

Curriculum Vitae

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ResearchGate: https://www.researchgate.net/profile/Tamam_El-Elimat

LinkedIn: <https://www.linkedin.com/in/tamam-el-elimat>

Tamam El-Elimat is a professor of Natural Products Chemistry at the Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology (JUST). She received her Ph.D. in Natural Products Chemistry in 2014 from the University of North Carolina at Greensboro (UNCG) and her B.Sc. in Pharmacy and M.Sc. Degree in Medicinal Chemistry and Pharmacognosy from JUST. Dr. El-Elimat held various leadership positions at JUST, including Vice Dean for accreditation and quality assurance of the Faculty of Pharmacy from 9/2021 to 8/2022, Chair of the Department of Medicinal Chemistry and Pharmacognosy from 9/2018 to 8/2021, and Assistant Dean from 9/2015 to 8/2016. By chairing the Accreditation and Quality Control Committee, the Strategic Plan Committee, and the Assessment Committee, she played an instrumental role in securing accreditation for the Pharmacy and PharmD programs at JUST from the Accreditation Council for Pharmacy Education (ACPE). Dr. El-Elimat supervised 15 M.Sc. students. She also enjoyed two short-term research leaves and a one-year sabbatical research leave at UNCG in 2016, 2018, and 2022/2023. Dr. El-Elimat's research interests include drug discovery from nature, particularly from fungi and plants, evaluation of the health benefits of medicinal plants and nutraceuticals and their chemical analysis, and pharmacokinetic herb-drug interactions. She has authored 110 papers in peer-reviewed international indexed journals and is a member of the American Society of Pharmacognosy. Dr. El-Elimat is also a registered pharmacist. In terms of recognition, Dr. El-Elimat was featured in the PLoS study by Stanford University as one of the top 2% most cited scientists in the world. She was ranked 3rd for Pharmaceutical Sciences at Jordan University of Science and Technology and 8th in Jordan in the AD (Alper-Doger) Scientific Index for scientists. She also received *The Journal of Antibiotics* Ōmura Award 2020/Original article division. As of January 2023, Dr. El-Elimat's Google Scholar *h*-index is 32 and *i10*-Index is 73 with 4,426 total citations, while her Scopus *h*-index is 29 with 2,868 total citations, and her ResearchGate *h*-index is 31 with 3,702 total citations.

EDUCATION

2010-2014: Ph.D., Medicinal Biochemistry, specialization in Natural Products Chemistry (GPA 4.00), Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, NC, USA.
Thesis Title: "Discovering New Structural Diversity from Unexplored Fungi"
Advisor: Dr. Nicholas H. Oberlies.

Brief Synopsis of Research: Discovery of anticancer drugs with high efficacy coupled with action at novel target sites is necessary to combat cancer. As part of a multidisciplinary project to identify anticancer leads from diverse natural product resources, our group has been studying fungi from different ecological habitats, including filamentous Ascomycota from terrestrial, freshwater, and symbiotic fungi (fungal endophytes), as a source of novel scaffolds for drug design and development. During my research work, 56 bioactive compounds

have been isolated and identified, with 30 of the isolated leads representing new chemical entities. A dereplication methodology has been developed and implemented successfully for the identification of fungal secondary metabolites in crude culture extracts using a UPLC-PDA-HRMS-MS/MS method. Finally, the chemical diversity of the isolated compounds was analyzed through principal component analysis.

Dissertation Committee: Dr. Nicholas H. Oberlies, Dr. Alice Hadi, Dr. Nadja Cech, and Dr. Mitchell P. Croatt.

2001-2004: M.Sc., Medicinal Chemistry and Pharmacognosy, specialization in Natural Products Chemistry (Cumulative Average 90.4, Excellent), Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan.
Thesis Title: "Isolation, Characterization and Biological Evaluation of Active Components of *Colchicum Brachyphyllum* Boiss. & Hausskn (Colchicaceae)".
Advisor: Dr. Feras Q. Alali.

Brief Synopsis of Research: The project included isolation, characterization, and biological evaluation of active components of *C. brachyphyllum* Boiss. & Hausskn (Colchicaceae). Nine compounds were isolated and identified; of which seven were new to the species. The identified compounds were tested for their general cytotoxicity using BSLT and for cytotoxicity against a panel of human cancer cell lines. The colchicine content of *C. brachyphyllum* was determined during the flowering and seeding stages using an HPLC-PDA method.

Dissertation Committee: Dr. Feras Alali, Dr. Ahmad S. Al-Kofahi, Dr. Mohsen Al-Mahmoud, and Dr. Talal A. Aburjai.

1991-1996: B.Sc., Pharmacy (Cumulative Average 73.6, Good), Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan.

1991: General Secondary Education Certificate (Percentage Average 91.1).

PROFESSIONAL EXPERIENCE

10/2023-Present: Professor, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology.

10/2022-9/2023: Visiting Scholar, Sabbatical Research Leave, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, NC, USA.

9/2021-9/2022: Vice-Dean, Faculty of Pharmacy, Jordan University of Science and Technology.

10/2019-Present: Associate Professor, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology.

9/2018-8/2021: Department Head, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology.

5/2018-9/2018: Visiting Scholar, Short-term Research Leave, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, NC, USA.

6/2016-9/2016: Visiting Scholar, Short-term Research Leave, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, NC, USA.

9/2015-8/2016: Assistant Dean for Student Affairs, Faculty of Pharmacy, Jordan University of Science and Technology.

10/2014-9/2019: Assistant Professor, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology.

- 5/2014-7/2014:** Postdoctoral Research Associate, Department of Chemistry and Biochemistry, the University of North Carolina at Greensboro, NC, USA.
- 8/2010-5/2014:** Ph.D. Research Experience, work under Professor Nicholas Oberlies/UNCG in studying bioactive compounds from nature particularly from fungi (filamentous, aquatic, and endophytic) using bioactivity-directed fractionation.
- 7/2013-5/2014:** Research Assistant, The Oberlies Research Group, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, NC, USA.
- 9/2012-6/2013:** Teaching Assistant, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, NC, USA.
- 9/2011-8/2012:** Research Assistant, The Oberlies Research Group, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, NC, USA.
- 8/2010-8/2011:** Teaching Assistant, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, NC, USA.
- 2/2005-8/2010:** Researcher at Pharmaceutical Research Center (PRC), Jordan University of Science and Technology, Irbid, Jordan.
- 10/2004-1/2005:** Part-Time Lecturer, Faculty of Pharmacy, Department of Medicinal Chemistry and Pharmacognosy, Jordan University of Science and Technology, Irbid, Jordan.
- 2001-2004:** M.Sc. Research Experience, work under the supervision of Dr. Feras Q. Alali (Graduate of Purdue University, Lafayette, IN) pharmacognosy research laboratory (drug discovery from natural sources using different chromatographic techniques).
- 11/1996-9/2004:** Community Pharmacist, Dejlal Pharmacy/al-Mafraq, Jordan.

AWARDS AND ACHIEVEMENTS

- *The Journal of Antibiotics* Ōmura Award 2020 (Original article division). Enhanced Dereplication of Fungal Cultures via Use of Mass Defect Filtering. *The Journal of Antibiotics* 70, 553-561, 2017.
- Globally recognized and featured in the PLoS study by Stanford University of the top 2% most cited scientists in the world.
- Ranked 3rd for Pharmaceutical Sciences at Jordan University of Science and Technology and 8th in Jordan in the AD (Alper-Doger) Scientific Index for scientists.
- The American Society of Pharmacognosy Student Research Award for the year 2014 (Declined due to overseas travel plans).
- The American Institute of Chemists' Outstanding Graduate Student Award for the year 2014.
- Travels grant award, the second Practical Applications of NMR in Industry Conference (PANIC), Charlotte, NC, 2014.
- Graduate Student Association Professional Development Fund Award, The University of North Carolina at Greensboro, fall 2013 and spring 2014.
- Teaching Assistantship Award for Outstanding Performance as a Graduate Teaching Assistant for the Academic Year 2012-2013, The University of North Carolina at Greensboro, College of Arts and Sciences, Chemistry and Biochemistry Department.
- The University of North Carolina at Greensboro Graduate Summer Assistantship 2013.

- Jordan University of Science and Technology Graduate Scholarship 2012-2014.
- International Student Academic Achievement Award, The University of North Carolina at Greensboro (Fall 2010, Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, and Spring 2014).
- The Best Poster Award at 30th Triangle Chromatography Symposium, McKimmon Center, NC State University, Raleigh, NC, May 16, 2013. For the poster: El-Elimat T., H. Raja, N.H. Oberlies. "Cyclodepsipeptides, α -Pyrone Derivatives and Secalonic Acids from Two Unidentified Freshwater Fungi (G100 and G102).
- The Best Poster Award at the 12th Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, April 3, 2012. For the poster: El-Elimat, T., M. Figueroa, T.N. Graf, A.F. Adcock, D.J. Kroll, M.C. Wani, C.J. Pearce, N.H. Oberlies. "Two Benzoquinones and One Terphenyl Compound from an Unidentified Fungus (MSX 47445)".
- The University of North Carolina at Greensboro Graduate Research Assistantship 2011-2012, 2013-2014.
- The University of North Carolina at Greensboro Graduate Teaching Assistantship 2010-2011, 2012-2013.
- The Prestigious Best Research Award at the First Scientific Day for the Faculty of Graduate Studies at Jordan University of Science and Technology, Irbid, Jordan for the year 2004/2005.
- Outstanding Academic Achievement Award, Faculty of Graduate Studies, Jordan University of Science and Technology, Irbid, Jordan, 2004.
- The Ministry of Higher Education and Scientific Research Undergraduate Scholarship 1992-1996.

PATENTS

1. Nicholas Oberlies, Cedric Pearce, Alexander Horswill, Jeffrey Kavanaugh, Corey Parlet, **Tamam El-Elimat**. Methods and Compositions for the Inhibition of Quorum Sensing in Bacterial Infections. The United States Patent Application 20200289611; Application Number: 16/301426; Filing Date: 05/12/2017; Publication Date: 09/17/2020.

