



Mahmoud Khalil

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LinkedIn: www.linkedin.com/in/mahmoud-khalil-9527a135

Google Scholar: https://bit.ly/MKhalil_GoogleScholar

Scopus: https://bit.ly/MKhalil_Scopus

Researchgate: https://bit.ly/MKhalil_ResearchGate

Work: Department of Biological Sciences Faculty of Science, Beirut Arab University,
11-5020 Beirut (Lebanon)

Other: Faculty of Science Alexandria university, 11511 Alexandria (Egypt)

ABOUT ME

Highly motivated and innovative Molecular cell biologist with specialisation in molecular cell biology, genetic engineering, cancer cell signaling, molecular genetics, epigenetics, phytochemicals and carcinogenesis, and biotechnology. My objective is to extend my educational capabilities and to work on challenging research through a growth-oriented position. Expertise in development and execution of molecular and cellular biology-based research methods. Passionate about learning new scientific skills. Enthusiastic team player adept at providing leadership while also learning from fellow team members. Experienced in managing multiple projects simultaneously. Effective academic tutor, advisor, and communicator, and can intellectualise complex understanding to audiences with varied expertise. Associate-Trainer certified from the International Board of Certified Trainers (IBCT)-Training of Trainers (TOT)-MENA region.

EDUCATION AND TRAINING

Ph.D. Molecular Biology & Genetic Engineering

University College London (Ranked #8 in QS Rankings 2022) [12/2005 – 05/2010]

Address: London (United Kingdom)

M.Sc. Experimental Zoology

Faculty of Science - Alexandria University [08/1999 – 12/2004]

Address: Alexandria (Egypt)

Postgraduate study for the requirements of M.Sc.

Faculty of Science - Alexandria University [08/1997 – 06/1999]

Address: Alexandria (Egypt)

B.Sc. Zoology "Excellent with Honors"

Faculty of Science - Alexandria University [08/1993 – 05/1997]

Address: Alexandria (Egypt)

Secondary level II

EL-Nasr Boys School (EBS) – (private English language school) [08/1990 – 06/1993]

Address: Alexandria (Egypt)

WORK EXPERIENCE

Head of Department of Biological Sciences

Faculty of Science - Beirut Arab University [07/2020 – Current]

City: Beirut

Country: Lebanon

- Associate Professor of Molecular biology & Genetic Engineering
- Vice of the Quality Assurance Director of the Faculty of Science
- Member of the strategic planning committee
- Supervisor of Biochemistry & Molecular Biology Laboratory.
- Supervisor of Cell & Tissue Culture Laboratory.
- M.Sc. and Ph.D. Theses supervision
- Contributing to ongoing research.
- Academic Advisor.
- Teaching undergraduate and postgraduate students.
- Assisting the committee of Education and Students affairs.

Associate Professor of Molecular biology & Genetic Engineering

Faculty of Science - Beirut Arab University [07/2018 – Current]

City: Beirut

Country: Lebanon

- Teaching undergraduate students (Faculty of Science and Faculty of medicine)
- Teaching postgraduate students.
- Supervisor of Senior Projects.
- Academic Advisor.
- Main Supervisor of Laboratory classes of Biology department
- M.Sc. and Ph.D. Theses supervision.
- Supervisor of Molecular Biology and Cell & Tissue Culture Laboratories.
- Contributing to ongoing research.
- Internal Auditor in Quality Assurance & Accreditation office.
- Assisting the committee of Education and Students affairs.

Professor Molecular Cell Biology (Sabbatical leave)

Faculty of Science - Alexandria University [25/10/2022 – Current]

City: Alexandria

Country: Egypt

Associate Professor of Molecular Cell Biology

Faculty of Science - Alexandria University [05/2017 – 10/2022]

City: Alexandria

Country: Egypt

- Supervisor of Molecular Biology unit.
- M.Sc. and Ph.D. Theses supervision
- Contributing to ongoing research.
- Principal Academic Advisor.
- Teaching undergraduate and postgraduate students.
- Internal Auditor in Quality Assurance & Accreditation office .
- Assisting the committee of education and Students affairs.

Postdoctoral Fellow - Department of Molecular Carcinogenesis

MD Anderson Cancer Center - The University of Texas [05/06/2012 – 30/08/2013]

Country: United States

- *Investigating the effect of small molecule inhibitors on epigenetic molecules in cancer.*
- *Screening of protein arginine methyltransferases for phosphorylation.*
- *Advising and assisting undergraduate and postgraduate students.*
- *Mentoring undergraduate students*
- *Conducting short-term projects*

Lecturer/Assistant Professor of Molecular biology & Genetic Engineering

Faculty of Science - Alexandria University [08/2010 – 06/2017]

City: Alexandria

Country: Egypt

- *Co-Managing Molecular Biology unit.*
- *M.Sc. and Ph.D. Theses supervision*
- *Contributing to ongoing research.*
- *Academic Advisor.*
- *Teaching Undergraduate and postgraduate students.*
- *Internal Auditor in Quality Assurance & Accreditation office .*
- *Assisting the committee of education and Students affairs.*
- *Participating in the Continuous improvement and qualification for accreditation project (CIQAP).*

Teaching Assistant

University College London [12/2006 – 04/2010]

City: London

Country: United Kingdom

- *Assisting professorial staff in undergraduate teaching.*
- *Leading undergraduates in laboratory research.*
- *Assessment of written work of undergraduates.*
- *Financial officer of Prof. Ivan Gout's laboratory, University College London, UK.*

Assistant lecturer

Faculty of Science - Alexandria University [08/2004 – 09/2010]

City: Alexandria

Country: Egypt

- *Contributing to ongoing research.*
- *Teaching practical classes for undergraduate and postgraduate students.*
- *Maintaining and managing laboratory facilities and resources*

Demonstrator

Faculty of Science - Alexandria University [01/1998 – 09/2004]

City: Alexandria

Country: Egypt

- *Tutoring undergraduate courses including: Immunology, Genetics, Molecular biology, Histology, Embryology, Cell biology, Animal Physiology, and Cytology.*

RESEARCH INTEREST

Main Interest:

- *Phytochemicals and Carcinogenesis.*
- *Cancer Cell Signaling.*

- Green Nanomaterials and Biological Applications.
- Biotechnology.

Other Interests:

- Epigenetics and Cancer.
- Regulation of Growth and Energy Metabolism in Cancer.
- Polymorphism and Diseases.
- Environmental DNA (eDNA) and Environment.
- Pollution and Environment.

