


## PERSONAL INFORMATION


**Tarek Ali Ahmed Ibrahim Alshaal**

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 G-7004-2016 (URL: <http://www.researcherid.com/rid/G-7004-2016>)

Orcid ID: <https://orcid.org/0000-0001-5359-9692>

Website: <https://plantbiology.unideb.hu/hu/oktatok->

[kutatok?fbclid=IwAR3hJr85FxKwCcny4StDxQJkYlOtft\\_mpd3sNaogxoFcuFveeTHfIQZ4OnY](https://plantbiology.unideb.hu/hu/oktatok-kutatok?fbclid=IwAR3hJr85FxKwCcny4StDxQJkYlOtft_mpd3sNaogxoFcuFveeTHfIQZ4OnY)

Linkedin: <https://www.linkedin.com/feed/>

Publons: <https://www.webofscience.com/wos/author/record/G-7004-2016>

Google scholar: <https://scholar.google.com/citations?user=8sfHLrMAAAAJ&hl=en>

Sex Male | Date of birth 04/03/1980 | Nationality Egyptian

Military Service: Egypt, January 2003 to April 2004

## CITATIONS

- Scopus (h-index 17) (11th November 2022)
- Total citation 852 by 687 documents
- 40 documents
- Google scholar (h-index 24) (13th November 2022)
- Google scholar (i10-index 45) (13th November 2022)
- Total citation 1856 (13th November 2022)

## WORK EXPERIENCE

(Dec. 2021- till now)

**Senior Researcher (Associate Professor)**

University of Debrecen, Applied Plant Biology Department, Hungary

(Sept. 2019 – till now )

**Assistant Professor of Soil Fertility and Plant Nutrition**

Kafrelsheikh University, Faculty of Agriculture, Soil and Water Department

(Nov. 2017-Dec. 2020)

**Postdoctoral Researcher**

University of Debrecen, Agricultural Botany, Plant Physiology and Biotechnology Department, Hungary

(May 2014 – Sept. 2019)

**Lecturer of Soil Microbiology and Soil Sciences**

Kafrelsheikh University, Faculty of Agriculture, Soil and Water Department

## Responsibilities:

- Supervision of postgraduate students
- Participating in teaching theoretical and practical parts of the following subjects for undergraduate and postgraduate students (i.e., soil microbiology – soil reclamation – fundamentals of soil sciences – soil organic matter - soil fertility and plant nutrition - soil and water pollution and remediation techniques - soil management and conservation - biogeochemistry of trace elements - soil chemistry - chemistry and recycling of agricultural wastes)
- Quality manager of Laboratory of Geochemistry of Trace and Toxic Elements (2016-2017)
- Acting as an academic guide for many students

(May 2009 – April 2014)

**Teaching Assistant**

Kafrelsheikh University, Faculty of Agriculture, Soil and Water Department

## Responsibilities:

- Participate in teaching the practical part of the following courses for undergraduate students either in lab or field (i.e., Soil microbiology – Soil reclamation – Fundamentals of soil sciences – Soil organic matter - Soil fertility and plant nutrition - Soil management and conservation - Biogeochemistry of trace elements - Soil chemistry – Soil Physics - Geology)

(Apr. 2006 – May 2009)

### Demonstrator

Kafrelsheikh University, Faculty of Agriculture, Soil and Water Department

Responsibilities:

- Participate in teaching the practical part of the following courses for undergraduate students either in lab or field (i.e., Soil microbiology – Soil reclamation – Fundamentals of soil sciences – Soil organic matter - Soil fertility and plant nutrition - Soil management and conservation - Biogeochemistry of trace elements - Soil chemistry – Soil Physics - Geology)

(Jan. 2003 – Apr. 2006)

### Demonstrator

Tanta University, Faculty of Agriculture, Soil Science Department

Responsibilities:

- Participate in teaching the practical part of the following courses for undergraduate students either in lab or field (i.e., Soil microbiology – Soil reclamation – Fundamentals of soil sciences – Soil organic matter - Soil fertility and plant nutrition - Soil management and conservation - Biogeochemistry of trace elements - Soil chemistry – Soil Physics - Geology)

## EDUCATION AND TRAINING

(Sept. 2010 – Feb. 2014)

### Ph.D. degree

University of Debrecen, Plant Biotechnology Department, Hungary.