ONLINE TRAINING COURSES

- The Research Ethics Education Program in Jordan (REEP). The University of California San Diego in collaboration with Jordan University of Science and Technology (JUST). July 2017-October 2018.
- Collaborative Institutional Training Initiative (CITI Program). Responsible Conduct of Research (RCR) Course. August 11th, 2017. doi: [10.3389/fphar.2024.1352907](https://doi.org/10.3389/fphar.2024.1352907)

PUBLICATIONS

2024

110. Abbas Khan, Yasir Waheed, Shilpa Kuttikrishnan, Kirti S. Prabhu, **Tamam El-Elimat**, Shahab Uddin, Feras Q. Alali and Abdelali Agouni. Network Pharmacology, Molecular Simulation, and Binding Free Energy Calculation-Based Investigation of Neosetophomone B Revealed Key Targets for the Treatment of Cancer. *Frontiers in Pharmacology* 15: 2024. doi: [10.3389/fphar.2024.1352907](https://doi.org/10.3389/fphar.2024.1352907)
109. Shilpa Kuttikrishnan, Maram Hasan, Kirti S. Prabhu, **Tamam El-Elimat**, Nicholas H. Oberlies, Cedric J. Pearce, Feras Q. Alali, Aamir Ahmad, Ehsan P. Daryakenari, Ajaz A. Bhat, Huseyin C. Yalcin, Shahab Uddin. Exploring the In Vivo Anti-Cancer Potential of

Neosetophomone B in Leukemic Cells Using a Zebrafish Xenograft Model. *Experimental Cell Research* 435: 113907, 2024.

108. Hadi Pourhadi, **Tamam El-Elimat**, Manuel Rangel-Grimaldo, Tyler N. Graf, Joseph O. Falkinham III, Manead Khin, Joanna E. Burdette, Nathan Mirtallo Ezzone, Jonathan Jeyaraj, Esperanza Carcache de Blanco, Cedric J. Pearce, and Nicholas H. Oberlies. Semisynthesis, Characterization, and Biological Evaluation of Fluorinated Analogues of the Spirobisnaphthalene, Diepoxin-η. *Tetrahedron Letters* 134: 154857, 2024.
107. Shilpa Kuttikrishnan, Fareed Ahmad, Jericha M. Mateo, Kirti.S.Prabhu, **Tamam El-Elimat**, Nicholas H. Oberlies, Cedric J. Pearce, Ammira S. Alshabeeb Akil, Ajaz A. Bhat, Feras Q. Alali, and Shahab Uddin. Neosetophomone B Induces Apoptosis in Multiple Myeloma Cells via Targeting of AKT/SKP2 Signaling Pathway. *Cell Biology International* 48: 190-200, 2024.

2023

106. Shilpa Kuttikrishnan, Tariq Masoodi, Fareed Ahmad, Gulab Sher, Kirti S. Prabhu, Jericha M. Mateo, Joerg Buddenkotte, **Tamam El-Elimat**, Nicholas H. Oberlies, Cedric J. Pearce, Ajaz A. Bhat, Feras Q. Alali, Martin Steinhoff, and Shahab Uddin. *In Vitro* Evaluation of Neosetophomone B Inducing Apoptosis in Cutaneous T Cell Lymphoma by Targeting the FOXM1 Signaling Pathway. *Journal of Dermatological Science* 112: 83-91, 2023.
105. Rami Al-Dwairi, **Tamam El-Elimat**, Abdelwahab Aleshawi, Ahmed H. Al Sharie, Balqis Abu Mousa, Seren Al Beiruti, Ahmad Khaza'leh, and Hasan Mohidat. Vitreous Levels of Vascular Endothelial Growth Factor and Platelet-Derived Growth Factor in Patients with Proliferative Diabetic Retinopathy: A Clinical Correlation. *Biomolecules* 13(11): 1630, 2023.
104. Ahmed H. Al Sharie, Abdulmalek M. Abu Zahra, **Tamam El-Elimat**, Reem F. Darweesh, Ayah K. Al-Khaldi, Balqis M. Abu Mousa, "Mohammad S. Bani Amer, Kinda Al-Kammash, Yazan Al Zu'bi, Alma Abu Lil, Abubaker A. Al Malkawi, Zainab Alazzeah, and Feras Q. Alali. Cyclin Dependent Kinase Inhibitor 3 (CDKN3) Upregulation is Associated with Unfavorable Prognosis in Clear Cell Renal Cell Carcinoma and Shapes Tumor Immune Microenvironment: A Bioinformatics Analysis. *Medicine* 102(36): e35004, 2023.
103. Kawthar Z. Alzarini, Abdel Rahman Bani Amer, **Tamam El-Elimat**, and Hilkka I. Kenttämä. Characterization of Natural Cellulosic Fiber Obtained from the Flower Heads of Milk Thistle (*Silybum marianum*) as a Potential Polymer Reinforcement Material. *Journal of Natural Fibers* 20: 2211289, 2023.
102. Iyad F. Ghaith, Kareem H. Alzoubi, **Tamam El-Elimat**, Nour A. Al-Sawalha, Omar F. Khabour, Mahmoud A. Alomari, Enaam M. Al Momany, and Doa'a G. F. Al U'datt. Palm Dates Protects Memory Formation in Diabetes Mellitus: Neutralization of Oxidative Stress. *The Open Agriculture Journal* 17: 1-9, 2023.
101. Ahmed H. Al Sharie, **Tamam El-Elimat**, Mario Figueroa, and Huzefa A. Raja. Antimicrobials from Freshwater Ascomycota. In *Freshwater Fungal Biology*, Calabon MS, Hyde KD, Jones EBG, Bao DF, Bhunjun CS, Phukhamsakda C, Shen HW, Gentekaki E, Al Sharie AH, Barros J1, Chandrasiri KSU, Hu DM, Hurdeal VG, Rossi W, Valle LG, Zhang H, Figueroa M, Raja HA, Seena S, Song HY, Dong W, El-Elimat T, Leonardi M, Li Y, Li YJ, Luo ZL, Ritter CD, Strongman D, Wei MJ, and Balasuriya A. *Mycosphere* 14: 195-413, 2023.
100. **Tamam El-Elimat**, Bayan K. Al-Tal, Nour A. Al-Sawalha, Mohammad Alsaggar, Shreen D. Nusair, Reema Al-Qiam, Ahmed H. Al Sharie, Feras El Hajji, and Lama Hamadneh. Sumc (*Rhus coriaria* L.) Fruit Ameliorates Paracetamol-induced Hepatotoxicity. *Food Bioscience* 52: 102488, 2023.

99. **Tamam El-Elimat**, Haya S. El-Qaderi, Wael M. Hananeh, Mahmoud M AbuAlSamen, Ahmed H. Al Sharie, Musa Alshehabat, Mohammad Al-Gharaibeh, and Feras Q. Alali. Evaluation of the Wound Healing Potential of *Hypericum triquetrifolium* Turra: An Experimental Animal Study and Histopathological Examination. *Scientia Pharmaceutica* 91: 16, 2023.
98. Ahmed H. Al Sharie, Yazan O. Al Zu'bi, **Tamam El-Elimat**, Kinda Al-Kammash, Alma Abu Lil, Israa H. Isawi, Sarah Al Sharie, Balqis M. Abu Mousa, Abubaker A. Al Malkawi, and Feras Q. Alali. ANO4 Expression is a Potential Prognostic Biomarker in Non-Metastasized Clear Cell Renal Cell Carcinoma. *Journal of Personalized Medicine* 13: 295, 2023.

2022

97. Nusaiba Al-Nemrawi, Fatima Hameedat, and **Tamam El-Elimat**. Green Synthesis of Silver Nanoparticles using *Bellevalia flexuosa* Leaves Extract. *Scientia Pharmaceutica* 90: 60, 2022.
96. **Tamam El-Elimat**, Abdullah R. Al-khawlani, Nour A. Al-Sawalha, Marwan M. Sa'ed, Reema Al-Qiam, Ahmed H. Al Sharie, and Nidal A. Qinna. The Effect of Beetroot Juice on Airway Inflammation in a Murine Model of Asthma. *Journal of Food Biochemistry* 46: e14381, 2022.
95. **Tamam El-Elimat**, Reema Al-Qiam, Joanna E. Burdette, Ahmed H. Al Sharie, Mohammad Al-Gharaibeh, and Nicholas H. Oberlies. Homoisoflavonoids from the Bulbs of *Bellevalia longipes* and an Assessment of their Potential Cytotoxic Activity. *Phytochemistry* 203: 113343, 2022.
94. **Tamam El-Elimat**, Wala'a M. Qasem, Nour A. Al-Sawalha, Mahmoud M. AbuAlSamen, Ramzi T. Munaïem, Reema Al-Qiam, and Ahmed H. Al Sharie. A Prospective Non-Randomized Open-Label Comparative Study of The Effects of Matcha Tea on Overweight and Obese Individuals: A Pilot Observational Study. *Plant Foods for Human Nutrition* 77: 447-454, 2022.
93. Shreen Nusair, Mohammad Ahmad, **Tamam El-Elimat**, Khansaa Al-Essa, Luay Abu-Qatouseh, and Rawand Khasawneh. Methanolic Extract of *Eryngium creticum* Lam Leaves, Flowers and Roots: Quantification and Qualification of Phenolic Contents, Antitumor Effect and Antioxidant Capacity. *Journal of Research in Pharmacy* 26: 770-780, 2022.
92. Hadeia Mashaqbeh, Rana Obaidat, Nizar A Al-Shar'i, **Tamam El-Elimat**, and Soraya Alnabulsi. Weak Complexation of 5-Fluorouracil with β -Cyclodextrin, Carbonate, and Dianhydride Crosslinked β -Cyclodextrin: In Vitro and in Silico Studies. *Research in Pharmaceutical Sciences* 17: 334-349, 2022.
91. Shilpa Kuttikrishnan, Tariq Masoodi, Gulab Sher, Ajaz Bhat, Kalyani Patil, **Tamam El-Elimat**, Nicholas H. Oberlies, Cedric J. Pearce, Mohammad Haris, Aamir Ahmad, Feras Q. Alali, and Shahab Uddin. Bioinformatics Analysis Reveals FOXM1/BUB1B Signaling Pathway as a Key Target of Neosetophomone B in Human Leukemic Cells: A Gene Network-Based Microarray Analysis. *Frontiers in Oncology* 12: 929996, 2022.
90. Mahmoud AbuAlSamen and **Tamam El-Elimat**. Understanding Reciprocity Among University Students in Low-Resource Settings: Validation and Measurement Using a Mixed-Methods Approach. *Frontiers in Public Health* 10: 922892, 2022.
89. Shilpa Kuttikrishnan, Ajaz A. Bhat, Jericha Mateo, Fareed Ahmad, Feras Q. Alali, **Tamam El-Elimat**, Nicholas H. Oberlies, and Cedric J. Pearce. Anticancer Activity of

Neosetophomone B by Targeting AKT/SKP2/MTH1 Axis in Leukemic Cells. *Biochemical and Biophysical Research Communications* 601: 59–64, 2022.

