

## **Dr. Azza A. Tawfik**

### **Degrees:**

- \* B.S., Ornamental Plants & Landscape Design, Alexandria University, Alex., Egypt
- \* M.S., Horticulture (Floriculture), University of Assiut, Assiut, Egypt
- \* Ph.D., Horticulture (Floriculture), University of Nebraska- Lincoln, USA

### **Thesis Titles:**

- M.S.** Response of violet (*Viola odorata*, Linn.) to different water regimes and foliar application of urea
- Ph.D.** Factors affecting proliferation, essential oils yield, and monoterpenoid constituents of rosemary, *Rosmarinus officinalis* and sage, *Salvia officinalis* cultured in vitro

### **Academic Positions:**

Professor	2004- Present
Associate Professor	1998-2004
Assistant. Professor	1993-1998
Assistant lecturer	1982-1986
Domenstrator	1977-1982

### **Courses Taught:**

#### **Undergraduate Courses**

- (Flori. 5) Plant tissue culture
- (Flori.124) Propagation of Ornamental plants
- (Flori. 126) Aromatic and medicinal plants
- (Flori. 106) Herbaceous ornamental plants
- (Flori. 122) Turf grass and ground covers

#### **Graduate Courses**

- (Flori. 238) Micropropagation of ornamental plants
- (Flori.224) Production of medicinal plants
- (Flori.226) Indoor plants
- (Flori.334) Computer Applications in Floriculture

## Publications (Selected papers):

- Azza A. Tawfik**; O. H. M. Ibrahim; M. A.A. Taha (2019) Enhanced indirect organogenesis and efficient shoot multiplication of *Petunia hybrid*. Egypt. J. Hort. Vol.46, No.1, pp. 13- 28
- Azza A. Tawfik**; O.H. M. Ibrahim; E. Y. Abdul-Hafeez; S. A.I. Ibrahim (2018) Optimizing Micropropagation Protocol for *Rosa hybrida* cv. Eiffel Tower with Improved in vitro Rooting Ability. Egypt. J. Hort. Vol. 45, No. 2, pp. 323 -335
- Azza A. Tawfik**, Yue-ie Hsing, Mohamed F. Mohamed (2018) Performance and associations of *Nigella sativa*, L. different landraces under southern Egypt conditions. *The 9th Int. Conf. for Develop. and the Env . in the Arab world*, April, 15-17, 2018. 447-456
- Mohamed F. Mohamed, **Azza A. Tawfik** and Pei-Gui Liu (2018) Identification of common edible macrofungi in wild status from upper Egypt. *The 9th Int. Conf. for Develop. and the Env . in the Arab world*, April, 15-17, 431-436
- Azza A. Tawfik**, N. E. Elkeltawy, G. A. A. Hassan, R. F. A. Hassan (2018) Production of *Nigella sativa*, L. as affected by application of organic versus mineral fertilization . *The 9th Int. Conf. for Develop. and the Env . in the Arab world*, April, 15-17, 423-429
- Tawfik, A.A. (2012)** Propagation of some ornamental plants for commercial production The 22<sup>nd</sup> International Conference on Environmental Protection is a must. May 2012: 1-6
- El-Keltawi, N. E., **Tawfik, A. A.**, Hassan, G. A., & Ibrahim, O. (2012). Compost from rice straw and sawdust as growing media for pot plants. *Assiut J. Agric. Sci*, 43, 66-80.
- Azza A. Tawfik** ; G. G. Mostafa ; A. M. Alfrmawy ; M. Gad (2011) Evaluation of Genetic Variation in Mutants of *Senna occidentalis* using Protein Pattern and RAPD Markers. **Biotechnology 10(1):94-100**
- Tawfik, A.A. (2010)** Performance of *Zinnia elegans* grown in different types of media amended with Filter mud cake - an industry waste -The 20<sup>th</sup> International Conference on Environmental Protection is a must. April 2010: 137-144
- Mohamed, M.F., **A.A. Tawfik. (2008) Breeding for drought resistance in common bean: In vitro assay for root osmotic potential.** Journal of Crop improvement, Vol. 22(2):209-224 USA- Available online at <http://www.haworthpress.com>
- Tawfik, A.A.** and M.F. Mohamed (2007). Regeneration of (*Salvia officinals* L.) via induction of meristematic callus. **In Vitro Cell. Dev.Biol-Plant**. 43:21-27. Springer, USA
- Mohamed, M. F. and **A.A. Tawfik. (2006)** Dehydration-induced alterations in growth and osmotic potential of callus from six tepary bean lines varying in drought resistance. *Plant Cell Tissue Organ Cult.* 87:255-262. The Kluwer Publishers, The Netherland.

