CURRICULUM VITAE

PERSONAL DATA

Name	Tarek Hosny Taha Ahmed Ali
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Position	Associate professor
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EDUCATION

Year	Academic Degree	Institution
2003	Bachelor of Science (Microbiology and Chemistry)	Al-Azhar University, Cairo, Egypt
2008	Master of Science (Botany and Microbiology)	Alexandria University, Alexandria, Egypt
2011	PhD of Science (Microbiology (Minor: Molecular Biology)	Al-Azhar University, Cairo, Egypt

WORK EXPERIENCE

Period	Position	Address
Feb 2025 - Now	Associate Professor	Imam Mohammad ibn Saud Islamic University (IMSIU), Ryiadh, Saudi Arabia
Mar 2024 - Feb 2025	Professor	City of Scientific Research and Technological Applications (SRTA-City), Alexandria, Egypt
Jan 2019 - Mar 2024	Associate Professor	City of Scientific Research and Technological Applications (SRTA-City), Alexandria, Egypt
Nov 2013 – Jan 2019	Assistant Professor	City of Scientific Research and Technological Applications (SRTA-City), Alexandria, Egypt
Aug 2012 – Nov 2013	Assistant Researcher	City of Scientific Research and Technological Applications (SRTA-City), Alexandria, Egypt
Feb 2009 – Aug	Lecturer	King Khalid University, Abha, Saudi Arabia

2012		
Sep 2004 – Jun 2008	M. Sc. Scholarship	City of Scientific Research and Technological Applications (SRTA-City), Alexandria, Egypt

RESEARCH INTERESTS

Environmental Biotechnology, Molecular Biology, Bioenergy, Biosensors, Bionanotechnology

PUBLICATIONS

Reviews and Research Articles:

- Racha Lydia Bouchouka, Zahia Kabouche, Marie Defondaumière, Marlène Debiossat, Catherine Ghezzi, Laurent Riou, **Tarek H. Taha**, Fehmi Boufahja, Hamdi Bendif, and Stefania GarzoliL (2025). C-HRMS/MS-Guided Profiling and Biological Evaluation of *Stachys duriaei* Extracts: Anticancer and Vasorelaxant Mechanisms via Apoptosis and Endothelium Dependent Pathways. Molecules, 30, 3570.
- Hany M. Abdelmoneim, **Tarek H. Taha**, Abdulrahman Mohammed Alhudhaibi, Feras M. Affifi, Abdullah A. Faqihi, Sulaiman A. Alsalamah, and Hamdi Bendif (2025). Green Synthesis of Silver Nanoparticles and Polymeric Nanofiber Composites: Fabrications, Mechanisms, and Applications. Polymers, 17, 2327.
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- Ahmed E. Mansy, Eman A. El Desouky, Ahmed I. Osman, **Tarek H. Taha**, Mohamed. A. Abu-Saied, Hamada El-Gendi, Zhen-Yu Tian, and Ranya A. Amer (2025). Sustainable Bioethanol Production from Soft Tissue Waste: Combining Hybrid Hydrolysis, Yeast Fermentation, and Membrane-Based Separation. Adv. Energy Sustainability Res. 2025, 2500099.
- Ahmed K. Saleh, Hamada El-Gendi, Gamal A.G. Ammar, **Tarek H. Taha** (2025). Sustainable production of bacterial cellulose from delignified rice straw using *Novacetimonas hansenii* TGA isolate: Process optimization and membrane characterization. International Journal of Biological Macromolecules, 146136.
- KAA Abou-Taleb, A Elkelish, NZ Mahdi, MF Lotfy, AM Adss, **TH Taha**, et al., (2025). Maximizing Polylactic Acid Bioplastic Yield from *Lactobacillus rhamnosus* L6 via Response Surface Methodology: Evaluating Antimicrobial Effectiveness, Physical and chemical properties of PLA. ACS Omega, 10(29) 32038−32052.
- Khaled M.A. El-Feki, Mohammad M. El-Metwally, **Tarek H. Taha** et al. (2025). Artificial neural network-based fungal chitin production for submicron-chitosan synthesis: effects on bioremediation for heavy metal pollution. International Journal of Biological Macromolecules, 144271.
- Pranab Dev Sharma, Abdulrahman Mohammed Alhudhaibi, Abdullah Al Noman, Emad M. Abdallah, **Tarek H. Taha** and Himanshu Sharma (2025). Systems biology-driven discovery of host-targeted therapeutics for oropouche virus: integrating network pharmacology, molecular docking, and drug repurposing. Pharmaceuticals 18 (5), 613.
- Rania H. Taha, **Tarek H. Taha**, Mohamed Elnouby, E. A. El Desouky, Abdulrahman M. Alhudhaibi, Mahmoud Moustafa, Mervat A. Elsherif, Mohamed Yahia, M. A. Abu-Saied

