

Sally Mohamed Ahmed Mahmoud El-sheikh

lecturer of Microbiology

Faculty of Applied Healthcare Sciences – Horus – university- Egypt

CURRICULUM VITAE

• PERSONAL INFORMATION:

Date of Birth: Aug 16, 1982

Nationality: Egyptian

Marital status: Single

Native Language: Arabic

Other Languages: English

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Interest Area Molecular microbiology, Industrial microbiology, Biotechnology, and Bioinformatics

• Work Experience:

- lecturer of Microbiology in Basic Science Program in faculty of Applied Healthcare Sciences -Horus university- Egypt.

• EDUCATION:

2017-2020 **PhD. in Microbiology**

Title: “Drug Efflux Pumps and Persistence in Methicillin Resistant *Staphylococcus aureus*”

Faculty of Science, Mansoura University, Mansoura, Egypt

2014-2017 **MSc. in Botany/Microbiology**

Title: “Molecular Distinction between Two Types of *Staphylococcus aureus*: MRSA and its Persisters”

Faculty of Science, Mansoura University, Mansoura, Egypt

2000-2004 **B.Sc. in Chemistry / Botany Department**

Faculty of Science, Mansoura University, Mansoura, Egypt

- **PUBLISHED PAPERS**

-Yehia A. Osman^{*1} , Hamdia Askar² , Sally ElSheikh¹ and Attyia Mohamadeen¹(2016). Role of Toxin-Antitoxin Systems in Emergence of Persisters from Methicillin Resistant Staphylococcus aureus Strain. International Journal of Research in Medical and Basic Sciences (Impact Factor: 3.656)

-Sally ElSheikh¹, Hamdia Askar² and Yehia A. Osman^{*1} (2020). Characterization of Persister Cells and Some Mutants from Clinical Isolate of Multidrug-Resistant MRSA. International Journal of Progressive Sciences and Technologies (Impact Factor: 3.8).

- **PUBLISHED BOOK**

1-The BOOK Entitled: Bacterial Secondary Metabolites

Chapter 3: Overview of secondary metabolites in cyanobacteria: a potential source of plant growth promoting and abiotic stress resistance

Sally Elsheikh^a and Eladl Eltanahy^{b*} ^aBacteriology Lab, Faculty of Science, Mansoura University, Mansoura 35516, Egypt

^bAlgae Biotechnology Lab, Faculty of Science, Mansoura University, Mansoura 35516, Egypt

2-The BOOK Entitled: Plant-Microbe Interaction for Sustainable Agriculture and Environment

Chapter 4:Genetic Diversity of Culturable Plant Growth-Promoting Rhizobacteria

Sally Elsheikh^a and Eladl Eltanahy^{b*}

^aBacteriology Lab, Faculty of Science, Mansoura University, Mansoura 35516, Egypt

^bAlgae Biotechnology Lab, Faculty of Science, Mansoura University, Mansoura 35516, Egypt

- **RESEARCH-RELATED EXPERIENCE:**

- My main field is microbiology, especially molecular microbiology, and biotechnology. Excellent experience in isolation, cultivation, identification, and maintenance of bacteria
- Extensive experience in Microorganisms identification, isolation, and purification experience
- Excellent experience in many molecular biology techniques such as DNA and RNA extraction, different types of PCR(conventional and Quantitative RT-PCR), DNA fingerprinting, agarose,and protein gel electrophoreses.
- NCBI GenBank[®] Database systems and all related phylogenetic tree software analysis
- Good experience in bioinformatics (Genomics, Transcriptomics, Metagenomics, and chemoinformatics)
- Extensive experience in Antibacterial and antifungal tests.

- Excellent experience in preparing different types of cultivation media and buffers and carrying out antimicrobial activities.
- Strong experience in the Purification of different types of proteins by salting out dialysis, and column chromatography
- Have very good experience in running microbial fermentation processes on the bio-reactor scale (up to 10 L), either as a batch, fed-batch, or continuous process.
- Strong experience in virology especially plant virus and bacteriophage (isolation, cultivation, plaque assay for concentration detection, examination by scanning electron microscope, and maintenance)
- Good experience in bacteriological analysis for drinking water.
- Good experience in extraction of hydrocarbons from contaminated soil with desil oil and bioremediation by microorganisms specially bacteria.
- Extensive experience in reference management software (Endnote).
- Using statistical software such as SPSS, CoStat, and Minitab
- Extensive experience with Microsoft Word, Excel, and PowerPoint.
- Excellent experience in making online lectures by using online applications like zoom and Microsoft team .
- Bacterial physiological and biochemical analysis
 - Growth parameters (Cell count, size, dry weight, pigments, and growth equations)
 - Crude protein
 - Carbohydrates (Total soluble sugars and Polysaccharides)

