

## قسم الميكروبيولوجي والمناعة



### نبذة عن القسم

قسم الميكروبيولوجي، كلية الطب، جامعة قناة السويس، هو المسؤول عن التدريس علم البكتيريا ، علم الفيروسات، علم الفطريات، علم المناعة والبيولوجيا الجزيئية. يتم تدريس هذه المواضيع في سياق مشكلات صحية حيث يتكامل علم البكتيريا، علم الفيروسات، علم الفطريات والمناعة مع غيرها من العلوم الأساسية والإكلينيكية و يدرس للطلبة من خلال التعلم القائم علي حل المشاكل.

يقع المختبر، قاعة محاضرات والمكاتب الخاصة بالقسم في الطابق الثالث من مبنى العلوم الأساسية.

القوى العاملة في القسم تتكون من أكثر من 30 عضو هيئة تدريس و هيئة معاونة. كان أول رئيس للقسم الأستاذ الدكتور إبراهيم خليفة، يليه الأستاذ الدكتور محمد فريد، ومن ثم الأستاذة الدكتورة ليلى مخلوف. كان الأستاذ الدكتور حسن نصر الإسلام رئيس قسم منذ عام 2006 حتى عام 2012. الرئيس الحالي للقسم هو الأستاذ الدكتور أميمة محمد.

### التعليم والخدمات

قسم الميكروبيولوجي و المناعة يقدم برنامج دراسي متكامل لتزويد الطلاب بالمعرفة الطبية العامة والشاملة في علم الأحياء الدقيقة والمناعة التي لا غنى عنها لدراسة وممارسة الطب.

يوفر قسم الأنشطة التعليمية التالية:

مادة الميكروبيولوجي (علم البكتيريا، علم الفيروسات، علم الفطريات) والمناعة.

### طلاب المرحلة الجامعية:

تدريس مادة الميكروبيولوجي والمناعة نظريا (عبر المحاضرات، وحل المشكلات، والحلقات الدراسية) وعمليا لطلبة السنوات الأتية:

- طلاب الطب من السنة الأولى في جامعة قناة السويس (2012-2013 أضاف في العام).
- طلاب الطب من السنة الثانية في جامعة قناة السويس.

- طلاب الطب من السنة الثالثة في جامعة قناة السويس.
- طلاب طب الأسنان من السنة الثانية بجامعة قناة السويس.

تدريس مادة الميكروبيولوجي والمناعة نظريا عن طريق حل المشكلات وحلقات دراسية ل:

- طلاب الطب من السنة الرابعة في جامعة قناة السويس.
- طلاب الطب من السنة الخامسة في جامعة قناة السويس.
- طلاب الطب السنة السادسة في جامعة قناة السويس.

تدريس مادة الميكروبيولوجي والمناعة لمعاهد التمريض:

- كلية التمريض والمعهد العالي للتمريض في الإسماعيلية.
- كلية التمريض والمعهد العالي للتمريض في بورسعيد.
- المعهد الفني للتمريض بالإسماعيلية.

#### طلاب الدراسات العليا:

تدريس مادة الميكروبيولوجي، علم المناعة والبيولوجيا الجزيئية لطلاب الطب لدرجة الماجستير في التخصصات التالية:

- مادة الميكروبيولوجي والمناعة
- علم الطفيليات
- الكيمياء الحيوية
- الصحة العامة
- الباثولوجيا الإكلينيكية
- الجراحة العامة
- أمراض الجهاز البولي
- جراحة العظام
- الطب الباطني
- أمراض الرئة
- أمراض النساء و الولادة

- طب الأطفال

- طب الطوارئ

- الأمراض الجلدية

- الأنف والأذن والحنجرة

- طب المناطق الحارة

تدريس مادة الميكروبيولوجي والمناعة والبيولوجيا الجزيئية لطلاب الطب من دبلوم في التخصصات التالية:

- الأمراض الجلدية
- طب المناطق الحارة
- الأنف والأذن والحنجرة

تدريس علم الأحياء الدقيقة، علم المناعة والبيولوجيا الجزيئية لطلاب الطب من MD في التخصصات التالية:

- مادة الميكروبيولوجي والمناعة
- طب الطوارئ
- أمراض النساء والتوليد (الجزء الأول)

تدريس مادة الميكروبيولوجي والمناعة للطلاب درجة الماجستير من كلية طب الأسنان.

تدريس مادة الميكروبيولوجي والمناعة للطلاب درجة الدكتوراه من كلية الطب.

### التدريس والأبحاث

تم تصميم المختبر في قسم الميكروبيولوجي و المناعة لتعليم تقنيات علم الأحياء الدقيقة الأساسية التي تشمل:

- تدابير السلامة في مختبر

-التعقيم والتطهير

- المجهر

- إعداد وتفسير مسحات الملون غرام

- إعداد وفحص عينات البلغم مصبوغة بنيلسن

- عزل البكتيريا المختلفة باستخدام مختلف وسائل .

- التعرف على البكتيريا المعزولة من الصفات المورفولوجية تحت المجهر، التفاعلات الكيميائية الحيوية والاختبارات المصلية.

- اختبار الحساسية للمضادات الحيوية

- التقنيات التشخيصية الجزيئية.



البحوث المخبرية تلعب دورا هاما في تدريب اعضاء القسم على التقنيات المختلفة المتقدمة لعزل وتشخيص الجراثيم بما فيها الجزيئات الحديثة مثل PCR.

مختبرنا يسهم أيضا في تشخيص الأمراض المعدية وذلك كجزء من سياسة مكافحة العدوى.

