

Mostafa Ali Tawfik Ahmed

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Education

- **Philosophy doctorate (Ph.D.) in Microbiology** (March 2019 – March 2023)
Botany and Microbiology Department, Faculty of Science, Suez University, Egypt.
Ph.D. Thesis Title: “Biofuel Production from Agro-Industrial Wastes Using a Novel Microbial Consortium”
- **Master’s degree (M.Sc.) in Microbiology** (November 2015 – August 2018)
Botany and Microbiology Department, Faculty of Science, Suez University, Egypt.
M.Sc. Thesis Title: “Lipid Production by Oleaginous Fungi Isolated from Suez Governorate as a Source of Biodiesel Production”
- **Bachelor of Science (B.Sc.) in Microbiology** (September 2009 – June 2013)
Botany and Microbiology Department, Faculty of Science, Suez University, Egypt.
Grade: Excellent with honor (92.4 %)

Experiences

- **Center Director** (March 2024 – Present)
University Center for Career Development (UCCD), Suez University, Suez, Egypt.
 - Managed a six team members team in different center sectors to enhance team collaboration and work integration.
 - Conducted evaluation assessments and one to one meeting to each one of team member at the end of each quarter based on their key performance indicators (KPIs).
 - Directed the first employment fair at suez university with the participation of 23 company offered about 1700 opportunities to 2455 attendees.
 - Successfully prepared the monthly reports of the center to the upper administration.
 - Successfully managed different career events with more than 40 company.
- **Lecturer of Microbiology** (April 2023 – Present)
Botany and Microbiology Department, Faculty of Science, Suez University, Suez, Egypt.
 - Developed and delivered comprehensive course materials for nine microbiology courses in the Faculty of Science and the technical institute of nursery.
 - Successfully conducted oral, practical, and final exams for over 800 students, ensuring fair assessment, adherence to academic standards, and timely grading, contributing to the students' overall learning experience.
 - Mentored and advised students on research projects, leading to several impactful research publications and presentations by students in the field of microbiology.
- **Coordinator Manager** (December 2018 – present)
University Capacity development Unit (UCDU), Suez University, Suez, Egypt.
 - Actively participated in and implemented the strategic plan for the UCDU center.
 - Successfully lead five UCDU training coordinators and thirteen trainers, driving a significant improvement in the quality of training services which resulted in a 10% increase in our target per year.
 - Successfully implemented more than 240 training courses for more than 8500 trainees from the teaching staff members and post graduate students.
 - Participated in the preparation of the UCDU administrative regulations.
 - Successfully prepared and documented all the monthly, quarter, and annual reports of UCDU.
- **Career Development Specialist** (October 2022 – February 2024)

UCCD, Suez University, Suez, Egypt.

- Conducted over 1,200 student interviews for training courses and job opportunities.
- Coordinated and facilitated more than 50% of the center's training courses.
- Conducted over 500 one-on-one advising sessions, providing personalized guidance to students on resume building.
- Successfully implemented 12 on-campus and off-campus events with faculty deans and different employers.
- Trained more than 476 students through 19 workshops.

➤ **Senior Researcher** (October 2021 – December 2023)

Egypt – China joint project 43125, Investigation the mechanism and enhancement technologies of in-situ biogas purification through coupled hydrogen and biogas production from anaerobic digestion of chicken manure, crop residue and food wastes, Science and Technology Development Fund (STDF), Ministry of Higher Education and Research, Egypt.

- Actively directed six team members to work according to the project timeline and giving them the needed technical support.
- Actively collected more than 50 samples from different sources (cow rumen, sewage, wastewater)
- Successively isolate and purify different aerobic and anaerobic microbial isolates.
- Participated in writing the project technical reports actively.
- Conducted different systems to enhance biohydrogen and biomethane production using agro-industrial wastes by applying two kinetic models.

➤ **ERASMUS+ Student Mobility** (September 2019 – December 2019)

Student Mobility within the ERASMUS+ Programme, Key Action 107, over the period 01.09.2019- 30.11.2019, at the faculty of Sciences (Technical University of Cluj-Napoca, North University Centre of Baia Mare), Romania.

- collected more than 30 water samples from different mining sites.
- Participated in writing the project technical reports actively.

➤ **Assistant Lecturer of Microbiology** (August 2018 – March 2023)

Botany and Microbiology Department, Faculty of Science, Suez University, Suez, Egypt.

- Instructed and mentored over 3,000 students across three faculties (Science, Education, and Fish Resources) through 17 practical courses, imparting technical and practical skills in microbiology and molecular genetics.
- Developed and implemented effective teaching methodologies, resulting in consistently high student engagement, comprehension, and performance in laboratory work and coursework.
- Provided one-on-one support and guidance to students, enhancing their problem-solving abilities.

➤ **Trainer** (March 2016 – present)

Suez University, Suez, Egypt.

- Conducted over 2,000 training hours as part of the Children's University project, delivering educational content and fostering learning among young students.
- Provided more than 10,000 training hours to university staff members, enhancing their skills, knowledge, and professional development.
- Successfully delivered training to youth through UCDU, accumulating more than 10,000 training hours, empowering them with essential life and career skills.
- Contributed more than 50 training hours to the development and growth of young individuals through UCCD, offering specialized training and mentorship.

➤ **Training Coordinator** (November 2015 – December 2018)

UCDU, Suez University, Suez, Egypt.

- Successfully coordinated more than 100 training courses for more than 2500 trainees from the teaching staff members and postgraduate students.
- Successfully documented all required documentation for those courses.

➤ **Demonstrator of Microbiology** (January 2015 – August 2018)

Botany and Microbiology Department, Faculty of Science, Suez University, Suez, Egypt.

