

**Name: Samira Zakeer Hamad Yousef**

Position: Assistant professor  
 Department of Microbiology and Immunology  
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- **Personal:** [samirazakeer2007@hotmail.com](mailto:samirazakeer2007@hotmail.com)

**Personal:** Date of birth: 21/5/1985  
 Marital Status: married

**Academic Qualifications:**

28 <sup>th</sup> March 2022	Associate professor in Pharmaceutical Sciences (Microbiology & Immunology), Faculty of Pharmacy, Suez Canal University.
25 <sup>th</sup> November 2015	Ph.D. in Pharmaceutical Sciences (Microbiology & Immunology), Faculty of Pharmacy, Suez Canal University.
17 <sup>th</sup> October 2011	Master's Degree in Pharmaceutical Sciences (Microbiology & Immunology), Faculty of Pharmacy, Suez Canal University.
May 2007	B.Sc. Pharmaceutical Sciences (May 2007), Faculty of Pharmacy, Suez Canal University (Excellent with the degree of honor, 87.73 %).

**Language proficiency** Arabic: mother tongue  
 English (spoken & written): excellent

<b>Work History</b>	28 <sup>th</sup> March 2022	Associate professor at the Department of Microbiology & Immunology, Faculty of Pharmacy, Suez Canal University.
	25 <sup>th</sup> November 2015- March 2022	Lecturer at the Department of Microbiology & Immunology, Faculty of Pharmacy, Suez Canal University.
	October 2011- November 2015	Teaching assistant at the Department of Microbiology & Immunology, Faculty of Pharmacy, Suez Canal University.
	October 2007- October 2011	Demonstrator at the Department of Microbiology & Immunology, Faculty of Pharmacy, Suez Canal University.
	July 2022	A head of industrial and pharmaceutical biotechnology department , biotechnology institute

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**Teaching Experience:**

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- Participation in teaching Public Health course for third year students (Old Regular Program) during academic year 2015-2016.
- Participation in teaching General Microbiology course for second year students (Old Regular Program) during academic years 2015-2016.
- Participation in teaching Cell Biology course for first year students (New Regular Program) during the academic year 2016-2017.
- Participation in teaching Cell Biology course for first year students (New Regular Program) in the academic year 2017-2018.
- Participation in teaching general microbiology and immunology course for second year students (New Regular Program) in the academic year 2017-2018.
- Participation in teaching Cell Biology course for first year students (New Regular Program) in the academic year 2018-2019.
- Participation in teaching Parasitology course for third year students during the academic year 2018-2019.
- Participation in teaching general microbiology and immunology course for second year students (New Regular Program) in the academic year 2018-2019.
- Participation in teaching Cell Biology course for first year students during the academic year 2019-2020.
- Teaching all Parasitology course for third year students during the academic year 2019-2020.
- Participation in teaching General Microbiology course for second year students during the academic year 2019-2020.
- Participation in teaching Clinical Microbiology course for third year students during the academic year 2019-2020.
- Participation in teaching Pharmaceutical Microbiology course for third year students during the academic year 2019-2020.
- Participation in teaching General Microbiology course for second year students during the academic year 2020-2021.
- Participation in teaching pharmaceutical biotechnology course for fourth year students during the academic year 2021-2022.
- Participation in teaching pharmaceutical biotechnology course for fourth year students

Bachelor degree students in Pharmacy program

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during the academic year 2022-2023 .

- Participation in teaching General Microbiology course for second year students during the academic year 2022-2023.
- Participation in teaching Pharmaceutical Microbiology course for third year students during the academic year 2022-2023.