PUBLICATIONS

Asymmetric Dimethylation of Ribosomal S6 Kinase 2 Regulates Its Cellular Localisation and Pro-Survival Function

[2023]

Int. J. Mol. Sci. 2023, 24(10), 8806 (Q1; impact factor: 6.208)

Mahmoud Khalil, Heba M. Ismail, Ganna Panasyuk, Anna Bdzholo, Valeriy Filonenko, Ivan Gout, Olivier E. Pardo

Proapoptotic and Antiproliferative Effects of the Desert Truffle *Terfezia boudieri* on Colon Cancer Cell Lines

[2023]

Evid Based Complement Alternat Med, Volume (2023), Article ID 1693332 (Q1; impact factor: 1.931)

Katia Sawaya, Sonia Abou Najem, Ghada Khawaja, **Mahmoud Khalil**

Biological Factors Underpinning Suicidal Behaviour: An Update

[2023]

Brain Sciences. 2023; 13(3):505. (JCR2021: Q3; Impact factor: 3.333)

Maya Abou Chahla, **Mahmoud Khalil**, Stefano Comai, Lena Brundin, Sophie Erhardt, Gilles J. Guillemin.

Characterization and evaluation of the therapeutic benefits of pure and lanthanides mono- and co-doped zinc oxide nanoparticles

[2023]

Saudi Journal of Biological Sciences (2023): 103608. (JCR2021: Q2; Impact factor: 4.052)

Maryam Al Bitar, Bahaa Hassanieh, R. Awad, **Mahmoud Khalil**

Actinomycetes, Promising Therapeutic Agents: Characteristics and Active Metabolites

[2023]

Journal of Biology and Today's World 2023, Vol.12, Issue 1, 1-8 (Scopus-SJR: Q4; Impact Score: 0.10)

Rayan Zahr, Rana El Hajj, Rana El Hajj, **Mahmoud Khalil**

Synthesis, Characterization, and Antibacterial Activity of Mg-Doped CuO Nanoparticles

[2022]

Molecules. 2022 Dec 23;28(1):103. (JCR2021: Q2; Impact factor: 4.927)

Russul Adnan, Malak Mezher, Alaa Abdallah, Ramadan Awad, **Mahmoud Khalil**

Effects of continuous prenatal and postnatal global system for mobile communications electromagnetic waves (GSM-EMW) exposure on the oxidative stress biomarkers in female rat liver

[2022]

Heliyon 8, no. 12 (2022): e12367. (JCR2021: Q2; Impact factor: 3.776)

Mariam Salameh, Sukaina Zeitoun-Ghandour, Lina Sabra, Lina Ismail, Ahmad Daher, Ali Bazzi, **Mahmoud Khalil**, Wissam Joumaa

Beneficial role of naringin against methotrexate-induced injury to rat testes: biochemical and ultrastructural analyses

[2022]

Redox Report 27, no. 1 (2022): 158-166. (Q2; Impact factor: 4.412)

Hany Elsayy, Abdullah M Alzahrani, Manal Alfwuaires, Ashraf M Abdel-Moneim, **Mahmoud Khalil**

Insights into COVID-19 Vaccines Development: Translation From Benchside to Bedside

[2022]

Health Sciences Review, 4:100040

Marwa Houssein, Aya El Asir Al Hossainy, Jana Al soussi, Jana El Batch, Lana El-Samadi, Sherine El Imam, Rawan Fakh, Hoda Dakdouk, **Mahmoud Khalil**

Pure and lanthanum-doped zinc oxide nanoparticles: synthesis, characterization, and antibacterial activity

[2022]

Applied Physics A, 128(9), 1-22. (Q2; Impact factor: 2.983)

Maryam Al Bitar, **Mahmoud Khalil**, Ramadan Awad

Effect of dust accumulation on Quercus cerris L. leaves in the Ezer forest, Lebanon

[2022]

iForest-Biogeosciences and Forestry, 15(4), 322. (Q2; Impact factor: 1.836)

Rola Najib, Tarek Houry, Yara Khairallah, **Mahmoud Khalil**

Effect of La³⁺ and Ce³⁺ dopant ions on structural, optical, magnetic, and antibacterial activity of ZnO nanoparticles

[2022]

Materials Today Communications 33 (2022): 104683. (JCR2021: Q3; Impact factor: 3.662)

Maryam Al Bitar, **Mahmoud Khalil**, R. Awad

Effect of BPA on CYP450s expression, and nicotine modulation, in fetal rat brain

[2022]

Neurotoxicology and Teratology (2022): 107095 (Q2; Impact factor: 3.763)

Mohammad H. Merii, Manal M. Fardoun, Khalil El Asmar, **Mahmoud I. Khalil**, Ali H. Eid, Hassan R. Dhaini

Association of FTO Gene Variants rs9939609 and rs1421085 with Polycystic Ovary Syndrome

[2022]

Egyptian Journal of Medical Human Genetics 23, Article number: 45 (Q4; Impact factor: 0.59)

Alaa Alnafjan, Afrah Alkhuriji, Hussah Alobaid, Zainb Babay, **Mahmoud Khalil**

Microbiological and chemical evaluation of dairy products commercialized in the Lebanese market

[2022]

Veterinary World. 2022 Nov 1;15(11):2575-86. (Scopus-SJR: Q2; Impact Score: 1.98)

Hiyam El Kojok, **Mahmoud Khalil**, Rima Hage, Rola Jammoul, Adla Jammoul, Nada El Darra

Effect of Malathion on Protein Profile of a Polychaete Worm from Lake Burullus, Egypt.

[2022]

Egyptian Journal of Aquatic Biology and Fisheries, 26(4): 535-547. (Q3; Impact factor: 0.737)

Rasha Hamdy, Aly Alyami, Mohamed Dorgham, Hassan Awad, **Mahmoud Khalil**, Amira Hamdan

[Phytochemical constituents and therapeutic effects of the essential oil of rose geranium \(Pelargonium hybrid\) cultivated in Lebanon](#)

[2022]

South African Journal of Botany, Volume 147, July 2022, Pages 894-902 (Q2; Impact factor: 2.315)

Lina Fayoumi, **Mahmoud Khalil**, Doaa Ghareeb, Ali Chokr, Mohamed Bouaziz, Mohammad H. El-Dakdouki

[Chemical Composition And Therapeutic Activity Of Lebanese Rose Geranium \(Pelargonium Hybrid\) Extracts](#)

[2022]

Farmacia, 70(3): 477-490 (Q4; Impact factor: 1.433)

Lina Fayoumi, **Mahmoud Khalil**, Doaa Ghareeb, Mohammad El-Dakdouki

[Hawthorn, A Promising Plant with Diverse Biomedical Applications](#)

[2022]

Bacterial Empire, e335

Jamila Ramadan and **Mahmoud Khalil**

[Antibacterial, antioxidant, and repellency potential Of the essential oil from spartium junceum I. Grown in Lebanon](#)

[2022]

BAU Journal-Science and Technology. 2022;4(1):6. (Emerging Citation Index)

Hawraa Zahreddin, **Mahmoud Khalil**, Akram Hijazi

[Investigating the antimicrobial activity of essential oils against pathogens isolated from sewage sludge of southern Lebanese villages](#)

[2022]

GERMS. 2022;12(4):488-506. (Scopus-SJR: Q3; Impact Score: 0.40)

Malak Mezher, Rana El Hajj, **Mahmoud Khalil**

[Characterization of the risk factors associated with urinary tract infection \(UTI\) in Lebanon, and evaluation of the antibacterial activity of hawthorn extract against UTI-causative bacteria](#)

[2022]

Bacterial Empire, 5(3), e496.