88. Laura Flores-Bocanegra, Zeinab Y. Al Subeh, Joseph M. Egan, **Tamam El-Elimat**, Huzefa A. Raja, Joanna E. Burdette, Cedric J. Pearce, Roger G. Linington, and Nicholas H. Oberlies. Dereplication of Fungal Metabolites by NMR-Based Compound Networking Using MADByTE. *Journal of Natural Products* 85: 614–624, 2022.
87. Shilpa Kuttikrishnan, Kirti S. Prabhu, Ahmed H. Al Sharie, Yazan O. Al Zu'bi, Feras Q. Alali, Nicholas H. Oberlies, Aamir Ahmad, **Tamam El-Elimat**, and Shahab Uddin. Natural Resorcylic Acid Lactones: A Chemical Biology Approach for Anticancer Activity. *Drug Discovery Today* 27: 547–557, 2022.
86. Rafeef K. Massadeh, **Tamam El-Elimat**, Mohammad Al-Gharaibeh, Khaled Tawaha, and Feras Q. Alali. UPLC-HRESI-MS and GC-MS Analysis of the Leaves of *Nicotiana glauca*. *Acta Pharmaceutica* 72: 97–108, 2022.

2021

85. Mahmoud M. AbuAlSamen, **Tamam El-Elimat**, Basima A. Almomani, and Nour A. Al-Sawalha. Knowledge and Perceptions of Synthetic Cannabinoids among University Students in Jordan. *PLoS One* 16: e0253632, 2021.
84. **Tamam El-Elimat**, Mario Figueroa, Huzefa A. Raja, Soraya Alnabulsi, and Nicholas H. Oberlies. Coumarins, Dihydroisocoumarins, a Dibenzo-*a*-pyrone, a Meroterpenoid, and a Merodrimane from *Talaromyces amestolkiae*. *Tetrahedron Letters* 75: 153067, 2021.
83. **Tamam El-Elimat**, Mahmoud M. AbuAlSamen, Basima A. Almomani, Nour A. Al-Sawalha, and Feras Q. Alali. Acceptance and Attitudes toward COVID-19 Vaccines: A Cross-sectional Study from Jordan. *PLoS One* 16: e0250555, 2021.
82. **Tamam El-Elimat**, Huzefa A. Raja, Mario Figueroa, Ahmed H. Al Sharie, Rick L. Bunch, and Nicholas H. Oberlies. Freshwater Fungi as a Source of Chemical Diversity: A Review. *Journal of Natural Products* 84: 898–916, 2021.
81. Osama Y. Alshogran, Shreen D. Nusair, **Tamam El-Elimat**, Karem H. Alzoubi, Abdullah Obeidat, Maya Sweidan. Evaluation of Coenzyme Q10 Combined with or without *N*-Acetyl Cysteine or Atorvastatin for Preventing Contrast-Induced Kidney Injury in Diabetic Rats. *Naunyn-Schmiedeberg's Archives of Pharmacology* 394: 1403-1410, 2021.
80. Nizar A. Al-Shar'i, Qosay A. Al-Balas, Mohammad A. Hassan, **Tamam El-Elimat**, Ghazi A. Al Jabal, and Ammar M. Almaaytah. Ellagic Acid: A potent Glyoxalase-I Inhibitor with a Unique Scaffold. *Acta Pharmaceutica* 71: 115-130, 2021

2020

79. **Tamam El-Elimat**, Mahmoud M. AbuAlSamen, Basima A. Almomani, Nour A. Al-Sawalha, Feras Q. Alali. Acceptance and Attitudes Toward COVID-19 Vaccines: A Cross-Sectional Study from Jordan. *medRxiv* 2020.12.22.20248676; doi: 10.1101/2020.12.22.20248676
78. Karem H. Alzoubi, Laila Abdel-Hafiz, Omar F. Khabour, **Tamam El-Elimat**, Mohammad A. Al-Zubi, and Feras Q. Alali. Evaluation of the Effect of *Hypericum triquetrefolium* Turra on Memory Impairment Induced by Chronic Psychosocial Stress in Rats: Role of BDNF. *Drug Design, Development and Therapy* 2020:14: 5299-5314, 2020.

77. Ruba S. Darweesh, **Tamam El-Elimat**, Aref Zayed, Tareq N. Khamis, Wahby M. Babareesh, Tawfiq Arafat, and Ahmed H. Al Sharie. The Effect of Grape Seed and Green Tea Extracts on the Pharmacokinetics of Imatinib and its Main Metabolite, *N*-Desmethyl Imatinib, in Rats. *BMC Pharmacology and Toxicology* 21: 77, 2020.
76. **Tamam El-Elimat**, Maram B. Alhawarri, José Rivera-Chávez, Joanna E. Burdette, Austin Czarnecki, Mohammad Al-Gharaibeh, Ahmed H. Al Sharie, Ahmed Alhusban, Feras Alali, and Nicholas H. Oberlies. Phenethyisoquinoline Alkaloids from the Leaves of *Androcymbium palaestinum*. *Fitoterapia* 146: 104706, 2020.
75. Ahmed H. Al Sharie, **Tamam El-Elimat**, Yazan O. Al Zu'bi, Abdelwahab J. Aleshawi, and José L. Medina-Franco. Chemical Space and Diversity of Seaweed Metabolite Database (SWMD): A Cheminformatics Study. *Journal of Molecular Graphics and Modelling* 100: 107702, 2020.
74. Zeinab Y. Al Subeh, Huzefa A. Raja, Susan Monroe, Laura Flores-Bocanegra, **Tamam El-Elimat**, Cedric J. Pearce, Sherri A. McFarland, and Nicholas H. Oberlies. Enhanced Production and Anticancer Properties of Photoactivated Perylenequinones. *Journal of Natural Products* 83: 2490–2500, 2020.
73. Abeer Rababa'h, Omar Al Yacoub, **Tamam El-Elimat**, Mo'ath Rabab'ah, Salah Altarabsheh, Salil Deo, Ahmad Al-Azayzih, Aref Zayed, Sayer Al-Azzam, Kareem Alzoubi. The Effect of Hawthorn (*Crataegus* Spp.) on Cardiac Hemostasis and Oxidative Parameters in Sprague Dawley Rats. *Heliyon* 6: e04617, 2020.
72. Aref Zayed, Wahby M. Babareesh, Ruba S. Darweesh, **Tamam El-Elimat**, and Sahar S. Hawamdeh. Piperine Alters the Pharmacokinetics and Anticoagulation of Warfarin in Rats. *Journal of Experimental Pharmacology* 12: 169-179, 2020.
71. Khawla D. Al-Hamaideh, Isra Dmour, **Tamam El-Elimat**, Fatma U. Afifi. UPLC-MS Profile and Anti-Proliferative Activity of the Berries of an Aggressive Wild-Growing Weed: *Solanum elaeagnifolium* Cav. (Solanaceae). *Tropical Journal of Natural Product Research* 4: 1131-1138, 2020.
70. Ruba S. Darweesh, Tareq N. Khamis, **Tamam El-Elimat**. The Effect of Cannabidiol on the Pharmacokinetics of Carbamazepine in Rats. *Naunyn-Schmiedeberg's Archives of Pharmacology* 393: 1871–1886, 2020.
69. Nizar A. Al-Shar'i, Mohammad A. Hassan, Hadil M. Al-Barqi, Qosay A. Al-Balas, **Tamam El-Elimat**. Discovery of Novel Glyoxalase-I Inhibitors Using Computational Fragment-Based Drug Design Approach. *Jordan Journal of Pharmaceutical Sciences* 13: 225-245, 2020.
68. Ahmed H. Al Sharie, **Tamam El-Elimat**, Ruba S. Darweesh, Samer Swedan, Zaina Shubair, Reema Al-Qiam, Hadil Albarqi. Green Synthesis of Zinc Oxide Nanoflowers using *Hypericum triquetrifolium* Extract: Characterization, Antibacterial Activity and Cytotoxicity against Lung Cancer A549 Cells. *Applied Organometallic Chemistry* 34 (8): e5667, 2020.
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GRANTS

- Deanship of Research/ Jordan University of Science and Technology Grant No. 389/2023. Effect of Matcha Tea on the Pharmacokinetics of Nadolol in Rats, amount: JD 4,900. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 326/2023. Phytochemical Analysis and Hepatoprotective Effects of Matcha Tea on Paracetamol-Induced Liver Toxicity in Rats: JD 5,320. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 91/2022. Towards the Establishment of a National Library of Plant Extracts, amount: JD 8,400. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 55/2022. Cytotoxic Alkaloids from *Colchicum tuviae*, amount: JD 5,500. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 283/2021. A Bioherbicide for Weed Control: Safety and Efficacy Studies, Part II. 2020-2021, amount: JD 9,900. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 266/2021. A Bioherbicide for Weed Control: Safety and Efficacy Studies, Part I. 2020-2021, amount: JD 9,100. (Principal Investigator)
- National Center for Research and Development. A Bioherbicide for Weed Control: Safety and Efficacy Studies. 2021-2022, amount JD 16,800. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 572/2020. A Prospective Open-Label Comparative Study of the Effects of Matcha Tea on Obesity. 2020-2021, amount: JD 6,480. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 355/2020. Exploring the Chemical Composition and Anti-Obesity Potential of *Rhus coriaria* L. (Sumac) Fruits. 2020-2021, amount: JD 6,500. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 354/2020. Exploring the Chemical Composition and Anti-inflammatory Effects of Beetroot (*Beta vulgaris* L.) Juice. 2020-2021, amount: JD 6,500. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 91/2019. Exploring the Chemical Composition and Anticancer Potential of *Bellevialia longipes* Post (Asparagaceae). 2019-2020, amount: JD 6,450. (Principal Investigator)

