



Mansoura University
Faculty of pharmacy
Microbiology and Immunology dept.

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Microbiology and Immunology Department Guide



(2022)



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Introduction

The Department of Microbiology and Immunology - Faculty of Pharmacy - Mansoura University was established in 1971 and was under the direct supervision of the Department of Pharmaceutics - Faculty of Pharmacy - Mansoura University. At the present time, the Department of Microbiology and Immunology is one of the most important medical departments in the faculty that teach undergraduate students, clinical pharmacy program and graduate programs.

The department includes twenty-three faculty members and seventeen assistant faculty members. The department also includes an administrative structure consisting of two secretaries in addition to six technicians and four workers. The Department of Microbiology and Immunology is located in Educational Building (B) on two floors (first and second floors) and includes three laboratories for students and two research laboratories in addition to a laboratory Microarray.

The department teaches courses for the undergraduate, clinical pharmacy and postgraduate programs that include within its framework spread of basic knowledge in biology of microorganisms, microbial genetics, immunology, parasitology, biotechnology, microbial diseases and how to treat them and prevent their spread. At the level of postgraduate studies also, the department offers distinguished programs for obtaining diploma, Master and PhD in pharmaceutical sciences (Microbiology and Immunology), in addition to advanced research programs aimed at preparing students to contribute to the application of the correct scientific methodology.

The department of Microbiology and Immunology is always keen on contribution with other departments to the graduation of highly qualified pharmacists who are fully aware of the importance of microbiology in many pharmaceutical fields. In addition, we look forward to building and developing research programs that help solve social problems and improve the performance of pharmaceutical



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companies in quality control and production of pharmaceutical products.

We hope that Allah help us to fulfill the department's mission in a manner that benefits the college, the university, and our beloved Egypt.

Department Email:

MicrobiologyImmunologyMansoura@yahoo.com



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Faculty Mission and Vision

Faculty Mission

The Faculty of Pharmacy, Mansoura Univ. is committed to progression and continuous development of the educational process, post-graduate studies, research programs and community service; aiming to graduate distinct pharmacists who assemble the needs of local and regional market, and researchers of competitive level, in the framework of academic standards and community values.

Faculty Vision

To achieve leadership in education, research, and community service in all pharmaceutical domains, locally and regionally.



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Department Mission and Vision

Department Mission

- Spreading basic knowledge of microbiology, microbial genetics, immunology, parasitology, biotechnology, microbial diseases and their treatment among undergraduate students.
- Spreading basic knowledge of advanced microbiology, molecular biology, industrial biotechnology, control of sterile pharmaceutical products among post graduate students.
- Conducting research on pathogenic bacteria, fungi, and viruses, and production of important pharmaceutical products.

Department Vision

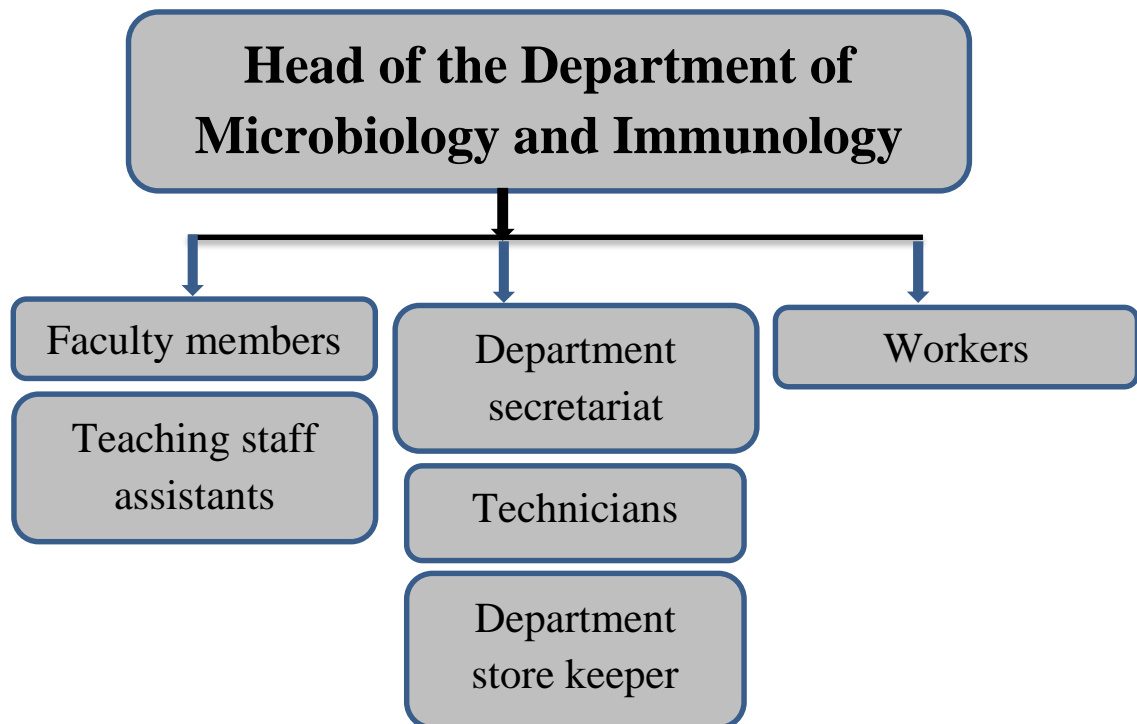
Our vision is to contribute with other departments in graduation of highly qualified pharmacists that are aware with the relevance of microbiology in different pharmaceutical fields. Additionally, we are looking forward to construct and develop of research programs that help to solve the community problems and improving the performance of pharmaceutical companies in quality control and production of pharmaceutical products.



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The department's organizational structure





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Department infrastructure

The department of Microbiology and Immunology includes the first and second floors of the educational building (B), which contains:

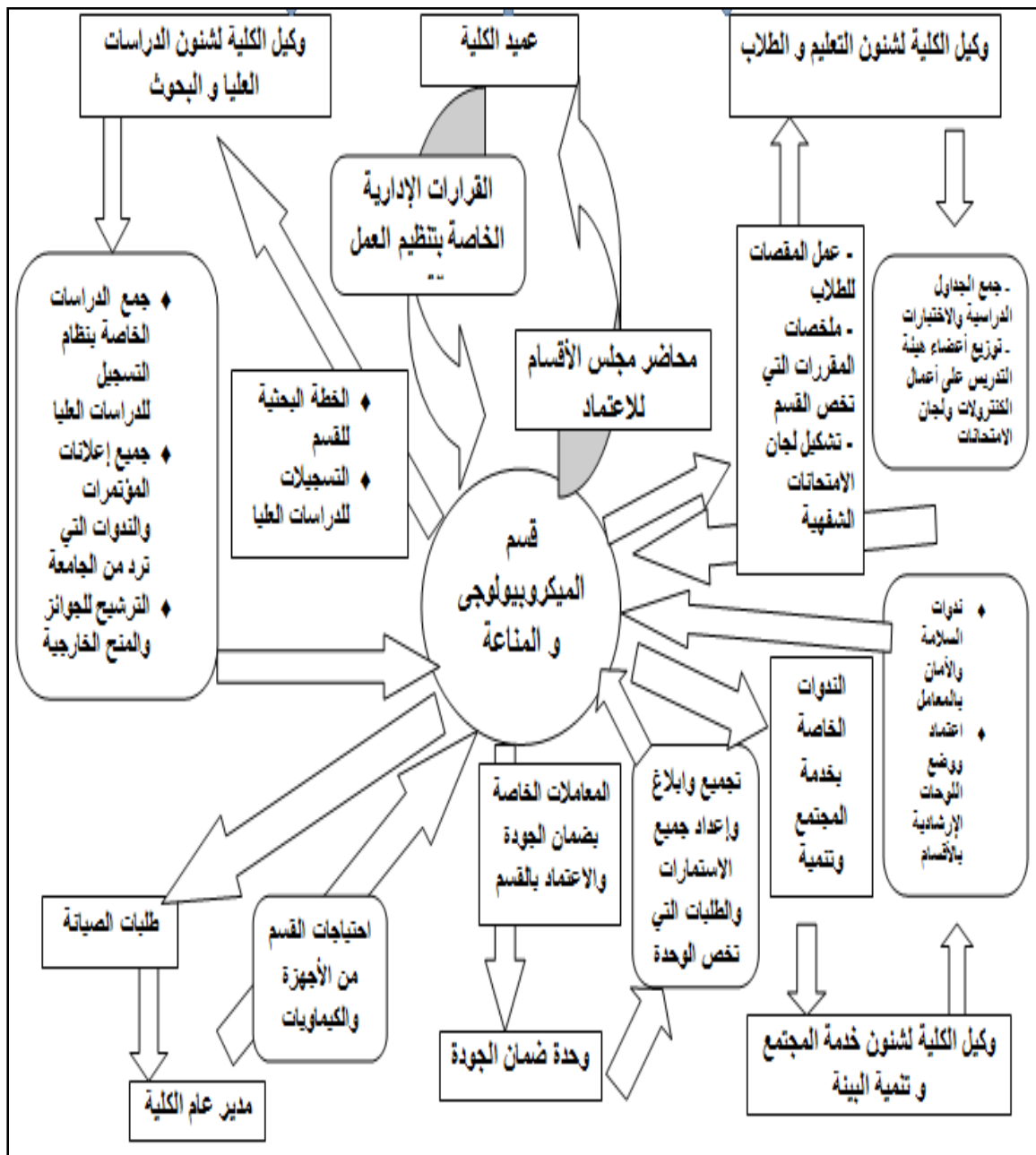
M	Infrastructure Elements	The job/purpose
1	Department board room on the first floor, upstairs	Meetings
2	Faculty rooms (6)	The use of faculty members
3	Teaching assistant rooms (2)	The use teaching assistants
4	Student labs (3)	Practical lessons for students
5	Research laboratory (1) and the molecular biology and microarray lab on the first floor, upstairs	Scientific research in the department
6	Research laboratory (2) Ground floor	Scientific research in the department
7	Electrophoresis room-First floor upstairs	Scientific research in the department
8	Secretarial room (1) First floor upstairs	The use of the department secretary
9	Technicians and workers rooms(3)	The use of technicians and workers



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Interchangeable relations between Microbiology & Immunology department and the Faculty administration

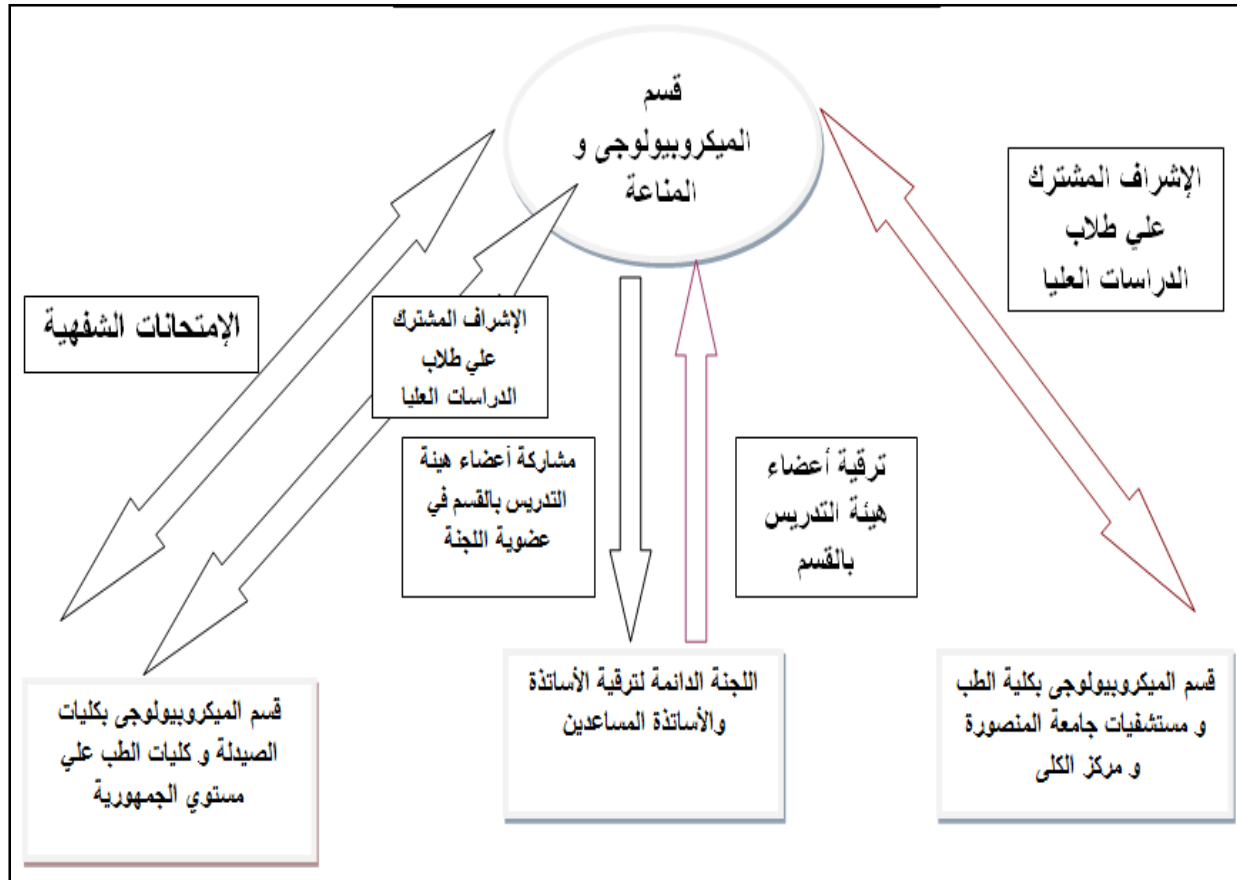




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Interchangeable relations between Microbiology & Immunology department and other departments





