

Curriculum Vitae

Tamam M. El-Elimat, Ph.D.

Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy,
Jordan University of Science and Technology, PO Box 3030, Irbid 22110, Jordan

Phone: +962-775-963266

E-mail: telimat@just.edu.jo; tamamelimat@gmail.com

Webpage: <http://www.just.edu.jo/eportfolio/Pages/Default.aspx?email=telimat>

Google scholar: <https://scholar.google.com/citations?user=D2GujjMAAAAJ>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=8303063800>

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

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

Tamam El-Elimat is an associate professor in Natural Products Chemistry at the Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology (JUST). Since joining JUST on 2014, she taught Chemistry of Natural Products and Phytotherapy for PharmD undergraduate students and Phytochemistry and Pharmacognosy for Pharmacy undergraduate students. While on the graduate level, she taught Organic Structure Determination, Advanced Biosynthesis, Research Methodology, and Seminar. Her 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. Dr. El-Elimat earned a Ph.D. in Natural Products Chemistry on 2014 under the supervision of Dr. Nicholas Oberlies/ Professor/ The University of North Carolina at Greensboro (UNCG). Before joining UNCG, she was working as a researcher at the Pharmaceutical Research Center/ Jordan University of Science and Technology (PRC/JUST), Irbid, Jordan. She earned a B.Sc. in Pharmacy and an M.Sc. Degree in Medicinal Chemistry and Pharmacognosy under the supervision of Dr. Feras Q. Alali/Professor/JUST. Tamam is an author of 72 papers in peer-reviewed international indexed journals, a member of the American Society of Pharmacognosy, and is a registered pharmacist. Currently, June 2020, Dr. El-Elimat Google Scholar *h* index is 22 and *i10*-Index of 41 with 2057 total citations, while Scopus *h* index is 19 with 1318 total citations, and ResearchGate score of 35.27.

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 the course of 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. Colchicine content of *C. brachyphyllum* was determined during 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

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

9/2018-Present: 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 Students 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, 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, Dejlah Pharmacy/al-Mafraq, Jordan.

AWARDS

- 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. Cedric Pearce, Jeffrey Kavanaugh, Corey Parlet, **Tamam El-Elimat**, Nicholas Oberlies, Alexander Horswill. Methods and Compositions for the Inhibition of Quorum Sensing in Bacterial Infections. WO2017197303A1, 13/5/2016.

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.

PUBLICATIONS

72. Aref Zayed, Wahby M. Babareh, 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. 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* 21, In Press, 2021.
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*, In Press, 2020. <https://doi.org/10.1007/s00210-020-01878-2>
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*, e5667, 2020. Doi: 10.1002/aoc.5667.
67. Mohammad Alsaggar, Shifa Bdour, Qutaibah Ababneh, **Tamam El-Elimat**, Nidal Qinna, Karem H. Alzoubi. Silibinin Attenuates Adipose Tissue Inflammation and Reverses Obesity and its Complications in Diet-Induced Obesity Model in Mice. *BMC Pharmacology and Toxicology* 21, 8, 2020.
66. Aref Zayed, Wahby M. Babareh, Ruba S. Darweesh, **Tamam El-Elimat**. Simultaneous Determination of Warfarin and 7-Hydroxywarfarin in Rat Plasma by HPLC-FLD. *Acta Pharmaceutica* 70(3), 343-357, 2020.

