversity in a wheat cultivar and its variants under salinity stress conditions using morphological traits and RAPD markers. Alex. J. Agric. Res. 53:19-26.
- 19- Barakat, M.N., S.I. Milad, A.M. El-Shafei and S.A. Khattab. 2009. Genetic analysis and identification of RAPD markers linked to Northern corn leaf blight resistance in a white maize population. 20 (1) 45-59.
- 20- **Milad, S. I.**, L. E. Wahba and M.N. Barakat. 2011. Identification of RAPD and ISSR markers associated with flag leaf senescence under water stressed conditions in wheat (*Triticum aestivum* L.). AJCS 5(3):337-343