

CURRICULUM VITAE

PERSONAL DETAILS:

- **Name:** Ghada Fahmy Helaly
- **Department:** Microbiology
- **Date of Birth:** 12/12/1965
- **Country of birth:** Alexandria, EGYPT
- **Job:** Head of Microbiology Department
- **Languages:**
 - ▣ **Arabic:** Mother-tongue
 - ▣ **English:** Fluent
 - ▣ **French:** Fair

CONTACT

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AFFILIATION

Microbiology Department, Medical Research Institute, Alexandria University
Alexandria, EGYPT.

QUALIFICATIONS

- **Ph.D. in Public Health (Microbiology)**, High Institute of Public Health, Alexandria University, Alexandria, Egypt, **2000**.
- **Master in Public Health, M.P.H. (Microbiology)**, High Institute of Public Health, Alexandria University, Alexandria, Egypt, Grade: Excellent, **1996**.
- **M.B. Ch. B.** Faculty of Medicine, Alexandria University, Alexandria, Egypt, Grade: Very good with honor, **1989**.

APPOINTMENTS

- **Head of Microbiology Department**, Medical Research Institute, Alexandria University, Alexandria, Egypt. (**Dec. 2011- present**)
- **Professor of Microbiology**, Department of Microbiology, Medical Research Institute, Alexandria University, Alexandria, Egypt. (**Nov. 2011- present**).
- **Assistant Professor of Microbiology**, Department of Microbiology, Medical Research Institute, Alexandria University, Alexandria, Egypt. (**Nov. 2006- Nov. 2011**).
- **Lecturer**, Department of Microbiology, Medical Research Institute, Alexandria University, Alexandria, Egypt (**2000- Nov. 2006**).
- **Assistant Lecturer**, Department of Microbiology, Medical Research Institute, Alexandria University, Alexandria, Egypt (**1996- 2000**).
- **Demonstrator**, Department of Microbiology, Medical Research Institute, Alexandria University, Alexandria, Egypt (**1991 -1996**).
- **Physician (General practitioner)** in the Ministry of Health Hospitals, Alexandria, Egypt, **from 1/3/1991 to 2/11/1991**.
- **House officer** in Alexandria University Hospitals, Alexandria, Egypt: For one year, **from 1/3/1990 to 29/2/1991**.

COURSES, MEETINGS & CONFERENCES

- WHO scholarship on infectious diseases, Switzerland, 2000.
- Training in the department of virology, Hannover Medical school, Hannover, Germany, 1998, learning the technique of culturing different cells for the presence of viruses in specimens of patients, principles of PCR qualitative and quantitative, cloning and sequencing techniques, and electromicroscopic examinations for the detection of viruses .
- Clinical Virology Course, organized in the framework of the Egyptian- Italian Cooperation project: Epidemiology, Diagnosis, Management (Special Emphasis on Herpes Viruses and HIV)", at the Medical Research Institute, University of Alexandria, June, 21-26, 1995.
- Co-investigator in the activities of Egyptian- Italian Cooperation project during the period 1993-1996.
- **Participation in Conferences:**
 - International conferences held in Europe and North America.
 - International conferences of the Egyptian Society of Medical Microbiology (ESMM 2003). Held annually.
 - International Conferences of medical Research Institute (MRI)
 - Annual conferences of Medical Research Institute Held annually.
 - Annual Specialized Scientific Conference “ Recent Advances in Laboratory Medicine” of the Egyptian medical syndicate, Alexandria- Egypt, held annually
 - Symposia of the scientific committee of Medical Research Institute held monthly.
 - Symposium of Liver diseases at Crossroads of Civilizations (bibliotheca Alexandrina)

