

Nader Robin Al Bujuq



Date of Birth: 28/01/1973
Place of Birth: Amman/Jordan
Nationality: Jordanian
Mobile phone number: 00962 797681074 (Jordan)
Email address: n.albujuq@ju.edu.jo
nbujuq@yahoo.com

Education

year

- **PhD degree in Organic Chemistry** (Excellent grade with cum laude) University of Seville, Spain **2004-2009**
Title of the Ph.D. Dissertation
"Synthesis of Glycosides, Thioglycosides and Disaccharides of Iminocyclitoles"
- **Master degree in Chemistry** (Very good) University of Jordan, Amman, Jordan. **1997-2000**
Title of the M.Sc. Thesis
"Synthesis and Properties of Some new Chiral 7'-(substituted)benzofurylpyrazolo[4,3-d]pyrimidin-7-ones"
- **Bachelor in Science** (Chemistry) Faculty of science (Chemistry). University of Jordan, Jordan **1991-1995**

Academic Honors and Grants

- **PhD (European Doctorate)** from Stuttgart university, Germany, **2009**
- Award for research in the Seville University (Junta de Andalucia), Spain, **2008**
- La Agencia Española de Cooperación Internacional (AECI) award for PhD Studies (Seville University, Spain), **2004**
- Grant from the Tübingen University to work in the Laboratory of Professor Voelter for 6 months (Germany), **1999**
- Scholarship from the University of Jordan for M.Sc. Studies, **1997**

Academic Positions

Year

The University of Jordan , Amman, Jordan Assistant professor of Organic Chemistry, College of Science Department of Chemistry	2022-Present
Taibah University , Medina, Saudi Arabia Assistant professor of General Chemistry and Organic Chemistry, College of Science-Department of Chemistry	2015-2022
Philadelphia University , Amman, Jordan Assistant professor of Organic Chemistry, Faculty of Basic Sciences and Maths	2009-2015
King Faisal University , Al-Ahsa Lecturer of Organic Chemistry, Biochemistry, College of Medicine, Biochemistry Department	2002-2004

Professional Experience

Year

-
- | | |
|--|------------------|
| • University of Jordan , Amman, Jordan.
Research Assistant, Faculty of Science, Chemistry Department | 2000-2001 |
| • Tübingen University , Germany.
Exchange-Research-Program | 6 months |

Course Taught

-
- General Chemistry I
 - General Chemistry II
 - Organic Chemistry I,
 - Organic Chemistry III
 - Heterocycles
 - Systematic Identification of Organic Compounds
 - Analytical Chemistry
 - Biochemistry
 - General and organic chemistry practical labs
 - Biochemistry labs

Teaching Interests

-
- Advanced Organic Chemistry (Synthesis, Reactions and mechanism)
 - Carbohydrates
 - Proteins and amino acids

Research Interests

My research interests are involved in several areas of drug discovery.

- Synthesis and design new derivatives of hybrid structures of macrolides-sulfonamides compounds such as clarithromycin or azithromycin coupled with active sulfonamides moieties.
- Design chemically modified functionalized amino acids and evaluating their activity as Histone Deacetylase inhibitors (HDACi): Prospective targets in cancer disease therapy.
- Design and synthesis of antipsychotic drugs that is used for the treatment of Parkinson and other neurodegenerative diseases.

Committees Memberships

- Member of International relations committee, The University of Jordan, **2023**
- Member of students affairs committee, The University of Jordan, **2023**
- Member of Public safety committee, The University of Jordan, **2023**
- Member of Quality assurance and accreditation committee, The University of Jordan, **2022**
- Member of Quality assurance and accreditation committee, Taibah University, **2018-2021**
- Coordinator of Organic Chemistry division, Taibah University, **2018-2021**
- Exams Monitoring and Time Table (Coordinator), Philadelphia University, **2010-2015**
- Exams supervisions and groups organization, Philadelphia University , **2010-2015**
- Member of the deanship of distance learning (e-learning), Philadelphia University, **2013**

