

# Hanaa Elmetwally Barakat

## Research Assistant

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## SUMMARY

- I am enthusiastic research assistant with more than two years of experience; Seeking a master's degree in Immunology; Have gained good experience in Cell Culture, Flow cytometry, Omics and some in Bioinformatics; Have skilled in research ideas and critical thinking; A good communicator and can build positive and cohesive relationships with all levels of staff; Eager to learn more and put this experience into genuine contributions.
- My research interests are in Immunology, Immunotherapy, and Cancer.

## QUALIFICATIONS

- 2023/2024**                      **Clinical Research Diploma | MARS-Global company, UK.**
- The course includes 6 modules and applying on 2 Systematic reviews.
  - I finished 3 modules and waiting for the others to be opened.
  - Suppose to be finished by the end of the year.
- 2021/2022**                      **Preliminary Master's Degree | Al-Azhar University, Cairo, Egypt.**
- Department: Microbiology.
  - Grades: Passed, I was the 1<sup>st</sup> in my class.
- 2016/2018**                      **Diploma degree | Suez Canal University, Ismailia, Egypt.**
- Major: Physiology and Biochemistry.
  - Grades: Very Good.
- 2012/2016**                      **Bachelor's degree | Al-Azhar University, Cairo, Egypt.**
- Department: Microbiology and Chemistry.
  - Grades: Excellent with honor.

## WORK EXPERIENCE

- Sept 2020-Present**                      **Research Assistant at Center of Excellence in Cancer Research, Tanat, Egypt**
- Senior in Cell Culture Unit.
  - Assisted with experiments including molecular biology, cell culture, and flow cytometry.
  - Managed laboratory stocks and cell lines, ensuring accurate cataloguing and maintenance.
  - Placed orders and liaised with company representatives to negotiate prices.
  - Trained and oriented new staff and students, facilitating their integration into the research group.
  - Supported research projects through flexibility and collaborative efforts and provided guidance to both undergraduate and postgraduate students.
- 2019/2020**                      **Lab Chemist at El-Seddik Laboratory, Mahalla, Egypt**
- Worked in Chemistry and Parasitology unit.
  - Acquired skills in blood sample collections, sample analysis and Excel Microsoft.

## GRANTED TRAININGS

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2024	<b>Egypt Scholar Lab 11.</b> <ul style="list-style-type: none"><li>▪ Finished 10 lectures about scientific writing, ethics, and tools.</li><li>▪ Suppose to start joining to their advanced lab soon.</li></ul>
2023/2024	<b>American Society of Microbiology (ASM) Future Leaders Mentoring (AFLM) fellowship.</b>
Apr 2022	<b>International Brain Research Organization (IBRO) School of Neuroscience,</b> <ul style="list-style-type: none"><li>▪ Place: Montreal, Canada</li><li>▪ Attended almost all of the online training section.</li></ul>
Mar 2022	<b>Proteomic Analysis by Mass Spectrometry (PAMS), Montevideo, Uruguay,</b> <ul style="list-style-type: none"><li>▪ granted training course at Institute of Pasteur, Montevideo, Uruguay.</li><li>▪ Hands-on trained on gel digestion, protein isolation and purification.</li><li>▪ Analysis of data by tools like Pattern Lab and Cytoscape.</li></ul>
Sept 2021	<b>Flow Cytometry: “From basic principles to advanced applications”, Italy,</b> <ul style="list-style-type: none"><li>▪ granted by International Centre for Genetic Engineering and Biotechnology.</li></ul>

## COURSES/TRAINING

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### COURSES

Jul 2024	<b>ALX AFRICA: ALX AiCE programme- AI Career Essentials</b> <ul style="list-style-type: none"><li>▪ finished 6 weeks of learning AI tools and hands-on experience such as: introduction to AI, How to use AI in getting jobs, Brainstorming with AI, AI assistant and AI-powered decision making, etc.</li></ul>
Grade: 90%	<b>Writing in the Science</b>   Coursera
Grade: 100%	<b>Understanding Research Methods</b>   Coursera
Grade: 93%	<b>How to Write/Publish a Scientific Paper</b>   Coursera

### TRAININGS

Sep 2024	<b>R programming</b> <ul style="list-style-type: none"><li>▪ started a self-paced course of 6 parts of R language.</li></ul>
Sep 2020	<b>Center of Excellence in Cancer Research, Tanta, Egypt</b> <p>At Flow Cytometry and omics units</p> <ul style="list-style-type: none"><li>▪ Cell Preparation, Staining, Acquisition, and Flowjo Data analysis.</li><li>▪ RNA extraction and molecular experiements.</li></ul>
Jul 2020	<b>Children’s Cancer Hospital (CCHE) -57357-Egypt, Cairo, Egypt</b> <p>At Proteomics Unit:</p> <ul style="list-style-type: none"><li>▪ Protein quantifications, Gel Electrophoresis, and Proteomic Protocols.</li></ul>
May 2020	<b>H3ABioNet-Bioinformatics Network for H3Africa</b>   Bioinformatics training. <ul style="list-style-type: none"><li>▪ Granted the course of 6 modules from introduction to multiple alignment sequencing.</li><li>▪ Using Linux, Uni-Prot, Blast in our work</li></ul>

## CONFERENCES AND WEBINARS

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2022, 23	<b>BGICC-Breast Gynecological &amp; Immunooncology International Cancer, Conference, Cairo, Egypt .</b>
2022	<b>2th Onco-Bronchology International Conference, Cairo, Egypt.</b>
2021	<b>Nature Research Academies in collaboration with Egyptian Knowledge Bank</b> <p>Online webinars.</p>
2021	<b>Egyptian Researchers Network – ERN</b>   Online Webinar.

## PUBLICATIONS

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<https://orcid.org/0000-0002-4844-9881>.

## VOLUNTEER WORK

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- **2023 – Present** Member at American Society of Microbiology (ASM)
- **Feb 2021- Present** HR at Egyptian Researchers | Online volunteering.
- **Mar 2019- Present** Member at TEDxTalks as a translator | Online volunteering.

## LANGUAGE SKILLS

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- Native Language: Arabic
- Foreign Language: English (Upper-intermediate)

## Referees contact information

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**Prof. Mohamed Labib Salem**

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