

## **Fatma Alzahraa Mohamed Hassan Gomaa , Ph.D.**

Associate Professor of Microbiology & Immunology  
Department of Pharmacognosy & Medicinal Herbs  
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### EDUCATION

**PhD in Microbiology & Immunology**, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt, 2006.

**MS in Microbiology & Immunology**, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt, 2003.

**BS in Pharmaceutical Sciences**, Al-Azhar University, Cairo, Egypt, 1998.

### PROFESSIONAL POSITIONS

**Associate professor**, department of Pharmacognosy and Medicinal Plants, Faculty of Clinical Pharmacy Al-Baha University, Feb 2019-Present.

**Professor**, Department of Microbiology and Immunology, Faculty of Pharmacy, Egyptian Russian University, November, 2018- Feb 2019.

**Ass. professor**, Department of Microbiology and Immunology, Faculty of Pharmacy, Egyptian Russian University, March, 2014- November, 2018.

**Ass. professor**, Department of Microbiology and Immunology, Faculty of Pharmacy, Al- Azhar University, December, 2011 - Feb. 2014.

**Ass. Professor (part time)**, Department of Microbiology and Immunology, Faculty of Pharmacy, Misr international University (MIU), December, 2011 - Feb. 2014.

**Lecturer**, Department of Microbiology and Immunology, Faculty of Pharmacy, Faculty of Pharmacy, Al-Azhar University, November 2006-December, 2011.

**Lecturer (part time)**, Department of Microbiology and Immunology, Faculty of Pharmacy, Misr international University (MIU), Feb. 2010-December, 2011.

**Assistant lecturer**, Department of Microbiology and Immunology, Faculty of Pharmacy, Al- Azhar University, June 2003- November 2006.

**Teaching assistant**, Department of Microbiology and Immunology, Faculty of Pharmacy, Al- Azhar University, May1999-May2003.

**Pharmacist**, Ministry of health, Cairo, Egypt, 1998-1999.

## PROFESSIONAL MEMBERSHIPS

- Member**, Arab Association for infectious diseases and antimicrobials
- Member**, Egyptian Society of Medical Microbiology
- Member**, Egyptian Association for Biotechnology
- Member**, Egyptian Association for Biochemistry and Molecular biology
- Member**, Egyptian Society of Tumor Markers Oncology

## PEER-REVIEWED PUBLICATIONS

- Mohab M. Shalaby, Reham Samir, **Fatma Al-Zahraa M. Goma**, Mohammed A. Rammadan (2021). Enhanced fusidic acid transdermal delivery achieved by newly isolated and optimized *Bacillus cereus* Keratinase, *Biotechnology Reports*, e00620, ISSN 2215-017X, <https://doi.org/10.1016/j.btr.2021.100620>.
- Hala B. Othman, Rania M. Abdel Halim, **Fatma Alzahraa M. Gomaa**, Malaka Z. Amer (2019). Vancomycin MIC Distribution among *Staphylococcus aureus*. Is Reduced Vancomycin Susceptibility Related To MIC Creep. *Maced J Sci.* Jan 15; 7(1): 12-18.
- Hoda M. Sroor, Ahmed M. Hassan, Geraldine Zenz, Paulina Valadez-cosmes, Aitak farzi, Peter Holzer, Amany el-Sharif, **Fatma Al-Zahraa M. Gomaa**, Julia Kargl & Florian Reichmann (2019). Experimental colitis reduces microglial cell activation in the mouse brain without affecting microglial cell numbers. *Scientific Reports*, 9:20217. <https://doi.org/10.1038/s41598-019-56859-0>.
- Salwa S. I. Afifi, **Fatma Alzahraa M. Gomaa**, Lamia F. Fathi, Fatma S. Rasslan, and Ahmed M. Hamdy (2018): Diagnosis of *Clostridium difficile* infection in patients with hospital-acquired diarrhea. *Korean Journal of Microbiology* Vol. 54, No. 3, pp. 214-221.
- Fatma AL-Zahraa M. Gomaa**, Hala M. Hafez, Ahmed Al Anwar and Noreen I. El-Metwally (2017). Diagnosis of Bacterial Vaginosis among Symptomatic Egyptian Women: Value of Assessing Bacterial Sialidase Activity. *Int J Curr Microbiol App Sci* 6(4): 906-917.
- Hala Mahmoud Hafez, Dalia H Abd El Hamid, Dina Tarek and **Fatma Al-Zahraa M. Gomaa** (2017). Resazurin Microplate Assay: Rapid Assay for Detection of Methicillin Resistant *Staphylococcus aureus*. *Int J Curr Microbiol App Sci* 6 (4): 174-181.
- Fatma Alzahraa M. Gomaa**, Zeinab H. Helal and Mazhar I. Khan (2017). High Prevalence of blaNDM-1, blaVIM, qacE, and qacED1 Genes and Their Association with Decreased Susceptibility to Antibiotics and Common Hospital Biocides in Clinical Isolates of *Acinetobacter baumannii*. *Microorganisms*, 5, 18 doi:10.3390/microorganisms5020018.
- Ahmed F. Mohamed, **Fatma AL-Zahraa M. Gomaa**, Sahar M. Ramzy, Moselhy S. Mansy, Tharwat R. EL-Khemisy and Mohamed S. Eldin Ashour (2017). Screening and inhibition of N-Acyl homoserine lactone signal molecules produced by some Gram negative rods isolated from Egyptian hospitals. *N Egypt J Microbiol.* Vol. 47: 1- 11.
- M.S.E. Ashour, W. N. ElTayab, **F.M. Gomma** and E. Abd ElLateif (2015). Significance of IL8 and different Biomarkers for Rapid Diagnosis of Spontaneous Bacterial Peritonitis in Cirrhotic Patients. *N Egypt J Microbiol.* Vol. 48: 102-120.