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Bachelor degree  
Clinical Pharmacy  
program

- Participation in teaching General Microbiology course (9 h) for second year students during academic years 2015-2016.
  - Participation in teaching Public Health course (10 h) for fourth year students during academic year 2015-2016.
  - Participation in teaching Cell Biology course (7 h) for first year students during the academic years 2016-2017
  - Teaching all the course of Cell Biology (15 h) for first year students during the academic year 2017-2018.
  - Participation in teaching Clinical Microbiology course (5 h) for third year students during the academic year 2017-2018.
  - Participation in teaching Parasitology course (11 h) for second year students during the academic year 2017-2018.
  - Participation in teaching Cell Biology course (13h) for first year students during the academic year 2018-2019.
  - Participation in teaching Public Health course (7 h) for fourth year students during academic year 2018-2019.
  - Participation in teaching genetics course (11 h) for second year students during academic year 2018-2019.
  - Participation in teaching Cell Biology course (6 h) for first year students during the academic years 2019-2020
  - Participation in teaching Public Health course (15 h) for fourth year students during academic year 2019-2020.
  - Participation in teaching Biotechnology course (12 h) for fourth year students during academic year 2019-2020.
  - Participation in teaching Medical Microbiology course (10 h) for third year students during academic year 2019-2020.
  - Participation in teaching parasitology and virology course (10 h) for third year students
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	<p>during academic year 2021-2022.</p> <ul style="list-style-type: none"> <li>• Participation in teaching pharmaceutical biotechnology course (10 h) for fourth year students during academic year 2021-2022.</li> <li>• Participation in teaching parasitology and virology course (4 h) for third year students during the summer course 2021-2022.</li> <li>• Participation in teaching parasitology and virology course (15 h) for third year students during academic year 2022-2023.</li> <li>• Participation in teaching General Microbiology course (15h) for second year students during the academic year 2022-2023.</li> <li>• Participation in teaching Medical Microbiology course (4 h) for third year students during academic year 202-2023.</li> <li>•</li> </ul>
Other Universities	<ul style="list-style-type: none"> <li>• Participation in teaching biotechnology course (2 h) for fifth year students (Faculty of Pharmacy, Sinai University) during the academic years 2017- 2018.</li> <li>• Participation in teaching public health course (3.5 h) for fifth year students (Faculty of Pharmacy, Sinai University) during the academic years 2017- 2018.</li> <li>• Participation in teaching public health course (6 h) for fifth year students (Faculty of Pharmacy, Sinai University) during the academic years 2018- 2019.</li> <li>• Participation in teaching antimicrobial agents course (3 h) for fifth year students (Faculty of Pharmacy, Sinai University) during the academic years 2018- 2019.</li> <li>• Participation in teaching public health course (4.5 h) for fifth year students (Faculty of Pharmacy, Sinai University) during the academic years 2018- 2019.</li> </ul>
Diploma ( Pharm D - Clinical diploma)	<ul style="list-style-type: none"> <li>• Participation in teaching Immunology course (4 h theoretical and 4 h practical) during the academic years 2015-2016.</li> <li>• Participation in teaching Medical Microbiology course (12 h theoretical and 12 h practical) during the academic years 2019-2020.</li> <li>• Participation in teaching Hospital Microbiology course (15h) for clinical pharmacy diploma students during the academic years 2022-2023.</li> </ul>
PhD students	<ul style="list-style-type: none"> <li>• Participation in teaching Advanced Microbiology 2 course (8 h) course during the academic year 2017-2018.</li> <li>• Participation in teaching Immunology II course (15 h) course during the academic year 2022-2023.</li> </ul>
Master's Students	<ul style="list-style-type: none"> <li>• Participation in teaching Advanced Microbiology 1 course (15 h) for Master students during the academic years 2015-2016.</li> <li>• Participation in teaching sterilization of pharmaceutical products course (15 h) for Master</li> </ul>

students during the academic years 2015-2016.

- Participation in teaching sterilization of pharmaceutical products course (15 h) for Master students during the academic years 2017-2018.
- Participation in teaching sterilization of pharmaceutical products course (15 h) for Master students during the academic years 2018-2019.
- Teaching the Immunology I course for Master students during the academic year 2022-2023.