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- Deanship of Research/ Jordan University of Science and Technology Grant No. 258/2017. Investigating the Chemical Composition and Anticancer Potential of *Androcymbium palaestinum* Leaves. 2017-2018, amount: JD 6,510. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 210/2016. Effect of Green Tea Extract on the Pharmacokinetics of Imatinib (Part II). 2016-2018, amount: JD 9,000. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 363/2015. Evaluation of the Effect of Milk thistle Seed Extract on Sleep-Deprivation Induced Memory Impairment. 2015-2017, amount JD 13,500. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 350/2015. Quantitative analysis, Antioxidant Activity, and Total Phenolic Content of Selected Jordanian Pomegranate Cultivars. 2015-2017, amount JD 9,500. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 331/2015. Antioxidant Activity, Total Phenolic Content, and Liquid Chromatography-Mass Spectrometry Analysis of Resveratrol in Selected Jordanian Grape Species. 2015-2017, amount JD 6,500. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 122/2017. Evaluation of the Wound Healing Effects of *Conyza canadensis* and *Hypericum triquetrifolium*. 2017-2019, amount JD 5,850. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology. Studies on Steroid Hormone Levels in Jordanian Wastewaters. (Co-Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology. Assessing the Effect of Silymarin on Diabetes induced Abnormal Angiogenesis. (Co-Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology. Effect of Grape Seed and its Co-administration with Green Tea on the Pharmacokinetics of Imatinib (Part I). (Co-Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology. Effect of Piperine on the Pharmacokinetics of Warfarin in Rats. (Co-Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology. Realistic Physical Nasal Airway Model for the Assessment of Transepithelial Transport of Ciprofloxacin. (Co-Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology. Evaluation of the Effect of Coenzyme Q10 and its Combination with Atorvastatin/ N-acetyl cysteine on Preventing Contrast-induced Kidney Injury in Diabetic Rats. (Co-Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology. The Effect of Omega-3 and/or Dates on Cognitive Impairment Induced by Diabetes. (Co-Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology. The Cardio-protective Effect of Hawthorn in Sprague Dawley Rats. (Co-Principal Investigator)

WORKSHOPS AND CONFERENCES

- The 2023 American Society of Pharmacognosy Annual Meeting Innovation Through Interaction, Rockville, MD, July 22-26, 2023.

- The 4th MENA Regulatory Conference on Bioequivalence, Biowaivers, Bioanalysis, and Dissolution. International Pharmaceutical Research Center (IPRC), Amman, September 19 and 20, 2022.
- Primary Health Care and Welfare. Jordan Vision 2033 Conference. Jordan University of Science and Technology, Irbid, July 28, 2022.
- FREE Project “Female Academic Role Model Empowerment, Equality, and Sustainability at Universities in Mediterranean Region: Towards 2030 Agenda”. Princess Sumaya University for Technology, Amman, June 21-22, 2022.
- “How to Qualify for Accreditation Council for Pharmacy Education (ACPE) International-Accreditation”. ACPE International Services Program and Association of Arab Universities (AAU), Amman, June 6-7, 2022.
- “How to Prepare a Strategic Action Plan” workshop, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, June 2, 2022.
- “Applying Quality Matters Rubric” workshop, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, June 1-2, 2022.
- “Engaging Students in Assessments; Designing, Selecting and Scoring Objective Exams” workshop. Fulbright and Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, May 16, 2022.
- “Formative Assessments of Students Learning; Authentic vs Traditional Assessment Methods; Direct vs Indirect Measures” workshop. Fulbright and Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, May 12, 2022.
- “Designing Courses and Programs; Fundamental Concepts of Learning Outcomes Assessment” workshop. Fulbright and Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, May 11, 2022.
- “Capacity Development for E-learning (Level-1)” workshop, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, March 30-31, 2022.
- “Erasmus+ Information Day: Launching Erasmus+ Phase II (2021-2027)”, National Erasmus Office - Jordan. Amman, November 22, 2021.
- “The Economic Development of Jordan Over the Past 100 Years”, Deanship of Research, Jordan University of Science and Technology, Irbid, August 30-31, 2021.
- “Writing Skills” workshop, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, February 23-24, 2021.
- “Statistical Data Analysis Using SPSS” workshop, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, February 14-15, 2021.
- “Critical and Creative Thinking” workshop, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, January 19-21, 2021.
- “Basics of Distance Education” training course, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, June 7-9, 2020.
- The 9th Annual Meeting of the Middle Eastern Association for Cancer Research (MEACR): Cancer Science from Bench to Clinic, Doha, Qatar, December 7th-8th, 2019.

- The 5th Science and Technology Exchange Program (STEP), Karachi, Pakistan, February 27th to March 2nd, 2019.
- “Online Learning Design” training course, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, December 10-11, 2018.
- The Second Global Forum for Marketing Halal Pharmaceuticals, Halal Pharma 2”. Organized by Princess Sumaya University for Technology and International Islamic Marketing Association. Princess Sumaya University for Technology, Amman, Jordan, December 5th, 2018.
- Jordan-European Union Cooperation in Higher Education Regional Info Day-North of Jordan. Organized by the National Erasmus+ Office-Jordan. Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Wednesday, 26th September 2018.
- The 59th Annual Meeting of the American Society of Pharmacognosy, Lexington, KY, July 21-25, 2018.
- Mark O’Neil-Johnson, Russell Williams, Arvin Moser, and **Tamam El-Elimat**. “One Carbon Based Unit’s/Computer’s Approach to Structure Elucidation”. The 59th Annual Meeting of the American Society of Pharmacognosy, Lexington, KY, Saturday, July 21st, 2018.
- “Problem-Based Learning” training course, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, January 10-11, 2018.
- “Statistical Data Analysis using Minitab” training course, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, January 3-4, 2018.
- IBRO-MENA International Conference and Advanced Neuroscience School in Neurodegenerative Disorders: Translational into Clinical Neurology. Jordan University of Science and Technology, Irbid, November 19th-20th, 2017.
- The Twentieth Congress of the Arab Association of the Faculties of Pharmacy. The Fifth International Conference of the Jordanian Faculties of Pharmacy. The Second International Conference of the Faculty of Pharmacy at Isra University. Amman, November 7-9, 2017.
- The 2nd International Conference on Ethics in Jordan: Clinical Trials. Responsible Conduct of Research Program in collaboration with the School of Pharmacy at JUST. Irbid, August 2-4, 2017.
- The 4th conference for Faculties of Pharmacy in Jordan and JUST International Pharmacy Conference. Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, August 2-4, 2017.
- The 2017 JANA Education Day: “Current Trends in Higher Education, Students’ Success, and Faculty Development”. The Hashemite University, Zarqa, July 23rd, 2017.
- “The Curriculum Mapping” workshop. Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, March 28th, 2017.
- Career Paths, Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, 30th March 2017.
- “Teaching Methods and Learning Styles” Workshop. Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, February 22-23, 2017.
- Career Paths, Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan 2016.

- Career Paths, Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan 13/10/2015.
- The 3rd Scientific Day of the Faculty of Pharmacy, Zarqa University, Zarqa, Jordan 31/3/2015.
- "Innovation Teaching in Higher Education" training course, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, January 4-5, 2015.
- The 2nd Annual Practical Applications of NMR in Industry Conference (PANIC), Charlotte, NC, February 3-5, 2014.
- The 65th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Atlanta, GA, November 12-16, 2013.
- The 54th Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July 13-17, 2013.
- The 30th Triangle Chromatography Symposium, McKimmon Center, NC State University, Raleigh, NC, May 16, 2013.
- Science in the Mountains, North Carolina Biotechnology Center, Appalachian State University, Boone, NC, April 11-12, 2013.
- The 64th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Raleigh, NC, November 14-17, 2012.
- International Congress on Natural Products Research, New York City, NY, July 28- August 1, 2012.
- Liquid Chromatography and Mass Spectrometry Workshop. Thermo Scientific Productivity Series seminar. Research Triangle Park (RTP), NC, Durham, 29 March 2012.
- MS Training Course. Triad Mass Spectrometry Laboratory, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro NC, Greensboro, 17 January- 28 February 2012.
- The Triangle Nuclear Magnetic Resonance (TRIMR) NMR Symposium, organized by the TRIMR Discussion Group of the NC American Chemical Society, sponsored by the North Carolina Section of the American Chemical Society and the David H. Murdock Research Institute. David H. Murdock Research Institute, Kannapolis, NC, December 1, 2011.
- The 52nd Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, July 30-August 3, 2011.
- "Clinical Investigation Training Program (CITP)" workshop, Amman-Jordan 8-9 May 2010, organized by Jordan Food and Drug Administration (JFDA).
- GCP Workshop for Investigators; Amman 14th, March 2010, organized by F. Hoffmann- La Roche AG, Basel, Speaker Kathrin Laubacher, Quality Specialist.
- Quintiles Transnational's online educational program titled "Introduction to Clinical Drug Development Process: ICH/FDA Good Clinical Practice for Clinical Trial Sites", January 2010.
- Training course on Agilent 3200 LC/MS/MS operation, 2009.
- Good Laboratory Practice (GLP) workshop; Amman, 8th and 9th, February 2009, organized by the USAID Jordan Economic Development Program (SABEQ) and the Jordanian Association of Pharmaceutical Manufacturers (JAPM).
- LC/MS/MS Pharmaceutical User Meeting; Amman, 2nd, February 2009.

- Facilitating Clinical Trials in the MENA Region; Amman- Jordan, October 2008.
- "Quality Control and Assay of Herbal Medicinal Products" workshop as a supervisor, a lecturer, and a trainer; Irbid, 3-7/8/2006.
- The 11th Jordanian Pharmaceutical Conference between 28-30th, September 2005 Amman, Jordan.

WEBINARS, ONLINE CONFERENCES, AND WORKSHOPS

- "Curricular Assessment in a Changing Academic Environment", Accreditation Council for Pharmacy Education (ACPE) International Services Program (ISP). Oct 20, 27, Nov 03, 2021.
- "Research Metrics and Evaluation", Elsevier Researcher Academy. Thursday 14 October 2021.
- The 1st Research Collaboration Workshop Between Jordan University of Science and Technology and University of Bradford". July 12-13, 2021.
- "Raising Students' Engagement in Remote Learning Environment" training course, The Queen Rania Teacher Academy, Irbid, January 7th, and 14th, 2021.
- "Research Future with Interdisciplinary Collaborations (An International Webinar @Indo-UK-Jordan Forum)", NIPER-Ahmedabad, September 15th, 2020.

