

## Dr Wanisa Ibrahim Ahweelat

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### **Employment History:**

- Graduated from Sebha University(Libya) in April / **1998**.
- Collaborator in the laboratory of medical tests Jan /**1999-March / 2002** in Sebha laboratory/ Libya.
- Studying Master in Organic Chemistry April **2002- Dec / 2005**
- Lecturer in Sebha University / Libya from Jan / **2006- Jun / 2012** in College of Science; duties included supervising in the laboratory and teaching organic chemistry; subjects such as synthesis of heterocyclic compounds, bio-application of ligands as an antibiotic. I was also involved in the examination of final year projects.
- Lab Demonstrating at Swansea University **2014/2017**.
- Demonstrating for 2 undergraduate students in C008 Lab, College of Engineering, Swansea University in **2015**.
- Demonstrating for 5 MSc students in C008 Lab, College of Engineering, Swansea University in **2016**.
- Have very good experience in UV spectroscopy, Dynamic light scattering, attenuated total reflectance Fourier transform infrared spectroscopy (ATR-FTIR), Mass Spectrometry by EPSRC UK National Mass Spectrometry Facility from Swansea University and Nuclear magnetic resonance from Bristol University **2016**, Have excellent skills in analytical chemistry methods such as (NMR, FTIR, MS).
- Post-Doc in Chemistry department, Swansea University (**7-9.2018**) with Prof Owen Guy.

### **Education:**

- PhD in Bio-nanotechnology, (Novel engineered metal nanodevices to be used in therapeutic and biomedical application). College of Engineering. Swansea University. **12.2017**
- MSc in Organic chemistry at the Chemistry department, faculty of science, Sebha University/ Libya **12.2005**.
- BA from Chemistry department, faculty of science, Sebha University/ Libya **4.1998**.

### **Further training:**

- Intensive English course in language centre Sebha / Libya - Jun **2010-2011**.
- Intensive English course, Bradford language centre / UK - July **2012-Nov 2012**.
- Intensive English course, Swansea University Jul **2013** to Nov **2013**.
- Intensive course in Endnote, advanced endnote in Swansea university **2014**
- Post-Graduate Demonstrators' Course in Lab Demonstrating, Swansea university **2015, 2016**
- Intensive course in illustrating your research; finding images for your thesis without breaking copyright **2016**.
- Intensive course in how to publish your first journal article **2017**
- Intensive course in Dealing with difficult people, finishing the thesis and surviving the viva and writing giving conference papers **2017**.

### Skills:

- Have a broad knowledge in the discovery and development of new methodologies for organic synthesis.
- Have good experience in project guidance, contributing to the progress of other group members, group motivation and laboratory administration.
- excellent ability at database searching.
- Proficient user of Microsoft Office programs, such as Word, Excel, Chem Draw and Power-Point. Use of EndNote.
- Excellent organisation skills, time management and good working under pressure.
- Good problem-solving skills and explanation of difficult material to an audience of differing levels of ability and backgrounds and very patient when faced with difficulty
- Ability to work as a part of a team as well as working as an individual.
- Good verbal and written communication skills gained through writing concise lab reports and essays and preparation and delivery of informative, engaging presentations.
- Have good experience in the development of modern teaching methods involving electronic media and methodologies.

### Publications:

- **Yon Ju-Nam, Wanisa Abdussalam-Mohammed and Jesus J. Ojeda.** Highly stable noble metal nanoparticles dispersible in biocompatible solvents: synthesis of cationic phosphonium gold nanoparticles in water and DMSO. *Faraday Discuss.*, **2016**,186, **77-93**.
- **Wanisa Abdussalam-Mohammed. Jesus J. Ojeda and Yon Ju-Nam,**. Synthesis of potential pH-sensitive cationic phosphonium AuNPs in aqueous medium. (under "Publications).
- **Wanisa Abdussalam-Mohammed. Jesus J. Ojeda and Yon Ju-Nam,**Size-controlled synthesis of AuNPs dispersed in DMSO as biocompatible solvent: using phosphine oxide derivatives as protecting ligands. . (under "Publications).
- **Wanisa Abdussalam-Mohammed<sup>1</sup>, Abeer M. Alkhaibari <sup>2</sup>, Esam Hamid Hummadi <sup>2</sup>, Alyaa Abdelhameed <sup>3</sup>, Yon Ju-Nam.** Antimicrobial activities of Novel Gold Nanoparticles Agent against Escherichia coli and Staphylococcus Aureus Bacteria. (under "Publications).

### Conferences:

- Poster ((Synthesis of pH-Sensitive cationic phosphonium AuNPs in aqueous medium)). International Nanoscience Student Conference (INASCON), 21st - 24th August (**2017**), Bristol /UK.
- Poster Fabrication of novel Thiol-derivatised Gold Nanoparticles in water and in biocompatible solvent (dimethyl sulfoxide) (DMSO). Nanoscience: A Celebration on 23rd May (**2017**) School of Chemistry, Cardiff University.
- Poster ((Synthesis of highly stable novel cationic phosphonium gold nanoparticles in water and DMSO)). International conference advanced nanomaterials on Sep (**2016**), Surry /UK.
- oral presentation ((Highly stable noble metal nanoparticles dispersible in biocompatible solvents: synthesis of cationic phosphonium gold nanoparticles in water and DMSO)). Nanoparticle Assembly - From Fundamentals to Applications: Faraday Discussion. 7-9 January (**2016**). Mumbai, India.

**Language Skills:**

- Arabic "Mother tongue", English.

**Volunteering:**

- Helped students with their research at Swansea University; Oct 2014 - 2017.

**Additional Information**

- Because nanoparticles have great bio-application nowadays, I want to contribute to finding solution for cancer disease for helping people who suffering from these diseases. Also, to learn something new every day.

**References:**

- **1-Dr Yon Ju-Nam**  
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