د. محمد بن عبد الوهاب بن محمد باعشن

DR. MOHAMMED ABDULWAHHAB BAASHEN

Associate Professor of Organic Chemistry

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Languages

- Arabic (Native).
- English (Advanced).
- Russian (Advanced).

Education

- PhD in Organic Chemistry, University of Sussex, United Kingdom (2013).
- MPhil in Organic Chemistry (Upgraded to PhD), Cardiff University, United Kingdom (2010).
- BSc in Chemistry, King Faisal University, Saudi Arabia (1996).

Experience

- Saudi Cultural Bureau Attaché of the Embassy of the Kingdom of Saudi Arabia in Austria (Feb 2021)
- Associate Professor of Organic Chemistry, Shaqra University – KSA (Dec. 2019)
- Assistant Vice Rector, Shaqra University – KSA (Dec. 2018 – Oct. 2021).
- Dean of Preparatory Year Deanship, Shaqra university – KSA (Feb 2017 – Sep 2017).
- Vice Dean of Post Graduate Studies, Shaqra University – KSA (Apr 2016 – Sep 2017).
- Director of Administration of Attracting Faculty, Shaqra Uni. – KSA (Dec 2015 – Sep 2017)
- Assistant Professor of Organic Chemistry, Shaqra University – KSA (May 2015 – present).
- Forensic Chemistry Expert at Forensic Labs, Ministry of Interior, Riyadh, Saudi Arabia (Jun 2002–Apr 2015).
- CEO of BAKTRANS CO. (FIDCO LTD) Baku – Azerbaijan Republic (Jul 1998 – Apr 2002).
- Forensic Document Examiner at Department of Forensic Science, Ministry of Interior, Riyadh, Saudi Arabia (Mar 1997– May 1998).

Skills

- Team Leadership.
- Strong Communication, Inspiring, Motivation, Team work and Organization skills.
- Time Management.
- Executing regular lab work expert.
- Ensure laboratory health and safety standards expert
- Developing, and evaluating strategy.
- Analysis expert of Explosives, Unknown samples, Drugs, toxicology, Gunshot Residue, Paint, Arson, Soil and Glass comparison.
- Analytical instruments including Mass Spectroscopy (MS), Nuclear Magnetic Resonance (NMR), Fourier Transfer Infrared (FTIR), Gas Chromatography (GC), High Performance Liquid Chromatography (HPLC) and others.
- Familiar with MestRec NMR software.
- Frequently using chemistry search engines (*e.g*. Beilstein, SciFinder, Science Direct).

Teaching

Various courses in General, Organic and Analytical Chemistry (Forensic and advance Forensic Chemistry) at:

- Institute of Forensic Evidence Sciences, Public Security Training City, Ministry of Interior, KSA.
- Forensic Chemistry Department, Forensic Laboratories, General Administration of Criminal Evidence, KSA.
- Shaqra University, Department of Chemistry, College of Science and Humanities –Dawadmi, KSA.

Research interests

- My research involves development of novel organic synthetic methods, especially using a relatively short reaction time. Such process enable the synthesis of various heterocyclic targets in high yield efficiently under microwave conditions. For example, synthesis of the chemotherapeutic agent RO3201195, a highly selective inhibitor of p38α.

- Recently, my research has been directed to the development of greener organic synthetic methods and in particular in the area of petrochemicals research. The main goal of the research is to look for alternative sources of energy *via* production of photoactive materials with industrial applications. Such research involves the use of solid catalysts to gain selectivity in aromatic electrophilic substitution reactions to synthesis. The procedures involved can overcome most of the limitations associated with the use of traditional methods, reduce the waste at origin and provide isomers that are difficult to be produced by other means. Moreover, such processes are efficient, simple, convenient, save energy and are of major industrial importance.

- Using Suzuki Coupling reactions for the development of a procedure for "palladium-catalyzed cross coupling," as an organic chemistry process which enables the synthesis of large carbon-based molecules.

- Using Gold(III) Chloride catalyzed in synthesis of Three-Component Reaction.

- Active collaborations exist with Professor Mark Bagley, School of Life Science, University of Sussex, Brighton, United Kingdom, Professor Gamal A. El-Hiti, King Saud University, Saudi Arabia and Dr Mohammad H. Alotaibi, King Abduaziz City for Science and Technology, Saudi Arabia.