65. Suleiman Olimat, Hasan Y. Muti, **Tamam El Elimat**, and Yara Al Tall. Essential Oil and Quinolizidine Alkaloids of *Retama raetam* (Forssk) Webb & Berthel (Fabaceae) Grown in Jordan. *International Journal of Pharmacognosy & Chinese Medicine* 4(1), 000196, 2020.
64. Manal Fardoun, Rabah Iratni, Hassan Dehaini, Assaad Eid, Tarek Ghaddar, **Tamam El-Elimat**, Feras Alali, Adnan Badran, Ali H. Eid, Elias Baydoun. 7-O-methylpunctatin, a Novel Homoisoflavonoid, Inhibits Phenotypic Switch of Human Arteriolar Smooth Muscle Cells. *Biomolecules* 9(11), 716, 2019. <https://doi.org/10.3390/biom9110716>
63. Soraya Alnabulsi, Enas A. Al-Hurani, Nizar A. Al-shar'i, **Tamam El-Elimat**. Amino-Carboxamide Benzothiazoles as Potential LSD1 Hit Inhibitors. Part I: Computational Fragment-Based Drug Design. *Journal of Molecular Graphics and Modelling* 93, 107440, 2019.
62. Corey P. Parlet, Jeffrey S. Kavanaugh, Heidi A. Crosby, Huzefa A Raja, **Tamam El-Elimat**, Daniel A. Todd, Cedric J. Pearce, Nadja B. Cech, Nicholas H. Oberlies, and Alexander R. Horswill. Apicidin Attenuates MRSA Virulence through Quorum-sensing Inhibition and Enhanced Host Defense. *Cell Reports* 27, 187-198, 2019.
61. **Tamam El-Elimat**, Huzefa A. Raja, Sloan Ayers, Steven J. Kurina, Joanna E. Burdette, Zachary Mattes, Robert Sabatelle, Jeffrey W. Bacon, Aaron H. Colby, Mark W. Grinstaff, Cedric J. Pearce, and Nicholas H. Oberlies. Meroterpenoids from *Neosetophoma* sp.: A Dioxo[4.3.3]Propellane Ring System, Potent Cytotoxicity, and Prolific Expression. *Organic Letters* 21: 529-534, 2019.
60. Karem H. Alzoubi, Arwa S. Al Hilo, Qosay A. Al-Balas, Khalid El-Salem, **Tamam El-Elimat**, Feras Q. Alali. *Withania somnifera* Root Powder Protects Against Post-Traumatic Stress Disorder-Induced Memory Impairment. *Molecular Biology Reports* 46: 4709-4715, 2019.
59. Kirti S. Prabhu, Kodappully S. Siveen, Shilpa Kuttikrishnan, Anh Jochebeth, Tayyiba A. Ali, Noor R. Elareer, Ahmad Iskandarani, Abdul Quaiyoom Khan, Maysaloun Merhi, Said Dermime, **Tamam El-Elimat**, Nicholas H. Oberlies, Feras Q. Alali, Martin Steinhoff, Shahab Uddin. Greensporone A, a Fungal Secondary Metabolite Suppressed Constitutively Activated AKT via ROS Generation and Induced Apoptosis in Leukemic Cell Lines. *Biomolecules* 9(4): 126, 2019. <https://doi.org/10.3390/biom9040126>
58. Buthina A. Al-Oudat, Mohammad A. Alqudah, Suaad A. Audat, Qosay A. Al-Balas, **Tamam El-Elimat**, Mohammad A. Hassan, Islam N. Frhat, Marwah M. Azaizeh. Design, Synthesis, and Biologic Evaluation of Novel Chrysin Derivatives as Cytotoxic Agents and Caspase-3/7 Activators. *Drug Design, Development and Therapy* 2019:13: 423-433, 2019.
57. **Tamam El-Elimat**, Karem H. Alzoubi, Mahmoud M. AbuAISamen, Zeinab Y. Al Subeh, Tyler N. Graf, and Nicholas H. Oberlies. Silymarin Prevents Memory Impairments, Anxiety, and Depressive-Like Symptoms in a Rat Model of Post-Traumatic Stress Disorder. *Planta Medica* 85: 32-40, 2019.
56. José Rivera-Chávez, **Tamam El-Elimat**, Jacklyn M. Gallagher, Tyler N. Graf, Jacques Fournier, Gati K. Panigrahi, Gagan Deep, Rick L. Bunch, Huzefa A. Raja, and Nicholas H. Oberlies. Delitpyrones: α -Pyrone Derivatives from a Freshwater *Delitschia* sp. *Planta Medica* 85: 62-71, 2019.
55. Karem H. Alzoubi, Sanaa Alibbini, Omar F. Khabour, **Tamam El-Elimat**, Mohammad Al-zubi, and Feras Q. Alali. Carob (*Ceratonia siliqua* L.) Prevents Short-Term Memory Deficit Induced by Chronic Stress in Rats. *Journal of Molecular Neuroscience* 66: 314-321, 2018.

