SZÉCHENYI EGYETEM
UNIVERSITY OF GYŐR

Albert Kázmér Mosonmagyaróvári Kar

Dr. Nevien Elhawat

Research Fellow

Contact information

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Languages: Arabic (Native);
English (Advanced: ITP (423));
Hungarian (Elementary)

Current position

Széchenyi István Egyetem, Albert Kázmér Mosonmagyaróvári Kar – Research Fellow, Department of Food Biotechnology

9200 Mosonmagyaróvár, Lucsony utca 15–17.

Education and academic degrees

- **2002–2006:** B.Sc., Al-Azhar University, Biological and Environmental Sciences Department, Egypt (96.52%) – Environmental engineer
- **2009**: M.Sc. (Thesis: „***Impact of climate change on growth and production of dry bean (Phaseolus vulgaris)***”), University of Minufiya, Sustainable Development of Environment and its Project Management Department, Egypt
- **2015:** Ph.D. (Thesis: „***A study on copper-tolerance of giant reed (Arundo donax L.) ecotypes for bioenergy purposes***”, *cum laude*), University of Debrecen, Debrecen, Hungary

Professional experience

- **2007–2010:** Demonstrator – Al-Azhar University, Tanta, Egypt
- **2010–2016:** Teaching Assistant – Al-Azhar University, Tanta, Egypt
- **2016–2021:** Assistant professor – Al-Azhar University, Tanta, Egypt
- **2018–2025:** Research fellow – Institute of Applied Plant Biology, University of Debrecen, Hungary
- **2025.09.02.-:** Research fellow – Department of Food Biotechnology, Széchenyi István Egyetem, Mosonmagyaróvár, Hungary

Managerial skills

- Quality Manager of Animal Lab in Faculty of Home Economics, Tanta, Egypt (2016-2018)

Positions and professional public engagement

- Arab-African Cooperation Foundation
- Scientific advisor (Arab Centre for Nanotechnology (ID no. 622)

- Member of the Egyptian Society for Sustainable Agricultural Development
- The Scientific Society of Environmental Protection (2016-)

Awards and recognitions

- Award of Kafrelsheikh University for the international scientific publication (2013, 2014, 2015, 2017, 2018, 2019, 2020, 2021)
- Postdoctoral scholarships – University of Debrecen (2017, 2018, 2019)
- PhD scholarship – University of Debrecen (2012-2015)

Educational and research activities

Al-Azhar University, Tanta, Egypt (2006-2021) I was involved in teaching undergraduate and graduate students the theoretical and practical parts of the following subjects: General environmental science, Applied environmental science, Environmental pollution, General biology, General statistics, and Environmental Behaviours. I participated in the establishment of the Animal Lab in Faculty of Home Economics. I was an academic advisor to many undergraduate students. However, during the period from November 2017 to July 2019, I was on spouse escort leave.

University of Debrecen, Hungary (2018-2025) My main duty is doing research, including selenium-fortification of alfalfa green biomass to produce functional leaf protein enriched with selenium and other phytonutrients, utilization of alfalfa green biomass-originated by-products for the production of single cell protein and bioactive molecules (phytochemicals), preparation of red elemental selenium for bio-fortification, the evaluation of main products and by-products produced from the microelement-fortified alfalfa green biomass by biochemical and analytical methods, and monitoring the changes in soil biota structure upon the soil application of different selenium forms. I also take part in teaching graduate students of the plant protection and plant biotechnology programs in the English language (Plant biotechnology, Waste management, Plant immunity, and Environmental pollution). I participate in writing proposals for international projects, and conference organizations.

Topic management and talent management (summary until 2025):

- 3 students graduated with MSc degrees

Grant and project activities

- Co-Investigator in the 2020-1.1.2-PIACI-KFI-2021-00197.
- Co-Investigator in the GINOP_PLUSZ-2.1.1-21-2022-00241.
- 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 Found
- 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 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.
- 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)

Publications, citations, and patents

Publication data (MTMT, until 14 September 2026; identifier: 10049833):

- Scientific journal articles: 63
- Conference papers (Hungarian + foreign language): 20
- Conference proceedings: 3

- Popular articles: 7
- Abstracts: 22
- Books/ book excerpts: 21
- Total publications: 109
- Total citations: 1919