EDITORIAL ACTIVITIES

REFeree/REVIEWER

- Journal of Ethnopharmacology: Elsevier, Amsterdam, Netherlands.
- Journal of Natural Products: ACS Publications, Washington, DC, USA.
- Phytochemistry: Elsevier, Amsterdam, Netherlands.
- Planta Medica: Thieme Medical Publishers, Stuttgart, Germany
- Bioorganic Chemistry: Elsevier, Amsterdam, Netherlands.
- RSC Advances: Royal Society of Chemistry, Cambridge, UK.
- Food & Function: Royal Society of Chemistry, Cambridge, UK.
- Frontiers in Pharmacology: Frontiers Media S.A., Switzerland.
- Phytomedicine, International Journal of Phytotherapy and Phytopharmacology: Elsevier, Netherlands.
- Food Chemistry: Elsevier, Amsterdam, Netherlands.
- Journal of Dietary Supplements: Taylor & Francis; Informa Healthcare, Abingdon, UK.
- Evidence-Based Complementary and Alternative Medicine: Hindawi, London, UK.
- Journal of Herbs, Spices & Medicinal Plants: Taylor & Francis Group, Abingdon, UK.
- Journal of Molecular Graphics and Modelling: Elsevier, Amsterdam, Netherlands.
- Bioorganic Chemistry: Elsevier Inc., United States.
- Journal of Food Biochemistry: Wiley-Blackwell, United States
- PLOS ONE: Public Library of Science, United States
- Saudi Pharmaceutical Journal: King Saud University, Riyadh, Saudi Arabia; Production and Hosting by Elsevier.
- Jordan Journal of Pharmaceutical Sciences: Deanship of Academic Research, University of Jordan, Amman, Jordan.
- Jordan Medical Journal: Deanship of Academic Research, University of Jordan, Amman, Jordan.
- Jordan Journal of Chemistry: Deanship of Research and Graduate Studies, Yarmouk University, Irbid, Jordan.
- Hebron Journal: Deanship of Research, Hebron University, Hebron, Palestine.

GRANT REVIEWING

- Abdul Hameed Shoman Scientific Research Support Fund, Amman, Jordan.
- Scientific Research & Innovation Support Fund, Ministry of Higher Education and Scientific Research, Amman, Jordan.
- Industrial Research and Development Fund, Higher Council for Science and Technology, Amman, Jordan.

CLINICAL TRIALS EXPERIENCE

- "A 24-week multicenter, randomized, double-masked, placebo-controlled study to assess the difference in the rate of recurrent exacerbations in Behçet's patients with posterior or panuveitis treated with AIN457 vs placebo adjunctive to standard-of-care immunosuppressive therapy", sponsored by Novartis Pharmaceuticals, 2010.
- "Randomized, double-blind, triple-dummy trial to compare the efficacy of otamixaban with unfractionated heparin + eptifibatide, in patients with unstable angina/Non ST segment elevation myocardial infarction scheduled to undergo an early invasive strategy", sponsored by Sanofi Aventis, 2010.

LANGUAGES

- Arabic: Mother tongue
- English: Fluent in both spoken and written

RESEARCH METHODS AND SCIENTIFIC TECHNIQUES

- Expertise in using state of art chromatographic techniques: HPLC (analytical and preparative), UPLC, LC/MS, GC/MS, open columns, preparative TLC, and flash chromatography including new chromatographic methods' development.
- Extensive experience in small molecule structure determination using 1D-NMR (^1H , ^{13}C , and DEPT) and 2D NMR (HSQC, edited-HSQC, HMBC, COSY, NOESY, and ROESY), HRMS, HRMS/MS, UV, CD, and IR.
- Excellent experience in determining the absolute configuration of stereogenic carbinol carbons.
- Medicinal plant evaluation, toxicity, and efficacy studies of natural extracts and pure compounds.
- Operate a JEOL ECA-500, a JEOL ECS-400, and Agilent 700 MHz NMR spectrometers.
- Operate a Thermo Fisher Scientific LTQ Orbitrap XL, a Thermo QExactive Plus, and a Synapt G2 HDMS (q-tof) mass spectrometers.

SKILLS**COMPUTER SKILLS**

- Experience in using MS Office applications.
- Excellent knowledge of the scientific search engine.

OTHER SKILLS

- Excellent experience in using the following software: Chemdraw, EndNote, BSLT Finney program, Dragon: software for molecular descriptor calculation, Delta™ NMR Data Processing Software, Thermo Scientific Xcalibur software, Empower®, a chromatography data software, Galaxie® Chromatography Software, ACD/1D NMR Manager, ACD/NMR Predictors, ACD/ChemSketch, ACD/IntelliXtract, ACD/MS Fragmenter, ACD/MS Manager, Origin, GraphPad Prism, and Thermo Scientific ExactFinder software.

- Biorender: A web-based application for creating scientific figures, diagrams, and illustrations.
- Excellent knowledge of research methodologies.
- Grant proposal writing.

PROFESSIONAL MEMBERSHIP

- Member of the American Society of Pharmacognosy.
- Member of Jordanian Pharmacists Association.
- Member of the American Society of Chemistry (2020/2021).

ORAL AND POSTER PRESENTATIONS

- Maram Hasan, Shilpa Kuttikrishnan, **Tamam El-Elimat**, Nicholas H. Oberlies, Cedric J. Pearce, Feras Q. Alali, Shahab Uddin, Huseyin Yalcin. Assessment of Anticancer Activity of Neosetophomone B *In Vivo* using Zebrafish Xenograft Model. Annual Research Forum & Exhibition 2023, Doha, Qatar, November 14-15, 2023. (Poster)
- **Tamam El-Elimat**, T'ea Cameron, Perihan Gürbüz, Huzefa A. Raja, Manead Khin, Joanna E. Burdette, and Nicholas H Oberlies. A 8,8'-Binaphthopyranone and Xylarenones with Cytotoxic Activity from A Freshwater Fungus (G708). The 2023 American Society of Pharmacognosy Annual Meeting, Rockville, MD, July 22-26, 2023. (Poster)
- **Tamam El-Elimat**, Kristof B. Cank, Huzefa A. Raja, Steven P. Maher, Adriana A. Marin, Anthony A. Ruberto, Sarah Lee Mai, Blaise A. Darveaux, Dennis E. Kyle, Cedric J. Pearce, and Nicholas H. Oberlies. Dihydroquinoline-2-ones, Diketopiperazines, Cyclic Tetra and Pentapeptides, and a Polyketide from an *Aspergillus* sp. (MSX25804): Isolation and Antimalarial Activities. The 2023 American Society of Pharmacognosy Annual Meeting, Rockville, MD, July 22-26, 2023. (Poster)
- **Tamam El-Elimat**, Reema Al-Qiam, Ahmed H. Al Sharie, Mohammad Al-Gharaibeh, Manead Khin, Joanna E. Burdette, and Nicholas H. Oberlies. Homoisoflavonoids with Cytotoxic Activity from the Bulbs of *Bellevalia desertorum*. The 2023 American Society of Pharmacognosy Annual Meeting, Rockville, MD, July 22-26, 2023. (Poster)
- **Tamam El-Elimat**, Ramzi T. Munaïem, Reema Al-Qiam, Mohammad Al-Gharaibeh, Lara Fakhouri, Ahmed H. Al Sharie, Manead Khin, Joanna E. Burdette, and Nicholas H. Oberlies. Cytotoxic Colchicinoids from *Colchicum tuviae* Feinbrun (Colchicaceae). The 2023 American Society of Pharmacognosy Annual Meeting, Rockville, MD, July 22-26, 2023. (Poster)
- Hadi Pourhadi, **Tamam El-Elimat**, Manuel R. Grimaldo, Huzefa A. Raja, Cody Earp, Tyler N. Graf, Warren S. Vidar, Manead Khin, Nadja B. Cech, Joanna E. Burdette, Cedric J. Pearce, and Nicholas H. Oberlies. Fluorination of Diepoxin-η: Characterization and Anticancer Activity Evaluation of Semisynthetic Derivatives of Spirobisnaphthalenes. The 2023 American Society of Pharmacognosy Annual Meeting, Rockville, MD, July 22-26, 2023. (Poster)
- Christian A. Espinoza-Barrios, Colby M. Laws, Victoria M. Anderson, T'ea P. Cameron, **Tamam El-Elimat**, Huzefa A. Raja, Nadja B. Cech, and Nicolas H. Oberlies. "Metabolomic Investigation of Soil Fungi in the Search for Gram-Positive & Gram-Negative Antimicrobial Activity". The 2023 American Society of Pharmacognosy Annual Meeting, Rockville, MD, July 22-26, 2023. (Poster)
- **El-Elimat, T.** "Fungi as Invaluable Source for Cancer Drug Discovery" The 9th Annual Meeting of the Middle Eastern Association for Cancer Research (MEACR): Cancer Science from Bench to Clinic, Doha, Qatar, December 7th-8th, 2019. (Oral)
- **El-Elimat, T.** "Natural Products: Promising Resources for Cancer Drug Discovery" The 5th Science and Technology Exchange Program (STEP), Karachi, Pakistan, February 27th to March, 2nd, 2019. (Oral)