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Faculty Members Affairs: -

1. Names of the Heads of the Department of Microbiology and Immunology

M	The name	Occupation	Period
1	Prof. Dr. Mohamed Adel El-Sokkary (May Allah bless his soul)	Emeritus professor	From the inception of the department until 2002
2	Prof. Dr. Sami Khaira (May Allah bless his soul)	Professor	From 2002 to 2005
3	Prof. Dr. Wael Abbas Elnaggar	Emeritus professor(Loaned)	From 2005 to 2011
4	Prof.Dr. Ramadan Hassan Ibrahim	Emeritus professor	From 2011 to 2016
5	Prof. Dr.Rasha Mohamed Fathy Barwa	Professor	From 2016 to 2020
6	Prof.Dr. El-Sayed Elsherbiny Habib	Professor	From 2020 So far



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2. The names of the faculty members who held administrative positions in the college

M	The name	Occupation	administrative position
1	Prof. Dr. Mohamed Adel El-Sokkary (May Allah bless his soul)	Emeritus professor	Vice Dean for Graduate Studies and Research Affairs - from 11/23/1983 to 11/22/1986
2	Prof. Dr. Rasha Mohamed Fathy Barwa	Professor	Vice Dean for Education and Student Affairs from 01/08/2018
3	Prof.Dr.Mohammed Yousif Ali	Professor (Loaned)	Program Manager of Professional Master in quality control and drug analysis for the academic year 2017/2018
4	Prof.Dr.Hany Ibrahim Kenawy	Professor	Program Manager of Professional Master in Immunology and Regenerative Medicine starting from the academic year 2018/2019

3. Staff members

M	The name	Occupation
1	Prof. Dr. Mohamed Adel El-Sokkary (May Allah bless his soul)	Emeritus professor
2	Prof. Dr. Mohammad Abul-Hassan (May Allah bless his soul)	Professor
3	Prof. Dr. Wael Abbas Elnaggar	Emeritus professor (Loaned)
4	Prof. Dr. Samy Khair Allah (May Allah bless his soul)	Professor
5	Prof.Dr. Ramadan Hassan Ibrahim Hassan	Emeritus professor
6	Prof.Dr.El-Sayed Elsherbiny Habib	Professor



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7	Prof.Dr. Khaled Hussein Abd El Galil	Professor
8	Prof. Dr. Rasha Mohamed Fathy Barwa	Professor
9	Prof.Dr.Mohammed Yousif Ali	Professor (Loaned)
10	Prof.Dr.Mona Ibrahim Awad Shaaban	Professor
11	Prof.Dr.Hany Ibrahim Kenawy	Professor
12	Prof.Dr.Mohamed Mohamed Adel Elsokkary	Professor
13	Prof.Dr.Eman Salama Abdelmegeed	Professor
14	Prof.Dr. Shaymaa Hassan Mohamed Hassan	Professor (Loaned)
15	Dr. Areej Mostafa El-Mahdy	Associate Professor (Loaned)
16	Dr. Dina Eid El-Sayed Rizk	Associate Professor
17	Dr. Mohammed Asaad Zaki Hassan Elmowafy	Associate Professor
18	Dr. Heba Shehta Abdullah Said	Associate Professor
19	Dr.Aber Mohamed AbdelAziz Ibrahim	Associate Professor
20	Dr.Abdelaziz Ahmed Elgamal	Associate professor (internal secondment)
21	Dr.Shady Kamal George ShokrAllah	Lecturer (Wife escort)
22	Dr. Rehab Mohamed Elbargisy	Lecturer (Husband escort)
23	Dr. Walid Abd El- Fattah El-Sayed Mottawea	Lecturer (Wife escort)
24	Dr. Hanan Reda Shehata	Lecturer (Husband escort)
25	Dr. Soha Lotfy Eldamarawy Elshaer	Lecturer
26	Dr. Enas Yasser Mohammed Abdelhaleem Sultan	Lecturer



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4. Teaching assistants

M	The name	Occupation
1	Rana Muhammad Reda	Assistant lecturer
2	Maha Ahmed El Sayed Mabrouk	Assistant lecturer
3	Alaa Mohamed Mahmoud Aboelenin	Assistant lecturer
4	Dina Ashraf Ramadan Ahmed	Assistant lecturer
5	Sarah Abd Elhamid Abd Elkader Ibrahim Mosa	Assistant lecturer
6	Yomna Ahmed Fuad Hagag Awd	Assistant lecturer (Husband escort)
7	Michael Mohsen Kamel Girgis	Assistant lecturer (Foreign mission)
8	Mohamed Elhossen Ragab Ahmed Eladawy	Assistant lecturer (Foreign mission)
9	Zeinab Mahmoud Anwer Mohamed Helal	Assistant lecturer
10	Dalia Mohamed Abu Khalil Sheta	Demonstrator (Grant)
11	Wesam Ahmed Ibrahiem	Demonstrator
12	Omnia Tawfeek Metwally Bahgat	Demonstrator
13	Mai Adel Abdelaziz Amin	Demonstrator
14	Ahmed Rezk Ragab Shalaby	Demonstrator
15	Eman Shaaban Ibrahim Ramadan	Demonstrator
16	Samaa Sameh Mohammed Bakr	Demonstrator
17	Mohamed Maher Mahmoud Elserwy	Demonstrator



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5- Statistics of staff members and teaching assistants

		Working	Vacation	Total
Professor	Emeritus	1	1	2
	Working	7	2	9
Associate Professor	Emeritus	-	-	-
	Working	4	1	5
Lecturer	lecturer	2	5	7
Total staff members		14	9	23
Teaching assistants	Assistant lecturer	6	3	9
	Demonstrator	7	1	8
Total supporting staff		13	4	17
Total (staff members+ teaching assistants)		27	13	40



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Tree of staff members and teaching assistants in Microbiology and Immunology department

أساتذة متفرغون




إد/ رمضان حسن إبراهيم إد/ وائل عباس التاجر

أساتذة











إد/ السيد الشربيشي حبيب إد/ خالد حسن عبد الجليل إد/ محمد يوسف إبراهيم إد/ رشا قنصى بروه إد/ منى إبراهيم عوض إد/ هاني ابراهيم فتاوي إد/ محمد محمد السكري إد/ ايمان سلامة أحمد إد/ شيماة حسن محمد

أساتذة مساعدون








إد/ أريج مصطفى المهدي إد/ دينا عزة رزق إد/ محمد أسعد زكي إد/ هبة شحنة عبدالله إد/ هبة محمد عبدالعزیز إد/ عبد العزيز الجمل

أطباء








إد/ شادي كمال إد/ رحاب البرجيسي إد/ وليد مطاوع إد/ حنان شحانة إد/ ديسها لطفى إد/ إيشام ياسر

مدرسون مساعدون











إد/ رنا رضا إد/ مها ميروك إد/ الاء ابو التحسين إد/ دينا اشرف إد/ هاني حجاج إد/ ساره عبد الحميد إد/ مervat مصطفى إد/ محمد الحريري إد/ رانيا هانا

معيدون










ص/ داليا شها ص/ اوسام أحمد ص/ أمينة توفيق ص/ امي عادل ص/ أحمد زكي رجب ص/ إيمان شعبا إبراهيم ص/ سماء سامح محمد ص/ محمد ماهر محمود



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6- Department employees

A. Technicians

No.	Name	Notes
1	Hania Abdel Fattah	Pensioner
2	Saad Mahmoud Ibrahim	Pensioner
3	Abeer Mahmoud Hassanein	
4	Salah El Hawary	
5	Hanan El-Sayed Metwally	
6	Zainab Mohammed Al-Sharqawi	
7	Azmy Ibrahim Tawfik	Moved from the department
8	Ahmed Sabry	
9	Ali Shawqi Ali	Moved from the department
10	Ayman Shebl Mohamed Abdel Razek	



Some technicians in Microbiology and Immunology department



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B. Secretaries

No.	Name	Notes
1	Marwa Mujahid Abdel Wahab	
2	Najwa Ibrahim Ahmed	

C. Workers

No.	Name	Notes
1	Kariman Abdel Fattah	
2	Mohamed El Sayed	
3	Reda Ibrahim Al-Battah	
4	Khadija Lutfi Al-Sayed	
5	Riyad Muhammad Ali Siam	Day-laborer moved in August 2019
6	Sameh Ibrahim Mohamed Marawan	Day-laborer
7	Amal Mohamed Abdel Jalil	Day-laborer moved in November 2019
8	Amira Ahmed Youssef	Day-laborer moved in December 2019



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Workers of Microbiology and Immunology department

7- Statistics of the department's employees

	Vacation	Working	Total
Secretaries	-	2	2
Technicians	-	6	6
Workers	-	5	5
Total	-	13	13



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Education and student affairs:

A brief overview of the department showing the importance of studying the department's courses for pharmacy students

The department teaches undergraduate, clinical pharmacy and postgraduate courses that include the spread of basic knowledge in microbiology, microbial genetics, immunology, parasitology, biotechnology, microbial diseases and how to treat them. It also includes the spread of basic knowledge in advanced microbiology, molecular biology, industrial biotechnology, and control of sterile pharmaceutical products. It also includes conducting research on pathogenic bacteria, fungi and viruses, and producing important pharmaceutical products. At the level of postgraduate studies also, the department offers distinguished programs for obtaining diploma, master's and doctorate degrees in pharmaceutical sciences (microbiology and immunology), in addition to advanced research programs aimed at preparing students to contribute to the application of the correct scientific methodology.

List of the courses taught and supervised by Microbiology and Immunology department

First: General program

No.	Course	Code	Level
Credit hour bylaw			
1	Microbiology		Two (2011 bylaw)
2	Parasitology and Pathology		Four (2011 bylaw)
3	Public health		Four (2011 bylaw)
4	Parasitology	PM322	Three
5	Pharmaceutical Microbiology	PM 321	Three
6	Medical microbiology and immunology	PM 413	Four
7	Pathology	PM 514	Five



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8	Public health	PM 525	Five
9	Pharmaceutical biotechnology	PM 526	Five
10	Advanced immunology	PME 07	Elective course (Four and Five)
Pharm D bylaw			
11	General microbiology and immunology	PM 221	Two
12	Pharmaceutical Microbiology	PM 323	Three
13	Parasitology and Virology	PM 312	Three
14	Pharmaceutical biotechnology	PM 414	Four
15	Medical microbiology	PM 515	Five
16	Pathology	MD 512	Five
17	Public health	PM 526	Five
18	Microbiological control of pharmaceutical products	PME 012	Elective course (Four and Five)
19	Infection control and antimicrobial Stewardship	PME 011	Elective course (Four and Five)



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Second: Clinical Pharmacy program

No.	Course	Code	Level
Modified and Unified bylaw			
1	General microbiology and immunology	PM 401	Two
2	Parasitology	MD 406	Two
3	Clinical microbiology	PM 502	Three
4	Pathology	MD 608	Three
5	Pharmaceutical Microbiology	PM 704	Four
6	Pharmaceutical biotechnology	PM 703	Four
7	Public health	MD 710	Four
8	Biological Standardization	PM E5	Elective course (Four and Five)
9	Antimicrobial Agent	PM E6	Elective course (Four and Five)
Pharm D bylaw			
10	General microbiology and immunology	PM 401	Two
11	Pathology	MD 404	Two
12	Parasitology and Virology	PM 503	Three
13	Pharmaceutical Microbiology and Antimicrobials	PM 502	Three
14	Public health and Preventive Medicine	PM 805	Four
15	Medical microbiology	PM 704	Four
16	Biotechnology	PM 906	Five
17	Bioinformatics	PM E13	Elective course (Four and Five)
18	Infection control and antimicrobial Stewardship	PM E12	Elective course (Four and Five)



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Scientific content of the courses of the credit hour bylaw

PM 321 Pharmaceutical Microbiology

Classification & Morphology of Microorganisms, Bacterial growth & cell death, General virology, General Mycology, Physical & chemical methods of sterilization & sterility test, Disinfection & preservation, Evaluation of Disinfectant & antimicrobial Agents,

PM 322 Parasitology

Classical and modern parasitology concentrating on protozoan and worm parasites of major medical/veterinary importance. Topics include basic principles of parasitology, life cycles, epidemiology, host-parasite interactions, drug treatments and vector control programs.

PM 413 Medical Microbiology and Immunology

Three major topics "bacteriology, mycology and virology". The important microorganism causing disease. Morphology and characters, virulence factors "surface antigen, toxins and enzymes", pathogenesis, the disease caused by infectious micro-organism, clinical and laboratory diagnosis, prophylaxis, epidemiology, vaccination and treatment. Molecular and cellular immunology, including antigen and antibody structure, function and reaction between them, effector mechanisms, complement, and cell mediated immunity. Autoimmunity, and vaccination.

PM 526 Pathology

The study of biochemical, structural and functional changes in cells, tissues and organs, which are caused by diseases.

PM 525 Public Health

Introduction to individual and population health by exploring health as an evolving and multidimensional concept. Historical and theoretical perspectives will be explored with a focus on chronic disease prevention, injury prevention, health promotion, and health.

PM 514 Pharmaceutical Biotechnology

Molecular basis of Bacterial genetics The traditional and molecular methods strategically applied to problems related to microbial biotechnology and environmental microbiology. Industrial uses of microorganisms and efforts to genetically modify microorganisms for specific purposes. Topics include: history and development, microbial products, microbial biomass as a protein source, bioremediation, N₂ fixation, detection and monitoring of genetically engineered microorganisms, sequence and phylogenetic analysis followed by probe design, and other modern techniques of environmental microbiology.



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PME 07 Advanced Immunology

A recent study topic in congenital and acquired, both- humoral and cellular immunity. Methods of communication between the cells and function of Cytokines in it. Theories of Development and differentiation of B and T lymphocytes. The study of the molecular and genetic level of the immune system in addition to immune control mechanisms. Immunodeficient and examples on selected autoimmune diseases and their causes. The use of modern methods in the diagnosis of infectious diseases and immune diseases. Definition of animals used for experiments to study the human immune diseases.

