

HASAN SAAD ALDEWACHI

EDUCATION

Oct 2013- Oct 2017: PhD at Sheffield Hallam University

Thesis title "Chromogenic Detection of DPP-IV Activity by Peptide Modified Gold Nanoparticles".

Development of point of care biosensors by relying on gold nanoparticle platforms. In this study, novel strategies based on exploiting the high extinction coefficient of gold nanoparticles (Au NPs) are investigated in order to develop fast, specific and reliable enzymatic assay. The presence of DPP-IV could be detected by colorimetric response of peptide capped Au NPs that could be monitored by a UV-Visible spectrophotometer or even the naked eyes.

Sep 2010- Sep 2011: MSc Pharmaceutical Analysis at Sheffield Hallam University with distinction

Theoretical: advanced analytical techniques, Separation detection and online techniques, quality control and quality assurance, new drug development, pharmaceutical preparation sample pre-treatment and analysis

Practical: 3 months of research on the subject: « A comparison of RP-HPLC method and GC-FID methods for simultaneous determination of metronidazole with miconazole nitrate in binary pharmaceutical dosage forms »

Oct 2002- Jul 2007: BSc Pharm. College of Pharmacy / Mosul University

Main modules: Pharmacology, Toxicology, Pharmacokinetics, Therapeutics, Pharmacognosy, Industrial Pharmacy, Pharmacoepidemiology, analytical chemistry, physiology, pathology, therapeutics, analytical chemistry and Pharmaceutical Chemistry

EXPERIENCE

Mosul University / Pharmacy College

May 2018- Now

Head of scientific affairs departments and academic lecturer responsible for teaching in Pharmaceutical Chemistry department mainly for 1st and 2nd year students in Analytical, Organic Chemistry Modules beside supervising final year undergraduate students in hospital and drug industry training.

University of Sheffield

(Apr 2018 – May 2018)

Casual worker teaching assistant responsible for demonstration for final year student at the Molecular Biology department (MBB) to assist with some experimental design classes

Sheffield Hallam University, UK

(Oct 2014 – Mar 2018)

Teaching assistant in Sheffield Hallam University during Ph. D study. responsible for delivering lab tutorials for 1st and 2nd year undergraduate and MSc. students in Analytical chemistry and instrumental techniques [Chromatographic techniques LC & GC, FTIR and atomic emission spectroscopy (AES)]

HEPP Ambassador/ Sheffield Hallam University

(Nov2017 – Apr 2018)

Higher Education Partnership program aims to increase the number of young people progressing to higher education.

Graduate intern at Granton Medical

(Jan 2018 – Apr 2018)

Responsible for quality assurance and quality control, technical agreements packaging specifications and supplier approvals.

Ibn Al-Atheer hospital

2007-2008

Pharmacist in Ibn Al-Atheer hospital for children and pregnancy, responsible for emergency pharmacy in the hospital

PUBLICATIONS

- Gold nanoparticle-based colorimetric biosensors. Review paper, Nanoscale, 2017
- Optimization of gold nanoparticle-based real-time colorimetric assay of dipeptidyl peptidase IV activity, Talanta, November 2017
- Applications of plasmonics: General discussion, Faraday Discussions, 2015.
- A Comparative Study of Two Chromatographic Techniques for the Determination of Group of Imidazole Simultaneously, International Journal of Pharmaceutical Sciences Review and Research, 20, 2013, 153-158
- " Study of the Stability of Functionalized Gold Nanoparticles for the Colorimetric Detection of Dipeptidyl Peptidase IV
- " Applied Sciences, 2018
- B) Peer Reviewer in Elsevier journals (Talanta, Analytica Chimica Acta and Microchemical Journal) and an invited reviewer for 7th Global Conference on Materials Science and Engineering (CMSE 2018).
- 4 papers for Talanta Journal
- 3 papers for Analytica Chimica Acta
- 5 papers for Microchemical journal

CONFERENCES

- XIII International Conference on Nanostructured Materials, Quebec, Canada 2016 (Oral Presentation)
- EUROPT(R)ODE XIII - Conference on Optical Chemical Sensors and Biosensors - Austria, March 20 - 23, 2016 (Poster)
- 4th Intl. Conference and Exhibition on Biosensors and Bioelectronics, Atlanta, USA 2015 (Oral Presentation)
- 5th EU Chemistry Congress in Istanbul, Turkey 2014 (Poster)
- 3MThesis competition

MEMBERSHIP

ASSOCIATE FELLOWSHIP FROM HIGHER EDUCATION ACADEMY HEA (2017)

- BRITISH SOCIETY FOR NANOMEDICINE (2017)
- SOCIETY FOR EXPERIMENTAL BIOLOGY (2016)
- BIOCHEMICAL SOCIETY (2015)
- SCIENCE, TECHNOLOGY, MATHEMATICS AND ENGINEERING (STEM) AMBASSADOR (SINCE 2014)
- ROYAL SOCIETY OF CHEMISTRY: MRSC (SINCE 2014)
- IRAQI PHARMACIST SYNDICATE (SINCE 2008)

