

CURRICULUM VITAE

Mohammed Al-Hindawi

Career Interests: Biotechnology, Research, Bioinformatics, Data Analysis, Laboratory Research, Plant and Animal Tissue Culture, Stem Cells, DNA analysis, PCR, Genetics, Environmental Biotechnology, Genomic and plasmid DNA Isolation.

Nationality: Jordanian

Date of Birth: 09/06/1980

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Highlights of Qualifications

- Strong knowledge of theoretical and practical introduction to a wide range of biotechnology techniques that are commonly used in medical science, industrial and food microbiology, environmental science, fermentation process, and research.
- 3 years of Performing various diagnostics tests and community health screening tests in PCR lab.
- Plant tissue culture technique.
- Teaching different biology courses for science, business, and medical students.

Education

1- **M.Sc.**, Biotechnology, university of western Sydney, Sydney-Australia, (2010).
Master Thesis Title: "The effect of chemical mutagen on Begonia Rex."

2- **B.Sc.**, Biotechnology & Genetic Engineering, Jordan University of Science & Technology (JUST), (2002).

Major Research Projects:

- 1- **"Synthesis, Characterization and Anti-bacterial activity of Graphene Containing Silver Nanoparticles Using Microwave Irradiation"**.
- 2- **"The effect of chemical mutagen on Begonia Rex."**

❖ **Patents:**

Inventors:

Edreese Housni Alsharaeh, Mohammad Ateeq Aldosari, Ali Abdel-Rahman Mohammad Othman, Mohammed Faour Qasem Al-Hindawi, Khaled Bin Bandar Alsaud
Publication date: 2014/2/16
Patent office: US
Application number: 14/181,698

❖ **Publications:**

1- Novel route for the preparation of cobalt oxide nanoparticles/reduced graphene oxide nanocomposites and their antibacterial activities

Edreese Alsharaeh, Yasmin Mussa, Faheem Ahmed, Yazeed Aldawsari,
Mohammed Al-Hindawi, Garwin Kim Sing.

(<http://www.sciencedirect.com/science/article/pii/S0272884215020416>)

2- Alsharaeh E. H., Bandar K. B., *Al-Hindawi M.F.*, Othman A. Ali., Senok A., Sing, K, G., Rapid Microwave-assisted Synthesis of Silver Nanoparticles and Reduced Graphene Oxide/Silver Nanocomposites: A Comparative Study of their Antibacterial Activity in *Escherichia coli*. (submitted for approval)

3- Alsharaeh E. H., Othman A. Ali, *Al-Hindawi M. F.* Novel Antimicrobial Polymer-Graphene-Metal Nanocomposite (In prep.).

❖ **Posters:**

- 1- synthesis, characterization and antibacterial activity of reduced holey graphene** POSTER COMPETITION KAUST RESEARCH CONFERENCE: APPLIED FUNCTIONAL MATERIALS CHEMISTRY October 27-2014
(abeer alsaud, Yazeed aldawsari, ***Mohammed Al-Hindawi***, garwing sing, Edreese H. Alsharaeh).
- 2- Antibacterial Properties of Gold Nanoparticles and Gold/Reduced Graphine Oxide Nanocomposites** POSTER COMPETITION KAUST RESEARCH CONFERENCE: APPLIED FUNCTIONAL MATERIALS CHEMISTRY October 27-2014 (Sarah Alazzam, Yasmin Mussa, Nishat Arshi, ***Mohammed Al-Hindawi***, Edreese H. Alsharaeh).

- 3- Bandar K. B., *Alhindawi M. F.*, Othman A. Ali, Alsharaeh E. H. Synthesis, **Characterization and Antibacterial Activity of Graphene Containing Silver Nanoparticles Using Microwave Irradiation ACS Conference – New Orleans, USA**, 7-11 Apr, 2013.

References:

- 1- Dr. Edrees Alsharaeh, Associate Professor of Chemistry, college of science (ALFAISAL UNIVERSITY-RIYADH-KSA). EAlsharaeh@alfaisal.edu
- 2- Dr. Garwin Kim Sing, Associate Professor of Microbiology and Immunology, college of medicine (ALFAISAL UNIVERSITY-RIYADH-KSA). GKsing@alfaisal.edu
- 3- Dr. George Kulik, Associate Professor of Cancer Biology, , college of science (ALFAISAL UNIVERSITY-RIYADH-KSA). GKulik@alfaisal.edu.

Professional Experience:

1- PCR specialist-ministry of health lab (Jordan). July 2004 till Sep 2007.

Job description:

- 1- Blood samples separation.
- 2- DNA & RNA extraction from serum using many extraction kits such as: ROCHE, Qiagen.
- 3- Master Mix preparation.
- 4- Gel electrophoresis.
- 5- Performing various genetics and viral diseases by:
 - A- Conventional PCR like: WN, EV, VZV, HSV, EBV, Factor II, factor V, MTHFR, and TB.
 - B- Real Time PCR like: Quantitative H5N1, HIV, HBV, HCV.
 - C- Viral genotyping: HCV Genotyping by real time PCR.
- 6- Detection many viral diseases by using ELIZA.

2- Part time lecturer-Jordan University of Science and Technology. Sep 2011 till Jan2011.

Job description:

1- Teaching General Biology lab (B107) includes following labs:

A- The microscope. B- The cell. C- Plant tissues and organs. D-animal tissues and organs
E- Cellular respiration and fermentation. F- Biological molecules.

2- Teaching General Microbiology lab (B232) includes following labs:

A-Culture transfer technique B-bacterial smears C-bacterial staining D- Biochemical activities.

3- Biology Lab Instructor. Alfaisal University-KSA. March 2011- Present.

Job description:

Teaching the following courses:

A- Introduction to Biology. B- General biology lab
C- Molecular biology lab D- Microbiology lab. E- Human physiology lab.

SKILLS & ABILITIES

- 1- Microbial Genetics: Transduction, Conjugation, PCR.
- 2- Molecular Biology: Separation of genomic DNA, Plasmid DNA using Agarose gel electrophoresis, Separation of proteins using SDS PAGE, and RNA extraction.
- 3- Tissue Culture: Callus, Cell Suspension and Protoplast culture technique.

PERSONAL CHARACTER

- 1- Skillful in leadership of work teams through increasing their production by encouraging them to accept the challenge and be a real team.
- 2- The ability to analyze the Problems & propose Solutions.
- 3- Work under pressure.
- 4- Effective Communication skills with all the concerned parties.
- 5- Background of preparing Reports, Presentations, & computer applications.

LANGUAGE SKILLS

- 1- Arabic (Mother Tongue).
- 2- Excellent in spoken, reading and written English.

COMPUTER SKILLS:

- 1- Operating System: MS Windows XP & 7 and previous.
- 2- MS Office Package: MS Word, MS Excel, MS Power Point.

3- Outlook, Windows NT.

4- Familiar with Internet Applications Inte