Scientific content of the courses of Pharm D bylaw

PM 221 General Microbiology and Immunology (الميكروبيولوجيا العامة والمناعة)

The course provides students with a combination of laboratory and theoretical experience exploring the general aspects of microbiology. It includes knowledge of microorganisms, their morphology, diversity, cell structure and function, cultural characteristics, identification of microorganisms, microbial nutrition. It also explores the basic concepts microbial growth, cultivation and reproduction. It also clarifies different mechanisms of transport across bacterial cell membrane. The course also covers the principles of genetic characters including DNA and RNA structures, replication, different forms of mutation and mutagenic agents. Moreover, it introduces the modern concepts of medical immunology, with an emphasis on host parasite relationship, Non-specific and specific immunity, Mechanism of protective immunity. Molecular and cellular immunology, including antigen and antibody structure, function and reaction between them, effect or mechanisms, complement, and cell mediated immunity and in vitro antigen antibody reactions

PM 312 Parasitology and Virology (الطفيليات والفيروسات)

Part of this course will focus on parasitic infections of humans with knowledge concerning biological, epidemiological and ecological aspects of parasites causing diseases to humans with special attention to different parasitological related diseases in Egypt causing serious health problems. This part of the course will discuss medical helminthology, protozoology and entomology concerning their morphological features, life cycle, pathogenesis, clinical manifestations, different diagnostic techniques, the most recent lines of treatment and prevention with control strategy for each parasitic infection. Moreover, it also cover laboratory diagnosis of human parasitic infections. The other part of the course provides students with the essential knowledge to recognize the epidemiology, mechanisms of pathogenesis, clinical picture, methods of laboratory



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diagnosis, treatment, prevention and control measures of RNA and DNA viral infections in humans.

PM 323 Pharmaceutical Microbiology (الميكروبيولوجيا الصيدلانية)

This course describes in detail the physical and chemical methods of bacterial eradication and how to effectively control microbial growth in the field of pharmaceutical industry / hospitals. It further describes the means of preservation of pharmaceutical products, as well as cosmetics. Sterilization, sterilization indicators, sterility testing and aseptic area. Validation of sterilization process. Moreover, it explains the different groups of antimicrobials, their mechanism of action and resistance of microbes to biocides. Microbiological evaluation of antiseptics, disinfectants and preservatives. Antibiotics, classification and mechanism of action including the new categories and new approaches to overcome bacterial resistance & antibiotics clinical abuse. Antiviral and antifungal agents. Assay of antimicrobial activity

PM 414 Biotechnology (التقنية الحيوية)

Introduction to biotechnology, fermentation technology, fermentation process and fermenters, Fermented products (Antibiotics, vitamins, amino acids, interferons, interleukins, monoclonal antibodies, vaccines and etc.... Bioremediation, N₂ fixation, detection and monitoring of genetically engineered microorganisms. Genetic Engineering, PCR, Recombinant DNA Technology and Applications of recombinant DNA in the pharmaceutical and medical fields. Basics of Gene therapy and its applications in monogenic and polygenic disorders. Other modern techniques of environmental microbiology.

PM 515 Medical Microbiology (الميكروبيولوجيا الطبية)

The course aims at studying microorganisms causing infectious disease in human beings. The infectious diseases, their etiology, pathogenesis and clinical manifestation, routes of transmission, treatment and techniques in detection and identification of pathogenic bacteria and fungi of major significance to public health will be studied. The course also focusses on immunological diseases and disorders in immunity including hypersensitivity, immuno-deficiency disorders, autoimmunity and auto-immune diseases and organ transplantation.

MD 512 Pathology (علم الامراض)

The main aim of Pathology course is to provide students with knowledge and skills for common diseases affecting body organs and system. It helps the student to understand the causes (etiology) of disease, the mechanisms of its development (pathogenesis) and the associated alterations of structure (morphologic changes) and function (clinical manifestations and complications) to be able to determine the most likely diagnosis of the disease.



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PM 526 Public Health (الصحة العامة)

This course aims at understanding all scientific disciplines required for health education and promotion directed to the community health. How epidemiology acts as the bases of public health actions will be taught. Detailed scientific information and practices programs will be provided for nosocomial infections, control of communicable, non-communicable diseases including active and passive immunization, improving mental, social, environmental, occupational, geriatric and family health, use of sufficient and balanced food and nutrition, supplying safe drinking water, treating and disposing wastes and proper intervention during disasters

PME 011 Infection control and antimicrobial stewardship (مكافحة العدوى و الإشراف على مضادات الميكروبات)

The course includes infection prevention and control practices, the chain of infection, standard and transmission-based precautions, barriers and use of personal protective equipment, strategies for preventing the spread of infectious disease to healthcare workers and patients and disposal of biohazard waste. The course also addresses the improvement of antimicrobial agents prescription in the clinical practice through the application of stewardship programs in medical institutions. The course focuses on all elements and considerations required for the establishment and implementation of a successful antimicrobial policy.

PME 012 Microbiological control of pharmaceutical products (الرقابة الميكروبيولوجية علي (المستحضرات الصيدلانية)

The course includes methods for quantitative estimation of the biological activity of antimicrobial agents and vaccines according to pharmacopeias. The microbial estimation of non-sterile pharmaceutical products according to USP. Determination of endotoxin limit in sterile pharmaceutical products by LAL test according to USP. Assay of antiviral agents.



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Photos of practical lessons for undergraduate and clinical pharmacy students in Microbiology and Immunology department





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Third: Postgraduate Studies, Cultural Relations and Research Affairs:

Post graduate programs (Diploma, Master, PhD, Pharm D and Professional Master)

Diploma

No.	Course	Code
Microbiology Diploma		
1	General Bacteriology	PMD-101
2	General Mycology & Virology	PMD-102
3	Antimicrobial agents	PMD-103
4	General Immunology	PMD-104
5	Biotechnology	PMD-105
6	Diagnostic Microbiology	PMD-106
7	Microbiological Quality control & Quality assurance Course	PMD-107
8	Environmental Microbiology	PMD-108
9	Advanced Microbiological Techniques	PMD-109
Quality Control and Drug Analysis Diploma		
10	Microbiological Quality control	PAD-104
Cosmetic products Diploma		
11	Microbial Quality control and Quality Assurance of cosmetics	PTD -B106
Clinical Pharmacy Diploma		
12	Antimicrobial and Immuno therapy	PPD-109
13	Clinical laboratory tests	PPD-110

Master

No.	Course	Code
1	Advanced Microbiology	PM-201
2	Medical Immunology	PMD-202
3	Antimicrobial chemotherapy	PMM-203
4	Infectious diseases	PMD-204



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5	Industrial Microbiology and Biotechnology	PMM-205
6	Bioinformatics	GCM-204

PhD

No.	Course	Code
1	Advanced Biotechnology I	PMP -301
2	Advanced Immunology and Immunopathology	PMP-302
3	Clinical Microbiology	PMP-303
4	Environmental Microbiology	PMP 304
5	Advanced Biotechnology II	PMP-305

Pharm D Program

No.	Course	Code
1	Treatment of Infectious diseases and immunological disorders	PP-PDP 203
2	Bioinformatics	PP-PDP 207
3	Clinical laboratory investigation	PP-PDP-213

Professional Master in Immunology and Regenerative medicine

No.	Course	Code
1	Basic Immunology	IMR111
2	Lab safety	IMR 116
3	Advanced Immunology	IMR121
4	Bioinformatics	IMR 126

• **IMR111: Basic Immunology:**

This course helps the student to know all the components of the immune system and their functions, understand the interrelationship between these elements and be able to analyze their role both in normal and imbalanced immune response.



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- **IMR 116: Lab safety**

This module deals with safety guidelines and procedures for working with biohazardous materials, recombinant DNA molecules and Blood borne Pathogens. Content will also include lab policies, responsibilities and requirements for research involving the use of biological materials. This module helps to safe lab practices to minimize the risk of spills and chemical or biological exposures.

Laboratories involve many chemicals, procedures, and operations that require specific safety precautions.

- **IMR121: Advanced Immunology:**

Advanced immunology is a course in which fundamental immunology concepts are both reinforced and extended through the study of human diseases of the immune system. The role of the immune system in human health and disease is described in detail, with examples showing how the immune dysfunction leads to chronic inflammatory diseases such as rheumatoid arthritis (autoimmune diseases) and asthma (hypersensitivity), cancer immunology, immunogenetics and immune deficiency. Throughout the course students will also learn about Applied Immunology, with focusing on transplantation immunology, vaccine technology and immunotherapeutics. Problem-based learning exercises will be used to demonstrate these topics. Analyze the medical literature reporting immunologic advances pertinent to their patients, cite the rationale for use of new immunodiagnostic and immunotherapeutic modalities in their patients, and to serve as thought leaders within their medical community.

- **IMR 126: Bioinformatics**

Bioinformatics is an integration of mathematical, statistical and computational methods to analyze biological, biochemical and biophysical data. It deals with methods of storing, retrieving and analyzing biological data, such as nucleic acid and protein sequences, structures, functions, pathways and genetic interactions. Bioinformatics include the use of computer in solving information problems in life sciences; mainly it involves the creation of extensive electronic database on genomes and protein sequences. Secondarily it involves techniques such as the three-dimensional modeling of bimolecular and biological systems.



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Professional Master in Quality Control and Drug Analysis

No.	Course	Code
1	Microbial quality control	QC 114
2	Vaccines, sera and biomolecules	QC 122
3	Antimicrobial agents	QC 128

- **QC 114: Microbial quality control:**

This course will cover recent techniques used in sterilization of pharmaceutical preparations, surgical tools, instruments, and dressing in addition to sterility assurance levels required for pharmaceuticals. Validation of the sterilization process, limits and tests for detection microbial contamination will be also included.

- **QC 122: Vaccines, sera and biomolecules:**

This course will cover recent techniques used for evaluation of vaccine and antisera used in medicine, in addition to production and preparation of modern biological molecules produced by biotechnology including recombinant proteins, monoclonal antibodies, aptamers ect.....

- **QC 128: Antimicrobial agents:**

This course will cover general classification and characteristics of antimicrobial chemotherapeutic agents including antibiotics, antifungal, antiviral, disinfectants and preservatives. It will also cover resistance to antimicrobial agents, selective toxicity of antimicrobial agents, and evaluation of antimicrobial agents, antimicrobial combination and their evaluation.

- **The department's research plan includes the following titles:**

1. Studying the virulence factors of some microbes isolated from hospitals and foodstuffs, and how to reduce their danger.
2. Molecular microbiology.
3. Microbiological studies on fungal infection
4. Production of some important enzymes using biotechnology



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5. Comparison between microbes isolated from different clinical and environmental sources
6. Immunity and how microbes escape from the immune system
7. Studying the effect of drugs used in treatment and the causes of antimicrobial resistance and how to increase their therapeutic effectiveness.

Research groups in the department

M	Research group	Members
1	Study of the virulence factors of some microbes isolated from hospitals and food and how to reduce their severity	Dr. Rasha Barwa Dr. Mona Shabaan Dr. Mohamed M. Adel El- Sockary Dr. Abeer abdelaziz Dina Ashraf Mohamed El-Adawy
2	Molecular microbiology	Dr. Ramadan Hassan Dr. Rasha Barwa Dr. Mohamed Youssif Ali Dr. Mona Shabaan Dr. Mohamed M. Adel El- Sockary Dr. Abdelaziz El-gamal Dr. Mohamed Asad Dr. Soha Lotfy Elshaer
3	Study the effects of drugs used in treatment, microbial resistance and how to increase their effectiveness	Dr. Ramadan Hassan Dr. Rasha Barwa Dr. Mona Shabaan Dr. Eman Salama Dr. Dina Eid Alaa M. Aboelenin
4	Comparison of microbes isolated from different clinical and environmental sources	Dr. Ramadan Hassan Dr. Rasha Barwa Dr. Soha Lotfy Elshaer Omnia tawfeek
5	Immunology and how the microbes escape from the immune system	Dr. Ramadan Hassan Dr. Rasha Barwa Dr. Mohamed Youssif Ali



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		Dr. Hani Kenawy Dr. Abeer abdelaziz Dr. Dina Eid Dr. Abdelaziz El-gamal Enas Yasser Mohammed Maha Mabrouk Yomna Hagag Michael Mohsen
6	The production of important enzymes in Biotechnology	Dr. Ramadan Hassan Dr. Hani Kenawy Dr. Eman Salama Dr. Mohamed M. Adel El- Sokkary Dr. Mohamed Asad Sarah A. Abd Elkader

Scientific devices in the department

M	Device name	Number	Use
1	Water bath	10	Scientific research in the department and the use of students
2	Circulatory water bath	1	Scientific research in the department and the use of students
3	Hot air oven	5	Scientific research in the department and the use of students
4	Digital Electric balance	5	Scientific research in the department and the use of students
5	Automatic Pipettes	32	Scientific research in the department
6	Laminar flow hood	4	Scientific research in the department
7	Centrifuge	1	Scientific research in the department
8	Spectrophotometer	1	Scientific research in the department
9	Cooling centrifuge	2	Scientific research in the department
10	Thermocycler	1	Scientific research in the department



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11	Real time PCR machine	1	Scientific research in the department
12	Microscope with oil immersion lens	50	Use of students and scientific research in the department
13	Incubator with shaker	2	Scientific research in the department
14	Incubator	4	Scientific research in the department
15	Rotary shaker	1	Scientific research in the department
16	Power supply	2	Scientific research in the department
17	PH meter	2	Scientific research in the department
18	DNA gel electrophoresis apparatus & Gel documentation system	2	Scientific research in the department
19	SDS-protein PAGE equipment	1	Scientific research in the department
20	4 digit balance	1	Scientific research in the department
21	Fermenter equipment	1	Scientific research in the department
22	Autoclave	3	Scientific research in the department
23	Vortex	2	Scientific research in the department
24	ELISA reader	1	Scientific research in the department
25	Gradient PCR	1	Scientific research in the department
26	Microarray unit	1	Scientific research in the department
27	Western blot machine	1	Scientific research in the department
28	Magnetic stirrer Hot plate	2	Scientific research in the department and the use of students
29	Hot plate	2	Scientific research in the department and the use of students
30	Water distillation system	1	Scientific research in the department
31	Colorimeter	1	Scientific research in the department



