

Muhammed Ibrahim

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• [LinkedIn](#)

Education

Faculty of Pharmacy, Minia University, El Minya, Egypt Aug 2012- Mar 2024
Master of Science degree in pharmaceutical sciences (M.Sc.) (Microbiology Major) Jun 2020-Apr 2024.
Final grade: Very good. **(Ranked first).**
Thesis: Role of Micro RNA and cell-free DNA in systemic lupus erythematosus.

Bachelor of Science degree in pharmaceutical sciences (B.Sc.) Aug 2012-Jul 2017
Final grade: excellent with honors 92.83% **(Ranked fifth out of 340 students).**

Research Experience

Faculty of Pharmacy, Minia University, El Minya, Egypt Mar 2014 - Mar 2024
Master's Research: Biomarkers for Systemic Lupus Erythematosus (SLE) Nov 2019 - Mar 2024
PI: Dr. Reham Ali Ibrahim

- Performing genetic material extraction (RNA and DNA)
- Conducting Conventional PCR (Polymerase Chain Reaction) with subsequent gel electrophoresis.
- Conducting RT-PCR.
- Processing and Carrying out article submission into Molecular Biology Reports journal.
- **Summary:** Our findings showed significant correlations between miR-21, miRNA-146a, and cfDNA and clinical biochemical markers particularly those reflecting SLE activity status. As well as miR-21 and cf-DNA level revealed a good diagnostic value particularly when coupled to other clinical data.

Antibiotic Resistance in Bacterial Pathogens Nov 2020 - Mar 2022

- Investigating mechanisms of antibiotic resistance in both gram-positive and gram-negative bacteria.
- Conducting antimicrobial susceptibility testing
- Performing disk diffusion assays
- Determining minimum inhibitory concentrations (MICs).
- Performing conventional PCR and agarose gel electrophoresis to detect bacterial resistance genes for gram-positive and gram-negative bacteria.

Medical Microbiological Identification Mar 2019 - Jan 2024

- Conducting microbial characterization on clinical specimens
- Identifying pathogens such as Staphylococcus species, Streptococcus species, E. coli, Pseudomonas aeruginosa, and Klebsiella pneumoniae.

Pharmacological Screening Mar 2014 - Nov 2016

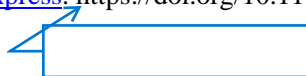
- Performing pharmacological screening of atropine-like compounds, which included animal handling and observing various pharmacological effects.

Faculty of Pharmacy, Deraya University, New Al Minya, Egypt Nov 2022- Sept 2023
Review article titled "COVID-19 Associated Mucormycosis Among ICU Patients: Risk Factors, Control, and Challenges."
PI: Prof. Dr. Rehab Abdelbaky

- Investigating the intersection of infectious diseases and immunology, highlighting the complexities of managing opportunistic infections in immunocompromised patients.
- Co-authoring sections that focus on risk factors and management strategies.
- Drafting and reviewing the manuscript.

Publications

1. **Ibrahim, Muhammed R.Kh.**, Nancy G F M Waly, Hend Moness, Shima S Ahmed, and Reham Ibrahim. 2023. "Serum MiRNA-21, MiRNA-146a and Plasma Cell Free DNA as Novel Biomarkers for Assessing Systemic Lupus Erythematosus Activity." [Molecular Biology Reports](https://doi.org/10.1007/s11033-023-08845-z). <https://doi.org/10.1007/s11033-023-08845-z>.
2. El, Abd, Rehab Mahmoud, Abd El, Esraa R Shady, Ramadan Yahia, Fatma Y Ahmed, **Mohamed Ramadan**, et al. 2023. "COVID-19 Associated Mucormycosis among ICU Patients: Risk Factors, Control, and Challenges." [AMB Express](https://doi.org/10.1186/s13568-023-01599-8). <https://doi.org/10.1186/s13568-023-01599-8>.



Work Experience

Faculty of Pharmacy Minia University, El Minya, Egypt.

Nov 2019 - Present

Teaching Assistant

- Providing undergraduate student mentorship
- Teaching practical lessons
- Preparing PowerPoint
- Conducting seminars.

Health Affairs Directorate, El Minya, Egypt.

May 2019- Nov 2019

Pharmacist

- Communicating with and following up with patients, dispensing over-the-counter drugs.
- Presenting clinical information on medications, reporting suspected adverse reactions, and providing personalized support to patients.
- Formulate and test medications in laboratories, and store, preserve, and dispense them.

Community Pharmacy, El Minya, Egypt.

Jan 2019-Present

Pharmacist (Part-time job)

- Supervising communication with and following up patients,
- Dispensing over-the-counter drugs,
- Provide personalized support to junior pharmacists,
- Overseeing training opportunities about drug classes and drug interaction for pharmacy students and fresh graduates.

Leadership and Extra-Curricular Activities

Conducting workshop entitled "The proper use of drugs and the preferred interventions in emergency"
Tahnasha, El Minya, Egypt.

Aug 2020

- Elucidated of the proper usage of drugs particularly antibiotic intake.
- Outlined the drawbacks of antibiotics misuse.

Several Medical Convoys El Minya, Egypt.

Sept 2014 - Jan 2017

- Being responsible for drug dispensing and patient counseling within my team for underprivileged patients.

HONOURS AND AWARDS

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| • Academic merit award | Nov - 2019 |
| Faculty of pharmacy Minia university | |
| • Medal for best poster and presentation | Apr - 20217 |
| Medicinal chemistry department- faculty of pharmacy Minia university | |
| • Top Ten Ranked Student university president IPAD Award | Mar - 2013 |
| Minia university | |
| • Excellence Award | 2012-2016 |
| Faculty of Pharmacy Minia University | |

• **Award for top ten ranked students in secondary school**
Bani-Ahmed secondary school

Jul - 2012

PROFESSIONAL DEVELOPMENT TRAINING

• **Molecular biology techniques workshop.**
Deraya university, faculty of pharmacy, biochemistry department.

Sept - 2023

• **Fundamental of digital transformation certificate.**
Information Technology Center (ITC), Minia University

Apr - 2023

• **Statistical Analysis using SPSS**
Information Technology Center (ITC), Minia University.

Mar- 2023

• **Searching global databases and managing scientific references – endnote**
Information Technology Center (ITC), Minia university.

May - 2021

Skills

Laboratory:

- Clinical sample collection and processing.
- Extracting genetic materials.
- Bacterial and fungal culture.
- Conventional PCR.
- RT-PCR.
- Gel Electrophoresis (Agarose and SDS-PAGE).
- Pharmaceutical microbiology techniques.
- Animal Handling.

Language:

- Arabic: Native Language.
- English: Good User according to CEFR level (band 7 IELTS).

Technical: Microsoft skills (Word, PowerPoint, and Excell), BioRender.