• CONFERENCES

16-20 Mar. 2015 12th International Conference of Chemistry & its Role in Development

15-20 Mar. 2010 2nd International Conference of Biological and Environmental Sciences - Botany Department - Mansoura University – Egypt

• FUNDED RESEARCH PROJECTS:

- Worked as a researcher in:

1. Scaling up the Fermentation process of bacterial anticancer, Azurin. Funded by the Egyptian Academy of Science. (2015-2018)

• TEACHING QUALIFICATION

- **Working as a Part time Lecturer** in the Biotechnology program at the Botany Department-Faculty of Science- Mansoura University, Teaching Different courses (Genetic Modified Organisms and Biosafety, Technology of Bioreactors, Biotechnology and Primary Products, Molecular Genetics, and Genetic Engineering and Gene Transfer) (from 2022 until now)
- Teach Microbiology, Biochemistry, Organic chemistry, Hematology, Parasitology, Anatomy, Physiology, Infection Control, Histology, and Pathology courses at Alarkan Academy for Human Resources and Development (from September 2019 until November 2022).
- Teach students undergraduate in summer training and new researchers the safety rules during work and how to handle, how to do new experiments, and use laboratory

equipment in the lab. (Bacteriology lab in Botany Department, Faculty of Science Mansoura University) (from January 2015 until July 2022).

- Teach Virology, Bacteriology, Phycology, Mycology, Genetics, Molecular Microbiology, General Microbiology, Systematic, Physiology, and Enzymology courses to different levels in the Botany Department - Faculty of Science.
- Supervising graduation projects in the Biotechnology program, Faculty of Science, Mansoura University, from 2022 until now.

- **TRAINING COURSES CERTIFICATES:**

| Date | Title |
|----------------|--|
| 21: 22/09/2014 | Legal and financial aspects in the University environment Faculty and Leadership Development Center – Mansoura University |
| 15: 16/06/2014 | Conference organization Faculty and Leadership Development Center – Mansoura University |
| 25: 27/07/2011 | GC/MS Management and data interpretation Chemistry Department – Faculty of Science – Mansoura University |
| 15: 17/05/2011 | Strategic planning Faculty and Leadership Development Center – Mansoura University |
| 09: 11/01/2011 | Quality standards in the education process Faculty and Leadership Development Center – Mansoura University |
| 24: 27/01/2010 | International publishing of science research Faculty and Leadership Development Center – Mansoura University |
| 13: 15/12/2009 | Communication skills Faculty and Leadership Development Center – Mansoura University |
| 06: 08/01/2009 | Modern Techniques in Chemical and Biological Analysis of Drinking Water Unit of Microbiological Analysis – Faculty of Science – Mansoura University |
| 04: 06/03/2007 | Presentation skills Faculty and Leadership Development Center – Mansoura University |
| 18: 20/02/2007 | Thinking skills Faculty and Leadership Development Center – Mansoura University |
| 11: 14/02/2007 | Research Methodology Faculty and Leadership Development Center – Mansoura University |
| 01: 05/04/2006 | Water pollution – Methods of analysis and treatment Microbiology unit – Faculty of Science – Mansoura University |
| 9:12/8/2020 | TOT Course Cairo university |

- **REFERENCES :**

- **Prof. Mahmoud Elsayd Elnaghi**

Professor of Accounting and Auditing, Faculty of Commerce, Mansoura University
Moile phoe : 01005684636

- **Prof. Yehia Abdel-Moneim Osman Ellazeik**

Prof. of Microbiology / Molecular Biology Botany Department, Faculty of Science Mansoura University

E-mail: lazeikyao@gmail.com

- **Prof. Hamdia Yehya Askar**

Prof. of Medical Microbiology and Immunology, Faculty of Medicine, Mansoura University

E-mail: hamdiaaskar@yahoo.co.uk

- **Ass. Prof. Eladl Galal Eltanahy**

Ass.Prof of Microbiology, Faculty of Science, Mansoura University

Algae Biotechnology Labs - Pinjarra Hills Algae Farm

Website: <http://eladl.net>

Email: eladl@mans.edu.eg Mobile: +61 4 1353 9820

- **Ass. Prof. Ahmed Abdo Ahmed Abd Elrazak**

Ass.Prof. of Biotechnology, Botany Department, Faculty of Science, Mansoura University.

Email: Ahmed_bt@mans.edu.eg

- References are available upon request.