Certificates and courses

- July 2010: Training workshop in laboratories of Middle Eastern Regional Radioisotope Center for the Arab Countries and the Department of Isotopes Atomic Energy Authority
- March 2008: Workshop on (Climate Change and Agriculture) at the Egyptian Society of Agricultural and Environmental Sciences in collaboration with the Department of Environment and bioagriculture, Faculty of Agriculture, Al-Azhar University and the Center for Agricultural Research (Central Laboratory for Agricultural climate (CLAC))
- November 2007: Workshop on (First Week of the Environment) Under the slogan (Environment is the Life) at the Department of Biological and Environmental Sciences, Faculty of Home Economics, Al-Azhar University In the framework of Environmental Awareness
- April 2007: Workshop on (New climate change) the Institute of Environmental Studies and Research, University of Minufiya, a branch of Sadat
- July 2006: Training workshop on hardware and tools available in The Regional Center for Mycology and Biotechnology, Al-Azhar University
- July 2019: Attending the training course held by the Quality Assurance and Training Center at Al-Azhar University under the title "Effective Presentation Skills"
- July 2019: Attending the training course held by the Quality Assurance and Training Center in Al-Azhar under the title "Techniques of Scientific Research Design"
- July 2019: Attending the training course set up by the Quality Assurance and Training Center in Al-Azhar under the title "Examination Systems and Student Evaluation"
- July 2019: Attending the training course held by the Quality Assurance and Training Center in Al-Azhar under the title "Curriculum Maps and Course Description"
- August 2019: Attending the training course set up by the Quality Assurance and Training Center in Al-Azhar under the title "Self-study Preparation for Higher Education Institutions"
- September 2017: Conducting a seminar entitled (The Impact of Pollution on the Fetus) within the framework of the activities of the faculty directed to women in the period from March 2017 to March 2018, under the supervision of the Community Participation and Environmental Development Committee of the Quality Assurance Unit at the Faculty of Home Economics, Egypt
- April 2017: Holding a seminar entitled (the Health, Psychological and Social Impacts of Addiction and its Impact on the Environment) under the supervision of the Quality Assurance Unit at the Faculty of Home Economics, Egypt
- November 2016: Participation and attendance in a workshop (applications of nanotechnology on the smoke plant in the field of tissue culture) organized by the nicotine project in the Department of Land and Water and funded by the Fund for Science and Technology Development in cooperation with the Scientific Society for the Protection of the Environment and the National Research Center at the Department of Plant Biotechnology, National Research Center, Egypt
- April 2016: Holding a seminar entitled (Green Consumption) within the framework of the Environment Day organized by the Department of Biological and Environmental Sciences under the supervision of the Quality Assurance and Accreditation Unit at the Faculty of Home Economics, Egypt

International professional activities

- Participation in the quality activity work of the Teaching and Education Committee

- Participation in the quality activity work of the Committee for the Development of Teaching and Learning Milestones
- Participation in the quality activity work of the Administrative Authority Committee
- Academic Editor – Indoor Air (2025-)
- Associate Editor – Frontiers in Plant Science (2026-)
- Editor – DRC Sustainable Future: Journal of Environment, Agriculture, and Energy ISSN 2732-2483 (2020-2024)
- Guest editor:
  1- Sustainability (mdpi)
  2- Agronomy (mdpi)
  3- Frontiers in Nanotechnology
  4- International Journal of Molecular Sciences (mdpi)
  5- Phyton-International Journal of Experimental Botany (Springer)

Conferences

- 40th ÓVÁR SCIENTIFIC DAY INTERNATIONAL CONFERENCE – Albert Kázmér Faculty of Agricultural and Food Sciences Széchenyi István University Győr-Mosonmagyaróvár during November 12, 2025. Oral presentation entitled: Leaf Protein Concentrates (LPCs): A Game-Changer for Sustainable Food and Feed Systems"
- “11th Edition of Innovations in Food Science and Human Nutrition (IFHN-2026)” during July 01-02, 2026, at Rome, Italy. Poster presentation entitled: Controlled Enzymatic Hydrolysis of Distinct Dietary Fibers Generate Targeted Prebiotic Substances of Enhanced Probiotic Functionality"