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OBJECTIVE:

I am a competent microbiologist with an excellent background in bacterial identification techniques, antimicrobial resistance mechanisms, and excellent expertise in different molecular biology techniques. I also have been involved in University teaching for more than 17 years, with large experience in lecturing and dealing with students (under- and post-graduates).

PERSONAL INFORMATION:

- Date of Birth: 15th September, 1976
- Marital Status: Married

LANGUAGES:

- English and Arabic

EDUCATION:

- 2006 – 2010** PhD Degree in Molecular Biology, Sheffield University, UK
Thesis Title: "The role of tetraspanins in infection by intracellular pathogens"
Supervisor: Lynda J Partridge
- 2002-2004** M.Sc Faculty of Medicine, Minia University, Egypt
Thesis Title: "A study on acute bacterial conjunctivitis in children in Elminia governorate"
Supervisors: Prof. Amgad Ibrahim, Prof. Mahmoud Shukry and Dr Sahar Aboueloyoun.
- 1993 – 1999** MBBCh, Faculty of Medicine, Minia University, Egypt

WORK EXPERIENCE

- 2017- to date:** Year 1 Coordinator for the Integrated Medical Curriculum, Faculty of Medicine, Minia University
- 2016 – date :** Ass. Professor Of Medical Microbiology and Immunology, Faculty of Medicine, Minia University
- 2011 – 2016:** Lecturer Of Medical Microbiology and Immunology, Faculty of Medicine, Minia University
- 2006 – 2010:** PhD Student at the University of Sheffield
- 2004-2006:** Assistant lecturer Of Medical Microbiology and Immunology, Faculty of Medicine, Minia University
- 2001-2004:** Demonstrator Of Medical Microbiology and Immunology, Faculty of Medicine, Minia University.

DISTINCTIONS AND AWARDS:

- **2006:** Scholarship from the Ministry of Higher Education, Egypt to study for Ph.D. degree in Molecular Biology.
- **2017 and 2018:** Awards of International Scientific Publication, Minia University, Minia, Egypt.

RESEARCH TECHNIQUES AND INTERESTS:

- PCR (conventional and real-time PCR)
- DNA cloning and transfection
- Western Blotting
- Flow-cytometry
- Tissue Culture and fluorescent microscopy
- Confocal Imaging

RESEARCH EXPERIENCE:

- **2011-Date:** Supervision for postgraduate students (PhD and M.Sc) in Medical Microbiology and Immunology
- **2006-2010:** Ph.D. student, Molecular Biology and Biotechnology, University Of Sheffield, UK.

COURSES AND WORKSHOPS

- Websites Design Workshop, Center of Computer and Information Technology, Minia University, Minia , Egypt (2016)
- Strategic Planning Workshop, Faculty Development & Leadership Center, Minia University, Minia, Egypt. (2015)
- Exam Preparation and Evaluation Workshop, Faculty Development & Leadership Center, Minia University, Minia, Egypt. (2015)
- Research Ethics Workshop, Faculty Development & Leadership Center, Minia University, Minia, Egypt. (2015)
- Novel Approaches for Effective Teaching , Center of Computer and Information Technology, Minia University, Minia , Egypt. (2014)
- International Publications Workshop, Faculty Development & Leadership Center, Minia University, Minia, Egypt. (2014)
- Effective Presentation Skills Workshop, Faculty Development & Leadership Center, Minia University, Minia, Egypt. (2011)
- Effective Teaching Skills Workshop, Faculty Development & Leadership Center, Minia University, Minia, Egypt. (2011)
- Bio-Statistics course, Sheffield University (2009)
- International Computer Driving License (ICDL), Center of Computer and Information Technology, Minia University, Minia, Egypt (2006)

INTERNATIONAL PUBLICATIONS:

- Phenotypic and Genotypic Characterization of Extended Spectrum Beta-lactamases- Producing Enterobacteriaceae in Asymptomatic Bacteriuria in Pregnancy. Mariam Youssif, Hazim Rizk and **NA Hassuna**. Microb. Drug. Resist. 2019: doi.org/10.1089/mdr.2018.0088.
- High incidence of MBL-mediated imipenem resistance among Pseudomonas aeruginosa from surgical site infections in Egypt. Raouf MR, Sayed M, Rizk M, **Hassuna NA**. J. Infect. Dev. Ctries. 2018; 12 (07): 520.
- Phylogenetic Analysis of Torque Teno Virus in Thalassemic Children in Egypt. **Hassuna NA**, Naguib E.Abdel-Fatah M. Mousa S.M.O. Intervirolo. 2017; 60: 102.
- A role for the tetraspanin proteins in Salmonella infection of human macrophages. **Hassuna NA**, Monk PN, Ali F, Read RC, Partridge LJ. J Infect. 2017 Aug;75(2):115.
- Molecular Detection of the Virulent ExoU Genotype of Pseudomonas aeruginosa Isolated from Infected Surgical Incisions. **Hassuna NA**. Surg. Infect. 2016;7:21.
- Interleukin-10. rs1800896 and Interleukin-18. rs1946518 gene polymorphisms could not predict the outcome of hepatitis C virus infection in Egyptian patients treated with pegylated interferon plus ribavirin. Abdelraheem WM, **Hassuna NA**, Abuloyoun SM, Ghany HMA, Rizk HA, Abdelwahab SF. Arch. Virol. 2016; 161 (9):2473.
- Fluoroquinolone-Resistant Sequence Type 131 Subgroups O25b and O16 Among Extraintestinal Escherichia coli isolates from Community-Acquired Urinary Tract Infections. Hefzy EM and **Hassuna NA**. Microb. Drug Resist. 2016; 23(2):224.
- Polymorphisms at IL28B gene as predictors of viral relapse in genotype 4 Egyptian hepatitis C patients. Esmail MA, **Hassuna NA**, Amr KS, Ghazawy ER, Abdel-Hamid M. J Med. Virol. 2016; 88 (3): 481.
- High Prevalence of Multidrug Resistant Pseudomonas aeruginosa Recovered from Infected Burn Wounds in Children. **Hassuna NA**, Mohamed AHI, Abo-Eluoon SM, Rizk HA. Archives of Clinical Microbiology 2015; 6 (4)
- Prevalence of Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) Infections and their Co-infection among Blood Donors in Minia Governorate, Egypt. **Hassuna NA**, Mohamed ZM, Abo-Eluoon SM, Abdel-Hamid M. British Journal of Medicine and Medical Research 2015; 5 (8): 987.
- Strategies for targeting tetraspanin proteins. **Hassuna NA**, Monk PN, Moseley GW, Partridge LJ BioDrugs 2009; 23 (6): 341.

IN THE WRITING STAGE:

- Expression of efflux pump genes in Carbapenem-resistant P.aeruginosa. **NA Hassuna** and Riham Ali
- Molecular epidemiology of a K.pneumoniae outbreak in a neonatal unit. **NA Hassuna**, M Abdelrazik and Reem Abdelsalam.

ONGOING RESEARCH:

- Expression of CD81 on B cells in HCV infected patients receiving the Daclatasvir. **NA Hassuna** and M Yehia
- B regulatory cells in H. pylori infection. **NA Hassuna** and Sahar Shaban.

SCIENTIFIC CONFERENCES AND SYMPOSIUMS:

- The role of tetraspanin proteins in macrophage uptake of Salmonella bacteria. **Hassuna NA**, Monk P, Read R, Partridge L. IMMUNOLOGY 2010; 131:80

MEMBERSHIP:

- **American Society of Microbiology.**
- **Egyptian Society For Medical Microbiology**
- **Microbiology Society (British Society)**

TEACHING EXPERIENCE:

1. Undergraduate Courses:

- General Bacterial structure.
- Microbial Genetics.
- Antimicrobial resistance mechanisms
- Systemic bacteriology and Virology.

2- Postgraduate course:

- *Molecular Biology course Course.*
- DNA and RNA structure
- Control of Gene expression
- DNA sequencing
- DNA amplification Techniques
- Regulatory RNAs.
- Molecular typing techniques.

ADMINISTRATIVE POSITIONS:

- **2017- Date:** Co-ordinator of First-Year Medical Students integrated Medical curriculum.
- **2012- Date:** Co-ordinator of Molecular Biology Post-graduate course.

REFERENCES

Lynda J Partridge
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