### أنشطة القسم

علم الأحياء الدقيقة أسهم بشكل فعال في سياسة مكافحة العدوى في المستشفى. أستاذ الدكتور محمد السويدي، أستاذ في القسم، هو رئيس وحدة مكافحة العدوى. بعض أعضاء القسم يتم توزيعهم وفقا لجدول لعمل زيارات روتينية للأقسام المختلفة في المستشفى لمتابعة القيود المفروضة على قواعد مكافحة العدوى وإعطاء المحاضرات الدورية للممرضات.



قسمنا هو المسؤول عن الحساسية الإكلينيكية و وحدة المناعة في مستشفى. و الأستاذ الدكتور إبراهيم فرج هو رئيس هذه الوحدة.

## أنشطة البحوث التي أجريت مؤخرا في القسم:

عدد اثنين مشاريع البحوث عن طريق منحة دعم البحوث والتكنولوجيا للتنمية (RSTDG):

1 - دور الخلايا T- regulatory و pro and anti-inflammatory cytokines في المثابرة الفيروسية و النتائج الإكلينيكية للمرضى المصابين HCV.

2 - التشخيص المبكر والعلاج من مرض السل في منطقة قناة السويس.

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النشر العلمي

الأستاذ الدكتور أميمة محمد أبو علا

Title	Publishing Date	Journal
1- The Immune Status of Young Adult Girls in Ismailia City to Rubella Virus.	July, 1993	Egyptian J of Medical Microbiology (EJMM)
2- Plasmid Profile of Aminoglycoside Resistant Clinical Isolates of <i>Escherichia coli</i> .	July, 1991	EJMM
3- Differential Identification of Pathogenic Mycobacteria Isolated from Patients Clinically Diagnosed as Pulmonary Tuberculosis	October,1994	EJMM
4- Risk Factors for Persistent Diarrhea among Egyptian Children in the Suez Canal Area.	October,1994	EJMM
5- Asymptomatic Urinary Tract Infection in Preschool Children in Ismailia City.	June, 1994	EJMM
6- Rotavirus Infection and Persistent Diarrhea in Young Children.	January, 1992	EJMM
7- - Isolation and Characterization of <i>Helicobacter pylori</i> Involved in Gastritis and Peptic Ulcer.	June, 1994	EJMM
8- Breast Feeding and Urinary Tract Infections among Febrile Infants.	May.,1997	EJMM
9- Bacteria Causing Lower Respiratory Tract Infection Among Potentially Immunocompromised Patients.	May.,1997	EJMM
10- Prognostic Indices for Mortality in Hospitalized Children with Invasive Bacterial Infection.	January., 1999	Egyptian J of Monofia Faculty of Medicine
11- Bacterial Vaginosis and Associated Risk Factors.	July., 1999	EJMM
12- Frequency and Clinical Correlation of Dual Infection with Hepatitis G and C Viruses.	January., 1999	EJMM
13- Frequency of Isolation and Serotype Determination of Shiga-Like Toxin Producing <i>E.coli</i> (SELTEC) Among Patients with diarrhea in Ismailia area.	January., 2000	EJMM Accepted as a Poster in ASM 99 <sup>th</sup> General Meeting

		in Shikago, 1999
14- Evaluation of Sensitivity, Specificity and Predictive Values of a Serological Method ( ImmunoComp) for Rapid Diagnosis of <b><i>Helicobacter pylori</i></b> in Comparison to <b>Culture</b> and <b>Rapid Urease Test</b> .	July., 2000	EJMM
15- Chlamidia pneumonia Infection as a Risk Factor for Coronary Artery Diseases and Acute Myocardial Infarction.	July., 2000	EJMM
16- Rapid Antifungal Susceptibility Testing of <i>Candida albicans</i> Using Flow Cytometry.	July., 2000	EJMM
17- Epidemiological Analysis of Sporadic Isolates of <b><i>Salmonella typhi</i></b> Isolates Using Pulsed-Gel Electrophoresis.	July., 2000	EJMM
18- PCR Amplification of IS6110 and Serum IgG A60 Assay for Rapid Diagnosis of <b><i>Mycobacterium tuberculosis</i></b> Pulmonary Infection.	July., 2000	EJMM Accepted as a Poster in the conference of The American Society of Microbiology ASM in June., 2000
19. Pulsed field gel electrophoresis and plasmid analysis of nosocomial and Environmental MRSA isolated from surgical wards, Suez Canal University hospital.	2002	EJMM

الأستاذ الدكتور ميرفت محمد الحسينى

Title	Date	Journal
1- Plasmid profile of aminoglycoside resistant clinical isolates of <i>Escherichia coli</i> .	1993	EJMM
2- Chlamydia Trachomatis in cervical mucus in	1994	EJMM



cases of chronic cervicitis.		
3- Antimicrobial activity of local anaesthetics and some of their Adjuvants.	1992	Egyptian Journal of Anesthesia
4- The immune status of young adult girls in Ismailia to rubella virus infection.	1993	EJMM
5- Bacillus Cereus in some popular Egyptian dishes collected from the local market.	1994	Journal of Nutrition institution
6- Rotavirus infections and persistent diarrhea in young children.	1994	EJMM
7- Isolation and Characterization of Helicobacter pylori Involved in Gastritis and Peptic Ulcer.	1994	EJMM
8- On the bacteriological quality of drinking water available in rural areas.	1993	EJMM
9- Asymptomatic Urinary Tract Infection in Preschool Children in Ismailia City.	1994	EJMM
10- Identification of streptomycin resistance among Mycobacterium tuberculosis using single strand conformation polymorphism (SSCP).	2000	EJMM
11- Genotyping of Hepatitis C virus in Ismailia area using Genotype specific primer assay method.	2000	EJMM
12-Plasmid profile and pulsed-field gel electrophoresis of Klebsiella pneumoniae and Klebsiella oxytoca, strains causing nosocomial urinary tract infection.	1998	EJMM
13-Differential Identification of Pathogenic Mycobacteria Isolated from Patients Clinically Diagnosed as Pulmonary Tuberculosis.	1994	EJMM