(2024). Environmentally Green Film Blends: Polyvinyl Alcohol (PVA)/Cellulose Acetate (CA)/Potato Peel Starch as an Alternative to Petroleum Plastics. Cellulose. 31(10): 6155–6172.

- A. E. Mansy, Eman El-Desouky, Hamada El-Gendi, M. A. Abu-Saied, **Tarek H. Taha**, and Ranya A. Amer, Zhen-Yu Tian (2024). Sustainable production of bioethanol from office paper waste and its purification via blended polymeric membrane. Energy conversion and management, 299: 117855.
- Eman Farid, Elbadawy A Kamoun, **Tarek H. Taha,** Ali El-Dissouky, Tarek E. Khalil (2024). Eco-friendly biodegradation of hydrocarbons compounds from crude oily wastewater using PVA/alginate/clay composite hydrogels. Journal of Polymers and the Environment. 32(1), pp. 225–245.
- **Tarek H. Taha**, M. A. Abu-Saied, Mohamed Elnouby, Mohamed Hashem, Saad Alamri, E. A. El Desouky, Kareem Morsy (2024). Profitable exploitation of biodegradable polymer including chitosan blended potato peels' starch waste as an alternative source of petroleum plastics. Biomass Conversion and Biorefinery. 14(1), pp. 207–215.
- A. E. Mansy, Eman El-Desouky, M. A. Abu-Saied, Ahmed Saleh, **Tarek, H. Taha,** Waleed K. El-Zawawy, Yasser R. Abdel-Fattah (2024). Separation of bioethanol using in situ composites membrane of bacterial cellulose/Poly (2-Acrylamido-2-Methylpropane Sulfonic Acid) (AMPS) and their characterization. Biomass Conversion and Biorefinery. 14(16): 18697–18706.
- Rania H. Taha, **Tarek H. Taha**, M. A. Abu-Saied, A. E. Mansy, Mervat A. Elsherif (2023). Successful production of bioethanol from olive waste residues followed by its purification using poly(Acrylonitrile-co Methylacrylate) /polymethylmethaacrylate membrane. Biomass Conversion and Biorefinery. 13(17): 16115–16129.
- **Tarek H. Taha**, Rania H. Taha, Mohamed Abd AlRaheem Abu Saied, Ahmed Mansy, Mervat A. Elsherif (2023). Preparation and characterization of Polyvinyl chloride/Polymethyl-methacrylate/Graphite [PVC/PMMA/G] membrane used for the purification of the bioethanol produced from the hydrolysis and fermentation of rice waste. Egyptian Journal of Chemistry, 66(13): 267-281.
- Ahmed K. Saleh, Hamada El-Gendi, Julie Basu Ray, and **Tarek H. Taha** (٢٠٢٣). A low-cost effective media from starch kitchen waste for bacterial cellulose production and its application as simultaneous absorbance for methylene blue dye removal. Biomass Conversion and Biorefnery. 13:12437-12449.
- Yasmein Hussein, Elbadawy A. Kamoun, Samah A. Loutfy, Rehab Amin, Esmail M. El-Fakharany, Tarek H. Taha, Mahmoud Amer (2023). Physically and chemically-crosslinked L-arginine-loaded polyvinyl alcohol- hyaluronic acid- cellulose nanocrystals hydrogel membranes for wound healing: infuence of crosslinking methods on biological performance of membranes in-Vitro. J. Umm Al-Qura Univ. Appll. Sci. 9(3):304–316.
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- Hany M. Abdelmoneim, **Tarek H. Taha**, Mohamed S. Elnouby, Hala Mohamed AbuShady (2022). Extracellular biosynthesis, OVAT/statistical optimization, and characterization of

silver nanoparticles (AgNPs) using *Leclercia adecarboxylata* THHM and its antimicrobial activity. Microbial Cell Factories, 21(1), 277.