- **El-Elimat, T.**, M. B. Alhawarri, J. Rivera-Chávez, J. E. Burdette, A. Czarnecki, F. Alali, N.H. Oberlies. "Investigation of the Chemical Composition and Anticancer Potential of *Androcymbium palaestinum baker* (Colchicaceae) Leaves" The 59th American Society of Pharmacognosy Annual Meeting, American Society of Pharmacognosy, Lexington, KY, July 22-25, 2018. (Poster)
- Gallagher, J. M., J. Rivera-Chávez, **T. El-Elimat**, T. N. Graf, J. Fournier, G. K. Panigrahi, G. Deep, R. L. Bunch, H. A. Raja, N. H. Oberlies. "An Overview of Delitpyrones: α -Pyrone Derivates from a Freshwater *Delitschia* sp." The 59th American Society of Pharmacognosy Annual Meeting, American Society of Pharmacognosy, Lexington, KY, July 22-25, 2018. (Poster)
- Al Subeh, Z., **T. El-Elimat**, M. A. AlSamen, K. H. Alzoubi, T. N. Graf, N. H. Oberlies. "Silymarin Prevents Memory Impairments, Anxiety, and Depressive-like Symptoms in a Rat Model of Post-Traumatic Stress Disorder" The 59th American Society of Pharmacognosy Annual Meeting, American Society of Pharmacognosy, Lexington, KY, July 22-25, 2018. (Poster)
- **El-Elimat, T.** "Making the Leap To JUST: A Personal Reflection on My Transition from Student to Professor". Medicinal Chemistry Collaborative (MCSquared), Monday, July 16th, Greensboro, NC. (Oral)
- Feras Alali, Alaaeldin I. Saleh, Ali Eid, **Tamam El-Elimat**. 7-O-Methylpunctatin Suppresses Migration, Invasion, and Adhesion of Human Breast Cancer Cells through MAPK, Akt, and NF- κ b Pathways. The Twentieth Congress of the Arab Association of the Faculties of Pharmacy. The Fifth International Conference of the Jordanian Faculties of Pharmacy. The Second International Conference of the Faculty of Pharmacy at Isra University. Amman, November 7-9, 2017. (Poster)
- **Tamam El-Elimat**. "Drug Discovery: Betting on Natural Products". Phi's Research and Innovation Summit 2017. Amman, August 26th, 2017. (Oral)
- **Tamam El-Elimat**, Alaaeldin I. Saleh, José Rivera-Chávez, Joanna E. Burdette, Mohammad Al-Gharaibeh, Ali Eid, Feras Alali, and Nicholas H. Oberlies. "Homoisoflavonoids: Promising Natural Anticancer Scaffolds". The 4th Conference for Faculties of Pharmacy in Jordan and JUST International Pharmacy Conference. Jordan University of Science and Technology, Irbid, August 2-4, 2017. (Oral)
- Paguigan, N.D., **T. El-Elimat**, D. Kao, H.A. Raja, C.J. Pearce, N.H. Oberlies. "Dereplication of Fungal Natural Products by Use of Mass Defect Filtering" 32nd Triangle Chromatography Symposium, McKimmon Center, NC State University, Raleigh, NC, May 12, 2016. (Poster)
- Paguigan, N.D., **T. El-Elimat**, D. Kao, H.A. Raja, C.J. Pearce, N.H. Oberlies. Dereplication of Fungal Secondary Metabolites by UPLC-PDA-HRMS-MS/MS and Mass Defect Filtering. 64th ASMS Conference on Mass Spectrometry and Allied Topics 2016, 5-9 June 2016, San Antonio, United States. (Poster)
- HA Raja, **T. El-Elimat**, CA Shearer, AN Miller, K Tanaka, NH Oberlies. Chemical mycology of freshwater ascomycetes from North Carolina, USA. The 56th Annual Meeting of the American Society of Pharmacognosy, Copper Mountain, Colorado, July 2015. Planta Medica 2015; 81-PT9. (Poster)
- VP Sica, HA Raja, **T. El-Elimat**, V Kertesz, GJ Van Berkel, CJ Pearce, NH Oberlies. Profiling fungal cultures in situ via the droplet-LMJ-SSP coupled with UPLC-PDA-HRMS-MS/MS. The 56th Annual Meeting of the American Society of Pharmacognosy, Copper Mountain, Colorado, July 2015. Planta Medica 2015; 81-PR1. (Poster)
- Sica, V.P., H.A. Raja, **T. El-Elimat**, V. Kertesz, G.J. Van Berkel, C.J. Pearce, N.H. Oberlies. "Profiling Fungal Cultures in situ via the Droplet-LMJ-SSP Coupled with UPLC-PDA-HRMS-MS/MS." The 63rd American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, St. Louis, MO, May 31-June 4, 2015. (Poster)

- Sica, V.P., H.A. Raja, **T. El-Elimat**, N.H. Oberlies. "Probing the Spatial Distribution of Acetogenins from *Asimina triloba*" The 15th Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, April 14, 2015. (Poster)
- Paguigan, N.D., H.A. Raja, C.S. Day, **T. El-Elimat**, D.B. Zich, J.M. Egan, N.B. Cech, and N.H. Oberlies. "Chemical Investigation of Secondary Metabolites from Freshwater Ascomycetes." The 53rd Annual Meeting of the Phytochemical Society of North America, August 9-13, 2014. (Poster)
- Raja, H.A., C.A. Shearer, A.N. Miller, K. Tanaka, J. Fournier, **T. El-Elimat**, N.H. Oberlies. "Minutisphaeraceae (Dothideomycetes, Ascomycota), a new family of freshwater ascomycetes including two new species from North Carolina, USA". MSA Meeting, East Lansing, Michigan. June 8-12, 2014. (Oral)
- **El-Elimat, T.**, V.P. Sica, T.N. Graf, T.R. Baker, J.G. Little, N.H. Oberlies. "Profiling of Mushrooms Using a UHPLC/UV/ELSD/HRMS Dereplication Protocol: A Component of the Safety Assessment Process." The 55th Annual American Society of Pharmacognosy Meeting/14th Annual Oxford International Conference on the Science of Botanicals, Oxford, MS, August 2-6, 2014. *Planta Medica* 2014, 80, 828. (Poster)
- Sica, V.P., H.A. Raja, **T. El-Elimat**, N.H. Oberlies. "Techniques for DESI-MS Imaging of Fungal Cultures to Explore Chemical Interactions in situ." The 62nd American Society for Mass Spectrometry (ASMS) Conference on Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014. (Poster)
- Sica, V.P., H.A. Raja, **T. El-Elimat**, N.H. Oberlies. "Techniques for DESI-MS Imaging of Fungal Cultures to Explore Chemical Interactions in situ." The 55th Annual American Society of Pharmacognosy Meeting/14th Annual Oxford International Conference on the Science of Botanicals, Oxford, MS, August 2-6, 2014. *Planta Medica* 2014, 80, 829. (Poster)
- Kao, D.; A. Kaur, H.A. Raja, **T. El-Elimat**, M. Oberhofer, M. Juzumaite, T.V. Gullege, S.M. Laster, N.B. Cech, S.H. Faeth, N.H. Oberlies. "Chemical Investigation of Fungal Endophytes from *Echinacea purpurea*." The 55th Annual American Society of Pharmacognosy Meeting/14th Annual Oxford International Conference on the Science of Botanicals, Oxford, MS, August 2-6, 2014. *Planta Medica* 2014, 80, 773. (Poster)
- Paguigan, N.D., H.A. Raja, **T. El-Elimat**, N.H. Oberlies. "New Polyketides from a Freshwater Lindgomycetaceae." The 55th Annual American Society of Pharmacognosy Meeting/14th Annual Oxford International Conference on the Science of Botanicals, Oxford, MS, August 2-6, 2014. *Planta Medica* 2014, 80, 775. (Poster)
- Paguigan, N.D., H.A. Raja, C.S. Day, **T. El-Elimat**, D.B. Zich, J.M. Egan, N.B. Cech, and N.H. Oberlies. "Chemical Investigation of Secondary Metabolites from Freshwater Ascomycetes." The 53rd Annual Meeting of the Phytochemical Society of North America, August 9-13, 2014. (Poster)
- **El-Elimat T.**, H.A. Raja, T.N. Graf, N.B. Cech, N.H. Oberlies. "Flavonolignans from *Aspergillus iizukae*: a Fungal Endophyte of Milk Thistle (*Silybum marianum*)". Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, April 1, 2014. (Poster)
- **El-Elimat T.**, H. Raja, N.H. Oberlies. "Cyclodepsipeptides, α -Pyrone Derivatives and Secalonic Acids from Freshwater *Massariosphaeria* sp". The 2nd Annual Practical Applications of NMR in Industry Conference (PANIC), Charlotte, NC, February 3-5, 2014. (Poster)
- Kaur A., H. Raja, M. Figueroa, **T. El-Elimat**, N.B. Cech, S.H. Faeth, N.H. Oberlies. "Structure Elucidation of Diverse Secondary Metabolites from Fungal Endophytes of the Medicinal Herb, Milk Thistle". The 2nd Annual Practical Applications of NMR in Industry Conference (PANIC), Charlotte, NC, February 3-5, 2014. (Poster)

- Paguigan N.D., H. Raja, **T. El-Elimat**, N.H. Oberlies. "New Polyketides from a Freshwater Lindgomycetaceae sp". The 2nd Annual Practical Applications of NMR in Industry Conference (PANIC), Charlotte, NC, February 3-5, 2014. (Poster)
- Sica V.P., H.A. Raja, **T. El-Elimat**, N.H. Oberlies. "Applying Desorption Electrospray Ionization to Streamline the Discovery of Bioactive Compounds from Fungi". The 14th Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, April 1, 2013. (Poster)
- Paguigan N.D., H.A. Raja, **T. El-Elimat**, N.H. Oberlies. "New Polyketides from a Freshwater Lindgomycetaceae sp". The 14th Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, April 1, 2013. (Poster)
- Kaur A., H.A. Raja, M. Figueroa, **T. El-Elimat**, N.B. Cech, S.H. Faeth, N.H. Oberlies. "Structure Elucidation of Diverse Secondary Metabolites from Fungal Endophytes of the Medicinal Herb, Milk Thistle". The 14th Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, April 1, 2013. (Poster)
- **El-Elimat T.**, H.A. Raja, T.N. Graf, N.B. Cech, N.H. Oberlies. "Sustainable Production of Flavonolignans from a Fungal Endophyte of *Silybum marianum*". The 65th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Atlanta, GA, November 12-16, 2013. (Poster)
- Paguigan N.D., **T. El-Elimat**, C.J. Pearce, N.H. Oberlies. "High Resolution MS, MS/MS Database Using LTQ-Orbitrap XL Mass Spectrometer Interfaced with HESI for Dereplication of Fungal Secondary Metabolites". The 65th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Atlanta, GA, November 12-16, 2013. (Poster)
- Sica V., N. Oberlies, B. Ehrmann, H. Raja, **T. El-Elimat**. "Applying Desorption Electrospray Ionization to Streamline the Discovery of Bioactive Compounds from Fungi". The 65th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Atlanta, GA, November 12-16, 2013. (Poster)
- **El-Elimat T.**, M. Figueroa, T.N. Graf, A.F. Adcock, D.J. Kroll, S.M. Swanson, M.C. Wani, C.J. Pearce, N.H. Oberlies. "Cytotoxic Polyketides from an Unidentified Fungus (MSX45109)". The 54th Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July 13-17, 2013. *Planta Medica* 2013, 79, PL13. (Poster)
- **El-Elimat T.**, H. Raja, N.H. Oberlies. "Cyclodepsipeptides, α -Pyrone Derivatives and Secalonic Acids from Two Unidentified Freshwater Fungi (G100 and G102). The 54th Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July 13-17, 2013. *Planta Medica* 2013, 79, PL12. (Poster)
- Figueroa M., **T. El-Elimat**, H. Raja, J.O. Falkinham III, S.M. Swanson, C.J. Pearce, N.H. Oberlies. "Novel Xanthone Dimers and Azaphilones from *Phomopsis* sp. (MSX 54505): Isolation, Structure Elucidation, and Biological Activity". The 54th Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July 13-17, 2013. *Planta Medica* 2013, 79, PL29. (Poster)
- Raja H.R., A. Kaur, M. Figueroa, **T. El-Elimat**, N.B. Cech, S.H. Faeth, N.H. Oberlies. "Mycology and Chemical Investigations of Fungal Endophytes from Medicinal Herbs (Milk Thistle and Goldenseal)". The 54th Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July 13-17, 2013. *Planta Medica* 2013, 79, PL23. (Poster)
- Paguigan N.D., **T. El-Elimat**, C.J. Pearce, N.H. Oberlies. "A High-Resolution MS, MS/MS Database Using LTQ-Orbitrap XL Mass Spectrometer Interfaced with H-ESI for Dereplication of Fungal Secondary Metabolites". The 54th Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July 13-17, 2013. *Planta Medica* 2013, 79, PL1. (Poster)

