

Ghina'a Abu Deiab

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Positions Held:

September 2020 –Present <i>Assistant Professor</i>	Yarmouk University
September 2019 –September 2020 <i>Lecturer</i>	Yarmouk University
February 2017 –September 2019 <i>Assistant Professor</i>	Applied Science Private University
August 2013 –December 2016 <i>Teaching Assistant</i>	University of North Carolina at Greensboro
October 2010 – July 2012 <i>Outpatient Pharmacist</i>	King Abdullah University Hospital
February 2009 – September 2010 <i>Community Pharmacist</i>	Almashfa Pharmacy Chain
October 2007 – May 2009 <i>Teaching Assistant</i>	Jordan University of Science & Technology

Formal Education:

August 2012 –December 2016 Ph.D. in Medicinal Biochemistry (Croatt Group, Degree conferred on May 2017) <i>"Synthesis and Biological Evaluation of Potent Neuroprotective Agents against Stroke and Research on a Novel Type of Decarboxylation Reaction"</i>	University of North Carolina at Greensboro
February 2007 – May 2010 M.Sc. in Organic Chemistry <i>"Synthesis of a Tetravalent Mannoside Cluster"</i>	Jordan University of Science & Technology
October 2001 – May 2006 B.Sc. in Pharmacy	Jordan University of Science & Technology

Teaching Experience:

- Pharmaceutical Organic Chemistry 1 (Phrm112; Spring 2022).
- Pharmaceutical Organic Chemistry 2 (Phar210; Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021).
- Medicinal Chemistry I (Phar905312; Fall 2018/Phar410; Spring 2020).
- Medicinal Chemistry II (Phar905323; Spring 2018, Spring 2019/Phar411; Fall 2020).
- Drug Design (Phar905412; Fall 2017, Summer 2017/Phar510; Spring 2021).

Publications:

Abu Deiab, G. I.; Saadah, L. M.; Basheti, I. A. "Using Drug Chemical Structures in the Education of Pharmacology and Clinical Therapeutics Key Concepts", *Braz. J. Pharm. Sci.*, **2021**, accepted.

Saadah, L. M.; Abu Deiab, G. I.; Al-Balas, Q.; Basheti, I. A. "Carnosine to Combat Novel Coronavirus (nCoV, COVID-19): Molecular Docking and Modeling to Co-crystallized Host Angiotensin-Converting Enzyme 2 (ACE2) and Viral Spike Protein", *Molecules*, **2020**, 25(23), 5605.

Amawi, H; Abu Deiab, G. I.; Aljabali, A. A. A.; Dua, K.; Tambuwala, M. M. "COVID-19 Pandemic: An Overview of Epidemiology, Parthenogenesis, Diagnostics, and Potential Vaccines and Therapeutics", *Ther. Deliv.*, **2020**, 11(4), 245-268.

Abu Deiab, G. I.; Croatt, M. P. "Synthetic Approaches to Isocarbacyclin and Analogues as Potential Neuroprotective Agents Against Ischemic Stroke", *Bioorg. Med. Chem.*, **2019**, 27, 338-342.

Abu Deiab, G. I.; Al-Huniti, M. H.; Hyatt, I. F. D.; Nagy, E. E.; Gettys, K. E.; Sayed, S. S.; Joliat, C. M.; Daniel, P. E.; Vummalaneni, R. M.; Morehead, A. Jr.; Sargent, A. L.; Croatt, M. P. "Decarboxylative and dehydrative coupling of dienic acids and pentadienyl alcohols to form 1,3,6,8-tetraenes" *Beilstein J. Org. Chem.* **2017**, 13, 384-392.

Abu Deiab, G. I.; Croatt, M. P. "Step-Economical Synthesis of Clinprost and Analogues Utilizing a Novel Decarboxylation Reaction" In *Strategies and Tactics in Organic Synthesis* Harmata, M. Ed.; Academic Press: London, UK, **2017**; Vol. 12, pp 95-117.

Ongoing Research:

- Main Research:

"*Synthesis, characterization and biological evaluation of platinum-based complexes as potential anticancer agents*", funded by Yarmouk University. On collaboration with Jordan University of Science and Technology and Applied Science Private University.

"*An analysis of pharmacy students' understanding of reactions for large molecules in pharmaceutical organic chemistry course*", funded by Yarmouk University. On collaboration with University of North Carolina at Greensboro and Applied Science Private University.

- Collaborative Research:

"*Angiotensin-converting enzyme 2 (ACE2) inhibitors as potential drugs for coronavirus disease (COVID-19)*", on collaboration with Applied Science Private University and Jordan University of Science and Technology, funded by SRF.