Jamila Ramadan, Rana El Hajj, **Mahmoud Khalil**

[Effects of bisphenol a and nicotine on cytochrome p450s in brain and liver of pregnant rats](#)

[2022]

BAU Journal-Science and Technology 4 (1), 7. (Emerging Citation Index)

Mohammad Merii, Manal Fardon, **Mahmoud Khalil**

[Quercus cerris L.: An Overview](#)

[2021]

Forestry Studies | Metsanduslikud Uurimused, Vol. 74, Pages 1–9 (2021) (Q3; Impact factor: 0.56)

Rola Najib, Tarek Hourri, Yara Khairallah, **Mahmoud Khalil**

[Nephroprotective effect of naringin in methotrexate induced renal toxicity in male rats](#)

[2021]

Biomedicine & Pharmacotherapy, Volume 143, November 2021, 112180. (Q1; Impact factor: 6.529)

Hany Elsayy, Abdullah M. Alzahrani, Manal Alfwuaires, Ashraf M. Abdel-Moneim, **Mahmoud Khalil**

[Combination of docosahexaenoic acid and Ginko biloba extract improves cognitive function and hippocampal tissue damages in a mouse model of Alzheimer's disease](#)

[2021]

Journal of Chemical Neuroanatomy, Volume 116, October 2021, 101995 (Q2; Impact factor: 2.353)

Nabila Abdelmeguid, **Mahmoud Khalil**, Rasha Elhabet, Ahmed Sultan, Sherine Abdel Salam

[Analysis of silymarin-modulating effects against acrylamide-induced cerebellar damage in male rats: Biochemical and pathological markers](#)

[2021]

Journal of Chemical Neuroanatomy, Volume 115, September 2021, 101964 (Q2; Impact factor: 2.353)

Hany Elsayy, Abdullah Alzahrani, Manal Alfwuaires, Azza Sedky, Eman El-Trass, Omar Mahmoud, Ashraf Abdel-Moneim, **Mahmoud Khalil**.

[Ameliorative effects of colostrum against DMBA hepatotoxicity in rats](#)

[2021]

Saudi Journal of Biological Sciences. (2021) (Q1; Impact factor: 2.802)

Nabila Abdelmeguid, **Mahmoud Khalil**, Nada Badr, Afrah Alkhuriji, Mohamed El-Gerbed, Ahmed Sultan

[Apoptosis as a mechanism for treatment of Adult T cell Leukemia: Promising drugs from benchside to bedside](#)

[2020]

Drug Discovery Today. (2020) 25 (7), 1189-1197. (Top 5% - Q1; Impact factor: 6.88).

Marwa Houssein, **Mahmoud Khalil**, Maamoun Fatfat, Hala Gali-Muhtasib

[Thymoquinone synergizes with arsenic and interferon alpha to target human T-cell leukemia/lymphoma](#)

[2020]

Life Sciences. (2020) 251, ID 117639. (Q1; Impact factor: 3.448)

Marwa Houssein, Maamoun Fatfat, Zeina Habli, Nasab Ghazal, Sara Mokdad, Hala Khalife, **Mahmoud Khalil**, Hala Gali-Muhtasib.

[Novel Biogenic Silver Nanoparticle-Induced Reactive Oxygen Species Inhibit the Biofilm Formation and Virulence Activities of Methicillin-Resistant Staphylococcus aureus \(MRSA\) Strain](#)

[2020]

Front Bioeng Biotechnology. (2020) Volume 8, Article 433. (Q1; Impact factor: 5.122)

Reham Hamida, Mohamed Ali, Doaa Goda, **Mahmoud Khalil**, Mayasar Al-Zaban.

[Fluorescence polarization assay to detect the presence of traces of ciprofloxacin](#)

[2020]

Scientific Reports. (2020) 10 (1), 1-6. (Q1; Impact factor: 4.525)

Hiyam Kojok, Nada El Darra, **Mahmoud Khalil**, Alessandro Capo, Angela Pennacchio, Maria Staiano, Alessandra Camarca, Sabato D'Auria, Antonio Varriale.

[Synthesis of Silver Nanoparticles Using a Novel Cyanobacteria Desertifilum sp. extract: Their Antibacterial and Cytotoxicity Effects](#)

[2020]

International Journal of Nanomedicine. (2020) 8 (15), 49-63. (Q1; Impact factor: 4.471)

Reham Hamida, Nabila Abdelmeguid, Mohamed Ali, Mashael Bin-Meferij, **Mahmoud Khalil**.

Cytotoxic effect of green silver nanoparticles against ampicillin-resistant *Klebsiella pneumoniae*

[2020]

RSC Advances - The Royal Society of Chemistry (2020). 10, 21136-21146. (Q1; Impact factor: 3.049)

Reham Hamida, Mohamed Ali, Doaa Goda, **Mahmoud Khalil**, Alya Redhwan.

Naringin alleviates methotrexate -induced liver injury in male albino rats and 2 enhances its antitumor efficacy in HepG2 cells

[2020]

Bioscience Reports. (2020). 26; 40(6): BSR20193686 (Q1; Impact factor: 2.535)

Hany Elsayy, Abdulmohsen Algefar, Manal Alfwuaires, **Mahmoud Khalil**, Omar Elmenshawy, Azza Sedky, Ashraf Abdel -Moneim.

Dipteran Carboxymethyl Chitosan as an Inexhaustible Derivative with a Potential Antiproliferative Activity in Hepatocellular Carcinoma Cells.

[2020]

Evid Based Complement Alternat Med, Volume (2020), ID 4396305, 14 pages. (Q1; impact factor: 1.931)

Rana Abdel Rahman, Hedayat Abdel Ghaffar, Afrah Alkhuriji, **Mahmoud Khalil**, Noha Amaly, Attalla El-Kott, Ahmed Sultan.