- Bussey R.O. III, **T. El-Elimat**, A. Kaur, H.A. Raja, N.H. Oberlies, N.B. Cech. "Antimicrobial Endophytes from the Antimicrobial Botanical *Yerba mansa* (*Anemopsis californica*)". The 54th Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July 13-17, 2013. *Planta Medica* 2013, 79, PN20. (Poster)
- **El-Elimat T.**, H. Raja, N.H. Oberlies. "Cyclodepsipeptides, α -Pyrone Derivatives and Secalonic Acids from Two Unidentified Freshwater Fungi (G100 and G102). The 30th Triangle Chromatography Symposium, McKimmon Center, NC State University, Raleigh, NC, May 16, 2013. (Poster)
- Figueroa M., V.P. Sica, **T. El-Elimat**, C.J. Pearce, N.H. Oberlies. "A Fungal Derived Herbicide for Organic Farming". Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, March 26, 2013. The 30th Triangle Chromatography Symposium, McKimmon Center, NC State University, Raleigh, NC, May 16, 2013. (Poster)
- **El-Elimat T.**, H. Raja, N.H. Oberlies. "Cyclodepsipeptides, α -Pyrone Derivatives and Secalonic Acids from Two Unidentified Freshwater Fungi (G100 and G102). Science in the Mountains, North Carolina Biotechnology Center, Appalachian State University, Boone, NC, April 11-12, 2013. (Poster)
- **El-Elimat T.**, M. Figueroa, B.M. Ehrmann, N.B. Cech, C.J. Pearce, N.H. Oberlies. "A High-Resolution MS, MS/MS and UV Library of Fungal Secondary Metabolites as a Dereplication Protocol for Bioactive Natural Products". Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, March 26, 2013. (Poster)
- Paguigan N.D., **T. El-Elimat**, H. Raja, N.H. Oberlies. "Xanthonones and Peptaibols from Two Mitosporic Freshwater Fungi (*Dictyosporium* sp. And *Zalerion*)". Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, March 26, 2013. (Poster)
- Figueroa M., V.P. Sica, **T. El-Elimat**, C.J. Pearce, N.H. Oberlies. "A Fungal Derived Herbicide for Organic Farming". Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, March 26, 2013. (Poster)
- **El-Elimat T.**, M. Figueroa, B.M. Ehrmann, N.B. Cech, C.J. Pearce, N.H. Oberlies. "A High-Resolution MS, MS/MS and UV Library of Fungal Secondary Metabolites as a Dereplication Protocol for Bioactive Natural Products". The 64th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Raleigh, NC, November 14-17, 2012. (Poster)
- Figueroa M., H. Raja, **T. El-Elimat**, J.S. Kavanaugh, H.R. Horswill, A. Jarmusch, R.G. Cooks, N.B. Cech, N.H. Oberlies. "Fungal Blood: Natural Products Chemistry of an Endophytic *Penicillium* sp. (G85) from Milk Thistle [*Silybum marianum* (L.) Gaertn. (Asteraceae)]". The 64th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Raleigh, NC, November 14-17, 2012. (Poster)
- **El-Elimat T.**, B.M. Ehrmann, N.B. Cech, C.J. Pearce, N.H. Oberlies. "De-Inventing the Wheel: Dereplication Tools for Natural Products Research". 2012 David J Slatkin Symposium, Chicago, October 20, 2012.
- **El-Elimat T.**, B.M. Ehrmann, N.B. Cech, C.J. Pearce, N.H. Oberlies. "De-Inventing the Wheel: Dereplication Tools for Natural Products Research". International Congress on Natural Products Research. New York City, NY, July 28- August 1, 2012. (Poster)
- **El-Elimat T.**, M. Figueroa, T.N. Graf, A.F. Adcock, D.J. Kroll, M.C. Wani, C.J. Pearce, N.H. Oberlies. "Two Benzoquinones and One Terphenyl Compound from an Unidentified Fungus (MSX 47445)". International Congress on Natural Products Research. New York City, NY, July 28- August 1, 2012. (Poster)

- **El-Elimat T.**, B.M. Ehrmann, N.B. Cech, C.J. Pearce, N.H. Oberlies. "De-Inventing the Wheel: Dereplication Tools for Natural Products Research". The 60th ASMS Conference on Mass Spectrometry and Allied Topics. Vancouver, BC, Canada, May 20-24, 2012. (Poster)
- **El-Elimat T.**, M. Figueroa, T.N. Graf, A.F. Adcock, D.J. Kroll, M.C. Wani, C.J. Pearce, N.H. Oberlies. "Two Benzoquinones and One Terphenyl Compound from an Unidentified Fungus (MSX 47445)". The 12th Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, April 3, 2012. (Poster)
- **El-Elimat T.**, B.M. Ehrmann, N.B. Cech, C.J. Pearce, N.H. Oberlies. "Dereplication of Fungal Secondary Metabolites". The 125th North Carolina American Chemical Society Sectional Conference, Raleigh, NC, September 30, 2011. Abstract 113. (Poster)
- **El-Elimat T.**, B.M. Ehrmann, N.B. Cech, C.J. Pearce, N.H. Oberlies. "Dereplication of Fungal Secondary Metabolites". Triangle Area Mass Spectrometry Discussion Group (TAMS), Annual Poster/Vendor Night, Research Triangle Park (RTP), NC, October 12, 2011. (Poster)
- **El-Elimat T.**, F.J. Moy, C.J. Pearce, J. Orjala, N.H. Oberlies. "Analysis of the Chemical Diversity of Secondary Metabolites from Filamentous Fungi and Cyanobacteria Compared to Anticancer Drugs". 11th Annual Poster and Vendor Night, Central North Carolina Section of the American Chemical Society, Greensboro, NC, April 13, 2011. (Poster)

TEACHING

ONLINE AND DISTANCE EDUCATION

- Synchronous Education
 - Zoom Video Communications
 - Microsoft Teams
- Asynchronous Education
 - E-Learning Moodle
 - Video-based Lectures; YouTube

GRADUATE COURSE INSTRUCTOR

- *Organic Structure Determination* (PHAR722). Jordan University of Science and Technology (Fall, 2018; Fall, 2019; Fall 2020, Fall 2021, Fall 2023).
- *Advanced Biosynthesis* (PHAR732). Jordan University of Science and Technology (Spring, 2017).
- *Medicinal and Natural Products Analysis* (PHAR722). Jordan University of Science and Technology (Fall, 2014; Fall 2015; Fall 2017).
- *Literature Seminar* (PHAR709). Jordan University of Science and Technology (Spring, 2014, 2015, 2016, 2018).
- *Research Methodology* (PHAR720). Jordan University of Science and Technology (Fall, 2015; Fall 2017; Fall 2018; Fall 2019; Fall 2020, Fall 2021, Fall 2023).
- *Drug Discovery from Nature* (PHAR731). Jordan University of Science and Technology (Spring 2021).
- *Stereochemistry* (PHAR723). Jordan University of Science and Technology (Spring 2021; Spring 2022).

UNDERGRADUATE COURSE INSTRUCTOR

- *Organic Chemistry Laboratory* (CHE354). The University of North Carolina at Greensboro (Spring 2023).

- *Pharmaceutical Practical Training* (PHAR401). Jordan University of Science and Technology (Summer 2017; Summer 2020, Summer 2021, Summer 2022).
- *Phytotherapy* (PHMD431). Jordan University of Science and Technology (Fall 2014, Spring 2015, Summer 2015, Fall 2015, Fall 2016; Summer 2017; Fall 2017; Fall 2018; Summer 2019, Fall 2019; Spring 2021).
- *Chemistry of Natural Products* (PHMD332). Jordan University of Science and Technology (Spring 2015, Summer 2015, Spring 2016; Spring 2017; Spring 2018; Spring 2019, Spring 2020; Spring 2021, Spring 2022).
- *Pharmacognosy and Phytochemistry* (PHAR334). Jordan University of Science and Technology (Spring 2020).
- *Pharmaceutical Analytical Chemistry & Instrumental Analysis Lab* (PHAR 329). Jordan University of Science and Technology (Fall 2019).
- *Pharmacognosy and Phytochemistry Lab* (PHAR336). Jordan University of Science and Technology (Fall 2019).
- *Introduction to Pharmacy* (PHAR122). Jordan University of Science and Technology (Spring 2022).

UNDERGRADUATE COURSE TEACHING ASSISTANT

- *Organic Chemistry*. Prof. Phillip Bowen, The University of North Carolina at Greensboro (two sections Fall 2010 and Spring 2011); Dr. Robert Banks, The University of North Carolina at Greensboro (Fall 2010); Dr. Nina Heard, The University of North Carolina at Greensboro (Fall 2012).
- *General Chemistry*. Dr. Edwar Shamshoum, The University of North Carolina at Greensboro (Fall 2012); Shelby Hudson, The University of North Carolina at Greensboro (Fall 2010).

GRADUATE STUDENTS' SUPERVISION

- Rim Al-Shaibani:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. 2023.
 - Thesis title: "Exploring the Chemical Composition and Anticancer Potential of *Scilla hanburyi* Baker (Asparagaceae)".
- Razan Jarar:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. 2023.
 - Thesis title: "Phytochemical Analysis of Anise Sprouts".
- Zahraa Obaidat:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. 2023.
 - Thesis title: "Phytochemical Analysis and Hepatoprotective Effect of Matcha Tea on Paracetamol-Induced Liver Toxicity in Rats".
- Eslam Mashaqbeh:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. 2023.
 - Thesis title: "Effect of Matcha Tea on the Pharmacokinetics of Nadolol in Rats".
- Ramzi Munaem:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, July 2022.