#### Laboratory Experience:

Antimicrobial Susceptibility testing

DNA extraction

Plasmid Extraction

Polymerase Chain Reaction

Gel Electrophoresis

Sequencing

Some bioinformatics soft wares

#### Participation in academic accreditation:

2015 - 2016	A member in the “ <b>Teaching and learning strategies</b> ” at the quality assurance unit, Faculty of Pharmacy, Suez Canal University.
2014 - 2015	A member in the “ <b>Questionnaire Committee</b> ” at the quality assurance unit, Faculty of Pharmacy, Suez Canal University.
2016 - 2017	A member in the “ <b>Committee for strategic planning</b> ” at the quality assurance unit, Faculty of Pharmacy, Suez Canal University.
2017-2018	A member in the “ <b>Academic support for students unit</b> ” Faculty of Pharmacy, Suez Canal University.
2017 – 2018, 2018 – 2019, 2019 – 2020, 2020-2021	A member in the “ <b>post graduate committee</b> ” Faculty of Pharmacy, Suez Canal University.
2022-2023	A member in the “ <b>Academic support for students unit</b> ” Faculty of Pharmacy, Suez Canal University. A head of the “leadership and governance” at the quality assurance unit, Faculty of Pharmacy, Suez Canal University.
2018 - 2019	<b>Academic advisor</b> for first year clinical pharmacy students.

2019 - 2020	<b>Academic advisor</b> for second year clinical pharmacy students.
2020 - 2021	<b>Academic advisor</b> for third year clinical pharmacy students.
2021-2022	<b>Academic advisor</b> for fourth year clinical pharmacy students.
2022-2023	<b>Academic advisor</b> for fifth year clinical pharmacy students.
2022-2023	A member in the “ <b>leadership and governance</b> ” at the quality assurance unit, Faculty of Pharmacy, Suez Canal University.

### Publications:

Zakeer,S., Mahmoud,N.F., Hosny., A. M. S. and Abd Allah, S. 2011, Emergence of Extended Spectrum Beta Lactamases in Clinical Isolates of *Proteus mirabilis* in Ismailia, Egypt. *N. Egypt. J. Microbiol.* 30: 53-62.

Zakeer,S., Mahmoud,N.F., Hosny., A. M. S. and Abd Allah,S. Evaluation of phenotypic tests for detection of metallo beta lactamases production in *Klebsiella pneumoniae* isolates versus PCR (acceptance at SCU medical journal).

Zakeer,S., Mahmoud,N.F., Hosny., A. M. S. and Abd Allah,S. Carbapenemase producing *Kebsiella* species resistance mechanisms (acceptance at SCU medical journal).

Hassan, H.Y., Zakeer, S., Mahmoud, N.F. 2017, Evaluation of Antimicrobial Efficacy of Four Tested Solutions against *Enterococcus Faecalis*, an in Vitro Study. *Medecal Journal of Cairo University.* 85 (8): 3107-3112.

Enany, S., Zakeer, S., Hosny. A. M. S. 2019, Phylogenetic Relationships among *Staphylococcus epidermidis* based on 16S rRNA Gene Sequence. *Egyptian Journal of Medical Microbiology.* 28 (4): 157-163

Enany, S., Zakeer, S., Sayed. A. A., Magdeldin. S. 2020, Shotgun proteomic analysis of ESBL producing and non-ESBL-producing *Klebsiella Pneumoniae* clinical isolates. *Microbiological Research.* 234: 1 – 9.

Mohamed, I., Zakeer, S., Azab, M., Hanora, A. 2020, Changes in Vaginal Microbiome in Pregnant and Non pregnant Women with Bacterial Vaginosis: Toward Microbiome diagnostics? *OMICS. A journal Of Integrative Biology.* 24 (10): 1 – 14.

Hosny. A. M. S., Abdelrahman. A. A., Hamed. D. M., Zakeer, S. 2021, Detection of metallo  $\beta$ -lactamase genes in heteroresistant *Pseudomonas aeruginosa* isolated from clinical isolates in Egypt. *International Journal of Research in Pharmaceutical Sciences.*12 (2): 1127 – 1135.