Association of IL-1 β , IL-6, TNF- α , and TGF β 1 gene polymorphisms with recurrent spontaneous abortion in polycystic ovarian syndrome

[2020]

Disease Markers. Volume (2020) Article ID 6076274, 8 pages (Q2; Impact factor: 2.761)

Afrah Alkhuriji, Suliman Al Omar, Zainb Babay, Manal El-khadragy, Lamjed Mansour, Wazirah Alharbi, **Mahmoud Khalil**.

Cell death by Gallotannin is associated with inhibition of JAK/STAT pathway in human colon cancer cells

[2020]

Current Therapeutic Research (2020). 92, 2020, 100589. (Q3; Impact factor: 0.23)

Marwa Houssein, Widian AbiSaab, **Mahmoud Khalil**, Hala Khalife, Maamoun Fatfat.

Impacts of prolonged chlorpyrifos exposure on locomotion and slow-and fast- twitch skeletal muscles contractility in rats

[2019]

Toxicology Reports, 6, 598-606 (2019). (Q2; Impact factor: 2.73)

Nancy Hallal, Hiba Sabbouri, Ali Salami, Wiam Ramadan, Hassan Khachfe, Mohamed Moustafa, **Mahmoud Khalil**, Wissam Joumaa.

Data on dysfunctional muscle contraction and genes contractile expression associated with chlorpyrifos exposure in slow twitch skeletal muscle

[2019]

Data in Brief, 27, 104775 (2019). (Q1; Impact factor: 0.97)

Nancy Hallal, **Mahmoud Khalil**, Mohamed Moustafa, Wiam Ramadan, Wissam Joumaa.

Developing Spindlin1 Small Molecule Inhibitors Using Protein Microarrays

[2017]

Nature Chemical Biology, 13, 750-756 (2017). (Q1; Impact factor: 12.709)

Narkhyun bae , Monica Viviano , xiaonan su , Jie Lv , Donghang Cheng , Cari Sagum , Sabrina Castellano , Xue Bai , Claire Johnson , **Mahmoud Khalil**, Jianjun Shen , KaiFu Chen , Haitao Li , Gianluca Sbardella, Mark T. Bedford.

A Potential Antitumor Activity and Apoptosis induction of Glossostemon Bruguieri Root Extract against HepG2 Hepatocellular Carcinoma Cells

[2017]

Evid Based Complement Alternat Med, Volume (2017), ID 7218562, 14 pages. (Q1; impact factor: 1.931)

Mahmoud Khalil, Mohamed Ibrahim, Gehan El-Gaaly, Mona Alwhibi, Ahmed Sultan.

Quercetin Induces Apoptosis in Triple-negative Breast Cancer Cells via Inhibiting Fatty Acid Synthase and β -catenin

[2017]

Int J Clin Exp Pathol, 10(1):156-172 (2017). (Q3; Impact factor: 1.581)

Ahmed Sultan, **Mahmoud Khalil**, Besra Sami, Afrah Alkhuriji, Omayma Sadek.

Surveillance and molecular identification of Acanthamoeba and Naegleria species in two swimming pools in Alexandria University, Egypt

[2017]

Iranian Journal of Parasitology, 12(2):196-205 (2017). (Q3; Impact factor: 0.936).

Ahmad Al-Herrawy, **Mahmoud Kalil**, Soheir El-Sherif, Fatima Omar, Wael Lotfy.

G1733A Polymorphism of the Androgen Receptor Gene and Recurrent Spontaneous Abortion in Saudi's Women

[2017]

Merit Res J Med Medical Sci, 5(8):403-410 (2017). (Impact factor: 1.257)

AF Alkhuriji, S Alomar, ZA Babay, **Mahmoud Khalil**

Protective Effects of Vitamin E on CCl4-Induced Testicular Toxicity in Male Rats

[2016]

Acta Physiologica Hungarica, 103 (2): 157-168 (2016). (Q4; Impact factor: 0.814)

Afaf El-Faras, Ismail Sadek, Yosria Ali, **Mahmoud Khalil**, Eman Mussa.

Escherichia coli challenging modulate humoral immune response of Lucilia cuprina (Diptera:Calliphoridae)

[2016]

J Forensic Toxicology & Pharmacology. 5 (2) (2016). (Impact factor: 0.33)

Hedayat Abdel-Ghaffer, Zeinab Khodary, **Mahmoud Khalil**, Mohammed Swidan, Amira Zaky.

Trigonella foenum (Fenugreek) Induced Apoptosis in Hepatocellular Carcinoma Cell Line, HepG2, Mediated by Upregulation of p53 & Proliferating Cell Nuclear Antigen

[2015]

Biomed Research International. Volume (2015), ID 914645, 11 pages. (Q2; Impact factor: 2.13)

Mahmoud Khalil, Mohamed Ibrahim, Gehan El-Gaaly, Ahmed Sultan.

Detection of shiga-toxin producing E. coli (STEC) in leafy greens sold at local retail markets in Alexandria, Egypt

[2015]

International Journal of Food Microbiology. (2015) 197: 58-64. (Q1; Impact factor: 3.445)

Rowaida Khalil, Mohamed Gomaa, **Mahmoud Khalil**.

S6 Kinase 2 is bound to chromatin-nuclear matrix cellular fractions and is able to phosphorylate histone H3 at threonine 45 in vitro and in vivo

[2014]

Journal of Cellular Biochemistry, 115:1048-1062 (2014). (Q2; Impact factor: 3.446)

Heba Ismail, Paul Hurd, **Mahmoud Khalil**; Tony Kouzarides, Andrew Bannister, Ivan Gout.

Pterostilbene induces apoptosis in hepatocellular carcinoma cells via the downregulation of mTOR and S6K1

[2022]

in submission to Cell Biology and Toxicology

Indomethacin induced-apoptosis in Breast cancer via BRCA1

Ahmed Sultan and **Mahmoud Khalil**

in preparation

Protective Effects of Lithium Chloride in High Fed Diet Diabetic Rats

[2022]

Layal Abou Assi and **Mahmoud Khalil**

in preparation

Effect of Carob Isolated Sugar and Aqueous Extract on Insulin Regulated Pathway in Diabetic Rats

[2022]

in preparation

Effect of the Co-treatment of the Essential Oil of Rosemary and 5-Fluorouracil on Colon Cancer in vitro

[2022]

in preparation

Effect of Propolis and 5-Fluorouracil on HCT-116 Cancer Cells

[2022]

in preparation

Comparative Review of the Phytochemistry, Antioxidant potential, and Antibacterial Activity of Citrus sinensis and Citrus limon

[2022]

Sarah Zahr, Rana el Hajj, **Mahmoud Khalil**

in preparation

Silver Nanoparticles: Synthesis, Morphology, Characterization and Applications

[2022]

Zainab Hachem, Ramadan Awad, **Mahmoud Khalil**

in preparation

BOOK CHAPTERS

Overexpression or Downregulation of mTOR in Mammalian Cell". "mTOR: Methods and Protocols Series

[2011]

Methods in Molecular Biology, 821:87-103 (2012).

https://experiments.springernature.com/articles/10.1007/978-1-61779-430-8_7

Mahmoud Khalil and Ivan Gout.