- Ph. D. thesis: *"Remediation and restoring marginal lands with biotechnologically propagated giant reed (Arundo donax L.)"*.

(Sept. 2004 – May 2009)

### Master degree

Kafrelsheikh University, Soil and Water Department, Egypt

- Title of thesis: *"Soil quality indicators as affected by different cultivated crops"*

(Dec. 2005)

### Workshop entitled "Environmental Management of Laboratories Hazardous Wastes (Chemical and Biological)"

Training and Capabilities Development Center, National Research Center, Cairo, Egypt

(Oct. 2007)

### Workshop entitled "Estimation of uncertainty budget & method validation according to the international standard ISO/IEC 17025:2005"

Kafrelsheikh University, Egypt

(Nov. 2007)

### Workshop entitled "The 5<sup>th</sup> Workshop in the field of Electronic Microscope"

Medical Technology Center For Research and Services, Medical Research Institute, Alexandria University, Egypt.

(May 2009)

### Workshop entitled "Principles of DNA analysis"

Kafrelsheikh University, Faculty of Agriculture, Department of Genetics, Egypt

(Sept. 2010)

### Workshop entitled "Awareness of the international standard ISO/IEC 17025:2005 requirements & accreditation process"

Kafrelsheikh University, Egypt

(Nov. 2010)

### Workshop entitled "Terminologies, quality control charts and proficiency testing according to the international standard ISO/IEC 17025:2005"

Kafrelsheikh University, Egypt

(Dec. 2010)

### Workshop entitled "Internal audit according to the international standard ISO/IEC 17025:2005"

Kafrelsheikh University, Egypt

(20<sup>th</sup> Nov. 2016)

### Workshop entitled "ISO / IEC 17025: General requirements for the efficiency of the test factor for accreditation"

Kafrelsheikh University, Egypt

(4<sup>th</sup>-6<sup>th</sup> Feb. 2017) **Workshop entitled “ Internal Quality Control”**

Kafrelsheikh University, Egypt

(25<sup>th</sup>-26<sup>th</sup> Mar. 2017) **Workshop entitled “ Uncertainty in testing labs”**

Kafrelsheikh University, Egypt

(6<sup>th</sup> May 2017) **Workshop entitled “ Internal audit”**

Kafrelsheikh University, Egypt

## PERSONAL SKILLS

Mother tongue(s) Arabic

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2
Hungarian	A1/A2	A1/A2	A1/A2	A1/A2	A1/A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
Common European Framework of Reference for Languages

- Communication skills**
- Written communication gained from writing many scientific Articles and Books
  - Nonverbal communication gained from teaching students for almost 19 years
  - Friendliness and respect gained from dealing with foreign colleagues during my PhD scholarship in Hungary and attending international conferences
  - Creative thinking
  - Microsoft office particularly with Microsoft word, excel sheet and power point
  - Motivation gained from my supervisors and during my supervision on Master's students
  - Open mindedness and tolerance
  - Team building
  - Teamwork
- Managerial skills**
- Supervisor of Master's students at Kafrelsheikh University, Egypt.
  - Quality Manager of Laboratory of Geochemistry of Trace and Toxic Elements, Soil and Water Department, Kafrelsheikh University, Egypt.
- Job-related skills**
- Creative thinking
  - Team building
  - Teamwork
  - Written skill

Driving licence B (Egyptian and European)

## ADDITIONAL INFORMATION

### PROJECTS

- Co – Investigator in research project (Contamination of Water Resources, Drinking and Irrigation, and Agricultural Soils in Kafrelsheikh Governorate by Some Organic and Inorganic Pollutants with Remediation Approaches) Kafrelsheikh University Egypt, December, 2009 – 2012. The PI of project is Dr. Sabry Shaheen, Faculty of Agriculture, Kafrelsheikh University. Funded from Kafrelsheikh University, sector of postgraduate and research affairs, university researches fund (Project No. KFUR03).
- Co – Investigator in research project of “Nicotine contaminations in plants derived foods and commodities: Elucidation of their origin and elaboration of general approaches for improvement by investigating exemplarily certain spice and medicinal plants”, GERF II (MBMF/DLR project, ID 5310) in collaboration with Prof. Dirk Selmar (TU Braunschweig Uni. Germany), from 1 April 2015 to 1 April 2017. Funded by Science and Technology Development Fund (STDF), Ministry of Higher Education and Scientific Research, Egypt.
- Pi – Investigator in research project of “Improving Microbial Communities of Giant Reed (Arundo donax L.) for Bioenergy Production and Restoring Soil Ecosystems on Marginal Lands in Northern Delta of