- Tawfik, A.A.** and M. F. Mohamed. (2006). *In vitro* cloning of two cumin landrace lines via shoot-tip culture. **J. Hort. Sci. & Biotech.** 81:(2)246-268, UK
- Tawfik, A.A.** and M. F. Mohamed. (2006). Shoot differentiation and plant regeneration from thidiazuron-induced callus of *Salvia officinalis*. **Acta Hort.** 723: 309-313 **Intl. Soc. Hort. Sci. (ISHS)**
- Tawfik, A.A.** and M. F. Mohamed. (2005). Organogenic response of *Salvia officinalis* L. to dark preconditioning, thidiazuron and benzyladenine. **Plant Growth Regul. Soc. Amer. Quarterly.** 33:125-133. USA
- Tawfik, A.A.** and A.D.A. Allam (2004) ‘Improving cumin production under soil infestation with Fusarium wilt pathogen: I. Screening of biocontrol agents’ **Assiut Univ. Bull. Environmental Res.** vol 7(2): 1-11(2004), Egypt
- Tawfik, A.A.** and A.D.A. Allam (2004) ‘Improving cumin production under soil infestation with Fusarium wilt pathogen: II. Field trial of different landraces and seed treatments’. **Assiut Univ. Bull. Environmental Res.**vol. 7(2): 13-30 (2004), Egypt
- El-Keltawi, N.E., **A.A. Tawfik**, and A.M. Ahmed. (2003) ‘Roselle (*Hibiscus sabdariffa* L.) Production as affected by two natural alternatives to farmyard manure. I. Growth and yield’ **Assiut J.Agric. Sci.** 34:285-305, (2003), Assiut university, Egypt.
- El-Keltawi, N.E., **A.A. Tawfik**, and A.M. Ahmed (2003) ‘Roselle (*Hibiscus sabdariffa* L.) Production as affected by two natural alternatives to farmyard manure. II. Chemical-Assessments of sepal quality’. **Assiut J.Agric. Sci.** 34:307-321 (2003), Assiut university, Egypt.
- Tawfik, A.A.** and G. Noga (2002) ‘Differentiation of somatic embryos in suspension cultures and plant regeneration of cumin (*Cuminum cyminum* L.)’. **J. Appl. Bot.** 76: 144-149 (2002), Germany.
- Tawfik, A.A.** and G. Noga. (2001) ‘Cumin regeneration from seedling derived embryogenic callus in response to amended kinetin’. **Plant cell Tissue organ culture** 69: 35-40
- Tawfik, A.A.** and G.Noga. (2001) ‘Adventitious shoot proliferation from hypocotyl and internodal stem explants of cumin’. **Plant cell Tissue organ culture** 66:141-147
- Tawfik, A.A.** (2001) ‘Fast and efficient mass-propagation of some ornamental plants using simple water air-flow medium’. **Acta Hort.** 548: 611-618 **Intl. Soc. Hort. Sci. (ISHS)**
- Tawfik, A.A.** and G. Noga. (2001) ‘Priming of cumin (*Cuminum cyminum* L.) seeds and its effect on regeneration, emergence and storability’. **J. Appl. Bot.** 75:216-220 (2001), Germany

## **Books: Chapter (in English) published by International Publisher**

**Tawfik, A.A.** Paul E. Read and Susan L. Cuppett. (1998) *Rosmarinus officinalis* L. (Rosemary): *In vitro* culture, regeneration of plants, and the level of essential oil and monoterpenoid constituents, p: 349-365. **In: Y.P.S Bajai (ed.) Biotechnology in Agriculture and Forestry, Vol.41, Medicinal and Aromatic Plants X.** (1998), Springer-Verlag Berlin Heidelberg, Germany.

## **Patent # 24383 Eg(2009)**

A medium derived from natural extract for conservation of meristematic cells and tissues of plant germplasm in gene banks and propagation nuclei in commercial production of Horticultural crop transplants.

## **Awards & Recognitions:**

Award the **TWAS-UNESCO Associateship 2010**

Award of the **best research in Agriculture Science 2008** Assiut University

Awarded the **CAS-TWAS Visiting Scholar Fellowship 2008**

Awarded the **DAAD fellowship 2001**, to conduct research and visit Department of Horticulture at Bonn University in the Federal Republic of Germany

Awarded the **UNESCO Short-Term Fellowship in Biotechnology 1996**, to visit the Federal Center for Plant Breeding Research on Cultivated plants and conduct research on "**Protoplast Isolation of *Rosa spp***". Ahrensburg, Germany

Selected as the 1992 recipient of **John S. Song Foundation Award** for outstanding research in **plant tissue culture** Washington D.C., USA

Received the **Rhone-Poulenc Ag Co Award** from the **Plant Growth Regulator Society of America for the excellent paper** entitled "Stimulation of growth and monoterpene production of *Salvia officinalis* L. by benzyladenine *in vitro*" presented at the 18<sup>th</sup> annual meeting in **Boston, Mass.; USA, July 28-August 1, 1991**