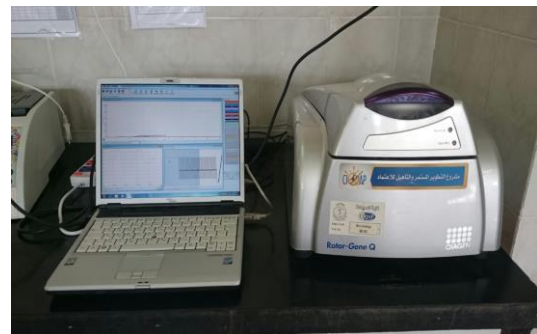
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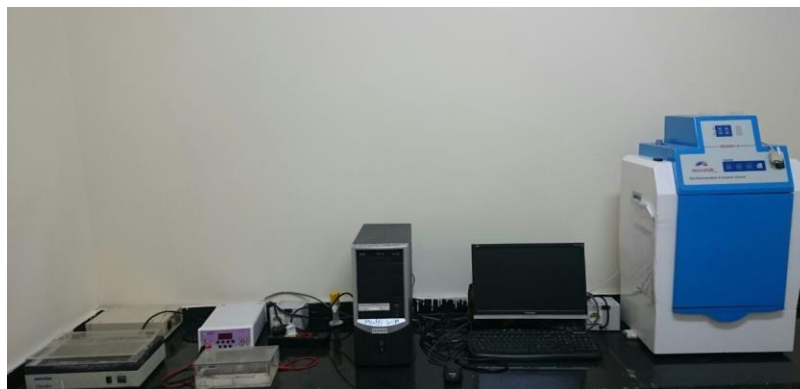
Photos of some research devices in Microbiology and Immunology department



Gradient PCR Machine



Real time-PCR Machine



DNA gel electrophoresis apparatus & Gel documentation system



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ELIZA reader



Microarray System



Water distillation system



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Colorimeter



Autoclave



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Thesis supervision

The department supervises a number of internal- and external-registered master's and PhD students, explaining their instructions as follow

A- Master's students

M	Student name	Thesis title	Supervisors	Registration date	Notes
1	Omaima Mohammed Al-Sharbini Atta Allah Ibrahim	The diversity of beta-lactam resistance in clinical isolation from staphylococcus	<ul style="list-style-type: none"> • Prof.Dr Eman salama ahmed abdelmagid • Prof.Dr. Hani Ibrahim Kenawy 	4/6/2013	External
2	Heba Alsaeed Abu Al-Farah Mohammed Hassan	The effect of the integration of certain medications and antibiotics on the Pseudomonas aeruginosa isolated from pulmonary infection	<ul style="list-style-type: none"> • Prof. Dr. EL Sayed EL Shirbiny Mohamed Habib • Prof.Dr. Mohamed Adel El-Sokkary 	08/10/2014	External
3	Samar Magdy Al-, Sayed Ahmed El-, Sherbini	Molecular characterization and assessment of the sensitivity of isolated intestinal bacteria from different food sources of antimicrobials	<ul style="list-style-type: none"> • Prof.Dr Rasha Mohamed Fathy Barwa • Prof. Dr. Maha Abdo Mohammed Abdo Al-Ashmawy Dr. Dina Eid El-Sayed Rizk 	30/8/2017	External
4	Nourhan Hussein Ibrahim Ismail Al-Sabbagh	Molecular studies on the prevalence of quinolone-resistant genes among gram-negative bacteria	<ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Dr. Abeer Mohamed Abd El-Aziz 	30/8/2017	External
5	Ayah Ayman Mahfouz	Studies on macrolide resistance - Lincusamide - Streptogramin (MLS) in clinical isolations	<ul style="list-style-type: none"> • Prof.Dr Mona Ibrahim Awad Shabaan • Dr. Heba Shehta Said 	June 2018 Section Board	External



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		of Staphylococcus aureus			
6	Omnia Tawfeek Metwally Bahgat	Studies on the relationship between infection with different offspring patterns of Escherichia coli and kidney injuries	<ul style="list-style-type: none"> • Prof.Dr Rasha Mohamed Fathy Barwa • Dr.Dina Eid El-Sayed Rizk 	01/01/2019	Internal
7	Wessam Ahmed Mohamed Ibrahim	Study comparing clinical insulation of methicillin-resistant staphylococcus aureus and ant methicillin -sensitive	<ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Prof.Dr. Hani Ibrahim Kenawy • Dr. Mohammed Asaad El-Mowafy 	10/06/2019	Internal
8	Mai Adel Abd El-Aziz Amin	Characterization of large antibiotic-resistant Pseudomonas aeruginosa isolated from hospitals	<ul style="list-style-type: none"> • Prof.Dr Rasha Mohamed Fathy Barwa • Prof.Dr. Mohamed Adel El-Sokkary • Dr. Abeer Mohamed Abd El-Aziz 	7/11/2019	Internal
9	Magi Hamid Abd El , Majid	Studies to produce microbial enzymes to treat respiratory diseases	<ul style="list-style-type: none"> • Prof.Dr. Mohamed Adel El-Sokkary • Dr. Heba Shehta Said 	2020/2/10	External
10	Leqaa Lotfy Ali Ali Badawy	Strategies to overcome microbial resistance and virulent factors in gram-resistant clinical isolations of the last sanctuary of antimicrobials	<ul style="list-style-type: none"> • Prof.Dr Mona Ibrahim Awad Shabaan • Dr. Soha Lotfy Eldamarawy Elshaer 	10/5/2020	External
11	Mai Ahmed Ibrahim Awad	Targeting microbial resistance and ferocity factors in staphylococcus resistant to the last sanctuary of	<ul style="list-style-type: none"> • Prof.Dr Mona Ibrahim Awad Shabaan • Dr. Abeer Mohamed Abd El-Aziz 	June 2020 Council	External



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		antimicrobials			
12	Mai Abd EL-azim Mahmoud	Molecular studies on Cresper Kaz systems in Pseudomonas aeruginosa	<ul style="list-style-type: none"> • Prof.Dr Rasha Mohamed Fathy Barwa • Dr. Mohammed Asaad El-Mowafy 	June 2020 Council	External
13	Salma Ahmed Saad	Study on the effect of certain inhibitors on virulent factors in multi-resistant polyseptococcus clinically isolated drugs	<ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Dr. Soha Lotfy Eldamarawy Elshaer 	19/1/2022	External

B- PhD students

M	Student name	Address of the message	Supervisors	Registration date	Observations
1	Fatma Wael Abbas Al , Najjar	Comparative studies of disease islands of staphylococcus aureus isolated from different clinical sources	<ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Prof.Dr. Hani Ibrahim Kenawy • Dr. Soha Lotfy Eldamarawy Elshaer 	26/03/2015	External
2	Maha Ahmed Mr. Mabrouk	The role of collictin 11 in natural immunity and its association with microbial infection	<ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Dr. Mohammed Yossif Ibrahim Ali • Dr. Abeer Mohamed Abd El-Aziz 	05/07/2017	Assistant lecturer
3	Heba Abdul Saboor Mohammed Showman	Assessment of biological activity of some microbial products	<ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Prof.Dr. Hani Ibrahim Kenawy 	29/5/2017	External



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			<ul style="list-style-type: none"> • Dr. Heba Shehta Said 		
4	Rana Mohammad Reda Abdul Aziz Al-Baz Mohammed	Molecular characterization of different resistance groups in clinical Escherichia coli isolations	<ul style="list-style-type: none"> • Prof.Dr Rasha Mohamed Fathy Barwa • Prof.Dr Eman salama ahmed abdelmagid • Dr. Heba Shehta Said 	17/12/2017	Assistant lecturer
5	Mohammed Ramadan Hassan Ibrahim	Comparative studies between clinical isolations of hyperly severe and stereotypical pneumococcal kalpicella	<ul style="list-style-type: none"> • Prof.Dr Rasha Mohamed Fathy Barwa • Prof.Dr Eman salama ahmed abdelmagid • Dr. Mohammed Asaad El-Mowafy 	19/06/2018	External
6	Alaa Mohamed Mahmoud Aboelenin	Evaluation of therapeutic systems in multi-antibiotic-resistant clinical Acinetobacter baumannii solations	<ul style="list-style-type: none"> • Prof.Dr Rasha Mohamed Fathy Barwa • Prof.Dr Mona Ibrahim Awad Shabaan • Dr. Mohammed Asaad El-Mowafy 	10\12\2018	Assistant lecturer
7	Dina Ashraf Ramadan Ahmed El- Sayed	Applications of bacteriophage as a modern treatment method against many antibiotic-resistant bacteria	<ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Prof.Dr Mona Ibrahim Awad Shabaan • Dr. Abeer Mohamed Abd El-Aziz 	10/12/2018	Assistant lecturer
8	Sarah Abd Elhamid Abd Elkader Ibrahim Mosa	Studies on microbial production and evaluation of glutaminase as an anti-cancer	<ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Prof.Dr. Mohamed Adel El-Sokkary • Dr. Heba Shehta 	30/12/2018	Assistant lecturer



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9	Yomna Ahmed Fuad Hagag Awd	Study on the use of different biological factors to protect against Acinetobacter baumannii infection	<p>Said</p> <ul style="list-style-type: none"> • Prof.Dr Ramadan Hassan Ibraheim Hassan • Prof.Dr. Hani Ibrahim Kenawy • Dr. Heba Shehta Said 	30/12/2018	Assistant lecturer
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Thesis granted by the department

M	Student name	MSc or PhD	Thesis title	Supervisors	Date	Notes
1	Areej Mostafa El- Mahdy	MSc	Studies on the production of antimicrobial agents by actinomycetes isolated from Egyptian soil	<ul style="list-style-type: none"> • Prof. Mohamed Adel El-Sokkary • Prof. Wael El-Naggar • Dr El-Sayed El-Sherbini Habib 	2008	Internal
2	Eman Salama Abdelmegeed	MSc	Study on the antimicrobial effect of antazoline hydrochloride ex vivo and in vivo in ophthalmic preparations and contact lens solutions.	<ul style="list-style-type: none"> • Prof. Mohamed Adel El-Sokkary • Dr Samy Khair Allah 	2005	Internal
3	Hanan Reda Hassan	MSc	A comparative study on bacterial resistance and some virulence factors in each of Escherichia coli and Streptococcus	<ul style="list-style-type: none"> • Dr Ramadan Hassan • Dr Rasha Barwa 	2009	Internal
4	Dina Eid Rizk	MSc	Studies on potential inhibitors of antibiotic-inhibiting bacterial enzymes	<ul style="list-style-type: none"> • Prof. Mohamed Adel El-Sokkary • Prof Wael Abbas El-Naggar • Dr El-Sayed El- 	2008	Internal



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				Sherbini Habib		
5	Rehab El-Bargisy	MSc	P20 The effect of biofilm formation on the efficacy of different antimicrobials against bacterial clinical isolates	<ul style="list-style-type: none"> • Prof Samy Kheira Prof Wael Abbas El-Naggar • Dr El-Sayed El-Sherbini Habib 	2008	Internal
6	Shaymaa Hassan Mohamed	MSc	Studies on some exogenous and endogenous enzymes produced by different species of Pseudomonas	<ul style="list-style-type: none"> • Prof. Mohamed Adel El-Sokkary • Dr El-Sayed El-Sherbini Habib 	2007	Internal
7	Abdelaziz Elgaml	MSc	Molecular diagnosis of Gram negative bacteria in urinary tract infections	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Dr Ramadan Hassan • Dr Rasha Barwa 	2010	Internal
8	Abeer Mohamed Abd El-Aziz	MSc	Ex vivo studies on combinations of beta-lactams and beta-lactamase inhibitors on clinically isolated resistant bacterial strains	<ul style="list-style-type: none"> • Prof Samy Khair • Allah • Prof Wael Abbas El-Naggar 	2007	Internal
9	Fatma Wael El-Naggar	MSc	Studies on strains of Pseudomonas ariginosa producing mineral beta-lactamase isolated from different clinical sources	<ul style="list-style-type: none"> • Dr Ramadan Hassan • Dr El-Sayed El-Sherbini Habib • Dr Rasha Barwa 	2010	Internal
10	Mohamed Asaad El-Mowafy	MSc	Studies on some factors affecting the production of hygromycin A produced by Streptomyces hygrosopic strain	<ul style="list-style-type: none"> • Prof. Mohamed Adel El-Sokkary • Prof Samy Khair Allah • Dr El-Sayed El-Sherbini Habib 	2007	Internal
11	Mohamed Mohamed	MSc	The effect of some natural and chemical factors on the	<ul style="list-style-type: none"> • Prof Samy Khair Allah 	2002	Internal



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	Adel El-Sokkary		production of gynamycin by <i>Micromonospora purpurea</i>			
12	Mohammed Youssef Ali	MSc	Studies on antibodies to some microbial enzymes	<ul style="list-style-type: none"> • Prof. Mohamed Adel El-Sokkary Prof Samy Khair Allah 	2004	Internal
13	Mona Ibrahim Awad Shaaban	MSc	A comparative study on the activities of some endotoxins produced by Gram-negative bacilli in the presence of some antibiotics	<ul style="list-style-type: none"> • Prof Samy Khair Allah 	2002	Internal
14	Rasha Mohamed Fathy Barwa	MSc	Multidrug resistance in Gram-negative bacteria isolated from clinical sources	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Prof Samy Khair Allah 	2001	Internal
15	Nehal Ahmed Talaat	MSc	Genetic and phenotypic diversification of methicillin-resistant <i>Staphylococcus aureus</i> isolates from different clinical sources from Mansoura University Hospitals	<ul style="list-style-type: none"> • Dr Ramadan Hassan • Dr El-Sayed El-Sherbini Habib • Dr Rasha Barwa 	2010	Internal
16	Hany Ibrahim El-Kenawy	MSc	Studies on some enzymes produced from streptococcus group (A)	<ul style="list-style-type: none"> • Prof. Mohamed Adel El-Sokkary Prof Samy Kheira 	2005	Internal
17	Heba Shehta Abdallah	MSc	Diversification of <i>Klebsiella pneumonia</i> isolated from clinical sources	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Dr Khaled Abd El Galil 	2009	Internal
18	Walid Abd El-Fattah El-Sayed	MSc	Studies on extracellular antimicrobial infusion in	<ul style="list-style-type: none"> • Prof Samy Kheira Allah • Dr El-Sayed El- 	2007	Internal