PEER REVIEWING

Journal of Assisted Reproduction and Genetics

ISSN: 1573-7330

Publisher: Springer

IET Nanobiotechnology

ISSN: 1751-8741

Publisher: Institute of Engineering & Technology

PLoS ONE

ISSN: 1932-6203

Publisher: San Francisco CA: Public Library of Science

Journal of Taibah University for Science

ISSN: 1658-3655

Publisher: Taylor & Francis Group

Asian Pacific Journal of Tropical Biomedicine

ISSN: 2221-1691

Publisher: Wolters Kluwer - Medknow

Genetics Research

ISSN: 0016-6723

Publisher: Hindawi - Cambridge University Press

Journal of King Saud University - Science

ISSN: 1018-3647

Publisher: Elsevier

Egyptian Journal of Medical Human Genetics

ISSN: 1110-8630

Publisher: Ain Shams University, Egypt

Molecules

ISSN: 1420-3049

Publisher: MDPI

Cells

ISSN: 2073-4409

Publisher: MDPI

Journal of the Entomological Research Society

ISSN: 1302-0250

Publisher: Gazi Entomological Research Society

Life

ISSN: 2075-1729

Publisher: MDPI

COURSES TAUGHT

Undergraduate Courses

[Current]

First Level Medical students: Molecular biology; Genetics

Second Level Medical students: Recombinant DNA

Third Level Medical students: Immunology; Genetics.

Pre-Dentistry, Pre-Pharmacy, and First level Science Courses: Physiology; Cytology; Histology; Genetics; Animal Taxonomy; General Biology

Second level Science Courses: Cell Biology.

Third level Science Courses: Molecular Biology (1); Cell Differentiation & Tissue Culture; Micro-techniques and Cellular Imaging; Practical Molecular Biology;

Fourth level Science Courses: Cell & Tissue Culture; Cellular Signal Transduction; Molecular Biology (2); Molecular Neurobiology; Biotechnology; Bioinformatics; Endocrinology; Developmental Biology; Senior Project.

Postgraduate Courses

[Current]

Advanced Cell Biology; Signal Transduction; Genomics and Proteomics; Systems Biology; Protein Analysis; Molecular Diagnostics; Mammalian Toxicology; Special Topics in Molecular Biology; Animal Cell culture & Tissue Engineering; Biology of RNA; Advanced Proteomics; Research Techniques; and Independent Studies.

RESEARCH THESES SUPERVISION & REVIEWING

31 MSc and 25 PhD supervised

[2010 – Current]

Details are available upon request.

37 MSc and 16 PhD reviewed

[2010 – Current]

Details are available upon request.

DIGITAL SKILLS

Microsoft office(WordExcel Powerpoint Outlook) / Quantity One / Graph Pad Prism 5 / Molecular Docking / Adobe Photoshop 2018 / Microsoft Windows and Office (and Open Office) / Operating system Apple and Microsoft / Moodle learning platform / Microsoft Teams - Work From Home / Social Media / Video Conferencing (Zoom Skype Google Hangout) / Video editor / File sharing softwares Google Drive Dropbox etc / Basic Image editing (GIMP) / DNA sequence analysis / Social Media Management (Facebook Twitter LinkedIn YouTube Instagram)

Molecular Biology Skills

Protein interaction / Western blotting / Gene cloning from bacteria / Plasmid and genomic DNA and RNA isolation / Chromatography SDS PAGE ELISA / In vitro radioactive methylation and kinase assays / Enzyme and hormonal assays / Expression and purification recombinant protein / Site-directed mutagenesis / Subcellular fractionation / Co-immunoprecipitation / Protein isolation / Chromatin immunoprecipitation (ChiP) / PCR RT PCR and cDNA techniques

Cell Biology Skills

RNAi knockdowns / Mouse bone marrow isolation / Hybridoma and cell lines culture for recombinant protein and antibody production / Physiological assays investigating cellular growth and apoptosis / Growth inhibition cell kill cytotoxicity assay (IC50) / Quantitative qualitative mitotic index analyses for drug candidate compounds / Microscopy (fluorescent and light microscopy) / Primary cell culture / Transfection optimization / Survival Proliferation Assays

Histology Skills

Immunohistochemistry / Immunocytochemistry / Processing of histological sections

Bioinformatics Skills

Polymorphism analysis and association to diseases / Wide use of ExPASy web site / Analysis of mutations in cancer (Oncogenomics) / Motif analysis of proteins / Restriction analysis for genes / PrimerBLAST / Sequence alignment / Design Primers / Comparative genome analysis / Tree building using dnamL and PHYLIP

Personal skills

Creativity / Organizational and planning skills / Written and Verbal skills / Team-work oriented / Responsibility / Motivated / Good listener and communicator / Learnability / Decision-making / Critical thinking / Research and analytical skills / Analytical skills / Reliability / Conflict resolution

PROJECTS

International Post Graduate Studies in Environmental Management and Sustainability for Mediterranean Countries (ENVIPRO-MED)

[2019 – 2022]

International Project: Montpellier University and Institute of Research for Development (IRD), France. (**Collaborator**)

Novel Bacterial Redox Protein Nanofibers Delivery System: A Promising therapeutic Treatment Strategy for Hepatocellular Carcinoma

[2016 – 2018]

National Project: STDF project granted the Egyptian government (**Principal Investigator**)

Targeting Therapy for Advanced Hepatocellular Carcinoma stem cells by Novel Microarray

[2014 – 2017]

National Project: Alex Rep project granted by Alexandria University, Egypt (**Co-Principal Investigator**)

Evaluation of the Microbiological Safety of Fresh Produce Leafy Greens and their Potential Contamination with Escherichia coli serotype O157:H7

[2010 – 2012]

National Project: Alex Rep project granted by Alexandria University, Egypt (**Collaborator**)

Implementing a Scientific International master for biotechnology and neuroscience in the South Mediterranean Area

[2011 – 2013]

International Project: Tempus project " granted by the European Commission (**Teacher**)

CONFERENCES AND SEMINARS

Conference: The Royal Society of Medicine - S6 kinases in health and cancer

[London, United Kingdom, 09/05/2023 – 11/05/2023]

Invited Speaker: Asymmetric Dimethylation of Ribosomal S6K2 Regulates Its Cellular localisation and Pro-survival Function

Conference: 8th International Conference on Superconductivity and Magnetism - ICSM2023

[Fethiye-Oludeniz, Turkey, 04/05/2023 – 09/05/2023]

Speaker: Fabrication, Characterization, and Antibacterial Activity of Ferrite, Chromite, and Aluminate Nanoparticles

Conference: VIP guest "Arab Forum of Science Media and Communication"

[20/02/2021 – 23/02/2021]

Theme "**Building Capacities and Facing Challenges**"

[Arab Forum SMC](#) is a fully **virtual** regional event with a focus on Challenges that face Science Media and Communication in Arab Countries. The forum brings together the top Arab leaders in Science Media and Communication to exchange ideas, thoughts, and empower our community with post-pandemic skills.