14-Frequency and clinical correlation of dual infections with hepatitis G and C viruses.	1999	EJMM
15- Rapid Antifungal Susceptibility Testing of Candida albicans Using Flow Cytometry.	2000	EJMM
16- Genotypic fingerprinting of Helicobacter Pylori isolated from gastric biopsies.	1997	EJMM
17- Evaluation of Sensitivity, Specificity and Predictive Values of a Serological Method ( ImmunoComp) for Rapid Diagnosis of Helicobacter pylori in Comparison to Culture and Rapid Urease Test.	2000	EJMM
18- Prevalence of Haemophilus influenza type B meningitis in children below five years in Suez area.	2000	EJMM

الأستاذ الدكتور أنور أحمد هيبية

Title	Date	Journal
1- Subtyping of nosocomial pseudomonas aeruginosa isolates: phenotypic and genotypic markers	1994	EJMM- The 6th International Conference, SHEA, Washington DC., 1996
2- Comparative evaluation of 3 susceptibility test methods of Candida albicans for ketoconazole and fluconazole.		
3- Typing of helicobacter pylori based on PCR-RFLP analysis of vacA	1999	EJMM- The 98 <sup>th</sup> general meeting, ASM, Atlanta, USA
4- Evaluation of Sensitivity, Specificity and	2000	EJMM

Predictive Values of a Serological Method ( ImmunoComp) for Rapid Diagnosis of Helicobacter pylori in Comparison to Culture and Rapid Urease Test.		
5- Rotavirus infections and persistent diarrhea in young children	1994	EJMM
6- HCV-RNA and anti HCV IgM in Egyptian subjects bearing IgG anti- HCV antibodies		
7- Frequency and clinical correlation of dual infections with hepatitis G and C viruses	1999	EJMM
8- The immune status of young adult girls in Ismailia to rubella virus infection.	1993	EJMM
9- Co-infection with gonorrhoea.		
10- Plasmid profile of aminoglycoside resistant clinical isolates of Escherichia coli	1993	EJMM
11- Isolation and Characterization of Helicobacter Pylori Involved in Gastritis and Peptic Ulcers	1993	EJMM
12-Differential Identification of Pathogenic Mycobacteria Isolated from Patients Clinically Diagnosed as Pulmonary Tuberculosis.	1994	EJMM
13- Pattern and Nature of immunological Deposits In Different Pathological Forms of Glomerulonephritis.		
14- Molecular surveillance of Plasmodium falciparum chloroquine resistance transporter variant T76 in Jazan area, Kingdom of Saudi Arabia.	2009	Journal of the Egyptian Society of Parasitology
15-Latex agglutination and indirect	2009	Journal of the

immunofluorescence tests in the diagnosis of Toxoplasma gondii in Saudi Arabia.		Egyptian Society of Parasitology
16- Anemia, interleukin-10, tumor necrosis factor alpha, and erythropoietin levels in children with acute, complicated and uncomplicated malignant malaria in Jazan, Saudi Arabia.	2008	Journal of the Egyptian Society of Parasitology
17- Evaluation of a real-time polymerase chain reaction assay for the diagnosis of malaria in patients from Jazan area, Saudi Arabia.	2008	Journal of the Egyptian Society of Parasitology
18- Comparison of two commercial assays and microscopy with PCR for diagnosis of malaria.	2008	Journal of the Egyptian Society of Parasitology

الأستاذ الدكتور فرج إبراهيم فرج

Title	Date	Journal
1. Studies on the immune responses in mice following the intestinal presentation of inactivated influenza virus vaccines.	December 1987.	Influenza Research Center, Baylor College of Medicine, Houston, TX, U.S.A
2. Immunogenicity and efficacy of orally administered influenza virus vaccines in mice.	1988.	Six. Vaccine
3. An outbreak of enterovirus conjunctivitis in Portsaid City, 1989.	1990	Al-Azhar Journal of Microbiology
4. Prevalence of active Trachoma and identification of immunotypes of Chlamydia in Ismailia Student hospital.	1992	Bulletin of the Ophthalmologic Society of Egypt

5. Outcome of infants born to Anti-Hepatitis C virus seropositive mothers.	1994	Medical Journal of Cairo University
6. Serological profile of viral hepatitis among hemodialysis patients.	1997	EJMM
7. The role of Chlamydia trachomatis in otitis media with effusion in children.	1998	Medical Journal of Cairo University
8. Correlation between serum levels of soluble interleukin-2 receptor and total Immunoglobulin-E among patients with perennial allergic rhinitis.	1999	Medical Journal of Cairo University
9. Microbiological study of the tuba-tympanic membrane chronic suppurative Otitis media in children: Middle ear aspirates vs. conventional external ear Swabs.	1999	Medical Journal of Cairo University
10. Chlamydia pneumoniae respiratory infection and bronchial asthma in Egyptian School children..	2000	The Egyptian Journal of Pediatrics
11. Immunological features of atopic dermatitis of different disease severities among	2002	EJMM
12. Pulsed field gel electrophoresis and plasmid analysis of nosocomial and Environmental MRSA isolated from surgical wards, Suez Canal University hospital.	2002	EJMM
13. Detection of rpoB and Kat G genes Mutations in Rifampin resistant and INH-Resistant Mycobacterium tuberculosis in the	2003	EJMM