Egypt", Reintegration cycle 2016. Funded by Science and Technology Development Fund (STDF), Ministry of Higher Education and Scientific Research, Egypt. (After acceptance, I had to stop it due to my traveling to Hungary)

- Co-Investigator in TKP2020-IKA-04 program which provided by the National Research, Development and Innovation Fund of Hungary under the 2020-4.1.1-TKP2020 funding scheme.
- Co-Investigator in the GINOP-2.2.1-15-2017-00051 project which is co-financed by the European Union and the European Regional Development Fund.
- Co-Investigator in the ÚNKP-20-3 New National Excellence Program of the Ministry for Innovation and Technology from the source of the National Research, Development and Innovation Fund

## CONFERENCES

- Biotechnology at the University of Debrecen – 2022 International Symposium, 10 November, 2022. Hungary (Oral presentation entitled "From crops in field to space plants grown in ground bioregenerative life-support facilities: The potential of green biorefining with reflecting the environmental challenges")
- The 11th International Conference "Climate Changes and Sustainable Development of Natural Resources" at Kafrelsheikh University, Egypt (May 5-7, 2014)
- Pannonian Plant Biotech Association Workshop "Plant for the future" at University of Cluj-Napoca, Romania (September 2013)
- XIX. Növénynevelési Tudományos Napok at Pannon University, Keszthely, Budapest, Hungary (March 7, 2013)
- The 10th International Conference of Egyptian Soil Science Society (ESSS) "Towards Optimal Utilization of Soil and Water Technologies" in conjunction with FAO, IFAD, Government of South Australia, Rural Solutions SA Global food & Agriculture Systems, El-Amieria, Alexandria, Egypt (November 5-8, 2012)
- The 4th International Conference of Water Requirements & Field Irrigation Department, Soil, Water and Environment Institute (SWERI), Agricultural Research Center (ARC) on "On-Farm Irrigation and Agroclimatology" in conjunction with FAO, IFAD, Government of South Australia, Rural Solutions SA Global food & Agriculture Systems, El-Amieria, Alexandria, Egypt (November 5-8, 2012)
- Pannonian Plant Biotechnology workshops "Advances in Plant Breeding and Plant Biotechnology in Centre of Agricultural Sciences" at University of Debrecen, Hungary (June 4-6, 2012)
- XVIII. Növénynevelési Tudományos Napok at Corvinus University, Budapest, Hungary (March 6, 2012)
- World Science Forum "The changing Landscape of Science: Challenges and Opportunities" at Hungarian Academy of Sciences, Budapest, Hungary (November 17-19, 2011)
- Pannonian Plant Biotechnology Workshops "The bioenergy question: reality or wishful thinking?" at IFA-Tulln, University of Natural Resources and Life Sciences, Vienna, Austria (May 16-18, 2011)
- XVII. Plant Breeding Scientific Day at Corvinus University, Budapest, Hungary (April 27, 2011)
- Agrisafe Final Conference "Climate change: challenge for training of applied plant scientists" at Budapest, Hungary (March 21-23, 2011)