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	Mottawea		clinically isolated Gram-negative bacilli	Sherbini Habib • Dr Wael Abbas El-Naggar		
19	Eman Salama Abdelmegeed	PhD	A Comparative study on gram-negative bacterial infections in Mansoura University Hospitals, Egypt	• Prof Wael Abbas El-Naggar • Dr Ramadan Hassan • Dr El-Sayed El-Sherbini Habib • Dr Shady Kamal George	2009	Internal
20	Rasha Mohamed Fathy Barwa	PhD	Studies on extended-spectrum beta-lactamases obtained clinically from Staphylococcus aureus and some Gram-negative bacilli	• Prof. Mohamed Adel El-Sokkary • Dr Wael Abbas El-Naggar • Prof Samy Kheir Allah	2007	Internal
21	Shady Kamal George ShokrAllah	PhD	Microbiological studies on highly resistant bacterial strains isolated from clinical sources	• Prof. Mohamed Adel El-Sokkary • Dr Wael Abbas El-Naggar • Prof Samy Kheir Allah • Dr Mostafa Ronagy	2007	Internal
22	Mona Ibrahim Awad Shaaban	PhD	Studies on the production of penicillin and its biologically active metabolites by Aspergillus and Penicillium	• Prof Wael Abbas El-Naggar • Prof. Mohamed Adel El-Sokkary • Dr El-Sayed El-Sherbini Habib Prof Nancy Keller	2010	Internal
23	Soha Lotfy Elshaer	MSc	Quorum Sensing Mediating Bacterial Resistance and Virulence Factors in Clinical Isolates of <i>Pseudomonas</i>	• Prof Ramadan Hassan • Dr Rasha Barwa • Dr Mona Shaaban	2015	Internal



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			<i>aeruginosa.</i>			
24	Sarah Magdy Ibrahim	MSc	Studies on different types of microorganisms isolated from meat products in Egyptian market	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Rasha Barwa • Dr Shaymaa Hassan 	2015	Internal
25	Eman Mohamed Rabea	MSc	The relation between bacteriuria and HCV in patients with ileal neobladder	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Rasha Barwa • Dr Mohamed Mohamed Adel El-Sokkary 	2015	Internal
26	Lamiaa Adel Salama	MSc	Epidemiological studies on the incidence of <i>Klebsiella pneumoniae</i> isolated from Mansoura hospitals, Egypt	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Rasha Barwa Dr Mona Shaaban 		Internal
27	Enas Yasser Sultan	MSc	Studies on enterotoxin production by different strains of <i>Staphylococcus aureus</i> isolated from various sources	<ul style="list-style-type: none"> • Prof. Mohamed Adel El-Sokkary • Dr Rasha Barwa • Dr Shaymaa Hassan 	2016	Internal
28	Mahasen Mohamed Ahmed	MSc	Detection of some foodborne pathogens in the Egyptian food market by using polymerase chain reaction	<ul style="list-style-type: none"> • Dr Rasha Barwa • Dr Maha El-Ashmawy • Dr Mohamed Mohamed Adel El-Sokkary 	2016	External
29	Somaya Antar El-Sayed	MSc	Studies on Inhibition of cell to cell communication to control the infection of <i>Pseudomonas aeruginosa</i>	<ul style="list-style-type: none"> • Prof Khaled Abd El Galil • Dr Mona Shaaban 	2014	External
30	Zafer Hazeb Gaber	MSc	Studies on Enterotoxins of <i>Escherichia coli</i> strains isolated from various sources	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Eman Salama Abdelmegeed 	2014	External



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31	Wafaa Ez El-Arab Ahmad	MSc	The relation between bacteriuria and HCV in patients with ileal neobladder	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Hassan Abo El-Ainen • Dr Essam El-Sawy • Dr Mohamed Mohamed Adel El-Sokkary 	2014	External
32	Heba Adel Ramadan	MSc	Molecular study on clinical isolates of Pseudomonas aeruginosa isolated from different sources in Mansoura Hospitals	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Rasha Barwa 	2015	External
34	Abdel Halim Abed Abdel Hameed	MSc	Studies on Pantone Valentine lucocidin produced by isolated Staphylococcus aureus isolates from different clinical and environmental sources.	<ul style="list-style-type: none"> • Prof Mohamed Adel El-Sokkary • Prof Ramadan Hassan • Dr Shaymaa Hassan 	2016	External
35	Areej Mostafa El-Mahdy	PhD	Description of some clinically important virulence factors associated with enterobacteriaceae	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Dr Ramadan Hassan • Dr Essam El-Sawy 	2011	Internal
36	Eman Mohamed Ahmed	PhD	Microbiological and molecular study on medicinal strains of Pseudomonas ariginosa resistant to carbapenems	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Prof Ahmed Ahmed Abd El-Aziz • Prof Maysaa El-Sayed Zaki 	2011	Internal
37	Dina Eid Rizk	PhD	Phenotypic and genotypic characterization of some virulence factors in Pseudomonas aeruginosa	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Dr Mohamed Adel El-Sokkary • Dr Rasha Barwa 	2012	Internal



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			strains isolated from different clinical sources in Mansoura University Hospitals			
38	Rehab El-Bargisy	PhD	Comparative Studies on Staphylococcus aureus Isolates Associated with Infections in Diabetic and Non-diabetic Patients	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Prof Ramadan Hassan • Dr El-Sayed El-Sherbini Habib 	2012	Internal
39	Shymaa Hassan Abdel Rhman	PhD	Phenotypic and genotypic studies on antibacterial efflux pumps in Pseudomonas aeruginosa	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Prof Mohamed Adel El-Sokkary • Dr Rasha Barwa 	2011	Internal
40	Abeer Mohamed Abd El-Aziz	PhD	The role of some proteins and exotoxin A in protection against infection with Pseudomonas aeruginosa	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Dr Mohammed Youssef Ali 	2011	Internal
41	Abdel-Halem Abdel-Hamed	MSc	udies on leukocidins toxins and antimicrobial resistance in Staphylococcus aureus isolated from various clinical sources	<ul style="list-style-type: none"> • Prof Mohamed Adel El-Sokkary • Prof Ramadan Hassan • Dr Shaymaa Hassan 	2016	External
42	Rana Reda El-Baz	MSc	Virulence factors profile of Staphylococcus aureus isolated from different clinical sources	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Rasha Barwa • Dr Dina Eid Rizk 	2016	Internal
43	Maha Ahmed Mabrook	MSc	The role of some virulence factors of Staphylococcus aureus in inhibiting the	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Mohammed Youssef Ali 	2017	Internal



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			innate immune response	<ul style="list-style-type: none"> • Dr Abeer M. Abd El-Aziz 		
44	Mohamed Ramadan Hassan Ibrahim	MSc	Study of the presence and molecular characterization of carbapenem resistance genes in clinically isolated Gram-negative bacilli.	<ul style="list-style-type: none"> • Prof Khaled Abd El Galil • Dr Rasha Barwa • Dr Essam El-Sawy 	2017	External
45	Ahmed Mohamed El-Sandouby	MSc	Evaluation of LAL Test Interference in Some Egyptian Parenteral Drugs Alone and in Combinations	<ul style="list-style-type: none"> • Prof Wael Abbas El-Naggar • Prof Ramadan Hassan • Prof El-Sayed El-Sherbini Habib 	2017	External
46	Dina Ashraf Ramadan	MSc	Virulence characteristics of methicillin resistant Staphylococcus aureus isolated from different clinical sources	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Rasha Barwa • Dr Mohamed Mohamed Adel El-Sokkary 	2017	Internal
47	Alaa Mohamed Aboelenin	MSc	The effect of some permeabilizers on the action of some antimicrobial agents against clinical isolates of some Gram-negative bacteria	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Eman Salama Abdelmegeed 	2018	Internal
48	Nehal Ahmed Talaat	PhD	Molecular Identification and Virulence Factors Determination in Candida Species Isolated from Egyptian Patients	<ul style="list-style-type: none"> • Prof Ramdan Hassan • Prof Mohamed Adel • El-Sokkary • Dr Rasha Barwa • Dr Dina Eid Rizk 	2018	External
49	Soha Lorfy Elshaer	PhD	Comparative Study between Pathogenic and Environmental	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Prof Rasha Barwa 	2019	Internal



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				• Dr Shaymaa Hassan		
50	Heba Adel Ramadan	PhD	The use of neomolysin and its constituent parts in the protection against infection with pneumococcal streptococcus	• Prof Ramadan Hassan • Dr Mohammed Youssif Ali • Dr Abeer M. Abd El-Aziz	2019	External
51	Yomna Hagag	MSc	Impact of sarA Mutation on Immune System Evasion and Stress Response in Staphylococcus aureus	• Prof Ramadan Hassan • Prof Hany Kenawy • Dr Abdelaziz Elgaml	2018	Internal
52	Sarah Abd Elhamid Abdelkader	MSc	Cloning and expression of recombinant hyaluronidase enzyme from Staphylococcus aureus using Escherichia coli	• Prof Ramadan Hassan • Dr Eman Salama Abdelmegeed • Dr Mohamed Asaad El-Mowafy	2018	Internal
53	Eman Samy Zaher	MSc	Expression and purification of human IL-2 protein from Escherichia coli	• Prof Ramadan Hassan • Dr Mohamed Asaad El-Mowafy	2018	External
54	Abdelbaky Beshir	MSc	Prevalence and Mechanisms of Carbapenem Resistance Among Acinetobacter baumannii Clinical Isolates in Egypt	• Prof Ramadan Hassan • Dr Heba Shehta	2018	External
55	Reham Mohamed Reda	MSc	Molecular characterization of different bacteria isolated from various eye diseases	• Prof Ramadan Hassan • Dr Rasha Barwa • Dr Abeer M. Abd El-Aziz	2019	External
56	Mostafa Mohamed Ghorah	MSc	Corrigendum to "Association between Virulence Factors and Extended Spectrum Beta-	• Dr Rasha Barwa • Dr Areej Mostafa El-Mahdy	2019	External



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			Lactamase Producing Klebsiella pneumoniae Compared to Nonproducing Isolates”			
57	Michael Mohsen Girgis	MSc	Immunization with proline rich region of pneumococcal surface protein A has no role in protection against Streptococcus pneumoniae serotype 19F	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Mohammed Youssef Ali • Dr Abeer M. Abd El-Aziz 	2020	Internal
58	Eman Adel Younis	MSc	Impact of the global regulator sara on toxins production in staphylococcus aureus	<ul style="list-style-type: none"> • Prof Rasha Barwa • Dr Abdelaziz Elgaml 	2021	External
59	Mohamed Eladawy	MSc	Antimicrobial resistance and virulence characteristics in ERIC- PCR typed biofilm forming isolates of P. aeruginosa	<ul style="list-style-type: none"> • Prof Rasha Barwa • Dr Mohamed Mohamed Adel El-Sokkary • Dr Mohamed Asaad El-Mowafy 	2020	Internal
60	Aya Hassan Elasmer	MSc	Seroepidemiology, Antimicrobial Susceptibility and Virulence Characteristics of Clinical Klebsiella pneumoniae Isolates in Mansoura University Hospitals	<ul style="list-style-type: none"> • Dr Mohammed Youssef Ali • Dr Dina Eid Rizk 	2020	External
61	Zeinab Mahmod Anwar	MSc	Prevalence and characterization of Streptococcus pyogenes clinical isolates from	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Dina Eid Rizk 	2021	Internal



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			different hospitals and clinics in Mansoura			
62	Ahmed Osama Rifai	MSc	Possible antivirulent activity of some agents against clinical isolates of Pseudomonas aeruginosa	<ul style="list-style-type: none"> • Dr Hany Kenawy • Dr Abeer M. Abd El-Aziz 	2021	External
63	Eman Rabie Shehab El-Din	PhD	Inhibition of the Classical Pathway of Complement Activation Impairs Bacterial Clearance during Enterococcus faecalis Infection	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Mohammed Youssef Ali • Dr Abdelaziz Elgaml 	2021	External
64	Lamiaa Adel Abo El-Ez	PhD	Phenotypic and genotypic characterization of Extended Spectrum β -lactamases producing Proteus mirabilis isolates	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Prof Rasha Barwa • Dr Hazem Saleh 	2021	External
65	Enas Yasser Sultan	PhD	Production of inhibitors for the alternative pathway of complement	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Prof Hany Kenawy • Dr Dina Eid Rizk 	2021	Internal
66	Mahasen Ahmed Ebaya	PhD	Purification, Characterization, and Biocatalytic and Antibiofilm Activity of a Novel Dextranase from Talaromyces sp.	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Mohamed Mohamed Adel El-Sokkary • Dr Mohamed Asaad El-Mowafy 	2021	External
67	Sarah Magdy Khalifa	PhD	β -lactam resistance associated with β -lactamase production and porin alteration in clinical isolates of E. coli and K.	<ul style="list-style-type: none"> • Prof Ramadan Hassan • Dr Eman Salama Abdelmegeed • Dr Abeer M. Abd El-Aziz 	2021	External



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			pneumoniae			
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Images from students' MSc and PhD thesis defenses





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The published scientific researches in the local and international conferences and journals:

M	Research title	Authors	Publisher
.1	Prevalence of Toxins and Antimicrobial Resistance among <i>E. coli</i> Isolated from Meat.	Shaymaa H. Abdel-Rhman, Sara M. Khalifa, Khaled H. Abd El Galil, Rasha M. Barwa (2015)	Advances in Microbiology, 5:737-747, DOI: org/10.4236/aim.2015.511078.
.2	Studies on Enterotoxins and Antimicrobial Resistance in <i>Staphylococcus aureus</i> Isolated from Various Sources	<u>Enas Yasser</u> <u>Shaymaa Hassan Mohammed</u> <u>, Rasha Barwa, Abdel-Rhman</u> <u>Mohammed Adel El-Sokkary</u> (2016)	Advances in Microbiology, 6(04), 263-275. doi: 10.4236/aim.2016.64026 .
.3	Role of OAS-1 and MxA Gene Polymorphisms in Susceptibility and Treatment of HCV Patients.	Dalia M. El BelgihyHosamZaghloul, Khaled H. Abd El Galil, Mahmoud El Bendary (2015)	International Journal of Advanced Research, 3(6): 1251-1266.
.4	PEG-fluorescein-GOx hydrogel for glucose biosensing	SrilayaMopidevi, Jun Chen, Xiaoyu Ma, Khaled Hussein Abd El Galil, Yu Lei, (2015):	ScienceJet, 4: 159.
.5	Hepatoprotective and anti-tumor effects of targeting MMP-9 in hepatocellular carcinoma and its relation to vascular invasion markers	Mohammed A. F. Elewa, Mohammed M. Al-Gayyar, Mona F. Schaalán, Khaled H. Abd El Galil, Mohamed A. Ebrahim, Mamdouh M. El-Shishtawy (2015)	Clin Exp Metastasis, (2014/2015 Impact Factor: 3.491) 32:479–493, DOI: 10.1007/s10585-015-9721-6
.6	Nephroprotective role of dipyridamole in diabetic nephropathy: Effect on inflammation and apoptosis	Nehal M. Elsherbiny, Mohammed M.H. Al-Gayyar, Khaled H. Abd El Galil (2015)	Life Sciences (2014/2015: 2.702), 143:8–17, DOI: org/10.1016/j.lfs.2015.10.026
.7	Prevalence and characterization of extended-spectrum beta-lactamases producing Enterobacteriaceae in healthy children and associated risk factors	S. M. Hijazi, M. A. Fawzi, F. M. Ali and K. H. Abd El Galil (2016)	Ann Clin Microbiol Antimicrob (Impact factor 2015: 2.189)15:3, DOI: 10.1186/s12941-016-0121-9.