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Suez Canal region, Egypt.		
<u>2-14.</u> Evaluation of Respiratory Syncytial virus as a causative agent of acute respiratory infections among infants and young children in Suez Canal University hospital.	2003	EJMM
<u>3-15.</u> Effect of prior BCG vaccination on allergen specific Immune therapy in perennial allergic rhinitis.	2004	EJMM
16. Hereditary angioedema: literature review and case report. Farag I. Farag-Mahmod, Ashraf Abdel-Naby, Hannan Taha and Amgad Abdel-Hameed. Allergy, Asthma and Clinical Immunology 2(4):142-143:2006	2006	Allergy, Asthma and Clinical Immunology
17- Prevalence of mesquite (prosopis species) allergy and efficacy of conventional allergen specific immunotherapy among Egyptian patients with perennial allergic rhinitis.	2010	Allergy, Asthma and Clinical Immunology
18. Allergen specific Sublingual Immunotherapy (ASSIT) reduces IL-4 and enhances interferon – gamma intracellular expression by CD8+ Tcells in perennial allergic rhinitis	2012	Allergy, Asthma and Clinical Immunology (Submitted)
19. Association of Interferon Gama gene polymorphism with atopic Diseases.		(Submitted)
20. Clinical and Immunological effects of sublingual immunotherapy in patients with		

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perennial allergic rhinitis.		
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الأستاذ الدكتور محمد علي

Title	Date	Journal
1-Performance of rK39 immunochromatography and freeze-dried direct agglutination tests in the diagnosis of imported visceral leishmaniasis	2011	Parasitology Research
2- ImmunoCard STAT! Cartridge antigen detection assay compared to microplate enzyme immunoassay and modified Kinyoun's acid-fast staining technique for detection of Cryptosporidium in fecal specimens.	2011	Parasitology Research
3- Detection of Extended-Spectrum $\beta$ -Lactamase Production in Nosocomial Strains of <i>Klebsiella pneumoniae</i> , Isolated from Critical Care Units..	2008	EJMM
4- Characterization of <i>rpoB</i> Mutations in Rifampin-Resistant Clinical Isolates of <i>M. tuberculosis</i> .	2008	EJMM
5-Detection of <i>Mycobacterium tuberculosis</i> in Respiratory and Non-Respiratory Clinical Specimen Using the BACTEC MGIT960 Culture and DNA Strand Displacement Amplification (SDA) Assay	2007	EJMM- the 108 <sup>th</sup> General Meeting of the American Society for Microbiology, ASM, Boston, USA
6- Use of <i>Toxoplasma gondii</i> -specific IgG avidity assay for diagnosis of acquired toxoplasmosis in pregnant women.	2007	EJMM – 13 <sup>th</sup> International Conference on Infectious Diseases, KL, Malaysia.(

7- Value of Demographic Data, Clinical Indicators, and Non-Specific Laboratory Parameters in Diagnosis of Imported Malaria.	2006	J. of the Egyptian Society of Medical sciences The 108th General Meeting of the American Society for Microbiology
8- Hepatitis C virus subtypes in Suez Canal zone, Egypt, using ELISA-based serotyping and PCR-based genotyping.	2004	EJMM- 2 <sup>nd</sup> International Conference of Emerging Infectious Diseases, ICEID, Atlanta, USA(
9- Detection of methicillin resistance in S. aureus clinical isolates by phenotypic methods and PCR amplification of mecA gene.	2004	EJMM- The 16 <sup>th</sup> European Congress for Microbiology and Infectious Diseases, ECCMID, France
10- Use of PCR-SSCP for rapid detection of rifampicin and isoniazid resistance-associated mutations in Mycobacterium tuberculosis, isolated in Suez Canal region, Egypt	2003	EJMM The 14th ECCMID, Prague
11- Pulsed-field gel electrophoresis and plasmid analysis of nosocomial and environmental MRSA, isolated from surgical wards, SCU hospitals in Ismailiya.	2002	EJMM
12 -PCR amplification of IS6110 and serum IgG to A60-protein assay as rapid diagnostic techniques in pulmonary Mycobacterium tuberculosis infection.	2000	EJMM- Published at "Tuberculosis 2000: Past, Present and Future", ASM, NY, USA
13-Frequency of isolation and serological determination of Shiga-like toxin-producing E. coli (SLTEC) among patients with diarrhoea in Ismailiya area.	2000	EJMM The 99 <sup>th</sup> general meeting of ASM, Atlanta, USA



14- Typing of <i>Helicobacter pylori</i> based on PCR-RFLP analysis of <i>vacA</i> .	1999	EJMM The 98 th general meeting, ASM, Atlanta, USA
15- Frequency and clinical correlation of dual infections with the hepatitis G and C viruses.	1999	EJMM Published at the 100th ASM general meeting CA, USA
16-Plasmid profile and pulsed-field gel electrophoresis of <i>Klebsiella pneumoniae</i> and <i>Klebsiella oxytoca</i> , strains causing nosocomial urinary tract infection.	1998	EJMM
17- Genome fingerprinting of nosocomial and environmental methicillin resistant <i>S. aureus</i> by pulsed field gel electrophoresis.	1998	EJMM
18- Maternal carriage and vertical transmission of group B Streptococci.	1997	J. of the Egyptian Society of Obstetrics and Gynecology
20- Molecular subtyping of <i>Neisseria meningitidis</i> serogroup B: Comparison of five methods.	1996	J. of Clinical Microbiology (ASM) 34(6):168-1473.
21- Electron microscopy of ceftazidime-treated <i>Escherichia coli</i>	1995	EJMM
22 Oropharyngeal colonization with Gram-negative bacilli in elderly subjects in relation to salivary secretory immunoglobulin A level	1994	EJMM
23. Subtyping of nosocomial <i>P. aeruginosa</i> clinical isolates: Phenotypic and genotypic markers.	1994	EJMM The 6th International Conference, SHEA, Washington DC., 1996

