

Khadeeja Hussein

Mobile:+9647740156764

E-mail: khadeeja88@ymail.com

QUALIFICATIONS:

- 2012 Bachelor degree in chemical science, Basra University, Iraq
- 2014 English Language Intensive Courses for Overseas Students at La Trobe University, Australia (Level 6B Advanced)
- 2017 Master of Chemical Science (coursework), La Trobe University, Australia

AWARDS

- 2012 Award of best research student, Basra University, Iraq.
- 2013 Scholarship of the Government of Iraq for overseas MSc studies

TEACHING EXPERIENCE

- 2017 Tutoring in heterocyclic chemistry and H-NMR, La Trobe University, Australia
- 2019-2021 teaching analytical chemistry, chemical industries and English language in Basrah university for oil and gas, Iraq
- Currently, working as lecture assistant in Basrah university for oil and gas, Iraq

CONTRIBUTIONS TO THE RESEARCH FIELD

As part of my BSc degree, I completed a research project on extracting active compounds from an herb as a potential anticancer product and also made attempts to increase its activity. As a result I had received the award of the best research thesis at the Sciences Faculty, Basra University, Iraq.

During my MSc studies at La Trobe University, I have worked on the synthesis of beta peptides using solid support and then functionalized them in solution phase by thiol moiety. I have consecutively studied the effect of thiol group on the self-assembly properties. Also, the thiol moiety was used as anchor point to bind the peptides to gold which has a wide range of applications. I have gained significant experience in synthesizing and studying the properties of unnatural peptides: I learnt to use dynamic light scattering (DLS), Raman spectroscopy, atomic force microscopy (AFM) and quartz crystal microbalance (QCM) methods. I have used a gold coater to make atomic smooth gold surfaces that can be used in AFM. My experience in multi-disciplinary research, involving chemistry and physics underpins my passion for a career in science and a successful outcome to study PhD.

Work experience:

know how to operate and analyze the data obtained from:

NMR (Nuclear Magnetic Resonance) including H & C NMR

Mass spectroscopy

HPLC (High-performance liquid chromatography)

Raman spectroscopy

Dynamic light scattering (DLS)

Atomic force microscopy (AFM)

Quartz crystal microbalance (QCM)

Far Infrared in Australia synchrotron

Have experience with solid phase peptide synthesis

Languages known: English (full professional proficiency), Arabic (native)

REFERENCES

A/Prof Adam Mechlar

La Trobe University, Melbourne.

Phone: 03 9479 2524

Email address: a.mechler@latrobe.edu.au

Dr Ketav Kulkarni

Research Fellow, School of Biomedical Sciences, Monash University

Phone: 0403144806

Email address: ketav.kulkarni@monash.edu