- Thesis title: "Cytotoxic Alkaloids from *Colchicum tuviae*".
- Walaa Qasim:
 - M.Sc., Nutrition, Department of Nutrition and Food Technology, Faculty of Agriculture, Jordan University of Science and Technology, January 2022.
 - Thesis title: "A Prospective Open-Label Comparative Study of the Effects of Matcha Tea on Obesity".
- Bayan Al-Tal:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, December 2021.
 - Thesis title: "Phytochemical Analysis and Hepatoprotective Effects of *Rhus coriaria* L. (Sumac) Fruits on Paracetamol-Induced Liver Toxicity in Rats".
- Abdullah Alkhwilani:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, October 2021.
 - Thesis title: "Exploring the Chemical Composition and Anti-Inflammatory Effect of Beetroot (*Beta vulgaris* L.) Juice in a Murine Model of Asthma".
- Reema AlQiam:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, November 2019.
 - Thesis title: "Exploring the Chemical Composition and Anticancer Potential of *Bellevalia longipes* Post (Asparagaceae)".
- Maram Hawari:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. March 2018.
 - Thesis title: "Investigating the Chemical Composition and Anticancer Potential of *Androcymbium palaestinum* Leaves".
- Haya Al-Qaderi:
 - M.Sc., Pharmacognosy, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. March 2018.
 - Thesis title: "Evaluation of the Wound Healing Effects of *Conyza canadensis* and *Hypericum triquetrifolium*".
- Bara`a Ahmad Ali Jarwan:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. January 2017.
 - Thesis title: "Antioxidant Activity, Total Phenolic Content, and Liquid Chromatography-Mass Spectrometry Analysis of Resveratrol in Selected Jordanian Grape Species".

GRADUATE STUDENTS CO-SUPERVISION

- Eyad Ghaith:
 - M.Sc., Toxicology and Forensic Science, Department of Legal Medicine, Toxicology and Forensic Medicine, Faculty of Medicine, Jordan University of Science and Technology, 2020.
 - Thesis title: "Omega 3 and Dates Palm Effects on the Cognitive and Memory Impairment Induced by Oxidative Stress from Diabetes Mellitus".
- Tariq Khamis:
 - M.Sc., Pharmaceutical Technology, Department of Pharmaceutical Technology, Faculty of Pharmacy, Jordan University of Science and Technology, 2018.
 - Thesis title: "Effect of Cannabidiol on the Pharmacokinetics of Carbamazepine".

- Anaam Khazalah:
 - M.Sc., Clinical Pharmacy, Department of Clinical Pharmacy, Faculty of Pharmacy, Jordan University of Science and Technology, 2017.
 - Thesis title: "Assessing the Effect of Silymarin on Diabetic-Induced Abnormal Angiogenesis".

GRADUATE STUDENTS COMMITTEE MEMBERSHIP

- Toga Zghool:
 - M.Sc., Pharmaceutical Technology, Department of Pharmaceutical Technology, Faculty of Pharmacy, Jordan University of Science and Technology, January 2021.
 - Thesis title: "Enhancement of Antimicrobial Activity of Herbal Extracts against *Pseudomonas aeruginosa*"
- Rawan Al Jammal:
 - M.Sc., Nutrition and Food Technology, Department of Nutrition and Food Technology, Faculty of Agriculture, Jordan University of Science and Technology, September 2019.
 - Thesis title: "Investigating the Antidiabetic Effects of Rosemary Oil: An *In-vivo* Study"
- Wahby Babareesh:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, January 2019.
 - Thesis title: "HPLC-FLD Method for Determination of Warfarin and 7-Hydroxywarfarin Metabolite in Rat Plasma: Application to Study the Effect of Piperine on Warfarin Pharmacokinetics"
- Basim Kassib:
 - M.Sc., Pharmacognosy, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, November 2016.
 - Thesis title: "Isolation, Characterization, and Biological Evaluation of Active Components of *Verbascum sinaiticum* Benth. Roots (Scrophulariaceae)"
- Dua Saeed Alsinglawi:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, May 2015.
 - Thesis title: "Liquid Chromatography-Mass Spectrometry Analysis of the Methanolic Extract of *Withania obtusifolia* Taechk. (Solanaceae) and its Antiproliferative Activity against Human Cancer Cell Lines".
- Bayan Alshihab:
 - M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, May 2015.
 - Thesis title: "Liquid Chromatography-Mass Spectrometry Analysis of the Methanolic Extract of *Hypericum libanoticum* N.K.P Robson (Hypericaceae) and its Antiproliferative Activity against Human Cancer Cell Lines".

COMMITTEE ASSIGNMENTS

- Faculty Scientific Research Committee: 2023-2024: Chair
- Faculty Accreditation and Quality Control Committee: 2021-2022: Chair
- University Library Committee: 2021-2022: Member
- Malaysian Accreditation Committee: 2022: Member
- Faculty Strategic Plan Committee: 2022: Chair
- Faculty of Pharmacy Board, 2017-2018, 2018-2019; 2019-2020; 2020-2021, 2021-2022: Member
- Departmental Scientific Research Committee, 2021-2022, 2023-2024: Member
- Departmental Scientific Research Committee, 2018-2019; 2019-2020; 2020-2021: Chair
- Departmental Graduate Studies Committee, 2018-2019; 2019-2020; 2020-2021: Chair
- Undergraduate Scientific Research Committee: 2020-2021, 2023-2024: Member

- Faculty Graduate Studies Committee, 2018-2019; 2019-2020; 2020-2021: Member
- Courses Equivalency Committee, 2016-2017, 2018-2019: Member
- Faculty Social Committee, 2018-2019; 2021-2022: Member
- Laboratory and Supplies Committee, 2018-2019; 2019-2020; 2020-2021: Member
- Faculty Accreditation and Quality Control Committee, 2021-2022: Chair
- Faculty Accreditation and Quality Control Committee, 2017-2018, 2018-2019; 2019-2020; 2020-2021, 2023-2024: Member
- Faculty Assessment Committee, 2018-2019; 2019-2020; 2021-2022, 2023-2024: Member
- Faculty Assessment Committee, 2020-2021: Chair
- Curriculum and Course Schedule Committee, 2018-2019; 2019-2020; 2020-2021: Member
- National Committee of Narcotics, Antinarcotics Department, Public Security Directorate, 2017-2018: Member
- Faculty Quality Control of Courses Committee, 2017-2018: Member
- Community Pharmacy Training Committee: 2020-2021; 2021-2022: Member
- Departmental Scientific Research Committee, 2017-2018; 2018-2019, 2019-2020; 2020-2021: Chair
- Faculty Conferences and Scientific Days Committee, 2017-2018: Member
- Faculty Committee for Scientific and Cultural Affairs: 2016-2017: Member
- University Website Committee, 2015-2016: Member
- University Job Fair Committee, 2015-2016: Member
- Faculty Website Committee, 2015-2016: Member
- Faculty Committee for Social Affairs, 2015-2016: Member
- Faculty Committee for Training, 2015-2016: Head
- Accreditation Council for Pharmacy Education (ACPE) Central Faculty Committee: Member
- Accreditation Council for Pharmacy Education (ACPE) Faculty Subcommittee #5: Chair
- Accreditation Council for Pharmacy Education (ACPE) Faculty Subcommittee #3: Chair
- Faculty Career Paths Committee, 2015-up-to-date: Member
- Faculty Scientific Committee, 2016-2017: Member
- Faculty Courses Equivalency Committee, 2016-2017: Member
- Departmental Quality Assurance Committee, 2015-2017: Member
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care, 2016-to-date: Member

COMMUNITY SERVICE

- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Childhood Health, at King Abdullah University Hospital, Irbid. Thursday 30th September 2021.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. COVID-19 Awareness, at King Abdullah University Hospital, Irbid. Wednesday 4th August 2021.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Common Winter Illnesses: Awareness and Prevention, at King Abdullah University Hospital, Irbid. Wednesday 5th February 2020.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Al Hasiemia High School for Girls, Al Hasiemia, Ajloun. Saturday 29th December 2019.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Bala'ma High School for Girls, Bala'ma, al-Mafraq. Saturday 27th April 2019.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Al-Adasyiah High School for Girls, Northern Jordan Valley (North Ghor), Irbid. Saturday 20th April 2019.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Imrawah High School for Girls, Irbid, Ramtha, Saturday 1st December 2018.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Dogara High School for Girls, Irbid, Wednesday 21st November 2018.

- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Jumana Secondary School for Girls, Irbid, Saturday 21st April 2018.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Waggas, Northern Jordan Valley (North Ghor), Irbid, Saturday 17th March 2018.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Al Turra, Irbid, Saturday 17th February 2018.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Universal Children's Day, Arabella Mall, Thursday 23 November 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. World Diabetic Day, Arabella Mall, Saturday 18 November 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Ballas, Ajloun, Tuesday 14th November 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Hareema, Irbid, Saturday 14th October 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Aqraba, Irbid, Saturday 15th April 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Health Educational Day for female students at Irbid University College, Irbid, Tuesday 28th March 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. World Cancer Day, Arabella Mall, Thursday 23rd February 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Kufur Khal, Jerash, Saturday 11 February 2017.
- Supervising an educational video "Post Antibiotic Era: Antibiotic resistance": prepared and presented by a group of undergraduate pharmacy students from Jordan University of Science and Technology: Renad Zoughol, Tala Hudaib, Abdul Rahman Shamel (Director), and Omar Shahin (videographer). <https://www.youtube.com/watch?v=m1VmmkhP1RY>
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Enba village, Irbid, Saturday 24 December 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. World Diabetic Day, Irbid City Center, Saturday 19 November 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Juhfyaa village, Irbid, Saturday 1 October 2016.
- "The Role of Natural Products in Drug Discovery and Development". Jumana Secondary School for Girls, Ramtha, 23 March 2015.
- "The Role of Natural Products in Drug Discovery and Development". Al Waleed Bin Abdulmalik Secondary School for Boys, Irbid, 2 November 2014.

PUBLISHED INTERVIEWS

- Meet a New American Society of Pharmacognosy (ASP) Member. *The ASP Newsletter*, Winter 2018, Volume 54, Issue 4, Page 99.

REFERENCES

- Dr. Nicholas H. Oberlies, Professor, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro, P.O. Box 26170, 435 Sullivan Science Building Greensboro, NC 27402-6170. E-mail: N_OBERLI@uncg.edu
- Dr. Feras Q. Alali, Professor and Associate Vice President- Health Cluster, College of Pharmacy, Qatar University. E-mail: feras.alali@qu.edu.qa