54. Kirti S. Prabhu, Siveen Kodappully Sivaraman, Shilpa Kuttikrishnan, Ahmad Nabil Iskandarani, Abdul Quaiyoom Khan, Maysaloun Merhi, Halima El Omri, Said Dermime, **Tamam El-Elimat**, Nicholas H. Oberlies, Feras Q. Alali, and Shahab Uddin. Greensporone C, a Freshwater Fungal Secondary Metabolite-Induces Mitochondrial-Mediated Apoptotic Cell Death in Leukemic Cell Lines. *Frontiers in Pharmacology* 9: 720, 2018.
53. **Tamam El-Elimat**, Bara`a A. Jarwan, Aref Zayed, Ahmed Alhusban, Maha Syouf. Biochemical Evaluation of Selected Grape Varieties (*Vitis vinifera* L.) Grown in Jordan and *in Vitro* Evaluation of Grape Seed Extract on Human Prostate Cancer Cells. *Food Bioscience* 24: 103-110, 2018.
52. Aref Zayed, Rana Bustami, Wafaa Alabsi, and **Tamam El-Elimat**. Development and Validation of a Rapid High-Performance Liquid Chromatography–Tandem Mass Spectrometric Method for Determination of Folic Acid in Human Plasma. *Pharmaceuticals* 11(2): 52, 2018; <https://doi.org/10.3390/ph11020052>.
51. **Tamam El-Elimat**, José Rivera-Chávez, Joanna E. Burdette, Austin Czarnecki, Maram B. Alhawarri, Mohammad Al-Gharaibeh, Feras Alali, and Nicholas H. Oberlies. Cytotoxic Homoisoflavonoids from the Bulbs of *Bellevalia flexuosa*. *Fitoterapia* 127: 201-206, 2018.
50. Karem H. Alzoubi, Bayan S. Malkawi, Omar F. Khabour, **Tamam El-Elimat**, and Feras Q. Alali. *Arbutus andrachne* L. Reverses Sleep Deprivation-Induced Memory Impairments in Rats. *Molecular Neurobiology* 55: 1150-1156, 2018.
49. Qosay A. Al-Balas, Mohammad A. Hassan, Nizar A. Al-Shar'i, **Tamam El-Elimat**, and Ammar M. Almaaytah. Computational and Experimental Exploration of the Structure–Activity Relationships of Flavonoids as Potent Glyoxalase-I Inhibitors. *Drug Development Research* 79: 58-69, 2018.
48. Myassar Omar Alekish, Zuhair Bani Ismail, **Tamam El-Elimat**, Shorooq Shatnawi. Antibacterial Activity of Sage Essential Oil against Common Mastitis Causing Bacterial Isolates from Bovine Clinical Mastitis. *Global Veterinaria* 20: 247-251, 2018.
47. Ahmed Alhusban, Enaam Alkhazaleh, and **Tamam El-Elimat**. Silymarin Ameliorates Diabetes-Induced Proangiogenic Response in Brain Endothelial Cells through a GSK-3 β Inhibition-Induced Reduction of VEGF Release. *Journal of Diabetes Research*, 2017: Article ID 2537216, 9 pages, 2017. doi: 10.1155/2017/2537216.
46. Karem H. Alzoubi, Nasab Q. Rawashdeh, Omar F. Khabour, **Tamam El-Elimat**, Hanan Albataineh, Hamzeh M. Al-Zghool, and Feras Q. Alali. Evaluation of the Effect of *Moringa peregrina* Extract on Learning and Memory: Role of Oxidative Stress. *Journal of Molecular Neuroscience* 63: 355–363, 2017.
45. Wesam Al Khateeb, Razan Kanaan, **Tamam El-Elimat**, Muhammad Alu'datt, Jamil Lahham, and Ahmad El-Oqlah. In vitro Propagation, Genetic Stability, and Secondary Metabolite Analysis of Wild Lavender (*Lavendula coronopifolia* Poir.). *Horticulture, Environment, and Biotechnology* 58: 393-405, 2017.
44. Mariana González-Medina, John R. Owen, **Tamam El-Elimat**, Cedric J. Pearce, Nicholas H. Oberlies, Mario Figueroa, and Jose L. Medina-Franco. Scaffold Diversity of Fungal Metabolites. *Frontiers in Pharmacology* 8, article 180, 1-12, 2017.
43. Karen M. VanderMolen, Jason G. Little, Vincent P. Sica, **Tamam El-Elimat**, Huzefa A. Raja, Nicholas H. Oberlies, Timothy R. Baker, and Catherine Mahony. Safety Assessment of Mushrooms in Dietary Supplements by Combining Analytical Data with *In Silico* Toxicology Evaluation. *Food and Chemical Toxicology* 103: 133-147, 2017.
42. Qosay A. Al-Balas, Mohammad A. Hassan, Ghazi A. Al Jabal, Nizar A. Al-Shar'i, Ammar M. Almaaytah, and **Tamam El-Elimat**. Novel Thiazole Carboxylic Acid Derivatives Possessing

