

***Amal Fadi Ahmed Abdelkader, Ph.D.***

**Address, City, Province:** 2-Cournich El-Neil, Polis men buildings, El-Maadi City, Cairo, Egypt

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**Personal Data**

***Date of birth:*** 12/05/1969

***Pace of birth:*** Al-Giza

***Languages:*** Arabic -English

***Marital Status:*** Married

**Professional Profile/Experience**

***Associate Professor*** from 31/07/2013 until present

***Lecturer*** from 26/05/2008 until 31/07/2013

***Lecturer Assistant*** from 28/03/2000 until 26/05/2008

***Demonstrator*** from 26/10/1991 until 28/03/2000

***Address:*** Botany Department, Faculty of Science, Ain Shams University, 11566, Abbassiae, Cairo/Egypt.

***Associate Professor*** from 28/05/2014 till present

***Address:*** Biology department, College of Science, King Faisal University, 31982, Al-Hufuf, Saudi Arabia.

**Societies/Memberships:**

The Egyptian Botanical Society

13/March/2013

**Committees:**

The National Agency for Quality Assurance and Accreditation

2009

**Publications:**

- 1) **Amal Fadi Abdelkader**, Henrik Aronsson and Christer Sundqvist (2010)  
Prolonged salt stress alters the ratios of protochlorophyllide spectral forms in dark-grown wheat (*Triticum aestivum*) and influences chlorophyll a accumulation following irradiation. Acta Physiologiae Plantarum (2010) 32:971– 978. DOI 10.1007/s11738-010-0486-x.
- 2) **Amal Fadi Abdelkader**, Raifa Ahmed Hassanein, Mohamed Mahmoud Abo-

- Aly, Mohamed Said Attia and Esam Mohamed Bakir (2010) Screening the biosafety of wheat produced from pretreated grains to enhance tolerance against drought using physiological and spectroscopic methods. Food and Chemical Toxicology. 48(7)1827- 1835.
- 3) **Abdelkader Amal F**; Aronsson Henrik; Solymosi Katalin; Böddi Bela and Sundqvist Christer (2007) High salt stress induces swollen prothylakoids in dark-grown wheat and alters both prolamellar body transformation and reformation after irradiation. Journal of Experimental Botany, 58 (10):2553-64.
  - 4) **Amal F. Abdelkader**, Henrik Aronsson and Christer Sundqvist (2006) High salt stress in wheat leaves causes retardation of chlorophyll accumulation due to a limited rate of protochlorophyllide formation. Physiologia Plantarum. 130:157-166.
  - 5) **Amal Abdelkader** and Eman Abdelkader (2010) 'Studies on the level of antioxidant enzymes activities in drought-endemic plants and pesticides-stressed- *Schefflera*. Journal of Medicinal Plants Research Vol. Journal of Medicinal Plants Research Vol. 6(9), pp. 1596-1604
  - 6) **Amal Abdelkader** and Mona Esawy (2011) Case Study of a Biological Control: *Geobacillus caldxylosilyticus* (IRD) Contributes to Alleviate Salt Stress in Maize (*Zea mays*) Plant. Acta Physiologiae Plantarum, 33 (6) 2289-2299.
  - 7) Usama Hawas, Eman Ahmed, **Amal Abdelkader** and Hanan Ahmed Anwar Aly Taie (2011) Biological activity of flavonol glycosides from *Rumex dentatus* plant; an Egyptian Xerophyte. Journal of Medicinal Plants research, 5 (17) 4239-4243, 9 September, 2011
  - 8) Raifa Ahmed Hassanein, **Amal Fadi Abdelkader**, AboBakr Ahmed El-Said Amin, and El-Sherbiny Mohammed Rashad, Heba Ali. (2012) Grain-priming and foliar pretreatment enhanced stress defense in wheat (*Triticum aestivum* var. Gimaza 9) plants cultivated in drought land. Australian journal of Crop Science. 6(1):121-129.

- 9) Ghada E. A. Awad, Walla A. Salam, Ahmed El-diwany, Bassem A. Salama, **Amal F Abdelkader**, Mona A. Esawy (2010). Keratinase production by *Bacillus pumilus* GHD in solid-state fermentation using sugar cane bagasse: optimisation of culture conditions using a Box-Behnken experimental design. *Annals of Microbiology*, 61(3) 663-672.
  
- 10) **Amal Fadi Abdelkader**, Raifa Ahmed Hassanein, Heba Ali (2012) Studies on effects of salicylic acid and thiourea on biochemical activities and yield production in wheat (*Triticum aestivum* var. Gimaza 9) plants grown under water stress. *African Journal of Biotechnology*. *African Journal of Biotechnology* 11 (64), 12728-12739
  
- 11) **Amal F. Abdelkader**, Sahar El-khawas, Nahla Amin Safaa El-Din El-Sherif, Raifa A. Hassanein, Rasha El- Sherif Hassan, Manal Asem Emam (2012) The expression of aquaporin gene (*Os PIP1, 3*) in salt-stressed rice (*Oryza sativa*) plants pretreated with the neurotransmitter (dopamine). *Plan Omics Journal* POJ 5(6):532-541 (2012).
  