Training and Workshops

- Workshops for labs safety-Philadelphia University-Jordan-**2013**
- Quality assurance for labs managements- Philadelphia University-Jordan-**2013**
- Safety rules at laboratories- Philadelphia University-Jordan-2013
- Quality control and management at laboratories- Philadelphia University-Jordan-**2013**
- Waste treatment of the residues and chemical handling at laboratories- Philadelphia University-Jordan-**2013**
- Faculty Change Management training program at Taibah University, KSA, **2015-2016**
 - The Art of Inquiry-Based Instruction
 - The Differentiated Instruction
 - Pillars of Change Management

Selected Publications

- Mosa Alsehli,¹ **Nader R. Albujuq**² Ateyatallah Aljuhani,¹ Sanaa Bardaweel,^{3,*} Shaya Yahya Alraqa,¹ Nadjet Rezki,¹ Mohamed Reda Aouad^{1,*} Identifications of some novel hydrazones and thiosemicarbazones tethering benzothiazole-1,2,3-triazole molecular conjugates as potential anticancer agents : Design, click synthesis and characterization (Molecules; submitted)
- Fawzia F. Albelwi,¹ Mohamed S. Nafie,^{2,3,*} **Nader R. Albujuq**,^{4,*} Wafa Hourani,⁵ Ateyatallah Aljuhani,¹ Khaled M. Darwesh,⁶ Mohamed M. Tawfik,⁷ Nadjet Rezki,^{1,*} Mohamed Reda Aouad¹ Design and Synthesis of Chromene-1,2,3-Triazole Benzene Sulfonamide Hybrids as potent Carbonic anhydrase-IX inhibitors against prostate cancer. (Bioorganic Chemistry; submitted)
- **Nader R. Albujuq***, J. Javier Meana, Rebeca Diez-Alarcia Itziar-Muneta Arrate, Arshi Naqvi, Khalid Althumayri, Mosa Alsehli., Design, synthesis, molecular docking, and biological evaluation of novel Pimavanserin-based analogues as potential serotonin 5-HT_{2A} receptor inverse agonists *Journal of Medicinal Chemistry*, **66(13)**, pp.9057-9075. 2023 (<https://doi.org/10.1021/acs.jmedchem.3c00662>),
- **Albujuq NR**, Althumayri K, Alharbi RA, Al-Karmalawy AA, Nafie MS. Design and Synthesis of Benzenesulfonamides Coupled with Piperidine, Morpholine, and N, N-Dimethylethanamine Moieties as Apoptotic Inducers through VEGFR2 and Topoisomerase II Inhibition. *ChemistrySelect*. **2023** May 25;8(20):e202301315. (doi.org/10.1002/slct.202301315)
- **Nader R. Al Bujuq** " Methods of Synthesis of Remdesivir, Favipiravir, Hydroxychloroquine, and Chloroquine: Four Small Molecules Repurposed for Clinical Trials during the Covid-19 Pandemic". *SYNTHESIS*, August, **2020**, DOI: 10.1055/s-0040-1707386.
- **Nader R. Al Bujuq** " Methods of synthesis Pimavanserin: The First drug approved for the treatment of Parkinson's disease psychosis (PDP)" *Arkivoc*. part i, 340-352, **2019**
- **Nader R. Al Bujuq** " Strategies for introducing sulfur atom in a sugar ring: Synthesis of 5-thioaldopyranoses and their NMR data" *Journal of sulfur chemistry*, **40(6)**, **2019**, 664-702, DOI: org/10.1080/17415993.2019.1616734
- Bashar Alkhalidi, Hatim S. AlKhatib, Mohammad Saleh, Saja Hamed, Yasser Bustanji, **Nader Al Bujuq**, Naji Najib, Susana Torrado-Susana & Al-Sayed Sallam "Clarithromycin Laurate Salt: Physicochemical Properties and Pharmacokinetics after Oral Administration in Humans",

Pharmaceutical Development and Technology, 24, (5), 2019, 607-615 , DOI:

10.1080/10837450.2018.1547749

- **Al Bujuq N**, Arar S, Khalil R. "Synthesis and cytotoxic activity of 4-O-β-D-galactopyranosyl derivatives of phenolic acids esters". *Natural product research*. **2018** 32, (22), 2663-9. DOI :10.1080/14786419.2017.1375927
- **Nader Al Bujuq***, Manuel Angulo" Synthesis of N-substituted five and six-membered iminocyclitols-bearing sugar moiety: strategy toward the synthesis of pseudodisaccharide." *Current Organic Synthesis*. 15, (6), **2018**, 853-862. DOI: 10.2174/1570179415666180601083944
- **Nader R. Al-bojuk a** , Mustafa M. El-Abadelah* a, Salim S. Sabri b, Alain Michelc , Wolfgang Voelterd , Cécilia M.-Mössmere , and Yousef Al-Abedf "Synthesis and vaso relaxant potency of Monagra . A chairal 5-(2-Methyl-2,3-Dihydro-7-benzofuryl) pyrazolopyrimidone analog of Viagra®" *Heterocycles*, **2001** 55, 178.
- José Fuentes, **Nader R. Al-Bujuq**, Manuel Angulo, Consolación Gasch " Iminosugar thioglycoside as glycosyl donors. A route to disaccharides with an iminosugar moiety " *Tetrahedron Lett*, **2008**, 49, 910.
- José Fuentes, **Nader R. Al Bujuq**, Manuel Angulo and Consolación Gascha" The use of anhydroiminocyclitols as glycosyl donors in glycosidation reaction" *Tetrahedron*, **2010**, 66, 47, 9214-9222.

Manuscripts under preparation

- Mosa Alsehli,¹ **Nader R. Albujuq**² Ateyatallah Aljuhani,¹ Sanaa Bardaweel,^{3,*} Shaya Yahya Alraqa,¹ Nadjat Rezki,¹ Mohamed Reda Aouad^{1,*} Identifications of some novel hydrazones and thiosemicarbazones tethering benzothiazole-1,2,3-triazole molecular conjugates as potential anticancer agents : Design, click synthesis and characterization.
- Fawzia F. Albelwi,¹ Mohamed S. Nafie,^{2,3,*} **Nader R. Albujuq**,^{4,*} Wafa Hourani,⁵ Ateyatallah Aljuhani,¹ Khaled M. Darwesh,⁶ Mohamed M. Tawfik,⁷ Nadjat Rezki,^{1,*} Mohamed Reda Aouad¹ Design and Synthesis of Chromene-1,2,3-Triazole Benzene Sulfonamide Hybrids as potent Carbonic anhydrase-IX inhibitors against prostate cancer.

Professional Service

- Reviewer for Books and scientific Journals of Science publishers (Taylor & Francis, Bentham, Elsevier and Springer, and ACS

International Conferencies

- **Nader Robin Al Bujuq**, Consolación Gasch, Maria Ángeles Pradera, y José Fuentes, "*Glicósidos y tioglicósidos de azaazúcares* " ; Conference: VIII Jornadas de carbohidratos, Alcalá de Henares, Madrid, Spain **2006**
- José Fuentes, **Nader R. Al Bujuq**, Maria Ángeles Pradera, and Consolación Gasch. "*Azasugar Derivatives as Glycosyl Donors in Glycosidation Reactions. Synthesis of Azasugar Disaccharides*"; Conference; 50.th Anniversary Meeting-Challenge in Organic Chemistry-Eight Tetrahedron Symposium, Berlin , Germany, **2007**
- José Fuentes, **Nader R. Al Bujuq**, Consolación Gasch, Manul Angulo "Anhydro-and thioglycoside-iminosugar. Synthesis and their use in glycosidation reactions " , Conference: 24th International Carbohydrate Symposium, Oslo, Norway, **2008**
- José Fuentes, **Nader R. Al Bujuq**, Consolación Gasch, Manul Angulo " The Use of Iminosugar Derivatives as Glycosyl Donors in Glycosidation Reactions " , Conference: IV Iberian Carbohydrate Meeting IX Jornadas De Carbohidratos. Santiago de Compostela, Spain, **2008**

Foreign Languages

- English: IELTS (International English Language Testing System)
- Spanish

Nader Robin Al Bujuq
05 August 2021