- **Workshops:**

- Molecular evolution and Phylogeny of infectious diseases the Medical Technology Center for Researches and Services (Cooperazione italiana), Medical Research Institute, University of Alexandria, Alexandria- Egypt, 19-21 /3/ 2012.
- Introduction to molecular biology techniques the Medical Technology Center for Researches and Services (Cooperazione italiana), Medical Research Institute, University of Alexandria, Alexandria- Egypt, (26-29 /2/ 2012)
- Egyptian- Danish workshop “Nanoscience and nanotechnology at a glance”, National Research Center, Cairo, Egypt- Pharos University, Alexandria. 2009
- workshop on "Bioinformatics", the Regional Centre for Women's health and Development, Alexandria- Egypt, 2008.
- The Research Ethics Workshop, the 26th Annual Summer meeting of the Egyptian Society of Surgeons [ESS], Egyptian Group of Surgical Science and Research [EGSSR] in collaboration with Egyptian Society of Healthcare development [ESHD], Alexandria-Egypt, 2008.
- "Basic Molecular Biology: PCR techniques, the Medical Technology Center for Researches and Services (Cooperazione italiana), Medical Research Institute, University of Alexandria, Alexandria- Egypt, 6-11/5/ 2006
- Faculty and leadership development courses.

SUPERVISION OF THESIS

- Ph D Thesis: 3
- Master Thesis: 15

EXPERIENCES

- Teaching in the postgraduate programs “Master and Doctorate degrees in Diagnostic Molecular Microbiology” and “Infection Control” in the Medical Research Institute, Alexandria University.
- Research experience in:
 - Study of the epidemiology of HIV and hepatitis viruses in Egypt.
 - The interaction between hepatitis B and C viral infection and virus-host interactions.
 - Molecular diagnosis of infections.
 - Hepatocellular carcinoma (HCC).
 - *H. pylori* infection, molecular diagnosis of its virulence factors.
 - Genes of multidrug resistant bacterial strains.

PUBLICATIONS:

1. Elkaradawy SA, Helaly GF, Abdel Wahab MM Effect of an infection control educational programme on anaesthetists' attitude and anaesthetic field bacterial contamination. *Egyptian Journal of Anaesthesia* 2012; 28: 149–156.
2. Helaly GF, Gaber N, El-Refai W, Ibrahim M. Relation of Serum Insulin- like Growth Factor-1 (IGF-1) Levels with Hepatitis C Virus Infection and Insulin Resistance. *Translational Research* 2011; 158 (3): 155-162.
3. Helaly GF. Differences in circulating MMP-9 levels with regard to viral load and AST: ALT ratio between chronic hepatitis B and C patients. *British Journal of Biomedical Science* 2011; 68(1):38-42.
4. El-Banna TE, Abd El-Aziz AA, Sonbol FI, Helaly GF, Louise NL. Detection of Biofilms and Their interaction in Wound Infection: Role of N-Acyl Homoserine lacton and Other Virulence Factors in Enhancement of Biofilm formation. *Egyptian J of Medical Laboratory sciences*. 2011; 20(1): 1-14.
5. Helaly GF, Louise NL, Abd El-Aziz AA, Sonbol FI, El-Banna TE. Dexpanthenol and propolis extract in combination with local antibiotics for treatment of Staphylococcal and Pseudomonal wound infections. *Archives of Clinical Microbiology* 2011 Vol. 2 No. 4:3 Doi: 10:3823/235
6. Helaly GF, Abou-Shleib H, Fanaki NH, Abdel Kader O, Nassef GH. Potential Co-prevalence of Plasmid-Mediated Quinolone Resistance Determinant *qepA* and 16S rRNA Methylase *rmtB* among *E. coli* Clinical Isolates from Alexandria- Egypt. *The Journal of the Egyptian Public Health Association* 2010, 85 (5, 6): 247-272.
7. Helaly GF, El-Afandy NM, Abdel-Aal S, Sharaf SM, Sheta M, Dowidar N, Hassan AA. *Helicobacter pylori* infection: Risk of Presence of *cagA*, *vacAs1* and *iceA* (*iceA1* and *iceA2*) Genotypes in Egyptian Dyspeptic Patients with Gastroduodenal Diseases. *Journal of Molecular Diagnosis and Vaccines* 2010; 8: 47-56.
8. Helaly GF, El-Afandy NM, Dowidar NL, Hassan AA, sharaf SM. Diagnostic value of housekeeping [GlmM] gene expression in antral biopsies in comparison to rapid urease test and histological detection of *Helicobacter pylori* infection. *The Egyptian Journal of Medical Microbiology* 2009; 18(4):119-130.
9. Venturi G, El-Sawaf G, Arpino C, madeddu G, Fiorentini C, Benedetti E, Marchi A, Helaly G, El Ghazouly K, Ghazal A, Farchi F, Soddu A, Cacciatore D, El Zalabani M, Mura MS, Rezza G, Ciufolini MG. Arboviral infections in Egyptian and Sardinian children and adults with aseptic meningitis and meningo-encephalitis. *Scand J Infect Dis*. 2009; 41(11-12):898-9.
10. Helaly GF, El-Afandy NM. Influence of HCV Infection on Insulin like Growth Factor-1 and Proinflammatory Cytokines: Association with Risk for Growth Hormone Resistance Development. *The Egyptian Journal of Immunology* 2009; 16(2): 115-124.
11. Helaly GF. Impact of hepatitis B viral load on serum IL-6, MMP-9 and alpha-fetoprotein levels and their correlation with liver injury in chronic hepatitis B infection. Proceedings of the 7th Joint Meeting of the International Cytokine Society and the International Society for Interferon and Cytokine Research, Cytokines.
12. Helaly GF, Abou Shamaa LA. Evaluation of Hepatitis C Viral Load in Association with Serum TGF- β 1 and Retinol Binding Protein and Their Role in Hepatitis C Virus Infection and Hepatocellular Carcinoma. *The Egyptian Journal of Medical Microbiology* 2006; 15: 317-324.
13. Helaly GF, Abou Shamaa LA. Influence of Hepatitis C Virus Infection on Circulating Levels of sICAM-1 and VEGF in Patients with Hepatitis C and Hepatocellular Carcinoma [HCC] and Their Role in Enhancing Detection of HCC. *The Egyptian Journal of Immunology* 2006; 13: 27-38.