- A "Zinc Binding Feature" as Potential Human Glyoxalase-I Inhibitors. *Letters in Drug Design & Discovery* 14: 1324-1334, 2017.
41. **Tamam El-Elimat**, Huzefa A. Raja, Cynthia S. Day, Hana McFeeters, Robert L. McFeeters, and Nicholas H. Oberlies. α -Pyrone Derivatives, Tetra/Hexahydroxanthones, and Cyclodepsipeptides from two Freshwater Fungi. *Bioorganic & Medicinal Chemistry* 25: 795–804, 2017.
 40. Noemi D. Paguigan, **Tamam El-Elimat**, Diana Kao, Huzefa A. Raja, Cedric J. Pearce, and Nicholas H. Oberlies. Enhanced Dereplication of Fungal Cultures via use of Mass Defect Filtering. *Journal of Antibiotics* 70: 553–561, 2017.
 39. Feras O. Alali, **Tamam El-Elimat**, Lila Khalid, Reema Hudaib, Tuqa Saleh Al-Shehabi, and Ali H. Eid. Garlic for Cardiovascular Disease: Prevention or Treatment? *Current Pharmaceutical Design* 23: 1028-1041, 2017.
 38. Khawla D. Al-Hamaideh, **Tamam El-Elimat**, Fatma U. Afifi, and Violet Kasabri. Phytochemical Screening and Pharmacological Activities of *Echium judaeum* Lacaita Extracts Growing Wild in Jordan. *Jordan Journal of Pharmaceutical Sciences* 10: 153-164, 2017.
 37. Vincent Sica, **Tamam El-Elimat**, and Nicholas Oberlies. *In situ* analysis of *Asimina triloba* (paw paw) plant tissues for acetogenins via the droplet–liquid microjunction–surface sampling probe coupled to UHPLC–PDA–HRMS/MS. *Analytical Methods* 8: 6143-6149, 2016.
 36. Mariana González-Medina, Fernando D. Prieto-Martínez, J. Jesús Naveja, Oscar Méndez-Lucio, **Tamam El-Elimat**, Cedric J. Pearce, Nicholas H. Oberlies, Mario Figueroa, and José L. Medina-Franco. Chemoinformatic expedition of the chemical space of fungal products. *Future Medicinal Chemistry* 8: 1399-1412, 2016.
 35. Vincent P. Sica, Mario Figueroa, Huzefa A. Raja, **Tamam El-Elimat**, Blaise A. Darveaux, Cedric J. Pearce, and Nicholas H. Oberlies. Optimizing production and evaluating biosynthesis *in situ* of a herbicidal compound, mevalocidin, from *Coniolaria* sp. *Journal of Industrial Microbiology & Biotechnology* 43: 1149–1157, 2016.
 34. Gagan Deep, Rahul Kumar, Anil K. Jain, Deepanshi Dhar, Gati K. Panigrahi, Anowar Hussain, Chapla Agarwal, **Tamam El-Elimat**, Vincent P. Sica, Nicholas H. Oberlies, and Rajesh Agarwal. Graviola inhibits hypoxia-induced NADPH oxidase activity in prostate cancer cells reducing their proliferation and clonogenicity. *Scientific Reports* 6, 23135, 2016. DOI: 10.1038/srep23135
 33. Lara Fakhouri, **Tamam El-Elimat**, Dow P. Hurst, Patricia H. Reggio, Cedric J. Pearce, Nicholas H. Oberlies, and Mitchell P. Croatt. Isolation, Semisynthesis, Covalent docking and Transforming Growth Factor Beta-activated Kinase 1 (TAK1)-Inhibitory Activities of (5Z)-7-Oxozeaenol analogues. *Bioorganic & Medicinal Chemistry* 23, 6993-6999, 2015.
 32. Huzefa A. Raja, **Tamam El-Elimat**, Nicholas H. Oberlies, Carol A. Shearer, Andrew N. Miller, Kazuaki Tanaka, Akira Hoshimoto, and Jacques Fournier. Minutisphaerales (Dothideomycetes, Ascomycota): a New Order of Freshwater Ascomycetes Including a New Family, Minutisphaeraceae, and Two New Species from North Carolina, USA. *Mycologia* 107: 845–862, 2015.
 31. Vincent P. Sica, Huzefa A. Raja, **Tamam El-Elimat**, Vilmos Kertesz, Gary J. Van Berkel, Cedric J. Pearce, and Nicholas H. Oberlies. Dereplicating and Spatial Mapping of Secondary Metabolites from Fungal Cultures *in Situ*. *Journal of Natural Products* 78, 1926–1936, 2015.