"*Review papers linking the Medicinal Chemistry and Clinical Therapeutics for different medicinal agents*", on collaboration with University of North Carolina at Greensboro and Applied Science Private University.

Scholarships, Licenses and Awards:

A Three Minute Thesis (3MT) Finalist: University of North Carolina at Greensboro, North Carolina for the year 2016.

Academic Scholarship: By Applied Science Private University, Jordan for the year 2016.

First Place Award for Graduate Researchers: Awarded by American Chemical Society in the 128th sectional conference, 2014.

Teaching Assistantship: By University of North Carolina at Greensboro, North Carolina from August 2013 to December 2016.

Pharmacist License: By Jordanian Pharmaceutical Association, from 2006 to present.

Conferences / Poster Presentations:

Al-Huniti, M. H.; Abu Deiab, G.; Hyatt, I. F. D.; Nagy, E. E.; Sargent, A. L.; Morehead, A. T.; Croatt, M. P. "Decarboxylative Coupling of Pentadienyl Dienoates and Related Novel Reactions" *Gordon Research Conference: Organic Reactions & Processes*, **2017**, Stonehill College, MA.

Abu Deiab, G. I.; Croatt, M. P. "Total Synthesis of Neuroprotective Agents against Stroke" *The 35th National Medicinal Chemistry Symposium*, **2016**, Chicago, IL.

Abu Deiab, G. I.; Hyatt, I. F. D.; Nagy, E. E.; Al-Huniti, M.; Gettys, K. E.; Sayed, S. S.; Vummalaneni, R. M.; Joliat, C. M.; Daniel, P. E.; Croatt, M. P. "A Novel Decarboxylation of Bis-Allylic Esters Lacking Anion-Stabilizing Groups" *CNC-ACS 16th Annual Poster Vendor Night*, **2016**, Greensboro, NC.

Hyatt, I. F. D.; Nagy, E. E.; Abu Deiab, G. I.; Gettys, K. E.; Sayed, S.; Joliat, C.; Daniel, P. E.; Vummalaneni, R.; Sargent, A.; Morehead, A.; Croatt, M. P. "Decarboxylation of Bis-Allylic Dienoates Lacking Anion-Stabilizing Groups" *Gordon Research Conference: Organic Reactions & Processes*, **2015**, Bates College, ME.

Abu Deiab, G. I.; Croatt, M. P. "Synthesis of Neuroprotective Agents against Stroke in Less than 10 Steps" *250th American Chemical Society National Meeting & Exposition*, **2015**, Boston, MA.

Abu Deiab, G. I.; Croatt, M. P. "Use of Transition Metal-Catalysts to Access a Step-Economical Synthesis of Neuroprotective Agents" *CNC-ACS 15th Annual Poster Vendor Night*, **2015**, Greensboro, NC.

Abu Deiab, G. I.; Croatt, M. P. "Synthesis and Bioanalysis of Isocarbacyclin Agents" *Graduate Research and Creativity Expo*, **2015**, Greensboro, NC.

Vummalaneni, R.; Abu Deiab, G. I.; Nagy, E. E.; Sayed, S. S.; Hyatt, I. F. D.; Gettys, K. E.; Croatt, M. P. "Exploration and Optimization of a Novel Decarboxylative Coupling Reaction" *9th Annual Carolyn and Norwood Thomas Undergraduate Research Expo*, **2015**, Greensboro, NC.

Al Rifai'e, B.; Deeb, B.; Abu Deiab, G. I.; Croatt, M. P. "Synthesis and Bioanalysis of Isocarbacyclin Analogues" *9th Annual Carolyn and Norwood Thomas Undergraduate Research Expo*, **2015**, Greensboro, NC.

Vummalaneni, R.; Abu Deiab, G. I.; Nagy, E. E.; Sayed, S. S.; Hyatt, I. F. D.; Gettys, K. E.; Croatt, M. P. "Exploration and Optimization of a Novel Decarboxylative Coupling Reaction" *10th State of NC Undergraduate Research and Creativity Symposium*, **2014**, Raleigh, NC.

Sayed, S.; Abu Deiab, G. I.; Gettys, K.; Nagy, E. E.; Croatt, M. P. "Exploration of Nonsymmetric Pentadienyl Groups in a Novel Palladium-Catalyzed Decarboxylative Reaction" *66th Southeast Regional Meeting of the ACS*, **2014**, Nashville, TN.