Zakeer, S., Hosny. A. M. S., Abdelrahman. A. A., Hamed. D. M., 2021, Heteroresistance Screening of *Pseudomonas aeruginosa* Specimens from Hospitalized Inpatients in Cairo,

	Egypt. Egyptian Journal of Medical Microbiology .30 (3): 1 – 9.
	Zakeer, S., Hazem, R M., OM, Sh., SG, M.SH., Hanna, P. A.2021, A Comparative study of the Clinical and Microbiological Effects of Fluoride, Xylitol and Combined Fluoride-Xylitol Tooth-Pastes in Children. RECORDS OF PHARMACEUTICAL AND BIOMEDICAL SCIENCES. 5 (2), 89-103
	Abdelrahman, A.A., Hosny. A. M. S., Hamed. D. M., Zakeer, S. 2021. Antibiotics Profile and Lactamases in <i>Pseudomonas aeruginosa</i> . RECORDS OF PHARMACEUTICAL AND BIOMEDICAL SCIENCES. 5 (2), 74-79.
	Hashem, N.M., Hosny. A. M. S., Abdelrahman. A. A., Zakeer, S. 2021, Antimicrobial activities encountered by sulfur nanoparticles combating Staphylococcal species harboring <i>sccmecA</i> recovered from acne vulgaris. AIMS Microbiology. 7 (4), 481- 498
	Hashem, N.M., Hosny. A. M. S., Abdelrahman. A. A., Zakeer, S. 2022. Prevalence of <i>SccmecA</i> , <i>ermB</i> , and fusidic acid-resistant genes in Staphylococcal species recovered from acne vulgaris in Egypt. RECORDS OF PHARMACEUTICAL AND BIOMEDICAL SCIENCES. 6 (2), 5-11
	Enany, S., Zakeer, S., Diab, A. A, Sayed. A. A., Bakry, U. 2022. Whole genome sequencing of <i>Klebsiella pneumoniae</i> clinical isolates sequence type 627 isolated from Egyptian Patients. PLOS ONE. 17(3), 1-14.
	Mahmoud, E., Hanora, A., Abdalla, S., Abdelrahman, A.A., Zakeer, S. 2023. Shotgun metagenomic analysis of bacterial symbionts associated with "Chromodoris quadricolor" mantle. Marine Genomics. 69, 1-9.
	El Samak, M., Zakeer, S., Hanora, A., Solyman, S.M. 2023. Metagenomic and metatranscriptomic exploration of the Egyptian Red Sea sponge <i>Theonella</i> sp. associated microbial community. Marine Genomics. 70, 1-11.

### Research students supervised

<b>PhD students</b>	6
<b>Master students</b>	7

### Activities:

#### 1) Conferences

1-2 <sup>nd</sup> April 2017.	First international conference of pharmaceutical and medical sciences. Faculty of Pharmacy, Suez Canal University (SCU).
25 <sup>th</sup> November 2017	First SCU conference on clinical pharmacy "clinical pharmacy between reality and expectations" Faculty of Pharmacy, Suez Canal University (SCU).
20 <sup>th</sup> November 2018	Second SCU conference on clinical pharmacy "clinical pharmacy between reality and expectations" Faculty of Pharmacy, Suez Canal University (SCU).
3 <sup>rd</sup> December 2018	The First Annual Conference for Post Graduate Pharmaceutical Science... Innovation and Development Faculty of Pharmacy, Suez Canal University (SCU).

26-27 December 2018	Recent Advances in Molecular and Cellular Medicine, Center of Excellence in Cellular and Molecular Medicine, Ismailia, Egypt.
8 – 9 December 2019	Second international conference of Faculty of Pharmacy, Suez Canal University "Pharmaceuticals used in internal medicine".
5 <sup>th</sup> December 2021	A reviewer in Third Annual Conference of graduate researchers in Pharmaceutical Sciences. Faculty of Pharmacy, Suez Canal University (SCU).