The forum features over 30 sessions, +50 speakers, besides the exhibitions and networking arena.

Young Biologists Symposium (YBS-2019): Advances in Biological Sciences

[Lebanese American University, Lebanon., 08/04/2019 – 09/04/2019]

Genetics and Epigenetics of Genome Integrity.

[MD Anderson Cancer Center, Molecular Carcinogenesis Department, University of Texas, USA., 14/11/2012 – 16/11/2012]

40th Annual International Conference of Egyptian Society of Histology and Cytology.

[Faculty of Medicine, Kafrelsheikh University, Egypt., 28/12/2016 – 29/12/2016]

8th International Conference on Biological Science (ICBS) in Collaboration with 21th International Conference of EGSZ

[Faculty of Science. Tanta University, Egypt., 11/11/2016 – 12/11/2016]

1st Annual Conference of the Center of Excellence in Cancer Research (CECR), Next Generation Cancer Research & Diagnosis.

[Tanta University, Egypt., 23/02/2014 – 24/02/2014]

HONOURS AND AWARDS

Post-doctoral Fellowship

MD Anderson Cancer Center, Department of Molecular Carcinogenesis, the University of Texas [05/06/2012]

Ph.D. Scholarship

Egyptian government for use in the United Kingdom [2006]

Top undergraduate student on the the Department

Faculty of Science, Alexandria University, Egypt [1997]

Excellent with Honors

PRESENTATIONS/WORKSHOPS/WEBINARS/COMMENTS

Workshop: Referee "3rd Annual Science Fair"

[18/03/2023]

Faculty of Science, Beirut Arab University, Lebanon

Workshop: Pedagogic PSF Training Workshop

[30/05/2022 – 02/06/2022]

Montpellier University, France

Webinar: Main Speaker "How to Fish for a Novel Research Question-Use PubMed as a Pro"

[26/12/2021]

Link: <https://bit.ly/PubmedAsPRO>

Faculty of Science, Alexandria University, Egypt.

How to Fish for a Novel Research Question - Use PubMed as a Pro © 2022 by Dr. Mahmoud Khalil is licensed under CC BY-NC-SA 4.0. To view a copy of this license, visit: <http://creativecommons.org/licenses/by-nc-sa/4.0/>

Topics covered:

- 1) PubMed® Overview.
- 2) How to create a PubMed® account.
- 3) PubMed® Basic Search by Keywords.
- 4) Controlled Vocabulary (MeSH Terms).
- 5) Some of Features and Filtering Tools of PubMed®.
- 6) Finding On-Topic Articles.
- 7) PubMed® Robust Search – Advanced Search.
- 8) MyNCBI Creating Alerts & Saving Results.

Webinar: Main Speaker “Production Steps of OER”

[17/04/2021]

Link: <https://bit.ly/3xYLGgt>

An Initiative of Alexandria University, **OERWiki@MENA** (Link; <https://bit.ly/3bdRjOe>), to develop and use OER in the Middle East and North Africa region, in cooperation with the University of Sousse in Tunisia. The initiative aims to produce and share 100 educational resources in 100 days for students and academics which will lead to more equitable access to education and will serve a broader base of learners than traditional education.

Webinar: Main Speaker “Keys of OER - OERWiki@Mena”

[28/02/2021]

Link: <https://youtu.be/cqdlutiT4rA>

An Initiative of Alexandria University, **OERWiki@MENA** (Link; <https://bit.ly/3bdRjOe>), to develop and use OER in the Middle East and North Africa region, in cooperation with the University of Sousse in Tunisia. The initiative aims to produce and share 100 educational resources in 100 days for students and academics which will lead to more equitable access to education and will serve a broader base of learners than traditional education.

Link: <https://youtu.be/cqdlutiT4rA>

Webinar: Main Speaker “Epigenetics: Future Road for Cancer Therapy”

[20/02/2021]

Link: <https://youtu.be/JP9E2su9qrg>

An Invitation from Friends Innovative Technology and Science (FITS)

The FITS initiative is committed to raising scientific awareness among the public audience and spreading cutting-edge science and knowledge. FITS targets STEM students and science professionals across the Arabs nation.

Public Comment on research Article: CRISPR-mediated gene modification of hematopoietic stem cells with betathalassemia IVS-1-110 mutation.

[21/10/2020 – 21/10/2020]

- An invitation from the Scientific American Magazine, a Division of **Springer Nature** America to comment on a research article
- Link: www.scientificamerican.com
- My comments were published in the Arabic version "For Science magazine" (للعلم) of that magazine that is directed to the public.
- Link: <http://bit.ly/3sV8Vpe>

Workshop: Referee “17th Mobarat ElOloum”

[26/08/2020 – 27/08/2020]

National Association for Science and Research (NASR), Lebanese University, Lebanon.

Webinar: Main Speaker "e-Cheating and e-Authentication"

[21/07/2020]

Link: <https://youtu.be/BD86laHJoX4>

within the activities of the Alexandria University Unit for Pedagogical Innovation and Distance Learning (ADIP).

Workshop: Referee "16th Mobarat ElOloum"

[10/04/2019 – 11/04/2019]

National Association for Science and Research (NASR), Lebanese University, Lebanon.

Workshop: Speaker "Epigenetics and Neuroresearch"

[07/05/2018]

International Brain research organization (IBRO)-African Regional Committee

Workshop: Referee "Science Initiative 3"

[19/10/2016 – 19/10/2016]

Zewail City Friends for Science and Technology, Egypt.

Workshop: Speaker "Shed Light on Neuroscience; Physiological, Cellular and Molecular Approaches"

[20/09/2016]

Faculty of Science, Alexandria University, EGYPT.

