



Ahmed Mahmoud Hassan Mohamed

Lecturer of Biochemistry

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Date and Place of Birth : 1st August 1986, Alexandria, Egypt
Nationality : Egyptian
Marital status : Married

Academic degrees

PhD. (Nano Bioanalysis and Food Safety): Collage of Food Science, Huazhong Agricultural University (HZAU), China, Graduated date: June 2019.

Thesis title: "Sensors to detect Sulfur Pesticide residues & Biothiols"

M.Sc. (Biochemistry): Department of Agriculture Biochemistry, Benha University (BU), Egypt, Graduated date: February 2012.

Thesis title: "Biochemical studies on canola seeds"

B.Sc. (Biochemistry), Department of Agriculture Biochemistry, Benha University (BU), Egypt, Graduated date: July 2007.

Research Interests

Smart bioassay
Sensors & Biosensors
Food biochemistry & Food nanotechnology
Nutrition and macronutrients
Protein, protein interaction
Bioactive peptides production and biological effectiveness
Pesticide residues determination by nano-sensors in food sources

Current Scientific Activities

Reviewer at **Analytica Chimica Acta** (ACA) at Elsevier starting from 2018 till now.

International Projects

- 1- Co.PI for international project between Egypt and Italy under title of "**Fabrication of novel nano mucilage-saponin edible coating extracted from Egyptian and Italian barberry figs (*Opuntia ficus-indica*) peels and cladodes and its preservation effect Navel orange during storage**". This project is as a scientific cooperation between the Academy of scientific research and technology, Benha university and National research council of Italy (2022-2023).

International Papers

- 1- Published paper under title of **"Impact of Sprouting Process on the protein Quality of Yellow and Red Quinoa (*Chenopodium quinoa*)"** Hassan Barakat, Maryam M. Al-Qabba, Raya Algonaiman, Khadija S. Radhi, Abdulkarim S. Almutairi, Muath M. Al Zhrani and [Ahmed Mohamed](#). *Molecules*, **2024**, 29:404.
- 2- Published paper under title of **"Nephroprotective Effect of Fennel (*Foeniculum vulgare*) Seeds and Their Sprouts on CCl₄-Induced Nephrotoxicity and Oxidative Stress in Rats"**. Hassan Barakat, Ibrahim Ali Alkabeer, Sami A. Althwab, Hani A. Alfheaid, Raghad M. Alhomaidd, Mona S. Almujaiddil, Raya S. A. Almuziree, Taqwa Bushnaq and [Ahmed Mohamed](#). *Antioxidants*, **2023**, 12: 325.
- 3- Published paper under title of **"Phenolics and Volatile Compounds of Fennel (*Foeniculum vulgare*) Seeds and Their Sprouts Prevent Oxidative DNA Damage and Ameliorates CCl₄-Induced Hepatotoxicity and Oxidative Stress in Rats"**. Hassan Barakat*, Ibrahim Ali Alkabeer, Thamer Aljutaily, Mona S. Almujaiddil, Reham M. Algheshairy, Raghad M. Alhomaidd, Abdulkarim S. Almutairi and [Ahmed Mohamed](#). *Antioxidants*, **2022**, 11: 2318.
- 4- Published paper under title of **"Smartphone-Based Colorimetric Detection of Chromium (VI) by Maleic Acid-Functionalized Gold Nanoparticles"**. [Ahmed Mohamed](#), Xuemeng Li, Chengfei Li, Xuegang Li, Chao Yuan*, Hassan Barakat*. *Applied science*, **2021**, 11: 10894.
- 5- Published paper under title of **"Microstructural, Volatile Compounds, Microbiological and Organoleptical Characteristics of Low-Fat Buffalo Milk Yogurt Enriched with Whey Protein Concentrate and Ca-Caseinate during Cold Storage"**. Hassan Barakat*, [Ahmed Mohamed](#), Dalia G. Gemiel, Atallah A. Atallah. *Fermentation*, **2021**, 7, 250: 1-21.
- 6- Published paper under title of **"Single microbead-based fluorescence "turn on" detection of biothiols by flow cytometry"**. [Ahmed Mohamed](#), Xuemeng Li, Jinqian Li, Chuangye Lin, Abdullah M. Asiri, Hadi M. Marwani, Suhua Wang, Zhidong Xiao*, Bin Li*, Chao Yuan*. *Talanta*, **2019**, 195: 197–203.

International Books

- 1- Published chapter at book under title of “**Berry Bioactive Compound By-Products**” with Academic Press (ELSEVER) publishing (ISBN: 978-0-323-95600-0) 2023.
- 2- Published book under title of “**Biochemical studies on canola seeds**” with NOOR publishing (ISBN: 978-3-330-80257-5) 2017.

Faculty Titles

- 1- Membership of the **Project Management Office** at faculty of Agriculture, Benha University.
- 2- Director of the **Programmatic Accreditation Review Unit** for Biochemistry department at faculty of Agriculture, Benha University.

E-Links:

- 1- <http://www.bu.edu.eg/staff/ahmedmohamed6>
- 2- <https://scholar.google.com.eg/citations?user=HWtoTSkAAAAJ&hl=en>
- 3- https://www.researchgate.net/profile/Ahmed_Mohamed75
- 4- <https://www.facebook.com/ahmed.m.hassan.5439>
- 5- <https://twitter.com/crazymedo3000>
- 6- https://www.linkedin.com/in/ph-d-ahmed-mohamed-13b9a9b5?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_contact_details%3BkYjEauSVSz2Fss22R4TEww%3D%3D

For recommend:

- 1- Prof. Hassan Barakat: hassan.barakat@fagr.bu.edu.eg
- 2- Prof. Zhidong Xiao: zdxiao@mail.hzau.edu.cn
- 3- Prof. Chao Yuan: yuanchao@mail.hzau.edu.cn
- 4- Prof. Bin Li: libinfood@mail.hzau.edu.cn





华中农业大学
HUAZHONG AGRICULTURAL UNIVERSITY

GRADUATION CERTIFICATE



(无华中农业大学钢印无效)

This is to certify that

**AHMED MAHMOUD
HASSAN MOHAMED**

from Egypt, born on 1st August, 1986 specialized in Food Science from September, 2016 to June, 2019 has completed the requisite courses for PhD program, satisfied all other requirements, passed thesis defense, and is hereby awarded this graduation certificate at Wuhan, P. R. China on 20th June, 2019.



No. 105049201901000034

Teaching experience

- Teaching theoretical English course (Advanced proteins) to post-graduate students.
- Teaching theoretical course (Advanced Cereal chemistry) to post-graduate students.
- Teaching theoretical course (Advanced Metabolism chemistry) to post-graduate students.
- Teaching theoretical course (Advanced Chemistry of molecular biology and nucleic acids) to post-graduate students.
- Teaching theoretical English course (Formation of Nanoparticles) to post-graduate students.
- Teaching theoretical English course (Biomolecular) to post-graduate students.
- Teaching theoretical course (Applied Biochemistry) to students in fourth year.
- Teaching theoretical course (Poison chemistry) to students in fourth year.
- Teaching theoretical course (Biochemistry) to students in second year.
- Teaching theoretical English course (Biochemistry) to students in second year.
- Teaching practical course (Agric. Biochemistry) to students in the second year.
- Teaching practical course Proteins chemistry to students in the third year.
- Teaching theoretical course (Applied biochemistry) to students in the fourth year.
- Teaching some practical courses (Metabolism chemistry – Applied biochemistry – Natural compounds chemistry – Biotechnology – Environmental recycling wastes chemistry) to students in the fourth year.

Updated: March 2024