## HONOURS AND AWARDS

- Postdoctoral scholarship in University of Debrecen Centre for Agricultural and Applied Economic Sciences, Faculty of Agricultural and Food Sciences and Environmental Management, Department of Agricultural Botany, Plant Physiology and Biotechnology (5 months, 2018/2019) supported from Tempus Public Foundation, Hungary
- Postdoctoral scholarship in University of Debrecen Centre for Agricultural and Applied Economic Sciences, Faculty of Agricultural and Food Sciences and Environmental Management, Department of Agricultural Botany, Plant Physiology and Biotechnology (from November 2017 to July 2018) supported from Tempus Public Foundation, Hungary.
- Postdoctoral scholarship in University of Debrecen Centre for Agricultural and Applied Economic Sciences, Faculty of Agricultural and Food Sciences and Environmental Management, Department of Plant Biotechnology (from May 2014 to December 2015).
- Postdoctoral scholarship in University of Debrecen Centre for Agricultural and Applied Economic Sciences, Faculty of Agricultural and Food Sciences and Environmental Management, Department of Plant Biotechnology (from September 2013 to January 2014) supported from Hungarian Scholarship Board, the Ministry of Education and Culture, Hungary.
- PhD scholarship in University of Debrecen Centre for Agricultural and Applied Economic Sciences, Faculty of Agricultural and Food Sciences and Environmental Management, Department of Plant Biotechnology (from September 2010- August 2013) supported from Hungarian Scholarship Board, the Ministry of Education and Culture, Hungary.
- Award of Kafrelsheikh University for the international scientific publication, 2013
- Award of Kafrelsheikh University for the international scientific publication, 2014

	<ul style="list-style-type: none"> <li>➤ Award of Kafrelsheikh University for the international scientific publication, 2015</li> <li>➤ Award of Kafrelsheikh University for the international scientific publication, 2017</li> <li>➤ Award of Faculty of Agriculture, Kafrelsheikh University for the Scientific Excellence, 2017</li> <li>➤ Award of Kafrelsheikh University for the international scientific publication, 2018</li> <li>➤ Award of Kafrelsheikh University for the international scientific publication, 2019</li> <li>➤ Award of Kafrelsheikh University for Encouragement Award in Agricultural Sciences 2019 Award of Kafrelsheikh University for the international scientific publication, 2020</li> <li>➤ Award of Kafrelsheikh University for the international scientific publication, 2021</li> </ul>
MEMBERSHIPS	<ul style="list-style-type: none"> <li>➤ Member of European Society for Soil Conservation (ESSC) from 2013</li> <li>➤ Member of Egyptian Soil Science Society (ESSS) from 2014</li> <li>➤ The Scientific Society of Environmental Protection from 2016</li> </ul>
EDITORIAL BOARDS	<ul style="list-style-type: none"> <li>➤ Journal of Egyptian Soil Science Society (ESSS) (2015- present)</li> <li>➤ Journal of The Scientific Pages of Crop Science (2016)</li> <li>➤ Environment, Biodiversity and Soil Security Journal (EBSS) as an Associate Editor and founder (from 20 Feb. 2017 to 2019) (<a href="http://jenvbs.journals.ekb.eg">http://jenvbs.journals.ekb.eg</a>)</li> <li>➤ Journal of Sustainable Agricultural Sciences (JSAS) (from 2017)</li> <li>➤ DRC Sustainable Future: Journal of Environment, Agriculture, and Energy ISSN 2732-2483 (2020)</li> <li>➤ Review board (Based on Publons Verified Record)</li> </ul>
GUEST EDITOR	<ul style="list-style-type: none"> <li>➤ Plants (mdpi)</li> <li>➤ Frontiers in Nanotechnology</li> <li>➤ Frontiers in Agronomy</li> </ul>
REVIEWER	<p>83 Reviews of 67 manuscripts (From date range November 2017 - November 2022), Sample of some Journals:</p> <ul style="list-style-type: none"> <li>➤ Critical Reviews in Biotechnology</li> <li>➤ Chemosphere</li> <li>➤ Scientific Reports</li> <li>➤ Journal of Hazardous Materials</li> <li>➤ Environmental and Experimental Botany</li> <li>➤ Ecotoxicology and Environmental Safety</li> <li>➤ Environmental Chemistry Letters</li> <li>➤ Plant Physiology and Biochemistry</li> <li>➤ Acta Physiologiae Plantarum</li> <li>➤ Plant Growth Regulation</li> <li>➤ Environmental Science and Pollution Research</li> <li>➤ Applied Soil Ecology</li> <li>➤ Plant and Soil</li> <li>➤ Journal of Soil Science and Plant Nutrition</li> <li>➤ Frontiers in Plant Science</li> <li>➤ Materials Letters</li> <li>➤ Archives of Agronomy and Soil Science</li> <li>➤ Journal of Hazardous Materials</li> <li>➤ Arabian Journal of Geosciences</li> <li>➤ International Journal of Phytoremediation</li> <li>➤ Plants</li> <li>➤ Journal of Soil Science and Plant Nutrition</li> <li>➤ South African Journal of Botany</li> <li>➤ Food Research International</li> <li>➤ Journal of Nanomaterials</li> </ul>
TRAINING COURSES ATTENDED: (AT FACULTY LEADERSHIP AND DEVELOPMENT CENTRE)	<ul style="list-style-type: none"> <li>➤ Management of scientific research (June, 2005). Faculty Leadership and Development Center, Tanta University, Egypt</li> <li>➤ Ethics and morals of the teaching career (June, 2005). Faculty Leadership and Development Center, Tanta University, Egypt</li> <li>➤ Effective teaching (August 2005). Faculty Leadership and Development Center, Tanta University, Egypt</li> <li>➤ Thinking Skills (June 2006). Faculty Leadership and Development Center, Tanta University, Egypt</li> </ul>