- Imparting technical and practical skills in microbiology and molecular genetics to over 2,000 students across three faculties (Science, Education, and Fish Resources) through 16 practical courses.
- Collaborated with faculty members to enhance the quality of course materials and actively participated in students research projects, contributing to advancements in the field of microbiology and molecular genetics.

Publications

- Elerakey, N., Abdelrahman, S. M., **Tawfik, M. A.**, Rasmeey, A. H. M., Aboseidah, A. A., & Hawary, H. (2024). Enhancing hydrogen production from anaerobic digestion of pretreated fruit and vegetable peels using *Clostridium butyricum* NE133. *Biomass and Bioenergy*, 191, 107485.
- Rasmeey, A. H. M., Abd-Alla, M. H., **Tawfik, M. A.**, Bashandy, S. R., Salah, M., Liu, R., ... & Hassan, E. A. (2023). Synergistic strategy for the enhancement of biohydrogen production from molasses through coculture of *Lactobacillus brevis* and *Clostridium saccharobutylicum*. *International Journal of Hydrogen Energy*, 48(65), 25285-25299.
- **Tawfik, M. A.**, Aboseidah, A. A., Heneidak, S., & Rasmeey, A. H. M. (2023). Kinetic Study of Biohydrogen Production Improvement via Dark Fermentation of Sugarcane Molasses by *Escherichia marmotae*. *Egyptian Journal of Botany*, 63(2), 551-561.
- **Tawfik, M. A.**, Aboseidah, A. A., Heneidak, S., & Rasmeey, A. H. M. (2022). Isolation and identification of ruminant bacteria for biohydrogen production from sugarcane molasses. *Frontiers in Scientific Research and Technology*, 4(1).
- Rasmeey, A. H., **Tawfik, M. A.**, & Abdel-Kareem, M. M. (2020). Direct transesterification of fatty acids produced by *Fusarium solani* for biodiesel production: effect of carbon and nitrogen on lipid accumulation in the fungal biomass. *Journal of applied microbiology*, 128(4), 1074-1085.

Teaching Experiences

Courses	Target Students	Place
<ul style="list-style-type: none"> • General microbiology • Fungi 2 • Industrial Microbiology • Microbial stress • Plant pathology • Microbiology and Immunology • Systematic botany • Systematic fungi • Microbiology and infection control • Laboratory safety • Cell ultra structure • Microbial stress • Practical Biotechnology and Tissue Culture • Practical Bacteria and Fungi • Practical Analytical Microbiology • Practical Systematic Botany • practical Microbial Physiology • Practical Molecular Biology • Practical Applied Microbiology • Practical Mycology • Practical Biostatistics • practical Genetic Engineering and Biotechnology • Practical Microbiology • Practical Plant Anatomy • Practical Genetics • Practical Food Microbiology • Practical industrial microbiology • Practical stress tolerance fungi • Practical microbial toxins • Practical Proteins and amino acids • Practical antibiotics and metabolite products • practical host-parasite relationship 	1- Science Faculty students 2- Education Faculty students 3- Fish Resources Faculty students 4- Technical Institute of Nursing	Suez University

Other Activities

- **Microbiology and Biochemistry Program Coordinator**, Faculty of Science, Suez University, Suez, Egypt. (October 2024 – Present)
- **Member of Egyptian Study Tour Delegation of Career center directors**, United Kingdom. (January 2024)
- **Research team member** in project 9473, The Academy of Scientific Research and Technology (ASRT), Cairo, Egypt. (April 2022 – March 2024)
- **Member of organization committee** of Suez Scientific Students Conference, For 2019, 2021, 2022, 2023, 2024 and 2025, Faculty of Science, Suez University, Suez, Egypt. (May 2019 – May 2025)
- **Senior research team member** in project 43125, Egypt-China joint grant, Science and Technology Development Fund (STDF), Egypt. (October 2021 – December 2023)
- **Member of organization committee** of Form of Activities and Events of the Egyptian Governmental Universities to Confront Climate Changes, from 22 to 23 September 2022, Suez University, Suez, Egypt. (September 2022)
- **Attendee** in World Youth Form (WYF), from 10 to 13 January 2022, Sharm El-Sheikh, South Sinai, Egypt. (January 2022)
- **Member of protocol operation and management Committee** between Suez university and Small and medium-sized enterprise organization in Egypt. (April 2019 – April 2020)
- **Member of Fifth University dorms Youth Week organization committee**, Suez university, Suez, Egypt. (September 2018)
- **Referee** in the first preliminary exhibition of science and engineering in Suez governorate, Suez, Egypt. (September 2017)
- **Member** of the Board of Egyptian Syndicate of Scientific Professions Council, Suez Branch, Suez, Egypt. (Sep. 2016 - August 2019)

Training / Courses

- **Certified Career Service Provider (CCSP)**, National Career Development Association (NCDA), USA. (March 2024)
- **Certified Professional trainer (CPT)** training, the American Chamber of Commerce (AmCham), Egypt. (October 2023)
- **Promoting Integrity and Transparency Training**, National Academy for Combating Corruption, Administrative Control Authority, Cairo, Egypt. (August 2019)
- **Training of Trainers (TOT)** training in Start and Improve Your Business SIYB Programme, International Labor Organization (ILO) with the cooperation with Suez University. (Apr 2019)
- **TOT** training (General Trainer), Suez University, Suez University, Suez, Egypt. (June 2018)
- **TOT** Training, Egyptian Knowledge Bank (EKB), Supreme Council of Universities, Ministry of Higher Education, Cairo, Egypt. (April 2016)
- **TOT** training in Children's University project, Academy of Scientific Research and Technology, Cairo, Egypt. (March 2016)

References *(available upon request)*