30. Feras Alali, **Tamam El-Elimat**, Hanan Albatineh, Qosay Al-Balas, Mohammad Al-Gharaibeh, Joseph O. Falkinham, III, Wei-Lun Chen, Steven M. Swanson, and Nicholas H. Oberlies. Cytotoxic Homoisoflavones from the Bulbs of *Bellevalia eigii*. *Journal of Natural Products* 78, 1708–1715, 2015.
29. **Tamam El-Elimat**, Mario Figueroa, Huzefa A. Raja, Steven M. Swanson, Joseph O. Falkinham, David M. Lucas, Michael R. Grever, Mansukh C. Wani, Cedric J. Pearce, and Nicholas H. Oberlies. Sorbicillinoid Analogues with Cytotoxic and Selective Anti-*Aspergillus* Activities from *Scytalidium album*. *Journal of Antibiotics* 68, 191-196, 2015.
28. Seth M. Daly, Bradley O. Elmore, Jeffrey S. Kavanaugh, Kathleen D. Triplett, Mario Figueroa, Huzefa A. Raja, **Tamam El-Elimat**, Heidi A. Crosby, Jon K. Femling, Nadja B. Cech, Alexander R. Horswill, Nicholas H. Oberlies, and Pamela R. Hall. ω -Hydroxyemodin Limits *Staphylococcus aureus* Quorum Sensing-Mediated Pathogenesis and Inflammation. *Antimicrobial Agents and Chemotherapy* 59: 2223-2235, 2015.
27. Robert O. Bussey, Amninder Kaur, Daniel A. Todd, Joseph M. Egan, **Tamam El-Elimat**, Tyler N. Graf, Huzefa A. Raja, Nicholas H. Oberlies, and Nadja Cech. Comparison of the Chemistry and Diversity of Endophytes Isolated from Wild-harvested and Greenhouse-cultivated Yerba Mansa (*Anemopsis californica*). *Phytochemistry Letters* 11:202-208, 2015.
26. Huzefa A. Raja, Amninder Kaur, **Tamam El-Elimat**, Mario Figueroa, Rahul Kumar, Gagan Deep, Rajesh Agarwal, Stanley H. Faeth, Nadja B. Cech, and Nicholas H. Oberlies. Phylogenetic and Chemical Diversity of Fungal Endophytes Isolated from *Silybum marianum* (L) Gaertn. (Milk Thistle). *Mycology: An International Journal on Fungal Biology* 6: 8-27, 2015.
25. **Tamam El-Elimat**, Mario Figueroa, Huzefa A. Raja, Tyler N. Graf, Steven M. Swanson, Joseph O. Falkinham III, Mansukh C. Wani, Cedric J. Pearce, and Nicholas H. Oberlies. Biosynthetically Distinct Cytotoxic Polyketides from *Setophoma terrestris*. *European Journal of Organic Chemistry* 2015:109-121, 2015.
24. Vincent P. Sica, Huzefa A. Raja, **Tamam El-Elimat**, and Nicholas H. Oberlies.. *RSC Advances*: 4, 63221-63227, 2014.
23. **Tamam El-Elimat**, Huzefa A. Raja, Joseph O. Falkinham, Cynthia S. Day, and Nicholas H. Oberlies. Greensporones: Resorcylic Acid Lactones from an Aquatic *Halenospora* sp. *Journal of Natural Products* 77: 2088-2098, 2014.
22. Mario Figueroa, Alan Jarmusch, Huzefa Raja, **Tamam El-Elimat**, Jeffrey Kavanaugh, Alexander Horswill, Robert Cooks, Nadja Cech, and Nicholas H. Oberlies. Polyhydroxyanthraquinones as Quorum Sensing Inhibitors from the Guttates of *Penicillium restrictum* and their Analysis by Desorption Electrospray Ionization Mass Spectrometry. *Journal of Natural Products* 77: 1351-1358, 2014.
21. **Tamam El-Elimat**, Huzefa A. Raja, Mario Figueroa, Joseph O. Falkinham III, and Nicholas H. Oberlies. Isochromenones, Isobenzofuranone, and Tetrahydronaphthalenes Produced by *Paraphoma radicina*, a Fungus Isolated from a Freshwater Habitat. *Phytochemistry* 104: 114-120, 2014.
20. Feras Q. Alali, Chiraz Soumia M. Amrine, **Tamam El-Elimat**, Ahmad Alkofahi, Khaled Tawaha, Mohammad Gharaibah, Steven M. Swanson, Joseph O. Falkinham III, Marisa Cabeza, Araceli Sánchez, Mario Figueroa, and Nicholas H. Oberlies. Bioactive Withanolides from *Withania obtusifolia*. *Phytochemistry Letters* 9: 96-101, 2014.
19. **Tamam El-Elimat**, Huzefa A. Raja, Tyler N. Graf, Stanley H. Faeth, Nadja B. Cech, and Nicholas H. Oberlies. Flavonolignans from *Aspergillus iizukae*, a Fungal Endophyte of Milk Thistle (*Silybum marianum*). *Journal of Natural Products* 77: 193-199, 2014.