- Preparing a university teacher (July 2010). Faculty of Education, Kafrelsheikh University, Egypt
- International scientific publishing (March 2014). Faculty Leadership and Development Center, Cairo University, Egypt
- Effective communication skills (March 2014). Faculty Leadership and Development Center, Cairo University, Egypt
- Exams and students evaluation systems (March 2014). Faculty Leadership and Development Center, Cairo University, Egypt
- Symposium on "Contamination of plant foods" held at Kafrelsheikh University, Faculty of Agriculture, on November 14, 2016, organized by Scientific Society for Environmental Development (SSED), Kafr El-Sheikh, Egypt.
- A workshop entitled "Applications of nanotechnology on tobacco plants using plant tissue culture" which held in National Research Centre, Giza by November 15, 2016 in Lab Prof. Hussein Taha with sharing 2 Prof. É. Domokos-Szabolcsy and J. Prokisch from Hungary, Debrecen Uni.).

#### RESEARCH INTERESTS

- Soil health and sustainability
- Bioenergy and bioethanol production
- Soil microbiology
- Phyto- and bio-remediation of trace elements
- Biofortification and production of bio-fortified Crops
- Global climate changes and agriculture
- Organic and precision farming and sustainable development
- Nano-fertilizers and nano-materials
- Chemical and biological synthesis of red elemental selenium
- Biological synthesis of copper nanoparticles
- Green bio-refinery
- Isolation of leaf protein
- Recycling of agro-wastes
- Plant nutrition under biotic and abiotic stresses

#### LAB TECHNIQUES

- Amino acid analyser (INGOS AAA500; Ingos Ltd., Czech Republic)
- Hydride generation atomic fluorescent spectrometer (PSA 10.055 Millennium Excalibur System, PS Analytical Ltd., United Kingdom)
- UHPLC-ESI-MS
- Atomic Absorption Spectrophotometry
- Microwave Digestion system
- PCR
- Gel electrophoresis (horizontal and vertical)
- DNA extraction
- Kjeldahl
- Nanodrop
- Growing vegetables in a fully closed growing system under greenhouse conditions and hydroponics

#### COORDINATION OF INTERNATIONAL CONFERENCES

- Member in the organizing and different committees of the 11th International Conference "Climate Changes and Sustainable Development of Natural Resources" Organized by the Egyptian Soil Science Society (ESSS), Soil and Water Sciences Department, Faculty of Agriculture, Kafrelsheikh University, and Soils, Water and Environment Institute (SWERI), 5-7 May 2014, Kafr El-Sheikh, Egypt.
- Pannonian Plant Biotechnology workshops "Advances in Plant Breeding and Plant Biotechnology in Centre of Agricultural Sciences" at University of Debrecen, Hungary (June 4-6, 2012)

#### MISCELLANEOUS

- Co-Coordinator for establishment of Memorandum of Understanding (MOU) between Egyptian Soil Science Society (ESSS) and the following Soil Science Societies:
- Italian Soil Science Society (Società Italiana della Scienza del Suolo, SISS) on June 20, 2012 (established from January 1, 2014).
- European Society for Soil Conservation (ESSC) on November 16, 2013 (established).
- Hungarian Soil Science Society (HSSS or Magyar Talajtani Társaság, MTT) on November 16, 2013 (established from January 1, 2014).

#### HOBBIES AND RECREATIONAL ACTIVITIES

- Playing and watching football and other sports
- Reading
- Walking
- Bowling