14. El-Ghazzawi EF, Kandil SM, Helaly GF. Chronic Helicobacter pylori infection among menopausal Egyptian women with ischemic heart diseases. *New Egyptian Journal of Microbiology* 2006; 13: 188-199.
15. El-Karadawy SA, Helaly GF. Efficacy of The Iso-Gard High Efficiency Particulate Airborne [HEPA] Light Breathing Filter in Preventing Cross Contamination Through Anesthesia Breathing Circuits. *Alexandria Journal of Anaesthesia and Intensive Care* 2005; 8: 42-48.
16. Helaly GF, Mahmoud MM. Diagnostic value of alpha-Glutathione S-Transferase as a sensitive marker of increased risk for hepatocellular damage in hepatitis C Virus (HCV) Infection: Relation to HCV viraemia. *The Journal of the Egyptian Public Health Association* 2003; LXXVIII: 209-223.
17. Helaly GF, Abou Shamaa L.A. Tumor Necrosis Factor-alpha in hepatitis C virus infection: A correlation with viral activity and serum aminotransferases. *The Egyptian Journal of Immunology* 2002; 9: 89-94.
18. Helaly GF, Omar AA, Badran FK, Youssef NE, Metwally DE. Tinea Capitis among Alexandria Primary School Children in Light of Non-Traditional Sampling Methods. *Bulletin of Alexandria Faculty of Medicine* 2001; XXXVII: 323-331.

ADDITIONAL INFORMATION

- Alexandria University Award (2007).
- Course coordinator for Medical Virology and Special topics in Microbiology for the postgraduate programs “Master of Science in diagnostic and molecular microbiology” and Advanced Medical Virology and Special topics in Microbiology I for the postgraduate programs “Doctorate of philosophy in diagnostic and molecular microbiology”
- Member of the Egyptian Society for Medical Microbiology.
- Member of the Egyptian Association of Immunologists [membership in the International Union of Immunologists (IUIS)].
- Member of the Egyptian Society for Infection Control (ESIC), a chapter of Association for Professionals in Infection Control and Epidemiology (APIC).
- Member of Organizing Committee of Medical Research Institute Conferences 2008-2010