18. Karen M. VanderMolen, Huzefa A. Raja, **Tamam El-Elimat**, and Nicholas H. Oberlies. Evaluation of Culture Media for the Production of Secondary Metabolites in a Natural Products Screening Program. *AMB Express* 3: 71, 2013.
17. **Tamam El-Elimat**, Mario Figueroa, Brandie M. Ehrmann, Nadja B. Cech, Cedric J. Pearce, and Nicholas H. Oberlies. High-Resolution MS, MS/MS, and UV Database of Fungal Secondary Metabolites as a Dereplication Protocol for Bioactive Natural Products. *Journal of Natural Products* 76: 1709-1716, 2013.
16. **Tamam El-Elimat**, Mario Figueroa, Huzefa A. Raja, Audrey F. Adcock, David J. Kroll, Steven M. Swanson, Mansukh C. Wani, Cedric J. Pearce, and Nicholas H. Oberlies. Waol A, *trans*-Dihydrowaol A, and *cis*-Dihydrowaol A: Polyketide-derived γ -Lactones from a *Volutella* Species. *Tetrahedron Letters* 54: 4300-4302, 2013.
15. **Tamam El-Elimat**, Mario Figueroa, Huzefa A. Raja, Tyler N. Graf, Audrey F. Adcock, David J. Kroll, Cynthia S. Day, Mansukh C. Wani, Cedric J. Pearce, and Nicholas H. Oberlies. Benzoquinones and Terphenyl Compounds as Phosphodiesterase-4B Inhibitors from a Fungus of the Order Chaetothyriales (MSX 47445). *Journal of Natural Products* 76: 382–387, 2013.
14. Jessica R. Bame, Tyler N. Graf, Hiyas A. Junio, R. Owen Bussey III, Scott A. Jarmusch, **Tamam El-Elimat**, Joseph O. Falkinham III, Nicholas H. Oberlies, Richard A. Cech, and Nadja B. Cech. Sarothrin from *Alkanna orientalis* is an Antimicrobial Agent and Efflux Pump Inhibitor. *Planta Medica* 79: 327-329, 2013.
13. Huzefa A. Raja, Nicholas H. Oberlies, **Tamam El-Elimat**, Andrew N. Miller, Steven E. Zelski, and Carol Shearer. *Lindgomyces angustiascus*, (Lindgomycetaceae, Pleosporales, Dothideomycetes), a new lignicolous species from freshwater habitats in the USA. *Mycoscience*, 54, 353-361, 2013.
12. **Tamam El-Elimat**, Xiaoli Zhang, David Jarjoura, Franklin J. Moy, Jimmy Orjala, A. Douglas Kinghorn, Cedric J. Pearce, and Nicholas H. Oberlies. Chemical Diversity of Bioactive Secondary Metabolites from Filamentous Fungi, Cyanobacteria, and Tropical Plants Relative to Selected FDA-Approved Anticancer Agents. *ACS Medicinal Chemistry Letters* 3: 645-649, 2012.
11. Feras Q. Alali, Rami M. Njadat, Nizar M. Mhaidat, Ahmad S. Alkofahi, Mohammad M. Al-Gharaibeh, and **Tamam El-Elimat**. Alkaloids from *Glaucium aleppicum* Papaveraceae. *Jordan Journal of Pharmaceutical Sciences* 6: 308-313, 2013.
10. Ahmad A. Gharaibeh, Ala'a Al-Serini, Rana M. Qasaymeh, Amani S. Ma'aya'h, Khaled Tawaha, **Tamam El-Elimat**, and Feras Q. Alali. Liquid Chromatography-Mass Spectroscopy and Liquid Chromatography-Ultraviolet/Visible Photodiode Array Analysis of Selected *Colchicum* Species. *Zeitschrift für Naturforschung C* 67c: 451-460, 2012.
9. Khaled Tawaha, Feras Q. Alali, Mohammad Gharaibeh, and **Tamam El-Elimat**. Determination of Hypericin and Hyperforin Content in Selected Jordanian *Hypericum* Species. *Industrial Crops and Products* 32: 241-245, 2010.
8. Feras Q. Alali, Yahya R. Tahboub, Ibrahim S. Al-Daraysih, **Tamam El-Elimat**. LC-MS and LC-PDA vs. Phytochemical Analysis of *Colchicum brachyphyllum*. *Die Pharmazie* 63: 860-865, 2008.
7. Feras Q. Alali, Khaled Tawaha, **Tamam El-Elimat**, Maha Syouf, Mosa El-Fayad, Khaled Abulaila, Samara Joy Nielsen, William D. Wheaton, Joseph O. Falkinham III, and Nicholas H. Oberlies. Antioxidant Activity and Total Phenolic Content of Aqueous and Methanolic Extracts of Jordanian Plants: an ICBG Project. *Natural Product Research* 21: 1121-1131, 2007.