Abu Deiab, G. I.; Vummalaneni, R. M.; Nagy, E. E.; Sayed, S. S.; Hyatt, I. F. D.; Gettys, K. E.; Croatt, M. P. "Exploration and Optimization of a Novel Decarboxylative Coupling Reaction" *128th NC ACS Sectional Conference*, **2014**, Durham, NC. (**1st place prize for graduate researchers**)

Abu Deiab, G. I.; Croatt, M. P. "Synthesis and Biological Activity of Neuroprotective Agents" *The 66th Southeastern Regional Meeting of the American Chemical Society*, **2014**, Nashville, TN. (**Selected to also present at Sci-Mix Interdivisional Poster Session**)

Nagy, E. E.; Abu Deiab, G. I.; Gettys, K. E.; Hyatt, I. F. D.; Sayed, S.; Paudel, D.; Croatt, M. P. "Synthesis of Isocarbacyclin Analogues Utilizing a Novel Decarboxylation Reaction" *Gordon Research Conference: Organic Reactions & Processes*, **2014**, Bryant University, RI.

Abu Deiab, G. I.; Croatt, M. P. "Synthesis of Neuroprotective Agents" *CNC-ACS 14th Annual Poster Vendor Night*, **2014**, Greensboro, NC.

Conferences / Attendance:

Virtual 7th EFMC Young Medicinal Chemists' Symposium, **2020**, Virtual, USA.

The Second Annual Empowering Women in Organic Chemistry Conference, **2020**, Virtual, USA.

New Horizons and Opportunities for Pharmacy Practice and Education, **2020**, Amman, Jordan.

The 16th Jordanian Chemistry Conference JCC16th (Five Decades of Chemistry in Jordan: Challenges and Accomplishments), **2019**, Amman, Jordan.

International Conference on Advanced Materials (ICAM), **2017**, Irbid, Jordan.

Certifications and Workshops:

July 2021 CARE International
Connecting Industry and Academia: "Faculty for Factory Program"

August 2020 Collaborations Pharmaceuticals
COVID-19 Drug Discovery at Collaborations Pharmaceuticals

April 2020 AACC Learning and Massachusetts Medical Society
Coronavirus Disease 2019 Online Course

January 2020 Yarmouk University
Development of Course Objectives and Assessment Methods Workshop

November 2019 Yarmouk University
Electronic Academic Guidance Workshop

September 2019 <i>Scientific Research Ethics Workshop</i>	Yarmouk University
September 2019 <i>Educational Process Management Workshop</i>	Yarmouk University
September 2019 <i>Teaching Methodologies Workshop</i>	Yarmouk University
July 2019 <i>Publishing in the Citation Database "Scopus" Workshop</i>	Applied Science Private University
December 2018 <i>Interactive Learning Workshop</i>	Applied Science Private University
July 2018 <i>Effective Management and Leadership Styles Workshop</i>	Applied Science Private University
December 2017 <i>Writing Intended Learning Outcomes for a Course Syllabus Workshop</i>	Applied Science Private University
December 2016 <i>A Day of Intentional Learning</i>	University of North Carolina at Greensboro
October 2015 <i>Zotero Workshop (Reference Management Software)</i>	University of North Carolina at Greensboro
April 2015 <i>Leadership Certificate</i>	University of North Carolina at Greensboro
May 2011 <i>Communication Skills Certificate</i>	King Abdullah University Hospital
October 2006 <i>SERVE Model Leadership Training Certificate</i>	Chick-fil-A University & WinShape International
July 2006 <i>Basic Nursing Skills Certificate</i>	Pharmaceutical Research Center
December 2005 <i>International Computer Driving License Certificate</i>	UNESCO Cairo Office

University Committee Assignments:

University Committees (Yarmouk University):

- Community Service Committee *member*

Faculty Committees (Yarmouk University):

- Academic Guidance Committee *head*

- Study Plan and Curriculum Committee *member*

- E-learning Committee *member*
- Inquiry Committee *member*
- Accreditation Council for Pharmacy Education (ACPE) Staff Resources Sub-committee *member*
- Community Service Committee *member*

Department Committees (Yarmouk University):

- Scientific Research Committee *member*

University Committees (Applied Science Private University):

- Community Service Committee *member*

Faculty Committees (Applied Science Private University):

- Social and Behavioral Counselling Committee *head*
- Community Service Committee *head*
- Accreditation Council for Pharmacy Education (ACPE) Staff Resources Sub-committee *member*
- Academic Guidance Committee *member*
- Library Committee *member*

Professional Memberships:

Member; American Chemical Society - Medicinal Chemistry Division

Member; American Chemical Society

Member; Jordanian Pharmaceutical Association