Workshop: Speaker & Organizing "Courses Reports and Exam ILOs for Quality Assurance & Accreditation"

[14/01/2015]

Faculty of Science, Alexandria University, EGYPT.

Workshop: Teaching & Organizing "Advanced Molecular Biology Techniques in Biomedical Research"

[18/08/2014 – 20/08/2014]

Faculty of Science, Alexandria University, EGYPT.

Presentation: Altering the Function of a Kinase by Arginine methylation.

[11/12/2012]

MD Anderson Cancer Center, Department of Molecular Carcinogenesis, University of Texas, USA.

Workshop: Teaching & Organizing "2D & 3D Tissue Culture Techniques and Advanced Molecular Biology Applications"

[22/07/2011 – 27/07/2011]

Faculty of Science, Alexandria University, EGYPT.

Presentation: Cancer Cell Signaling.

[09/01/2011]

Faculty of Science, Alexandria University, EGYPT.

Presentation: The Role of Arginine Methylation in Regulating the Function of S6K2.

[14/01/2010]

MRC Protein Phosphorylation Unit, University of Dundee, Dundee, United Kingdom.

Presentation: A novel post translational modification of S6K2.

[04/12/2008]

Department of Biosciences, University College London. United Kingdom

TRAINING ATTENDED/TECHNICAL SKILLS ACQUIRED

Experimental Design and Statistical Analyses Systems

[06/08/2022 – 09/08/2022]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

E - Exams

[25/07/2022 – 26/07/2022]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

University Laws and Regulations

[24/06/2022 – 25/06/2022]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Adaptability and Resiliency

[28/02/2022 – 26/03/2022]

University of California, Davis (UCDAVIS) - Coursera

Moodle Quiz/Exam Assessment Tool: Best Practices

[15/07/2020 – 15/07/2020]

Utah State University, USA

Moodle as a Learning Management System

[05/06/2020 – 29/06/2020]

Innovation in Pedagogy and Aiding Distance Learning Unit (ADIP), Alexandria University, EGYPT.

Teaching threshold & recognizing cognitive overload

[09/11/2019]

Beirut Arab University, Lebanon

Harmless Use of Nuclear and Radiation Energy

[27/03/2019]

Beirut Arab University, Lebanon

IBCT - Training of Trainers (TOT): Associate Trainer level program

[09/01/2018 – 13/01/2018]

International Board of Certified Trainers, Egypt.

E-learning

[21/11/2017 – 22/11/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Leadership and Strategic planning

[07/11/2017 – 08/11/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Executive Leadership Development

[06/11/2017 – 07/11/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt

Designing and Developing the Digital Content

[09/06/2017 – 10/06/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

International Publishing of Research

[04/06/2017 – 05/06/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Innovative Problem-Solving and Decision-Making

[21/05/2017 – 22/05/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Research Implementation and Research Team Management

[12/05/2017 – 13/05/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

University Legal and Financial Aspects

[09/05/2017 – 10/05/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

References Management System

[29/01/2017 – 30/01/2017]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Strategic planning

[27/12/2014]

Faculty of Science, Alexandria University, EGYPT.

Introduction of Bioinformatics

[14/05/2014]

Tanta University, Egypt

Radiation and the Safe use of radioactive isotopes

[14/10/2012]

MD Anderson Cancer Center, USA

Neurotoxicity and Environment

[15/10/2011 – 18/10/2011]

Alexandria University, Egypt.

External Audit for Higher Education Institutions

[11/12/2010 – 15/12/2010]

National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt.

Institutional self-evaluation of higher education institutions

[24/09/2010 – 28/09/2010]

National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt.

Research Ethics

[28/06/2010 – 30/06/2010]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Quality Standards in the Education Process

[25/06/2010 – 27/06/2010]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

How to Publish a World Class Paper

[18/06/2009]

University College London, UK

Using Time More Effectively as a Research Student

[06/05/2009]

University College London, UK

Intellectual Property - What is it & how can be used?

[16/03/2009]

University College London, UK

Advanced Excel Statistical Formulae and Functions

[10/03/2009]

University College London, UK

Charting with Excel

[24/02/2009]

University College London, UK

Excel Formulae and Functions

[03/02/2009]

University College London, UK

Code of Ethics

[04/02/2008 – 06/02/2008]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Teaching with Technology

[01/02/2008 – 03/02/2008]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

A Short Introduction to Bioinformatics

[06/06/2007]

University College London, UK

Presentation Skills

[10/05/2007]

University College London, UK

How to Write a Good Scientific paper

[08/05/2007]

University College London, UK

Overcoming Writer's Block for Research Students

[01/05/2007]

University College London, UK

Effective Academic Writing

[06/03/2007]

University College London, UK

Optical Microscopy

[11/07/2006]

University College London, UK

Using Word for Dissertations/Theses

[29/05/2006]

University College London, UK

Getting Started with Reference Manager

[17/05/2006]

University College London, UK

UCL Health and Safety Course

[12/03/2006]

University College London, UK

UCL Radiation Course

[23/02/2006]

University College London, UK

Thinking Skills

[19/11/2004 – 22/11/2004]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

Communication Skills

[01/10/2004 – 04/10/2004]

Faculty and Leadership Development Center (FLDC), Alexandria University, Egypt.

How to be a leader

[09/2003]

Helwan University, Egypt

Academic teaching

[08/2000]

Alexandria University, Egypt

RESEARCH STATEMENT

Summary - Details are available upon request

[2009 – Current]

The expertise I gained during my PhD as well as the knowledge of complex cell signaling pathways, regulation of growth and energy metabolism in cancer, and a broad range of molecular cell biology techniques facilitated my aim to enhance my experience, knowledge, and career to work at Prof. **Mark Bedford's laboratory** at **MD Anderson Cancer Center, Department of Molecular Carcinogenesis, University of Texas, USA, as a postdoctoral fellow** in 2012. We were able to develop a novel small molecule inhibitor for the epigenetic reader Spindlin1 protein that is capable of blocking Spindlin1 transcriptional-coactivator activity. This work was published in a very prestigious journal, **Nature Chemical Biology** (Q1; IF:12.7).

Last 2 years were very fruitful, as we managed to publish 14 papers in high-impact journals. I am interested in the **signal transduction line** of research which concerns the mechanisms by which biological information is transferred between cells. Recently, we published an important article in **Life Sciences** in which we suggest a strong potential for thymoquinone to enhance the drug targeting effects of the standard clinical drugs, arsenic and interferon alpha, against human T-cell leukemia/lymphoma. Additionally, we have published a review in **Drug Discovery Today** (Top 5% - Q1; IF:6.88) on apoptosis as a mechanism for the treatment of Adult T cell Leukemia.