الأستاذ الدكتور سعيد العبادي

Title	Date	Journal
1- Isolation and Characterization of H. pylori involved in gastritis and peptic ulcer.	1994	EJMM
2. Comparison of Two non- radioactive, single -strand conformation polymorphism electrophoresis methods for identification of rpoB mutation in rifampicin- resistant isolates of Mycobacterium tuberculosis.	1998	Molecular Diagnosis
3. Comparative characterization of H. pylori from Africa and North America	1997	ASM, Miami, FL, USA
4. Typing of H. pylori based on PCR- RFLP analysis of vacA. Jan.	1999.	EJMM
5. Plasmid profile and Pulsed Field Gel Electrophoresis of Klebsiella pneumonia and Klebsiella oxytoca strains causing nosocomial urinary tract infection	1998	EJMM
6. PCR amplification of IS6110 and serum IgG 60 assay for rapid diagnosis of M. tuberculosis pulmonary infection. July, 2000.	2000	EJMM
7- Characterization of nosocomial Staphylococcus aureus isolates from Suez Canal University Hospital	2001	EJMM
8. Characterization of IS6110 restriction fragment length polymorphism patterns and mechanisms of antimicrobial resistance for multi-drug resistant isolates of M. tuberculosis from a major reference hospital in Assiut, Egypt. 2001	2001	J. of Clinical Microbiology

9. Use of PCR-RFLP analysis of oxyR gene to differentiate between M. tuberculosis and M. bovis.	2002	EJMM
10. Characterization of Mycobacterium tuberculosis Complex Isolates from Cerebrospinal Fluids of Meningitis Patients at Six Fever Hospitals in Egypt	2002	J. of Clinical Microbiology
11. Identification of Mycobacterium Species by PCR-Restriction Fragment Length polymorphism (RFLP) analysis.	2004	EJMM
12. Typing of Staphylococcus aureus strains using repetitive Element Sequence-Based PCR	2004	EJMM
13. Multi- Drug Resistance Mycobacterium tuberculosis in Egypt: molecular identification by DNA based methods.	2005	ASM, Atlanta, GA, USA
14. Abstract: Genetic analysis of rifampin resistance in Mycobacterium tuberculosis.	2005	ASM, Atlanta, GA, USA
15. Rapid Identification of Campylobacter species by restriction fragment length polymorphism (RFLP) analysis of a PCR – amplified 16S Ribosomal DNA Fragment.	2005	EJMM
16. Rapid Identification of 5 Candida species using PCR enzyme immunoassay (PCR-EIA).	2005	EJMM
17. Genetic analysis of rifampin resistance in Mycobacterium. Tuberculosis.	2006	EJMM
18- Abstract: Identification of Escherichia coli flagellar types by restriction of the amplified fliC gene.	2007	The 15th Conference of the Egyptian Society for Medical Microbiology (ESMM). Cairo, Egypt. April

19. Identification of Escherichia coli flagellar types by restriction of the amplified fliC gene.	2009	EJMM
20. Species identification and pattern of Antibiotic resistance Enterococci isolated from cases of nosocomial infections in Suez Canal University Hospital.	2007	EJMM
21. Characterization of rpoB mutations in rifampin resistant clinical isolates of M. tuberculosis.	2008	EJMM
22. Single-Step PCR Using (GACA) <sub>4</sub> Primer: Utility for Rapid Identification of Dermatophyte Species and Strains.	2008	Journal of Clinical Microbiology
23. Strain differentiation of Mycobacterium tuberculosis complex isolated from sputum of Pulmonary Tuberculosis Patients.	2009	International Journal of Infectious diseases
24. Molecular identification of mutations associated with antituberculosis drug resistance among strains of M. tuberculosis.	2009	International Journal of Infectious diseases
25. Genotyping of Hepatitis B Virus by PCR Using Type-Specific Primers.	2010	17th conference for Egyptian society of Microbiology. Cairo, Egypt
26. Human Immune Response To Hepatitis C and B Virus.	2010	The 1st Annual World Congress of Immunodiseases and Therapy, Beijing•China
27. Genetic Bases of Antibiotic Resistance in Mycobacterium Tuberculosis.	2010	Review Article in Suez Canal University Medical Journal.
28. Rapid Identification of Methicillin resistant Staphylococcus aureus using real time PCR.	2013	Advances in infectious diseases (AID)

الأستاذ الدكتور جيهان الصديق عبد الحميد الحديدي

Title	Date	Journal
1- Evaluation of performance characteristics of a rapid enzyme immunoassay test for the detection of Chlamydia trachomatis in male patients with suspected non-gonococcal urethritis.	2003	EJMM
2- Flow cytometric analysis of the phagocytic cells in active pulmonary tuberculosis.	2004	Egyptian Journal of Immunology
3- Effect of BCG Vaccination on allergen Specific immunotherapy in perennial allergic rhinitis patients.	2004	EJMM
4- Isolation and identification of different malassezia species from various morphological variants of pityriasis versicolor.	2004	EJMM
5- Evaluation of Mycobacterium Growth indicator tube and gene probe amplified mycobacterium tuberculosis direct test for rapid diagnosis of Mycobacterium tuberculosis in sputum specimens.	2005	EJMM
6- Role of polymerase chain reaction and enzyme-linked immunosorbent assay in detection of Hepatitis E virus	2005	EJMM
7- Rapid detection of Helicobacter Pylori in gastric biopsy specimens using different PCR primer sets.	2004	EJMM
8- In vitro susceptibility of voriconazole and two established antifungal agents against different species of dermatophytes using broth microdilution and agar dilution methods.	2005	EJMM