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.8	Virulence Factors Profile of <i>Staphylococcus aureus</i> Isolated From Different Clinical Sources	RH Rana El-baz, Dina Eid Rizk, Rasha Barwa	N. Egypt. J. Microbiol. 1/01/2016
.9	Comparative study on prevalence and antimicrobial susceptibility of <i>Escherichia coli</i> and <i>Listeria monocytogenes</i> isolated from raw milk in Egypt	Mahasen M.A. Ebaya, Maha A.M. AL-Ashmawy, Mohamed M. EL-Sokkary, Khaled H. Abdelgalil and Rasha Barwa	N. Egypt. J. Microbiol. 1/01/2016
.10	Effect of Tyrosol and Farnesol on Virulence and Antibiotic Resistance of Clinical Isolates of <i>Pseudomonas aeruginosa</i>	SH Abdel-Rhman, AM El-Mahdy, M El-Mowafy.2015	BioMed Research International.
.11	Toxin gene profile and antibiotic resistance of <i>Staphylococcus aureus</i> isolated from clinical and food samples in Egypt	Elbargisy, R.M., Rizk, D.E. and Abdel-Rhman, S.H. 2016	AJMR. 10(13): 428-437
.12	Studies on leukocidins expression and antimicrobial sensitivity in <i>Staphylococcus aureus</i> isolated from various clinical sources	Abdel-Halem A. Abdel-hamed, Shaymaa H. Abdel-Rhman, Mohamed Adel El-Sokkary (2016)	African Journal of Microbiology Research, 10(17), 591-599.
.13	Effect of Tyrosol on <i>Staphylococcus aureus</i> Antimicrobial Susceptibility, Biofilm Formation and Virulence Factors	Shaymaa H. Abdel-Rhman and Dina E. Rizk (2016):	African Journal of Microbiology Research, 10(20), 687-693
.14	Synthesis of novel dyes based on curcumin for the creation of antibacterial silk fabrics	H.E.Gaffer, H.M.Mashaly, Sh.H.Abdelrahman (2016)	Pigment & Resin Technology (In press)
.15	Evaluation of total RNA isolation methods from <i>Staphylococcus aureus</i>	Shaymaa H. Abdel-Rhman (2016)	N. Egypt. J. Microbiol. 43, 50-57
.16	Regulation of <i>Vibrio mimicus</i> metalloprotease (VMP) production by the quorum-sensing master regulatory protein, LuxR.	El-Shaymaa Abdel-Sattar, Shin-ichi Miyoshi, Abdelaziz Elgaml (2016):	Journal of Basic Microbiology. doi: 10.1002/jobm.201600002.
.17	Cathelicidin antimicrobial peptide: a novel regulator of	Pound LD, Patrick C, Eberhard CE, Mottawea W,	Diabetes. 2015 Dec; 64(12):4135-47.



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	islet function, islet regeneration and selected gut bacteria	Wang GS, Abujamel T, Vandenberg R, Stintzi A, Scott FW	
.18	Altered Intestinal Microbiota-Host Mitochondria Crosstalk in New Onset Crohn's Disease.	Mottawea W, Chiang C-K, Mühlbauer M, Starr AE, Abujamel T, Deeke SA, Zhou H, Shokralla S, Hajibabaei M, Singleton R, Benchimol EI, Butcher J, Jobin C, Figeys D, Mack D, and Stintzi A.	Under Third Revision; Nature Communications
.19	Proteomic analysis of intestinal biopsies from a pediatric inflammatory bowel disease inception cohort identifies proteins that differentiate Crohn's disease from ulcerative colitis	Amanda E. Starr, Shelley A. Deeke, Zhibin Ning, Cheng-Kang Chiang, Xu Zhang, Walid Mottawea, Ruth Singleton, Eric I. Benchimol, Ming Wen, David R. Mack, Alain Stintzi, and Daniel Figeys (2016)	Gut 2016; doi:10.1136/gutjnl-2015-310705
.20	<i>Atopobium parvulum</i> modulates the severity of mucosal inflammation in pediatric Crohn's disease.	Walid Mottawea, Cheng-Kang Chiang, Marcus Mühlbauer, Amanda E. Starr, Turki Abujamel, Shelley A. Deeke, Christian Jobin, Daniel Figeys, David Mack, and Alain Stintzi (2015)	Cell symposium on Human Immunity and Microbiome in Health and Disease. Montreal, QC, Canada. Poster presentation.
.21	Dysbiosis in the sulfate reducing bacteria component of pediatric IBD patients	Guillaume Romain, Walid Mottawea, David Mack and Alain Stintzi. 2015.	Cell symposium on Human Immunity and Microbiome in Health and Disease. Montreal, QC, Canada. Contributed experimental data used in poster presentation given by Guillaume Romain.
.22	Host protein biogeographical alterations at the intestinal mucosal-luminal interface in new-onset pediatric inflammatory bowel disease.	Shelley A. Deeke, Amanda E. Starr, Xu Zhang, Walid Mottawea, David Mack, Alain Stintzi and Daniel Figeys. 2015.	Systems Biology of Infection Symposium - 2nd Edition. Ascona, Switzerland. Contributed experimental data used Oral Presentation given by Shelley Deeke.



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.23	Host protein biogeographical alterations at the intestinal mucosal-luminal interface in new-onset pediatric inflammatory bowel disease.	Shelley A. Deeke, Amanda E. Starr, Xu Zhang, Walid Mottawea, David Mack, Alain Stintzi and Daniel Figeys (2015).	Systems Biology of Infection Symposium - 2nd Edition. Ascona, Switzerland. Contributed experimental data used in poster presentation given by Shelley Deeke.
.24	Quorum sensing inhibiting activity of <i>Streptomyces coelicoflavus</i> isolated from soil.	Hassan Ramadan, Mona I. Shaaban, Fatma Abdel Bar, Areej El-Mahdy and ShadiShokralla	Front. Microbiol. (2016) doi: 10.3389/fmicb.2016.00659.
.25	Antiquorum sensing activity of some medicinal plants. S	Rwaida A. Al-Haidari, Mona I. Shaaban, Sabrin R.M. Ibrahim, Gamal A. Mohamed.	Afr J Tradit Complement Altern Med. (2016) 13(5):Inpres
.26	Ribosomal DNA and Plastid Markers Used to Sample Fungal and Plant Communities from Wetland Soils Reveals Complementary Biotas.	Porter TM, Shokralla S, Baird D, Golding GB, Hajibabaei M	PloS one 11 (1), e0142759
.27	Scale Monitoring of Plants through Environmental DNA Metabarcoding of Soil: Recovery, Resolution, and Annotation of Four DNA Markers.	NA Fahner, S Shokralla, DJ Baird, M Hajibabaei (2016) NA Fahner, S Shokralla, DJ Baird, M Hajibabaei	PloS one 11 (6), e0157505
.28	Deletion of the HAMP domains from the histidine kinase CaNik1p of <i>Candida albicans</i> or treatment with fungicides activates the MAP kinase Hog1p in <i>S. cerevisiae</i> transformants.	El-Mowafy M, Bahgat MM, Bilitewski U. (2013)	BMC Microbiol
.29	Comparison of some virulence factors and antimicrobial resistance associated genes of biofilm and non-biofilm producing <i>Pseudomonas aeruginosa</i>	Ramadan Hassan, RashaBarwa and HebaAdel (2014)	N. Egypt. J. Microbiol.
.30	Comparative studies on different molecular methods	Ramadan Hassan, Rasha Barwa, Mona I. Shaaban and	N. Egypt. J. Microbiol.



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	for epidemiological typing of multi-drug-resistance <i>Klebsiella pneumoniae</i> isolated from Mansoura hospitals.	Lamiaa Adel (2014)	
.31	Occurrence and characterization of <i>Staphylococcus aureus</i> in meat and meat products marketed in Mansoura, Egypt	Khalifa, S.M., Abdel-Rhman, H. SH., Abd El Galil, K. H., Habib, E. and Barwa, R. (2014)	Egyptian Journal of Medical Microbiology
.32	Antimicrobial susceptibility and sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) typing of Gram negative bacteria isolated from urinary tract infections in Mansoura, Egypt	Abdelaziz Elgaml, Ramadan Hassan, Rasha Barwa, ShadiShokralla and Wael El-Naggar (2014)	Journal of Microbiology and Antimicrobials
.33	Comparison of some virulence factors and antimicrobial resistance associated genes of biofilm and non-biofilm producing <i>Pseudomonas aeruginosa</i>	Ramadan Hassan, RashaBarwa and HebaAdel (2014)	N. Egypt. J. Microbiol.
.34	Comparative studies on different molecular methods for epidemiological typing of multi-drug-resistance <i>Klebsiella pneumoniae</i> isolated from Mansoura hospitals.	Ramadan Hassan, Rasha Barwa, Mona I. Shaaban and Lamiaa Adel (2014)	N. Egypt. J. Microbiol.
.35	Occurrence and characterization of <i>Staphylococcus aureus</i> in meat and meat products marketed in Mansoura, Egypt	Khalifa, S.M., Abdel-Rhman, H. SH., Abd El Galil, K. H., Habib, E. and Barwa, R. (2014)	Egyptian Journal of Medical Microbiology
.36	Antimicrobial susceptibility and sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) typing of Gram negative bacteria isolated from urinary tract infections in Mansoura, Egypt	Abdelaziz Elgaml, Ramadan Hassan, Rasha Barwa, ShadiShokralla and Wael El-Naggar (2014)	Journal of Microbiology and Antimicrobials



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.37	Comparison of some virulence factors and antimicrobial resistance associated genes of biofilm and non-biofilm producing <i>Pseudomonas aeruginosa</i>	Ramadan Hassan, Rasha Barwa and Heba Adel (2014)	N. Egypt. J. Microbiol.
.38	Comparative studies on different molecular methods for epidemiological typing of multi-drug-resistance <i>Klebsiella pneumoniae</i> isolated from Mansoura hospitals.	Ramadan Hassan, Rasha Barwa, Mona I. Shaaban and Lamiaa Adel (2014)	N. Egypt. J. Microbiol.
.39	Occurrence and characterization of <i>Staphylococcus aureus</i> in meat and meat products marketed in Mansoura, Egypt	Khalifa, S.M., Abdel-Rhman, H. SH., Abd El Galil, K. H., Habib, E. and Barwa, R. (2014)	Egyptian Journal of Medical Microbiology
.40	Antimicrobial susceptibility and sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) typing of Gram negative bacteria isolated from urinary tract infections in Mansoura, Egypt	Abdelaziz Elgaml, Ramadan Hassan, Rasha Barwa, Shadi Shokralla and Wael El-Naggar (2014)	Journal of Microbiology and Antimicrobials
.41	Comparison of some virulence factors and antimicrobial resistance associated genes of biofilm and non-biofilm producing <i>Pseudomonas aeruginosa</i>	Ramadan Hassan, Rasha Barwa and Heba Adel (2014)	N. Egypt. J. Microbiol.
.42	Comparative studies on different molecular methods for epidemiological typing of multi-drug-resistance <i>Klebsiella pneumoniae</i> isolated from Mansoura hospitals.	Ramadan Hassan, Rasha Barwa, Mona I. Shaaban and Lamiaa Adel (2014)	N. Egypt. J. Microbiol.
.43	Occurrence and characterization of <i>Staphylococcus aureus</i> in meat and meat products marketed in Mansoura, Egypt	Khalifa, S.M., Abdel-Rhman, H. SH., Abd El Galil, K. H., Habib, E. and Barwa, R. (2014)	Egyptian Journal of Medical Microbiology



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.44	Antimicrobial susceptibility and sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) typing of Gram negative bacteria isolated from urinary tract infections in Mansoura, Egypt	Abdelaziz Elgaml, Ramadan Hassan, Rasha Barwa, ShadiShokralla and Wael El-Naggar (2014)	Journal of Microbiology and Antimicrobials
.45	Emergence of Multidrug-Resistant New Delhi Metallo-β-Lactamase-1-Producing <i>Klebsiella pneumoniae</i> in Egypt	Mahmoud Khalil, Abdelaziz Elgaml, Mohammed El-Mowafy	Microbial Drug Resistance
.46	The SMAC mimetic BV6 induces cell death and sensitizes different cell lines to TNF-α and TRAIL-induced apoptosis	Mohamed El-Mesery, Mohamed Shaker, Abdelaziz Elgaml	Experimental Biology and Medicine
.47	Regulation of <i>Vibrio mimicus</i> metalloprotease (VMP) production by the quorum-sensing master regulatory protein, LuxR	El-Shaymaa Abdel-Sattar, Shin-ichi Miyoshi, Abdelaziz Elgaml	Journal of Basic Microbiology
.48	Role of the Histone-Like Nucleoid Structuring Protein (H-NS) in the Regulation of Virulence Factor Expression and Stress Response in <i>Vibrio vulnificus</i>	Abdelaziz Elgaml, Shin-ichi Miyoshi	Biocontrol Science.
.49	Presence of Nitric Oxide-Sensing Systems in the Human Pathogen <i>Vibrio vulnificus</i>	Abdelaziz Elgaml, Shin-ichi Miyoshi	Biocontrol Science.
.50	Effects of temperature, growth phase and luxO-disruption on regulation systems of toxin production in <i>Vibrio vulnificus</i> strain L-180, a human clinical isolate	Abdelaziz Elgaml, KazutakaHigaki, Shin-ichi Miyoshi	World Journal of Microbiology and Biotechnology
.51	Regulation system of serine protease production in <i>Vibrio vulnificus</i> strain NCIMB 2137, a metalloprotease-gene	Abdelaziz Elgaml, KazutakaHigaki, Shin-ichi Miyoshi	Aquaculture