I am deeply interested in **green nanomaterials and its biological applications**, as a second interest in research. We had, in 2020, two very interesting papers in high-impact journals; *Frontiers in Bioengineering and Biotechnology* and *RSC Advances - The Royal Society of Chemistry*.

As for my third line of research, I am extremely interested in studying the **effect of phytochemicals on diseases**. Very recently we had a paper in *Bioscience Reports*. we described how the phytochemical, Naringin, alleviated methotrexate-induced liver injury in animal model and how the antitumor efficacy of methotrexate against hepatocellular carcinoma was enhanced when combined with naringin. Other interest in research include polymorphism association with diseases, epigenetics, and environmental DNA (eDNA).

Beside exploring other avenues in my current research, I have 2 major aims that I hope I can accomplish. My first aim is to establish/supervise a **mammalian recombinant protein laboratory** that will enable the production of various protein molecules including enzymes, hormones, and more importantly monoclonal antibodies (mAbs). These antibodies can specifically bind to cancer-cell-specific antigens and induce an immune response against the target cancer cell. My second aim is to establish/supervise a **green nanomaterial laboratory** where we will be able to investigate its biological potential and applications. Green nanoparticles, more specifically, silver nanoparticles are potent antimicrobial and anticancer agents due to their large surface area and small size that facilitates the interaction with their targets.

TEACHING STATEMENT

Summary - Details are available upon request

[1997 – Current]

My objective is to foster the acquisition of scientific concepts and learning skills to ease further learning and thinking. **All students are unique** and must have a stimulating educational environment where they can grow mentally, socially, and emotionally in a safe environment. Several essential elements are crucial for the **student-centred teaching** and learning environment; the academic character, hands-on activities available to students, **curiosity-based learning**, practicing skills in a safe environment, and technology incorporation in the learning process.

As an educator, **I have around 20 years of experience in academic teaching**. I have pursued extensive teaching for undergraduate and postgraduate students in 4 different countries; **UK, USA, Egypt, and Lebanon**. During my PhD at UCL, UK, I was a post-graduate teaching assistant and worked with first- and second-year undergraduates, where I taught them diverse experimental biochemistry and molecular biology practical skills. During my postdoctoral fellowship at MD Anderson Cancer Center, USA, I guided/tutored a lot of graduate students through their work. **I got exposed to different cultures**, met different students which enabled me to face so many situations which is crucial in my teaching experience.

I am especially interested in teaching courses in **Molecular Biology, Genetic Engineering, Biotechnology, Cell Differentiation & Tissue Culture, Bioinformatics, Cellular Imaging, Mechanism of Cancer, Molecular Genetics, Immunology, Developmental Biology, Endocrinology, Mammalian Toxicology, General Biology, Genomics & Proteomics, Advanced Cell Biology**, and **Signal Transduction**. Even after several years of teaching, I keep on looking for additional ways to grow as a university instructor and enhance my educational capabilities. One of my aims is to develop a course at the interface of **green nanomaterials and biological applications**. I am also comfortable working with a team with colleagues to develop a highly collaborative and interdisciplinary course that could discuss signal transduction, green nanomaterials, and molecular medicine in the context of different diseases or biological systems. As a supervisor, I have supervised 45 master and PhD theses.

A good instructor challenges his students to think, generates curiosity, and links the lecture material to the real world. Being well-prepared, organized, and knowing when to take disciplinary action should be assets of a good academic instructor to promote positive behaviours and hence promote learning.

EXTRACURRICULAR ACTIVITIES 1

Extracurricular Activities

On a different approach, but extremely important for the nowadays booming online teaching and learning environment, I am interested in raising awareness about Learning Management Systems (LMS), Copyrights & Creative Commons (CC), eCheating and eAuthentication. I am an experienced user of the Moodle LMS (Links; <http://bit.ly/3cpjF12>).

In collaboration with the Innovation In Pedagogy and Aiding Distance Learning Unit (ADIP unit), Alexandria University, I was invited as a main speaker to present several lectures (Link; <https://bit.ly/2RC2edA>) including;

eCheating & eAuthentication (Link; <https://youtu.be/BD86laHJoX4>). Additionally, I am deeply involved in raising awareness about Open Educational Resources (OER). To this aim, I am involved in the initiative of Alexandria University, **OERWiki@MENA** (Link; <https://bit.ly/3bdRjOe>), to develop and use OER in the Middle East and North Africa region, in cooperation with the University of Sousse in Tunisia. The initiative aims to produce and share 100 educational resources in 100 days for students and academics which will lead to more equitable access to education and will serve a broader base of learners than traditional education. I was invited to present **Keys of OER** (Link; <https://youtu.be/cqdlutiT4rA>), **Production Steps of OER** (Link; <https://bit.ly/3xYLGgt>), and **OER & CC** (Link; <https://youtu.be/0wtMNNPAbJU>).

Additionally, I am an instructor for 2 workshops at Faculty and Leadership Development Center (FLDC), Alexandria University, EGYPT, Preparation of competitive research projects (B1) and conducting research projects and managing the research team (C1).

EXTRACURRICULAR ACTIVITIES 2

Extracurricular Activities

(Mar 2019-Present) Representative and coordinator of BAU at the Lebanese Standards Institution – LIBNOR.

(Jan 2018-Present) Associate certified trainer in the International Board of Certified Trainers (IBCT).

(June 2017-Present) Lecturer and Trainer at Faculty and Leadership Development Center (FLDC), Alexandria University, EGYPT.

(23-24 Apr 2016) Organizing Committee for 7th Environmental Forum: Climate change and sustainable development objectives. Alexandria University, EGYPT.

(2010) Member of organizing Committee for Graduation Ceremony for Faculty of Science.

(2009) Organizing the 1st Annual Conference for the Egyptian Scholars in United Kingdom.

(2008-2009) President of the Egyptian Scholars' union in the United Kingdom.

(Apr 2002) Training at the Pioneers' Institute (Ministry of Higher Education, EGYPT).

(1997-Present) Member of the General Egyptian Society for the Talented.

(1995-1997) Managing Sports Committee of Students' Union of Faculty of Science, Alexandria University, EGYPT including the arrangement of national sports competitions for undergraduates.

HOBBIES AND INTERESTS

Reading, Football, Tennis, Fishing, and DIY.

LANGUAGE SKILLS

Mother tongue(s): **Arabic**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

PROFESSIONAL REFEREE

References

Prof. Hesham El-Askary

"Egypt Can" Conference; One of the 27 Egyptian scientists that presented their vision for Egypt.

Professor of Remote Sensing and Earth System Science

Center of Excellence in Earth Systems Modeling and Observations

Director Graduate Programs in Computational and Data Sciences

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