9- Direct molecular identification of Malassezia species from skin scales of patients with seborrheic dermatitis by nested terminal fragment length polymorphism analysis.	2007	EJMM
10- Strain differentiation of Mycobacterium tuberculosis complex isolated from sputum of pulmonary tuberculosis patients	2009	International Journal of Infectious Diseases
11- Serum interleukin-8 and insulin like growth factor-1 in Egyptian bladder cancer patients	2009	Cancer Biomarkers
12- Phenotypic and Gene-technological Methods for the Identification of Clinically Isolated Streptococcus pneumoniae from Egyptian Children.	2010	Journal of American Sciences.
13- Impact of Hepatitis C Virus Infection on Neutrophil Oxidative Burst Function in Hemodialysis Patients.	2010	Egyptian Journal of Immunology
14- EFFICACY OF SUBLINGUAL IMMUNOTHERAPY AS OPPOSED TO CLUSTER IMMUNOTHERAPY IN RESPIRATORY TRACT ALLERGY	2011	Med. J. Cairo Univ
15- Allergen specific sublingual immunotherapy (ASSIT) reduces IL-4 and enhances interferon gamma intracellular expression by CD8+ T-cells in perineal allergic rhinitis	2012	ALLERGY, ASTHMA & CLINICAL IMMUNOLOGY. Annual Scientific Meeting, Calgary, Canada

الأستاذ الدكتور محمود كامل

Title	Date	Journal
1- Rapid Antifungal susceptibility testing of	2000	EJMM

Candida albicans Using Flow Cytometry		
2- Haematologic& Immunologic status of Burned patients; Possible Effects of Clinical Intervention	2000	Zagazig University Medical Journal
3- Evaluation of Performance Characteristics of a Rapid Enzyme Immunoassay Test for the Detection of Chlamydia trachomatis in Male Patient with suspected Non – gonococcal Urethritis	2003	EJMM
4- Soluble Intercellular Adhesion Molecules-1 and soluble Vascular Cell Adhesion Molecules-1 in the serum of patients with Hepatitis – C; Correlation with Liver Inflammation & Fibrosis	2003	The Scientific Journal of Al – Azhar university
5- Detection of Helicobacter pylori among Chronic Dyspeptic Patients by Salivary PCR Method	2004	EJMM
6- Rapid Detection of Helicobacter pylori in Gastric Biopsy Specimen Using Different PCR Primer Sets.	2004	EJMM
7- Flow Cytometric Analysis of Phagocytic cells in Active pulmonary Tuberculosis	2004	EJMM
8- Colonization by Methicillin Resistant Staphylococcus aureus Among Health Care Workers in Intensive Care Units	2006	EJMM
9- Study of Auto antibodies in Alopecia areate	2006	EJMM
10- Rapid Detection of Cytomegalovirus DNA Infection in Plasma of Hemodialysis Patients by Real-time PCR	2011	Egyptian Journal of Medical Laboratory Science
11- Study of Interlukin-13 ( IL-13) in Bronchial	2010	EJMM

Asthmatic Patients		
12- Biofilm formation and its association with multiple Drug Resistance among Clinical Isolates of Acinetobacterbaumani	2012	EJMM
13- Role of Eotaxin Chemokine and its Receptor CCR3 in Allergic Diseases.	2012	Egyptian Journal of Medical Laboratory Sciences
14- Study of Dermatophytosis In Menoufia Governorate.	2008	Scientific Journal of Al-Azhar Medical Faculty
15- Characterization of the Purified secondary metabolites Active Fraction of Trichodermaviride Causing Cytotoxicity to Human Hepatoma Cell Culture	2007	Scientific Journal of Al-Azhar Medical Faculty (Girls
16 - An in vitro study of the antimicrobial effect of different types of irrigat solutions used in root canals prepared by using rotator NITI instrument.	2010	Scientific Journal of Al-Azhar Medical Faculty (Girls
17- Genotypic characterization of occult hepatitis B Virus strains among Egyptian chronic hepatitis C patients.	Accepted 2012	Eastern Mediterranean Health Journal

الأستاذ المساعد الدكتورناهد إبراهيم جمعة

Title	Date	Journal
1- Frequency of Isolation and Serotype Determination of Shiga-Like Toxin Producing E.coli among Patients with Diarrhea in Ismailia Area.	2000	EJMM
2. Use of PCR-SSCP for rapid Detection of Rifampin and Isoniazid resistance- associated mutations in Mycobacterium tuberculosis isolated in Suez Canal Region, Egypt.	2003	EJMM



3. Flow Cytometric analysis of the Phagocytic cells in active Pulmonary Tuberculosis.	2004	Egyptian Journal of Immunology
4. Evaluation of Mycobacterium Growth Indicator Tube and Gen-Probe Amplified Mycobacterium tuberculosis Direct test for rapid diagnosis of Mycobacterium tuberculosis in sputum specimens	2005	EJMM
5. Associations between specific antinuclear antibodies, detected by line immunoassay, and clinical features of patients with systemic lupus erythematosus	2006	EJMM
6. Multiplex PCR Assay for the Simultaneous Species Identification and Detection of Antibiotic Resistance Genes in Staphylococci Isolates.	2006	EJMM
7. Hepatitis B virus (HBV) genotypes in Egyptian pediatric cancer patients with acute and chronic active HBV infection.	2007	Virology Journal
8. Direct Molecular Identification of Malassezia Species from Skin Scales of Patients with Seborrheic Dermatitis by Nested Terminal Fragment Length Polymorphism Analysis	2007	EJMM
9. Evaluation of Neutrophil Apoptosis in Patients with Bacterial Pneumonia and Its Relation to the Severity of Infection and Types of Isolated Organisms.	2007	EJMM
10. Strain differentiation of Mycobacterium tuberculosis complex isolated from sputum of pulmonary tuberculosis patients.	2009	International journal of infectious diseases.
11. Molecular Identification of Enterococci by Multiplex PCR.	2010	Journal of Molecular diagnosis and vaccine
12. Serological Genotyping and Diagnosis by Real Time PCR in Chronic HCV Infected Patients in Ismailia.	2011	Journal of Molecular diagnosis and vaccine