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	negative strain isolated from a diseased eel		
.52	Control of quorum sensing and virulence factors of <i>Pseudomonas aeruginosa</i> using phenylalanine arginyl β -naphthylamide.	Soha El- Shaer, Mona Shaaban, Rasha Barwa, Ramadan Hassan (2016)	Journal of medical microbiology. 65, 1194–1204
.53	Studies on Isolation and Inhibitory Effect on Food-Borne Pathogens from Raw Milk in Egypt by Natural Oils.	Mahasen M. A. Ebaya, Maha A. M. AL-Ashmawy, Mohamed M. EL-Sokkary, Khaled H. Abdelgalil, Rasha Barwa	Pakistan journal of pharmaceutical sciences. Accepted on 10 Jan 2017
.54	Association between Virulence Factors and Extended Spectrum Beta-Lactamase Producing <i>Klebsiella pneumoniae</i> Compared to Nonproducing Isolates.	Mustafa Muhammad Gharrah, Areej Mostafa El-Mahdy and Rasha Fathy Barwa	Interdisciplinary Perspectives on Infectious Diseases. Volume 2017, Article ID 7279830, 14 pages
.55	Molecular Characterization of <i>Klebsiella pneumoniae</i> Clinical Isolates with Elevated Resistance to Carbapenems.	Rasha Barwa and Mona Shaaban (2017)	The Open Microbiology Journal
.56	Phenotypic and Genotypic Identification of Different <i>Candida</i> Species Isolated from Various Clinical Sources	Nehal Nouh, Dina Eid Rizk, Rasha Barwa, Ramadan Hassan, Mohammed Adel Elsokkary	N. Egypt. J. Microbiol .Vol. 47, 2017.
.57	Evaluation of <i>Chenopodium album</i> allergenicity in atopic asthmatics.	Abeer Abd El-Aziz, Mona Shaaban , Amany Atwa and Amina Abd El-Maksuod	Current Trends in Immunology, Vol. 17, 55-63, 2016.
.58	Immunization with outer membrane proteins (OprF & OprI) and flagellin B protects mice from pulmonary infection with mucoid and non-mucoid <i>Pseudomonas aeruginosa</i> .	Ramadan Hassan, Wael El-Naggar, Abeer Abd El-Aziz, Mona Shaaban, Hany Ibrahim Kenawy and Youssif Ali	Journal of Microbiology, Immunology and Infection.2016. pii: S1684-1182(17)30007-5.
.59	Cloning, expression, and purification of recombinant CHIPS of <i>Staphylococcus aureus</i> .	Maha Mabrouk, Abeer M. Abd El-Aziz, M. Youssif Ali and Ramadan Hassan	N. Egypt. J. Microbiol .Vol. 46, 2017.



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.60	Emergence of Multidrug-Resistant New Delhi Metallo-β-Lactamase-1-Producing <i>Klebsiella pneumoniae</i> in Egypt	Mahmoud Khalil, Abdelaziz Elgaml, and Mohammed El-Mowafy	Microbial Drug Resistance. August 2016
.61	Correlation of Serum Soluble Fibrinogen-Like Protein 2 with Soluble FAS Ligand and Interferon Gamma in Egyptian Hepatitis C Virus-Infected Patients and Hepatocellular Carcinoma Patients	Mohamed El-Mesery, Mohammed El-Mowafy, Abdelaziz Elgaml, Laila Youssef, Sally Abed (2017)	Journal of interferon and cytokine research. doi: 10.1089/jir.2016.0128
.62	Molecular analysis of Hepatitis B virus sub-genotypes and incidence of preS1/preS2 region mutations in HBV-infected Egyptian .patients from Mansoura	Mohammed El-Mowafy, Abdelaziz Elgaml, Mohamed El-Mesery, Moahmed Elegezy (2017)	Journal of Medical Virology. doi: 10.1002/jmv.24828.
.63	Regulation systems of protease and hemolysin production in <i>Vibrio vulnificus</i>	Abdelaziz Elgaml, Shin-ichi Miyoshi (2017)	Microbiology and Immunology. doi: 10.1111/1348-0421.12465.
.64	The SMAC mimetic BV6 induces cell death and sensitizes different cell lines to TNF-α and TRAIL-induced apoptosis	Mohamed El-Mesery, Mohamed Shaker, Abdelaziz Elgaml (2016)	Experimental Biology and Medicine. doi: 10.1177/1535370216661779.
.65	Regulation of <i>Vibrio mimicus</i> metalloprotease (VMP) production by the quorum-sensing master regulatory protein, LuxR.	El-Shaymaa Abdel-Sattar, Shin-ichi Miyoshi, Abdelaziz Elgaml (2016)	Journal of Basic Microbiology. doi: 10.1002/jobm.201600002.
.66	Genes required for the anti-fungal activity of a bacterial endophyte isolated from a corn landrace grown continuously by subsistence farmers since 1000 BC.	Shehata HR, Ettinger CL, Eisen JA and Raizada MN (2016)	Frontiers in Microbiology 7: 1548
.67	Seeds of the wild progenitor of maize possess bacteria that antagonize foodborne pathogens	Shehata HR, Griffiths MW and Raizada MN (2017).	Foodborne Pathogens and Disease 14: 4



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.68	A Burkholderia endophyte of the ancient maize landrace Chapalote utilizes c-di-GMP-dependent and –independent signaling to suppress diverse plant fungal pathogen targets	Shehata HR and Raizada MN (2017).	FEMS Microbiology Letters.
.69	A syst-omics approach to ensuring food Safety and Reducing the Economic Burden of Salmonellosis	, J JG Emond-Rheault Jeukens, L Freschi.... Mottawea W,et al	Front Microbiol. 2017 Jun 2;8:996. doi: 10.3389/fmicb.2017.00996.
.70	Complete Genome Sequences of 12 Isolates of Listeria monocytogenes Belonging to Serotypes 1/2a, 1/2b, and 4b Obtained from Food Products and Food-Processing Environments in Canada	, Shu Chen, aWalid Mottawea Saleema Saleh Lakha, Sebastien Belanger, Dele Ogunremi	Genome Announc. May 2017vol. 5 no. 19 e00258-17
.71	Altered intestinal microbiota-host mitochondria crosstalk in new onset Crohn's disease.	, Cheng-Walid Mottawea Kang Chiang, Marcus Mühlbauer, Amanda E. Starr et al. doi:10.1038/ncomms13419	Nature Communications 7, Article number: 13419 (2016)
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.98	Identification of possible Ser/Thr/Tyr phosphorylation sites in the fungal histidine kinase CaNik1p by peptide array technique	El-Mowafy M, Bilitewski U.	Bulletin of Faculty of Pharmacy, Cairo University 56(1): 68-72. (2018)



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.101	Candida albicans clinical isolates collected from Mansoura University Hospitals, Egypt.	Dina E. Rizk and Rehab M. Elbargisy	N. Egypt. J. Microbiol (2018)
.102	Confounding effects of microbiome on the susceptibility of TNFSF15 to Crohn's disease in the Ryukyu Islands	Shigeki Nakagome, Hiroshi Chinen, Atsushi Iraha, Akira Hokama, Yasuaki Takeyama, Shotaro Sakisaka, Toshiyuki Matsui, Judith R. Kidd, Kenneth K. Kidd, Heba S. Said, Wataru Suda, Hidetoshi Morita, Masahira Hattori, Tsunehiko Hanihara, Ryosuke Kimura, Hajime Ishida, Jiro Fujita, Fukunori Kinjo, Shuhei Mano, Hiroki Oota	Hum Genet. 136 (4): 387-397. (2017)
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.114	Biotechnological applications of quorum sensing inhibition as novel therapeutic strategies for multidrug resistant pathogens	M Shaaban, A Elgaml, ESE Habib	Microbial pathogenesis (2018).
.115	Immunization with outer membrane proteins (OprF and OprI) and flagellin B protects mice from pulmonary infection with mucoid and nonmucoid <i>Pseudomonas aeruginosa</i>	R Hassan, W El-Naggar, AMA El-Aziz, M Shaaban, HI Kenawy, YM Ali	Journal of microbiology, immunology and infection 51 (3), 312-320 (2018).
.116	Antimicrobial Activity and Molecular Docking of Tannins .from <i>Pimenta dioica</i>	R Al-Harbi, M Shaaban, R Al-Wegaisi, F Moharram, OA El-Rahman, ...	Letters in Drug Design & Discovery 15 (5), 508-515 (2018)
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.143	Evaluation of the Prebiotic Potential of a Commercial Synbiotic Food Ingredient on Gut Microbiota in an Ex Vivo Model of the Human Colon.	Walid Mottawea, Salma Sultan, Kara Landau, Nicolas Bordenave and Riadh Hammami	Nutrients; 12(9): E2669. doi: 10.3390/nu12092669 (2020)
.144	Three-Dimensional Light Sheet Fluorescence Microscopy of Lungs To Dissect Local Host Immune-Aspergillus fumigatus Interactions.	Amich J, Mokhtari Z, Strobel M, Vialetto E, Sheta D, Yu Y, Hartweg J, Kalleda N, Jarick KJ, Brede C, Jordán-Garrote AL, Thusek S, Schmiedgen K, Arslan B, Pinnecker J, Thornton CR, Gunzer M, Krappmann S, Einsele H, Heinze KG, Beilhack A.	mBio.; 11(1):e02752-19. doi: 10.1128/mBio.02752-19. PMID: 32019790; PMCID: PMC7002341 (2020)
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.149	Antimicrobial resistance and virulence characteristics in variability PCR typed biofilm forming isolates of P. aeruginosa.	Mohamed Eladawy, Mohammed El-Mowafy, Mohamed El-Sokkary, Rasha Barwa	Microbial Pathogenesis 158, 105042 DOI: 10.1016/j.micpath.2021.105042 4 (2021)
.150	Impact of the global regulator sarA on toxins production in Staphylococcus aureus. J	Eman El-Baz, Abdelaziz Elgam and Rasha Barwa	Microbiol Biotech Food Sciences, 11(2),pp.1-6 DOI: https://doi.org/10.15414/jmbfs.4155 (2021)
.151	Phenotypic and genotypic characterization of Extended Spectrum βlactamases producing Proteus mirabilis isolates.	Lamiaa A. Salama, Hazem Hamed Saleh, Shaymaa H. Abdel-Rhmana , Rasha Barwa and Ramadan Hassan	Rec. Pharm. Biomed. Sci. 5 (2), 89-99 (2021)
.152	Quorum Sensing Inhibiting Activity of Cefoperazone and Its Metallic Derivatives on Pseudomonas aeruginosa.	Naga NG, El-Badan DE, Rateb HS, Ghanem KM and Shaaban MI	Front. Cell. Infect. Microbiol. 11:716789. doi: 10.3389/fcimb.2021.716789 (2021)
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.157	Characteristic Features of Coronavirus Disease-2019 (COVID-19) Pandemic: Attention to the Management and Control in Egypt	Nourhan H. El-Subbagh, Rana Rabie, Aya A. Mahfouz, Khaled M. Aboelsuod, Mohamed Y. Elshabrawy, Haneen M. Abdelaleem, Basant E. Elhammady, Weam Abosaleh, Lamiaa A. Salama, Sara Badreldeen, Mohamed Yasser, Abdelaziz Elgaml	Journal of Disaster Research. 16:70-83 (2021)
.158	Locked nucleic acid hydrolysis probes for the specific identification of probiotic strains <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> DSM 15954 and Bi-07™.	Hanan R Shehata, Anthony Kiefer, and Wesley Morovic, Steven G Newmaster	Frontiers in Microbiology, 12: 801795. Doi: 10.3389/fmicb.2021.801795 (2021)
.159	Changes of Gut-Microbiota-Liver Axis in Hepatitis C Virus Infection..	Mohammed El-Mowafy, Abdelaziz Elgaml, Mohamed El-Mesery, Salma Sultan, Tamer A.E. Ahmed, Ahmed Gomaa, Mahmoud Aly, and Walid Mottawea	Biology, 2021 Jan 13; 10(1):55. doi: 10.3390/biology10010055 (2021)
.160	<i>Mentha longifolia</i> subsp. <i>typhoides</i> and subsp. <i>schimperii</i>: Antimicrobial and Antiquorum-Sensing Bioactivities.	Haikal, A., El-Neketi, M., Elshaer, S., Gohar, A., Hassan, M.	Chemistry of Natural Compounds 57(5):933-938. https://doi.org/10.1007/s10600-021-03516-6 (2021)
.161	A small fragment of factor B as a potential inhibitor of complement alternative pathway activity.	Enas Yasser Sultan, Dina Eid Rizk, Hany Ibrahim Kenawy, Ramadan Hassan Ibrahim	Immunobiology, 152106/ doi: 10.1016/j.imbio.2021.152106 (2021)
.162	Characterization of virulence determinants and phylogenetic background of multiple and extensively drug resistant <i>Escherichia coli</i> isolated from different clinical sources in	Rana El-baz, Heba Shehta Said, Eman Salama Abdelmegeed and Rasha Barwa	Applied Microbiology and Biotechnology. 106, pages 1279–1298. https://doi.org/10.1007/s00253-021-11740-x (2022)