## 2) Workshops

5 <sup>th</sup> December 2010	A workshop on <b>(Intellectual Property Rights)</b> . Quality Assurance Unit, Faculty of Pharmacy, Suez Canal University (SCU), Ismailia, Egypt.
8-10 <sup>th</sup> April 2013	A workshop on <b>(Strategic Planning)</b> . Quality Assurance Unit, Faculty of Pharmacy, Suez Canal University (SCU), Ismailia, Egypt.
27 <sup>th</sup> February 2014	A workshop on <b>(using SPSS program)</b> . Faculty of Pharmacy, Suez Canal University (SCU), Ismailia, Egypt.
20 <sup>th</sup> January 2014	A workshop on <b>(creating a Google scholar account)</b> . Quality Assurance Unit of the Faculty of Pharmacy, Suez Canal University, Egypt.
4 <sup>th</sup> December 2014	A workshop on <b>(Data analysis using SPSS program)</b> for training postgraduate students at the Faculty of Pharmacy, Suez Canal University.
22 <sup>th</sup> December 2015	A workshop on <b>(academic advising)</b> . Faculty of Pharmacy, Suez Canal University (SCU), Ismailia, Egypt.
9 <sup>th</sup> August 2017	A workshop on <b>(Administrative setting of leadership)</b> . Faculty of Pharmacy, Suez Canal University (SCU), Ismailia, Egypt.
16 <sup>th</sup> August 2017	A workshop on <b>(How to avoid plagiarism: from a software user to a proficient writer)</b> . Faculty of Pharmacy, Suez Canal University (SCU), Ismailia, Egypt.
15 <sup>th</sup> November 2017	A workshop on <b>(Strategies for enhancing universities ranking and reputation)</b> . Faculty of Pharmacy, Suez Canal University (SCU), Ismailia, Egypt.
29 <sup>th</sup> August 2018	A workshop on <b>(Writing for a grant)</b> centre of excellence in molecular & cellular medicine. Faculty of medicine, Suez Canal University (SCU), Ismailia, Egypt.
12 <sup>th</sup> September 2018	A workshop on <b>(Join CellPress journals awareness)</b> Faculty of Pharmacy, Suez Canal University (SCU), Ismailia, Egypt.
21 <sup>th</sup> April 2019	A workshop on <b>(Bioinformatics on microbial biodiversity analysis)</b> oncology diagnostic unit, Faculty of medicine, Suez Canal University (SCU), Ismailia, Egypt
	Workshop on <b>Bioinformatics</b> (Level 1) Organized By The Egyptian Center Bioinformatics And Genomics ( ECBAG)
February 2021 to July 2021	<ul style="list-style-type: none"> <li>❖ Module 1: What Bioinformatics Can Do For You?</li> <li>❖ Module 2: Manipulation of Biological Sequences (PCR &amp; Primer Design)</li> <li>❖ Module 3: Different PCR Techniques And Sequence Analysis</li> <li>❖ Module 4: Applications of DNA Sequence Analysis (Global Alignment)</li> <li>❖ Module 5: Pair wise sequence alignment theory and applications.</li> <li>❖ Module 6: Introduction to sequence searching by BLAST</li> </ul>



- ❖ Module 7: Sequence analysis- BLAST (theory and applications)
- ❖ Module 8: How to build a multiple sequence alignment
- ❖ Module 9: Coloring and Interpreting multiple sequence alignment
- ❖ Module 10: Inferring phylogenetic analysis using Jalview
- ❖ Module 11: Advanced Molecular Concepts
- ❖ Module 12: Revision on some concepts

### b. Development Centre Workshops

During the period of 2007-2011	Teacher Preparation workshops
During the period from 2007 to 2011	Behavior of the profession workshop
During the period from 2007 to 2011	Scientific Research Methods workshop
During the period from 2007 to 2011	Scientific Research Ethics workshop
During the period from 2011 to 2015	Quality standards in the teaching process
During the period from 2011 to 2015	Management of the research team
During the period from 2011 to 2015	Effective communication skills
During the period from 2011 to 2015	University administration
During the period from 2011 to 2015	Competitive Research Project
During the period from 2011 to 2015	Evaluation and examination systems
October 2017	Teaching and learning strategies
October 2017	International scientific publication
October 2018	Financial and legal aspects
January 2020	Design and construction of the academic course and program
February 2020	Use of global databases
April 2021	Academic advising and student orientation

### 3) Participation in student activities

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<i>Oct, 2017</i>	Supervising activities of the first year clinical pharmacy students about designing some cellular organelles models. Faculty of Pharmacy, Suez Canal University.
<i>March, 2018</i>	Supervising activities of the second year clinical pharmacy students about designing posters for parasites life cycles. Faculty of Pharmacy, Suez Canal University.

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**4) Participation in oral exams**

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Faculty of Pharmacy, Suez Canal University.  
Faculty of Pharmacy, Zagazig university

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**Referees**

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