13. Skin colonization by superantigen-producing Staphylococcus aureus in Egyptian patients with atopic dermatitis and its relation to disease severity and serum interleukin-4 level.	2012	International journal of infectious diseases.
14- High prevalence of Klebsiella pneumonia carbapenemases (KPCs) -mediated resistance in Klebsiella pneumonia isolates from Egypt.	Accepted 2012	Eastern Mediterranean Health Journal
15. Measurement of Efflux Pumps Expression by Relative Quantitative Real-Time Polymerase Chain Reaction in Multi-Drug Resistant Pseudomonas aeruginosa Isolated from Suez Canal University Hospital.	2013	Journal of Molecular diagnosis and vaccine
16. Seroprevalence of HDV Infection in HBsAg Positive population in Ismailia, Egypt.	Accepted 2013	Egyptian Journal of Immunology

استاذ مساعد دكتور لبنى احمد

Title	Date	Journal
1- Clinical assessment of a generic DNA amplification assay for the identification of respiratory adenovirus infections.	2003	Journal of Clinical Virology
2. Evaluation of Mycobacterium Growth Indicator Tube and Gen-Probe Amplified Mycobacterium tuberculosis Direct test for rapid diagnosis of Mycobacterium tuberculosis in sputum specimens.	2005	EJMM
3- Trends in the epidemiology of catheter-related bloodstream infection in a university Hospital in Belfast.	2006	Abstract: - Federation of Infection Societies (FIS) Meeting Cardiff, UK
4- Comparison between Serum and Whole Blood Specimens for the Detection of Candida DNA in Critically Ill Non-neutropenic	2008	Journal of Medical Microbiology

Patients.		
5- A Prospective Clinical Trial of a Real-Time PCR Assay for the Diagnosis of Invasive Candida infection in Non-neutropenic Critically-ill Adults.	2008	-Clinical Infectious Diseases(CID). -ESCMID Conference , Munich, Germany, 2007
6- Improving Molecular Detection of C. albicans DNA in Whole Blood: Comparison of Seven Fungal DNA Extraction Protocols by Using Real-Time PCR and UV Spectroscopy	2008	-Journal of Medical Microbiology. -The Fourth European Meeting on Molecular Diagnostics, the Hague, Netherlands, 2007
7- Trends in candidaemia and antifungal susceptibility in a university hospital in Northern Ireland, 2001-6.	2007	-Journal of Infection - Federation of Infection Societies (FIS) Meeting Cardiff, UK,2006
8- Rapid Differentiation between Fluconazole-Sensitive and Resistant Species of Candida Directly from Positive Blood Culture Bottles by Real-Time PCR.	2007	-Journal of Medical Microbiology. - Federation of Infection Societies (FIS) Meeting Cardiff, UK,2006
9- Direct Molecular Identification of Malassezia Species from Skin Scales of Patients with Seborrheic Dermatitis by Nested Terminal Fragment Length Polymorphism Analysis	2007	EJMM
10- Development of CMV quantitative real-time PCR assay validated on white blood cells and plasma samples from kidney transplant patients.	2008	EJMM
11- Diminished Absolute Counts of CD56dim and CD56bright Natural Killer Cells in Peripheral Blood from Egyptian Patients with	2009	-Egyptian Journal of Immunology. -Frontiers in Immunology

Hepatocellular Carcinoma.		Research International Conference , Athens , Greece, 2010
12-The impact of a PCR assay for candidemia on antifungal drug prescribing in critical care: an interrupted time series pilot study.	2010	Journal of Infection
13- Interferon Therapy Shifts Natural Killer Subsets among Egyptian Patients with Chronic Hepatitis C.	2010	The Brazilian Journal of Infectious Diseases. -Fronteirs in Immunology Research International Conference , Athens , Greece, 2010
14- T-helper type 1/T helper type 17-related cytokines in chronic hepatitis C patients before and after interferon and ribavirin therapy.	2011	Medical Principles and Practice.
15- Impact of hepatitis C virus infection on neutrophil oxidative burst function in hemodialysis patients.	2010	Egyptian Journal of Immunology
16- Susceptibility of Pseudomonas aeruginosa isolates cultured from cystic fibrosis patients to temocillin.	2010	ABSTRACT: Journal of Cystic Fibrosis
17- High prevalence of Klebsiella pneumoniae carbapenemases (KPCs) - mediated resistance in Klebsiella pneumonia isolates from Egypt	Accepted 2012	Eastern Mediterranean Health Journal (EMHJ)
18- Measurement of Efflux Pumps Expression by Relative Quantitative Real-Time Polymerase Chain Reaction in Multi-Drug Resistant Pseudomonas aeruginosa Isolated from Suez Canal University Hospital.	2013	The Journal of Molecular Diagnosis and Vaccine
19- Genotypic characterization of occult	Accepted	Eastern Mediterranean Health

hepatitis B Virus strains among Egyptian chronic hepatitis C patients.	2012	Journal (EMHJ)
20- Seroprevalence of HDV Infection in HBsAg Positive population in Ismailia, Egypt.	Accepted 2013	The Egyptian Journal of Immunology

