

MOHAMED NABEEL MALASH, M.Sc., Ph.D.

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EDUCATION

February 2012- July 2020: Genetic Engineering and Biotechnology Research Institute (GEBRI), University of Sadat City – Sadat city, Egypt.

PhD, Genetic Engineering and Biotechnology: *Molecular Microbiology*

Thesis title: "**Production of a Lytic Transglycosylase from a Group of Novel Extremophilic Peptidoglycan Hydrolases**"

- Isolation and characterization of novel extremophilic enzymes from metagenomic samples from harsh environments. Bioinformatics and lab work were conducted in the Biology Department, American University in Cairo (AUC).

October 2004- May 2009: Genetic Engineering and Biotechnology Research Institute (GEBRI), Menofia University – Sadat city, Egypt.

Master of Science, Genetic Engineering and Biotechnology: *Industrial Biotechnology* (85.86%)

Thesis title: "**Production of Cephalosporin C (CPC) using the fungus *Cephalosporium acremonium***".

- Applied Ultraviolet-light mutagenesis for strain genetic improvement of *Cephalosporium acremonium* ATCC 11550.
- Selected high antibiotic-producers among the mutants by agar diffusion method, and then the final selection of the highest producer was carried out in shake flasks and concentration was measured by HPLC.
- Carried out a series of batch and fed-batch fermentation experiments in stirred-tank bioreactor and shake flasks to study different metabolic parameters of the mutant.

September 1997 - May 2002: Faculty of Pharmacy, Tanta University – Tanta, Egypt.

Bachelor of Pharmaceutical Sciences with cumulative grade very good with honor (80.31%, ranked 12th out of 802)

PROFESSIONAL EXPERIENCE

October 1st, 2020-Present: Ahram Canadian University (ACU), Faculty of Pharmacy – 6th of October, Egypt.

Lecturer in Microbiology and Immunology Department

September 2009-September 2020: Ahram Canadian University (ACU), Faculty of Pharmacy – 6th of October, Egypt.

Assistant Lecturer in Microbiology and Immunology Department:

January 2013-June 2020: Biology Department, American University in Cairo (AUC)

Research Assistant and Teaching Assistant:

- Bioinformatics data analysis under supervision of Prof. Rania Siam, Professor of Microbiology, Chair of the Biology Department.
- Teaching Assistant in the “Current Health Issues” (Fall 2015) instructed by Prof. Rania Siam.
- Conducting my PhD bioinformatics and lab research in the Biology Department supervised by Prof. Rania Siam.

September 2011-September 2012: Taif University, Faculty of Pharmacy – Taif, KSA.

Lecturer in Pharmaceutical Microbiology Department

- Prepared and taught the practical courses of Biology, Pharmaceutical Microbiology, Clinical Immunology, and Parasitology.
- Prepared practical and written exams for the practical sections for the above-mentioned courses.
- Participated in the establishment of Pharmaceutical Biotechnology Research Unit (PBRU).
- Member of Staff Development Committee and Quality Assurance Unit.
- Honored by the faculty administration for my contributions in the educational and research activities in the faculty.

March 2004-September 2009: Minufiya University Students' Hospital – Shibin Elkom, Minufiya, Egypt.

Inpatient Pharmacist

July 2004-July 2005: Apex Pharma Co.–Heliopolis, Cairo, Egypt

Medical Representative (part time)

March 2003-March 2004: Egyptian Naval Forces Hospital–Alexandria Naval Base

Soldier and Pharmacist

July 2002-February 2007: Community pharmacies in Shibin Elkom, Menofia and Alexandria.

WORKSHOPS AND TRAININGS

August 15th to October 18th, 2022: Wellcome Connecting Science (WCS) and Pan African Bioinformatics Network for H3Africa (H3ABioNet)

- “Genome Sequencing Bioinformatics Course (GSB 2023)”

March 22nd to October 25th, 2022: Wellcome Connecting Science (WCS) and Pan African Bioinformatics Network for H3Africa (H3ABioNet)

- “Next Generation Sequencing Bioinformatics Training course (NGS Bioinformatics_2022)” (March 22nd to June 20th).
- “Introduction to Bioinformatics (IBT 2022)” (July 17th to October 25th)

May 8th to November 16th, 2022: Nasser Higher Military Academy, Egypt

- “Thinking Methods and Future Studies” Armed Forces Strategic Studies Center (May 8th to May 25th).