- 12) **Amal F. Abdelkader, Henrik Aronsson, K. Solymosi, Bela Böddi, Christer Sundqvist** (2008) Chlorophyll accumulation, protochlorophyllide formation and prolamellar body conversion are held back in wheat leaves exposed to high salt stress 2008. In: Allen JF, Gantt E, Golbeck JH, Osmond B(eds) *Proceeding of the 14<sup>th</sup> international Congress on Photosynthesis*, Glasgow, Scotland, July 22-27 2007, pages 1139-1142.
  
- 13) **Amal Abdelkader** (2013) Physiological response of *Brassica rapa* plant t to irradiation using underground well water and non-reclaimed waste water of Abu- wash drainage, Egypt. *Egyptian Journal of Experimental Biology*. 9 (1):1-7.
  
- 14) **Amal Fadi Abdelkader** (2015) Tolerance Strategies of Some GA<sub>3</sub>-Pretreated Edible Plants During Growing Under Drought Stress. *Egypt. J. Exp. Biol. (Bot.)*, 11(2): 217 – 225.

- 15) **Amal fadl Abdelkader**, Adnan Metab Aldughaish (2016) Physiological and Chemical Characteristics of Age-Differed *Ficus benjamina* L. Trees Cultivated in El-ahassa, Saudi Arabia. Journal of Plant Sciences. 4(4): 63-67.
  
- 16) **Amal Abdelkader**, Adnan Al-Dughaish-fatemah Al-Honout. (2016) Experimental approach: FTIR and <sup>1</sup>HNMR based metabolic fingerprinting detect drugs interactions with physiological pathways of incubated edible plants in acidic medium. In press. Asian Journal of Biological and Life Sciences.
  
- 17) **Amal Fadl Abdelkader** (2017) Moringa extracts as biostimulants for inducing salinity tolerance in sweet basil plant. Submitted after revision. Scientia Horticulturea Journal. 11/2/2017.
  
- 18) **Amal Fadl Abdelkader** (2016) Alleviation of cadmium toxicity in wheat (*Triticum aestivum* L.) plant using coagulant defatted seeds of *Moringa oleifera* and *Moringa peregrina* trees. Submitted. Plant Omics Journal.25/11/2016.

### **Professional Development**

#### **Academic Courses/Books**

January	2003	Funktionell Växtanatomi
March	2003	Pigment – protein complexes
May	2003	Integrative plant anatomy
August	2003	Plant Physiology
November	2003	Introductory Course for PhD Students
March	2004	Plant Biotechnology
July	2004	Stress and signaling
November	2004	Teaching Science at undergraduate level
May	2006	Photosynthesis during leaf development
June	2006	Academic writing
August	2006	Determination of Osmolarity in plant tissues
September	2006	Electron Microscopy 6-15, Hungary, Budapest
February	2007	Chloroplast Biogenesis from Proplastis to
Gerontoplast		
February	2007	Abiotic Stress Tolerance in Plants
June	2007	Practical Application of Chlorophyll
Fluorescence in plant Biology		
June	2007	Seminars and international conferences

***Pedagogical courses/Conferences***

November 2007 Applying technology in education 6 - 8  
November 2007 Scientific Publications 13 – 15  
November 2007 Accreditation of the teaching process 17 – 19  
November 2007 Communicational skills in teaching 24 - 26  
April 2008 The credit hours system 12 – 14  
April 2008 Exams and students assessment 15 – 17  
July 2009 The 8th international internet education conference.  
Dec 2011 A roadmap for higher education and scientific research in Egypt, future outlook. (conf)  
Jan 2012 Self-assessment and evaluation in higher educational bodies  
Jan 2012 The first international conference on Sinai for new Egypt  
Feb 2012 Course specification and matrix designing  
May 2012 The External Referee April 2013 Towards Green Economy (conf)  
Feb 2014 The strategic Planning  
April 2014 Disciplines, the interdisciplinary studies and the needs of the labor markets (conf)  
Moharram 1437 Hijri Teaching skills of large number of students

**Funded Projects:**

- (1) Project (1): Establishment of the Association for the Rehabilitation of graduates to the labor market.  
Date: 17/02/2014. Author: Amal F Abdelkader Grant givers: The management unit for supporting the Development of higher education projects.
- (2) Project (2): Title: Development of Applicable Plant Physiology Diplome. Author: Amal Abdelkader Co-authors: Sahar Elkhawas, Raifa Ahmed Hassanein. Grant givers: The management unit for supporting the Development of higher education projects.

**Supervision:**

Supervisor of two PhD theses and one MSc thesis.

**Other Activities:**

- 1) Participated in "Program of Continuous Improvement and Quality Assurance" from 2009 until 2014. At: Faculty of Science, Ain Shams University, Abbassiae, Cairo/Egypt.
- 2) Coordinator of Faculty of Science in "Prizes awards" from 2013 till present At: Faculty of Science, Ain Shams university, Abbassiae, Cairo/Egypt.