الدكتور سحر زكريا

Title	Date	Journal
1- Rapid Detection of Cytomegalovirus DNA Infection in Plasma of Hemodialysis Patients by Real-time PCR.	2011	Egyptian Journal of Medical Laboratory Sciences
2- Role of Eotaxin Chemokine and its Receptor CCR3 in Allergic Diseases.	2012	Egyptian Journal of Medical Laboratory Sciences
3- Study of Interleukin-13 (IL-13) in Bronchial Asthma Patients.	2010	Egyptian Journal of Medical Laboratory Sciences
4- Allergen Specific Sublingual Immunotherapy (ASSIT) reduces IL-4 and enhances interferon-gamma expression by CD8+ T-cells in perennial allergic rhinitis.	2012	Canadian Society of Allergy and Clinical Immunology Annual Scientific Meeting , Calgary, Canada,
5- Efficacy of Sublingual Immunotherapy as Opposed to Cluster Immunotherapy in Respiratory Tract Allergy.	2011	The Medical Journal of Cairo University,
6- Comparative Evaluation of antimicrobial Potential of Gum Arabic and Formocresol against Microflora of Necrotic Primary Molars.	2012	Egyptian Dental Journal

الدكتور وحيد هيضم

<b>Title</b>	<b>Date</b>	<b>Journal</b>
1- Allergen Specific Sublingual Immunotherapy (ASSIT) reduces IL-4 and enhances interferon-gamma expression by CD8+ T-cells in perennial allergic rhinitis.	2012	Canadian Society of Allergy and Clinical Immunology Annual Scientific Meeting , Calgary, Canada,
2- Acute otitis media in children of Ismailia City. A bacteriological study		Egyptian Journal of Otolaryngeology
3- Immunological features of Atopic Dermatitis of different disease severity among pediatric patients in SCU hospital	2002	EJMM
4- Correlation of IL-4, IL3R among atopic dermatitis patients	2000	AAAA&I, New York, March, 2000
5- Correlation between the Disease Severity of Atopic Dermatitis AD and the Serum level of IL-4 and sIL-2R Among Egyptian children	2002	Journal of Allergy and Clinical Immunology
6- Life threatening shrimp allergy cross reacting with HDM in Egypt.	2009	XXVIII Congress of the EAACI 2009, Warszawa
7- Prevalence of Mesquite Pollen sensitization among Egyptians with different allergic diseases	2010	EAACI 2010, London

الدكتور نرمين نبيل المراعى

<b>Title</b>	<b>Date</b>	<b>Journal</b>
1- Combined immunotherapy with BCG and house dust mite vaccines in perennial allergic rhinitis.	2004	The 12th International Congress of Immunology and 4th Annual Conference of FOCIS, Montréal, Canada.
2- Effect of BCG Vaccination on Allergen Specific Immunotherapy in Perennial Allergic Rhinitis Patients.	2004	The 9th Annual conference of The Egyptian Association of Immunologists

3- CD95 Expression in Patients with Hepatocellular Carcinoma secondary to Chronic Hepatitis C.	2006	the 14th International conference of the Egyptian society for Medical microbiology (ESMM)
4- Infection Control Topics at Burn Unit.	2006	-The First Workshop of Burn October 31-November 2, 2006; Ismailia, Egypt
5- Prevalence of Surgical Site Infection (SSI) in Cardiac Care Unit in a Tertiary Care hospital.	2009	The 6th Conference of the Egyptian society for Medical Microbiology (ESMM)
6- Modality Treatment of Allergic rhinitis.	2010	The 17th International Conference of the Egyptian Society for Medical Microbiology (ESMM)

د. رانيا كشك

Title	Date	Journal
1- Genotypic characterization of occult hepatitis B Virus strains among Egyptian chronic hepatitis C patients.	Accepted 2012	Eastern Mediterranean Health Journal (EMHJ)
2- Species Identification and Pattern of Antibiotic Resistance of Enterococci Isolated From Cases of Nosocomial Infections in Suez Canal University Hospital. Egyptian.	2007	-EJMM - Conference of the Egyptian Society for Medical Microbiology (ESMM).

الدكتور سماء ابو الفتوح طه

Title	Date	Journal
1- Isolation and Identification of Acinetobacterbaumannii from cases of Nosocomial Infections in Suez Canal	2007	Abstract : EJMM

University Hospital.		
2- Comparison between the Real-time Polymerase Chain Reaction and Ziehl – Neelsen Microscopy for Direct Detection and Identification of Mycobacterium Tuberculosis complex.	2012	Abstract: Medical Journal of Cairo University
3- Evaluation of the Real-time Polymerase Chain Reaction using Internal Transcribed Spacer Primers for Direct Detection and Identification of Mycobacterium Tuberculosis complex.	2012	-Abstract: Medical Journal of Cairo University. - The 18th International Conference of the Egyptian Society for Medical Microbiology (ESMM).

## جدول النشاطات العلمية

### اللقاء العلمي للقسم

اعضاء قسم يجتمعوا يوم الاثنين من كل اسبوع، من الساعة 2:00 الي 12:00 لمناقشة المواضيع ذات الاهتمام مؤخرا في علم الأحياء الدقيقة وعلم المناعة.

### جلسات الدراسات العليا:

تعقد جلسات أسبوعية في قسم:

- الأحد من 9,5-2، اربع محاضرات في علم المناعة، وعلم الفيروسات. البيولوجيا الجزيئية وعلم الجراثيم النظامية.

- الاثنين من 9,5-2، ثلاث محاضرات في علم الأحياء الدقيقة وعلم المناعة التطبيقية وعلم الأحياء المجهرية وعلم الفطريات .

- الثلاثاء 11-1 جلسة المختبر.

### الساعات المكتبية لأعضاء هيئة التدريس

- محاضرين والمعيدين متوفرون في قسم ساعتين يوميا للاستفسارات الطلبة الجامعيين.

- الأساتذة والأساتذة المساعدين متوفرون ساعتين لمدة يومين وفقا لجدول المعروف.



## الاتصال بنا

قسم الميكروبيولوجي والمناعة

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