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	Egypt.		
.163	Inhibition of CL-11 reduces pulmonary inflammation in a mouse model of Klebsiella pneumoniae lung infection,	Maha Mabrook, Abeer M. Abd El-Aziz, Youssif M. Ali, Ramadan Hassan	Microbial Pathogenesis, 164,105408, ISSN 0882-4010, doi.org/10.1016/j.micpath.105408 (2022)
.164	Association of CTLA4 c.49A > G (rs231775; p.Thr17Ala) gene variant with the risk of hepatocellular carcinoma and gastric cancer: A meta-analysis and meta-regression.	Akram Abbas El Awady, Rami M. Elshazli, Ahmed Akram El Awady, Abdelaziz Elgaml, and Ahmed K.Khalifa, AhmadSettini	Meta Gene. 31:100999 (2022)
.165	Impact of Safe Rock® Minerals, Mineral Fertilizers, and Manure on the Quantity and Quality of the Wheat Yield in the Rice-Wheat Cropping System.; PMID: PMC8778096.	Ranva S, Singh YV, Jain N, Bana RS, Bana RC, Aseri GK, Madar R, Shokralla S, Mahmoud EA, El-Sabroun AM, Elansary HO.	Plants (Basel); 11(2):183. doi: 10.3390/plants11020183. PMID: 35050071 (2022)
.166	Climate Change-Induced Drought Impacts, Adaptation and Mitigation Measures in Semi-Arid Pastoral and Agricultural Watersheds.	Muralikrishnan L, Padaria RN, Choudhary AK, Dass A, Shokralla S, El-Abedin TKZ, Abdelmohsen SAM, Mahmoud EA, Elansary HO.	Sustainability; 14(1):6. https://doi.org/10.3390/su14010006 (2022)

Selected group of conferences and workshops

N o.	Name	The title of the conference/ workshop	The organizer/ the meeting place
1	Prof. Rasha Barwa	1- Workshop on "Manufacturing efficient and inefficient pharmaceutical raw materials in Egypt"- 2nd May 2016.	Faculty of pharmacy, Mansoura University
		2-Work shop on "Characterization of the graduate new programs and courses by credit hours system"- 15 th May 2016.	Faculty of pharmacy, Mansoura University



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		3-The first annual conference of experimental 12th Septemeper 2015 – research	Nile center/ Pediatric Hospital
		4-Training course Protocol of External Visits. Quality assurance Center at Mansoura University. 29th Febraury 2016 - 3rd March 2016.	Quality Assurance Center in Mansoura University
		5-Global Forum for education and scientific research. 4 th -6 th April 2019	The ministry of higher education-The administrative capital
		6- Microsoft expression web 15 th August – 15 th September 2007	
		7- Video workshop on How to Write a Competitive Proposal for Framework7	Faculty of Pharmacy- Mansoura University
		8-Workshop on polymerase chain reaction	Children's Hospital- Mansoura University
2	Prof. Hany Kenawy	1-1 st PharmaSchool International conference of Pharmaceutical Sciences 15th-16th Febraury 2016	Mansoura university Oncology Center Mansoura University
		2-6th International Conference of Oncology Center Mansoura University-3rd Annual Meeting of African Breast Cancer and Woman Health Foundation 5th-7th May 2016.	
		3-A member of the International Complement Society.	
		4-A member of the European Complement Society	
3	Dr. Shaymaa Hassan Ibrahim	1-1st PharmaSchool International Conference of Pharmaceutical Science 15 th -16th February 2016	Mansoura university
4	Dr. Walid Mottawea	1-Cell symposium on Human Immunity and Microbiome in Health and Disease. Montreal, QC, Canada.	Canadian Human Immunology Network, McGill University, Canada



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		2-Systems Biology of Infection Symposium - 2nd Edition. Ascona, Switzerland.	University of Basel
5	Prof. Mohammed Adel ELSokkary	1-Work shop at the veterinary medicine authority AVL	Way bridge-England
		2-Work shop on Microarray	Munich-Germany
6	Prof. El-Sayed E. Habib	1-Rapid Diagnosis of Viral Infections and Cell Culture Practice	Faculty of Medicine- Mansoura University
		2-The 17 th International Conference of The Egyptian Society of Medical Microbiology	Cairo
		3-The 4 th scientific conference (The usage of the biotechnology techniques in the veterinary medicine).	Faculty of Veterinary Medicine- Mansoura University
7	Dr. Eman Salama	Rapid Diagnosis of Viral Infections and Cell Culture Practice	Faculty of Medicine- Mansoura University
8	Prof. Ramadan Hassan Ibrahim	The 17 th International Conference of The Egyptian Society of Medical Microbiology	Cairo
		26 Icc 26th International Congress of Chemotherapy	Toronto-Canada
9	Prof. Khaled Hussien Abdelgalil	1-The 3 rd General meeting, Control/ Tracking number: 03-GM-1539-May 18-22, American Society for Microbiology. Development of a rapid and quantitative method for the detection of Hepatitis A virus HM 175.	Washington D.C, USA
		2-The 26th Int'l Congress of Chemotherapy (ICC) and Infection AMMI. The Changing Climate of Infectious Diseases. Molecular Characterization of Some quinolone resistance determining markers amongst clinical	Toronto, Canada



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		isolates of K. pneumoniae in Egypt.	
		3-Abstract in Cold Spring Harbor Laboratory's meeting on Retroviruses	New York, USA
		4-Kumamoto AIDS Seminar GCOE Joint International symposium	Kumamoto, Japan
		5-An oral presentation in 23rd Annual meeting of the Japanese Society for AIDS Research. ApomRNA editing enzyme APOBEC1-dependent restriction of HIV-1 in rabbit cells	Nagoya, Japan
10	Prof. Mona Ibrahim Shabaan	1-Food Research Institute 2009 spring Meeting - Wisconsin Madison - University of Wisconsin Madison, Food research institute.	USA
		2-Academic staff mobility, Erasmus Project KA 107 For the visit from Mansoura University, Egypt To University of Medicine and Pharmacy, Craiova, Romania 15th-20th, April 2019. "Advanced methods for competing microbial resistance"	Microbiology & Immunology Department, Faculty of Pharmacy, Mansoura university
		3-3rd ACSTM/6th ACSE 12-14 Feb/ 2019, Dubai/UAE (Oral talk entitled; Antimicrobial Activity of Biosynthesized ZnO-nanoparticles Prepared by Streptomyces Isolate Purified from Submarine Soil).	Dubai- United Arab Emirates
11	Dr. Abdelaziz ELgamal	Okayama University, Okayama, Japan (oral presentation)	Japan
		Bioactive Okayama 2012 international conference Poster & Oral presentation	
		Egyptian-French Seminar and Workshop of Molecular Biology and Immunology	Children's Hospital- Mansoura University



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List of patent holders

No.	Name	Job title	Patented	Date
1	Prof: Mohamed Adel El Sokkary (May Allah bless his soul)	Emeritus professor	A specialized device for sterilization using dry, wet or ultraviolet heat	2000/7/31
2	Prof. Mohamed Adel El Sokkary (May Allah bless his soul)	Emeritus professor	An innovative method for sterilization using a simple, easy-to-operate autoclave called (mini-autoclave).	2000/5/31
3	Prof. Mohamed Adel El Sokkary (May Allah bless his soul)	Emeritus professor	The use of the method of vacuuming air and gases in a closed cycle in sterilization, mixing and storage of all kinds of materials and other products	1994/3/31
4	Prof. Mohamed Adel El Sokkary (May Allah bless his soul)	Emeritus professor	A method for sterilizing blood products and derivatives outside the body by exposure to ultraviolet rays and sterilization gases	2011/12/7
5	Prof. Mona Ibrahim Awad Shaban	Professor	Production and manufacture of allergy tests and vaccines	2015/2016
6	Prof. Mona Ibrahim Awad Shaban	Professor	A method for the preparation of titrated extracts of allergens for use in allergy tests and vaccines from strains available in the local Egyptian environment.	2019/3/27
7	Prof. Mohamed Mohamed Adel El Sokkary	Professor	Economic microarray printer	2011/4/13
8	Dr: Abeer Mohamed Abd El Aziz	Associate professor	A method for the preparation of titrated extracts of allergens for use in allergy tests and vaccines from strains available in the local Egyptian environment.	2019/3/27



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Research projects in the department

No.	Project name	Research team
1	Identification of microbes using microarray technology	Prof: Mohamed Adel El- Sokkary (principal investigator) Prof: Mohamed Mohamed Adel El- Sokkary Dr: Mohammed Asaad El Mowafy
2	Preparation of standardized allergen extract for skin testing and allergy vaccines	Prof: Mona Ibrahim Awad Shaban Dr: Abeer Mohamed Abd El Aziz
3	Production of Signal Modulatory Molecules from Soil Bacteria	Prof: Ramadan Hassan Ibrahim (Principal investigator) Prof: Mona Ibrahim Awad Shaban Prof: Fatma Abd El Bar Dr: Areej Mostafa El-Mahdy
4	Analytical study for multiple resistance to antibiotics in Gram- negative clinical isolates	Prof: Wael Abbas El Naggar (Principal investigator) Prof: Khaled Hussein Abd El Galil Prof: Rasha Mohamed Fathy Barwa Dr: Shady Kamal George
5	Characterization of Extended Spectrum β-Lactamase produced by Enterobacteriaceae	Prof: Wael Abbas El Naggar (Principal investigator) Prof: Khaled Hussein Abd El Galil Prof: Rasha Mohamed Fathy Barwa Dr: Shady Kamal George
6	Bench-top studies on the production of hygromycin A by a mutant strain of Streptomyces hygroscopicus NRRL2388 using fermenters and continuous production	Prof: Rasha Mohamed Fathy Barwa (Principal investigator)
7	Metal nanoparticles with antimicrobial and antiviral activities against multiple antibiotic-resistant pathogens.	Prof: Mona Ibrahim Awad Shaaban Dr: Noha Mohamed Saleh Dr: Soha Lotfy Elshaer
8	Development of biological therapeutics for some complement-mediated disorders	Prof: Hani Ibrahim Mohamed Kenawy Prof: Mona Ibrahim Awad Shaban Dr. Dina Eid Rizk Dr: Soha Lotfy Elshaer Dr: Enas Yasser Mohamed



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External missions, channels, internal missions, grants and post-doctoral assignments:

First: Foreign Missions

No	Name	Mission type
1	Prof: Walid Abd El Fattah Mottawea	Foreign Mission-Canada
2	Prof: Mohammed Youssif Ali	Foreign Mission- England
3	Prof: Mohamed Mohamed Adel El Sokkary	Foreign Mission- Germany
4	Prof: Hany Ibrahim Mohamed	Foreign Mission- England
5	Prof: Mona Ibrahim Awad Shaban	Joint supervision- USA
6	Prof: Ramadan Hassan Ibrahim	Joint supervision- Germany
7	Prof: Samy Mahmoud Khair Allah	Joint supervision- USA
8	Prof: Khaled Hussein Abd El Galil	Joint supervision- USA
9	Dr: Shady Kamal George	Joint supervision- USA
10	Prof: El-Sayed Elsherbiny Habib	Foreign Mission- Japan
11	Dr: Hanan Reda Hassan ELSayed	Foreign Mission- Canada
12	Michael Mohsen Girgis	Foreign Mission- England
13	Muhamed El- Hussin Ragab El Adawy	Foreign Mission- England

Second: Internal missions

No.	Name	Mission type
1	Prof: Rasha Mohamed Fathy Barwa	Internal mission



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Third: Scholarship members

No.	Name	Mission or Scholarship type
1	Dr: Mohammed Asaad Elmowafy	Special grant- Germany
2	Dr: Heba Shehta Abdallah Said	Special grant- Japan
3	Dr: Abdelaziz Ahmed Abdallah Elgaml	Special grant- Japan
4	Dalia Mohamed Abu Khalil Sheta	Special grant- Germany

Fourth: The members of the scientific missions:

No.	Name	Scientific mission type
1	Dr: Mohammed Asaad Elmowafy	Short term -Germany
2	Dr: Heba Shehta Abdallah Said	Short term - Japan
3	Prof: Mohammed Youssif Ali	Long term-England
4	Dr: Hani Ibrahim Mohamed Kenawy	Long term-England

Annual Conference of Microbiology and Immunology department:

- The department's annual conference is held to present the department's achievements, discuss the latest scientific research and see the extent to which it can be applied on the ground and benefit from it.
- The scientific conference also aims at exchanging experiences between the faculty members in the department and enhancing ways of cooperation between them and other departments.



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- The department's conference for this year, "the third scientific conference for the Department of Microbiology and Immunology", was held on 11/22/2016.
- The department's conference for this year, "The Fourth Scientific Conference of the Department of Microbiology and Immunology", was held on 14/02/2018.
- The department's conference for this year, "The Fifth Scientific Conference of the Department of Microbiology and Immunology", was held on February 23, 2019.
- The department's conference for this year, "The Sixth Scientific Conference of the Department of Microbiology and Immunology", was held on February 15, 2020.
- The department's conference for this year, "The Seventh Scientific Conference of the Department of Microbiology and Immunology", was held on September 18, 2021.



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Members of Microbiology and Immunology department at scientific conferences





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The 3rd Microbiology Department Conference



The 4th Microbiology Department Conference





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The 5th Microbiology Department Conference



The 6th Microbiology Department Conference





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The 7th Microbiology Department Conference



The 24th Conference of the Egyptian Society of Medical Microbiology and Immunology





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Awards received by staff members in the department

A- University Appreciation Award

Name	Occupation	Date
Prof. dr. Mohamed Adel El Sokkary	Emeritus professor, (May Allah bless his soul)	1998/97

B- University Incentive Award

Name	Occupation	Date
Prof. dr. Samy Mahmoud Khair Allah (May Allah bless his soul)	Professor	1999/98
Prof. dr. Khaled Hussein Abd El Galil	Professor	2014/2013
Prof. dr. Rasha Mohamed Fathy Barwa	Professor	2016/2015

C- University award for scientific creativity

Name	Occupation	Date
Prof. dr. Mohammed Youssif Ali	Professor	2016/2015



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D- University Award for Best Thesis (PhD)

Name	Occupation	Date
Prof. dr. Rasha Mohamed Fathy Barwa	Professor	2010/2009

E- University Award for Best Thesis (Master)

Name	Occupation	Date
Prof: Samy Mahmoud Khair Allah (May Allah bless his soul)	Professor	1990/1989
Prof: Rasha Mohamed Fathy Barwa	Professor	2004/2003
Maha Ahmed El-sayed Mabrouk	Assistant lecturer	2018/2017