- Yehia S Mohamed, Kamel A El Ghareeb, **Fatma A Gomma** and Eman Y Abu-rish (2015). In Vitro Generated Tumor/APC Hybrids Induced Allogeneic Tumor-Killer T Cells. EC Microbiology; 2(3): 296-306.
- Fatma Al-Zahraa M. Gomma**, Wael M. Tawakol and Fatma I. Abo El-Azem (2014). Phenotypic and molecular detection of Extended-Spectrum  $\beta$ -lactamase Producing Acinetobacter baumannii among immune-compromised patients. N Egypt J Microbiol. Vol. 37: 73- 85.
- Fatma Al-Zahraa M. Gomma**, Wael M. Tawakol and Fatma I. Abo El-Azm (2014). Phenotypic and genotypic Detection of Some Antimicrobial Resistance Mechanisms among Multidrug-Resistant Acinetobacter baumannii Isolated from immunocompromised Patients in Egypt. . EJMM, Vol.23, No.4:99-111.
- Omran M.E., **Gomma F.M.**, Hayder W.A., Ali N.K., Afifi S.S., Ashour M.S. (2013). Central Venous Catheter-Related Infections In The Intensive Care Units In Egypt. Life Science Journal; 10 (2):823-834.
- Wafaa N. El-tayab, **Fatma Alzhraa M. Gomma** (2012). Rapid identification and antimicrobial susceptibility profiling of anaerobic bacteria in clinical specimens. EJMM, Vol.21, No.3:29-39.
- Zein ab H. Hela I, **Fatma Alzahraa M. Gomma** and Sahar M. R. Radwan (2012). New Rapid Method for Differentiation of MRSA and SSA by PCR Restriction Analysis of 920bp of dnaJ gene. Journal of American Science; 8 (12): 832-37.
- El-Sharif, A. and **Gomma, F. A.** (2011). Multiplex PCR Assay for rapid Detection of some virulence factors and Antibiotic Resistance Genes in clinical isolates of Staphylococcus aureus. . EJMM, Vol.20, No2: 71-76.
- Gomma, F.A.** and Helal, Z. (2011). Phenotypic Characterization and ERIC-PCR Typing of MDR Acinetobacter species in Egypt. EJMM, Vol.20, No1: 175-181.
- Gomma, F.A.** and Shehata, M. K. (2011). Diagnostic parameters for spontaneous bacterial peritonitis in Egyptian patients with and without underlying malignancies. Archives Of Clinical Microbiology. Vol. 2 No. 4:4, doi: 10:3823/236. available from: <http://www.acmicrob.com>.
- Al-Mahdy, Y.F.; **Gomma , F.A.**; Mohamed Motawea, I.T.; Gawish A.S. (2011). An In vivo and In vitro evaluation of the effectiveness of different denture cleansing methods on microorganisms and surface roughness of acrylic resin. EJMM, Vol.20, No3: 23-34.
- Shehata, M. K.; **Gomma, F.A.** and Helal, Z. (2011). Effects of gamma and electron beam irradiation on viability and amplifiable DNA elimination of Staphylococcus aureus. N. Egypt. J. Microbiol. Vol. 29, May, 151-165.
- Helal, Z.; **Gomma, F. A.** and Shehata, M. K. (2010). Effect of low dose of gamma radiation on multidrug resistant Mycobacterium tuberculosis. Journal of American Science 2010;6 (10):774-780]. (ISSN: 1545-1003).
- Hafez, H. M. and **Gomma, F.A.** (2010). Susceptibility to commonly used biocides and prevalence of the biocide resistance genes among clinical isolates of methicillin-resistant staphylococcus aureus. AJ Lab Med, 38:1.

## POSTER PRESENTATIONS PRESENTED AT PROFESSIONAL MEETINGS

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Certificate for participation with a Poster presentation in the 1st International Conference of Pharmaceutical and Medical sciences. April, 1-2, 2017 at Dusit Thani Hotel, Lakeview, 5th Settlement, New Cairo, Egypt.

Certificate for participation and presenting paper as a Poster entitled: Diagnostic Performance of Rapidic CarbaNP in Detection of Carbapenemase Production in *Acinetobacter baumannii* in the 1st Annual Arab International Pharmacy Conference. March30-April, 1st, 2017 at Intercontinental Hotel City Star, Cairo, Egypt.

Certificate for presenting paper as a Poster entitled: Integrating rational medicine: "Honey" a modern strategy to combat multiple drug resistant bacteria causing burn wound infections in critically ill patients in Al-Azhar 5th International Conference of Pharmaceutical Sciences and Drug Industries (AICPD). September, 13th – 15th 2017 at Tia Heights Hotel, Hurghada, Egypt.

Certificate of participation in organization of the 1<sup>st</sup> International conference of Faculty of Pharmacy, Egyptian Russian University. 28-29 April 2018, Air Defense Hotel, Cairo, Egypt.