- *“Strategic Studies and National Security” National Defense College (May 29th to June 12th).*
- *“Crisis Management and Negotiation” National Defense College (June 19th to July 5th).*
- *“Decision Makers” National Defense College (July 17th to August 2nd).*
- *“Technological Advancement and Its Effects on National Security” National Defense College (October 30th to November 16th).*

September 2015: American University in Cairo (AUC)- New Cairo Campus, AUC Avenue, Egypt

- *“Teaching Assistant Training”*
- *“Academic Integrity”*

May 20th, 2015: Institute of International Education and held in Ahrum Canadian University (ACU)

- *“Research Design, Assessment, and Write-Up” (6 hours).*

February 18th and 19th, 2015: Biotechnology Center (BTC), Faculty of Pharmacy, Cairo University

- *“Advanced Bioinformatics Workshop”.*

January 28th, 2015: Biotechnology Center (BTC), Faculty of Pharmacy, Cairo University

- *“Pulsed Field Gel Electrophoresis”.*

May 24th to June 21st, 2014: Scientific Informatics Research Academy (SIRA)-Egypt

- *“Bioinformatics Basics” (30 hours).*

November 2013-March 2014: Ahrum Canadian University (ACU)- 6th of October city, Egypt

- *“Strategic Planning of Institutions of Higher Education” presented by the National Authority for Quality Assurance and Accreditation of Education (NAQAAE) (2 day).*
- *“Team Leadership Workshop” presented by Institute of International Education-Lotus Organization (1 day).*
- *“Road to Accreditation-How to Write Self-Study Report” presented by ACU Faculty of Pharmacy Quality Unit (2 days).*
- *“Road to Accreditation-Pharmacy NARS and Program ILOs” presented by ACU Faculty of Pharmacy Quality Unit (2 days).*

February 2012 and March 2012: Taif University – Taif, KSA

- *“Innovation in Teaching Health Sciences: From Words to Action” presented by Faculty of Education, Purdue University, USA (3 days).*
- *“Quality Requirement in E-Learning and Learning Management Systems” (2 days)*
- *“Applied Course in Biostatistics and Use of SPSS in Medical Research” (2 days)*

October 2010: German Academic Exchange Service (DAAD) in DAAD premises– Zamalek, Cairo, Egypt

- *“Proposal Writing Workshop”*

January 2010: Ahram Canadian University (ACU) - 6th of October city, Egypt.

- “*Institutional Self-Evaluation of Higher Education*” presented by the National Authority for Quality Assurance and Accreditation of Education (NAQAEE).

August 2007 and May 2008: Hebiraw Co. for Pharmaceutical Raw Materials - Qena, Egypt.

- Production, research, and quality control units. (Total 7 days)
 - Inoculation of the stirred-tank bioreactor.
 - Use of HPLC to determine concentrations of cephalosporin C and its intermediates.
 - Identification and isolation of phenotypic variants of *Cephalosporium acremonium*.

PUBLICATIONS

- Ziko L, Adel M, **Malash MN**, Siam R (2020) Specialized Metabolism Gene Clusters from Red Sea Brine Pool Microbial Metagenomes. *BMC BIOINFORMATICS 21(SUPPL 20)*
- **Malash, M.N.**, Hussein, N.A., Muawia, S., Nasr, M.I., and Siam, R. (2020). An optimized protocol for high yield expression and purification of an extremophilic protein. *Protein Expr. Purif.* 169, 105585
- Ziko L, Adel M, **Malash MN**, Siam R (2019) Insights into Red Sea Brine Pool Specialized Metabolism Gene Clusters Encoding Potential Metabolites for Biotechnological Applications and Extremophile Survival. *Marine Drugs.* **17(5):273.**
- A.M. Michael and **M.N. Malash** (2015) A Validated Assay of Urease Enzyme in Different Sources Using Silver Nanoparticles. *Food Anal. Methods.* **8(10):2482-2486 (DOI: 10.1007/s12161-015-0139-1)**
- S.H. Hassanein, M.I. Nasr, R.M. Abd El-Aziz, A.F. Elbaz, and **M.N. Malash** (2009) Induction of Cephalosporin C in *Cephalosporium acremonium* Using U.V. Light and Selection of a Mutant that Showed Highest Fermentation Capability. *Minufiya J. Agric. Res.* **34(1):35-55**

EXTRACURRICULAR ACTIVITIES

- **February 2017** General Supervisor of Ibn Sina Medical Convoy to El-Amerya territory, Alexandria Governorate with students and staff of Faculty of Pharmacy, Ahram Canadian University (3 days).
- **February 2014** Leded Ibn Sina Medical Convoy to Bayad El-Arab, Bani Suf Governorate with students and staff of Faculty of Pharmacy, Ahram Canadian University (3 days).
- **February 2013** Participated in Ibn Sina Medical Convoy to Arab ElTarabeen village, Helwan with students and staff of Faculty of Pharmacy, Ahram Canadian University (3 days).
- **August 2010** Participated in Ibn Sina Medical Convoy to Kerdasa territory, Giza Governorate with students and staff of Faculty of Pharmacy, Ahram Canadian University (3 days).

PERSONAL DATA**Date of Birth:** July 28th, 1980**Nationality:** Egyptian