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- Eman Farid, Elbadawy A Kamoun, **Tarek H. Taha,** Ali El-Dissouky, Tarek E. Khalil (2022). PVA/CMC/Attapulgite clay composite hydrogel membranes for biomedical applications: Factors affecting membranes crosslinking and bioevaluation tests. Journal of Polymers and the Environment. 30(11): 4675–4689.
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- Sara E. AbdElhsfez, **Tarek H. Taha**, Ahmed E. Mansy, et al. (2022). Experimental optimization with emphasis on techno-economic analysis of production and purification of high value-added bioethanol from sustainable corn stover. Energies. 15 (17), 6131.
- Ghada E. Hegazy, **Tarek H. Taha**, and Yasser R. Abdel-Fattah (2022). Investigation of the optimum conditions for the electricity generation by archaeon *Natrialba* sp. GHMN55 using the Plackett-Burman design: single and stacked MFCs. Microbial Cell Factories. 21(1):82.
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- M. A. Abu-Saied, Mohamed Elnouby, **Tarek Taha**, Muhammad El-shafeey, Ali G. Alshehri, Saad Alamri, Huda Alghamdi, Ali Shati, Sulaiman Alrumman, Mohamed Al-Kahtani and Mahmoud Moustafa (2020). Potential Decontamination of Drinking Water Pathogens Through k-Carrageenan Integrated Green Bottle Fly Bio-Synthesized Silver Nanoparticles. Molecules. 25:1936.
- Shrief Elbassyoni, Elbadawy A. Kamoun, **Tarek H. Taha**, Mohamed A. Rashed, and Fathi A. ElNozahi (2020). Effect of Egyptian Attapulgite Clay on the Properties of PVA-HES–Clay Nanocomposite Hydrogel Membranes for Wound Dressing Applications. Arabian Journal for Science and Engineering. 45:4737–4749.
- **Tarek H. Taha**, Mohamed S. Elnouby, M.A. Abu-Saied, Saad Alamri (2020). Tested functionalization of alginate-immobilized ureolytic bacteria for improvement of soil biocementation and maximizing water retention. RSC Adv., 10, 21350–21359.

- Mohamed A. Hassan, **Tarek H. Taha**, Gamal M. Hamad, Mohamed Hashem, Saad Alamri, and Yasser S. Mostafa (2020). Biochemical characterisation and application of keratinase from *Bacillus thuringiensis* MT1 to enable valorisation of hair wastes through biosynthesis of vitamin B-complex. International journal of biological macromolecules. 153: 561-572.
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- **Tarek H. Taha**, Mohamed S. Elnouby, M.A. Abu-Saied, and Saad Alamri (2020). The green exfoliation of graphite waste and its suitability for biosensor applications. RSC Adv., 10, 9347–9355.
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- **Tarek H. Taha**, M. A. Abu-Saied, Mohamed S. Elnouby, Mohamed Hashem, Saad Alamri, Yasser Mostafa (2019). Designing of pressure-free filtration system integrating polyvinyl alcohol/chitosan-silver nanoparticle membrane for purification of microbe-containing water. Water Supply, 19 (8): 2443–2452.
- Mahmoud MOUSTAFA; Saad ALAMRI; **Tarek TAHA**; Ali SHATI; Sulaiman ALRUMMAN; Mohamed ALKAHTANI (2019). Cloning and characterization of 66 kDa streptavidin-binding peptides (SBP) of *Pisum sativum* L. embryo specific to var. Alaska. BIOCELL. 43(3): 155-166.
- Mahmoud MOUSTAFA; Saad ALAMRI; Hoida ZAKI; Naglaa LOUTFY; **Tarek TAHA**; Ali SHATI; Mohamed ALKAHTANI; Sajda SIDDIQI (2019). Gene expression of 49 kDa apyrase, cytoskeletal proteins, ATPase, ADPase and amino acid contents of *Pisum sativum* (L.) cells germinated in *Euryops arabicus* (Steud. ex Jaub. & Spach) water extract. BIOCELL. 43(2): 81-87.
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