6. Feras Q. Alali, Khaled Tawaha, and **Tamam El-Elimat**. Determination of (-)-Demecolcine and (-)-Colchicine Content in Selected Jordanian *Colchicum* Species. *Die Pharmazie* 10, 739-742, 2007.
5. Khaled Tawaha, Feras Alali, Mohammad Gharaibeh, Mohammad Mohammad, and **Tamam El-Elimat**. Antioxidant Activity and Total Phenolic Content of Selected Jordanian Plant Species. *Food Chemistry* 104: 1372-1378, 2007.
4. Feras Q. Alali, Khaled Tawaha, and **Tamam El-Elimat**. Seasonal Variation of Colchicine Content in *Colchicum brachyphyllum* and *Colchicum tunicatum* (Colchicaceae). *Natural Product Research* 20:1121-1128, 2006.
3. Feras Q. Alali, **Tamam El-Elimat**, Rana Qasaymeh, Chen Li, Khaled Tawaha, and Nicholas Oberlies. Phytochemical Study and Cytotoxicity Evaluation of *Colchicum tunicatum* Feibrun and *Colchicum hierosolymitanum* Feibrun (Colchicaceae): Two Native Jordanian Meadow Saffrons. *Natural Product Research* 20: 558-566, 2006.
2. Feras Q. Alali, **Tamam El-Elimat**, Chen Li, Amjad Qandil, Ahmad Alkofahi, Khaled Tawaha, Jason P. Burgess, Yuka Nakanishi, David J. Kroll, Hernan A. Navarro, Joseph O. Falkinham, III, Mansukh C. Wani, and Nicholas H. Oberlies. New Colchicinoids from a Native Jordanian Meadow Saffron, *Colchicum Brachyphyllum*: Isolation of the First Naturally-Occurring Dextrorotatory Colchicinoid. *Journal of Natural Products* 68: 173-178, 2005.
1. Feras Q. Alali, Khaled Tawaha, and **Tamam Al-Eleimat**. Determination of Hypericin Content in *Hypericum triquetrifolium* Turra (Hypericaceae) Growing Wild in Jordan. *Natural Product Research* 18:147-151, 2004.

WORKSHOPS AND CONFERENCES

- "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.

EDITORIAL ACTIVITIES

REFEREE/REVIEWER

- Journal of Natural Products: ACS Publications, Washington, DC, USA.
- Phytochemistry: Elsevier, Amsterdam, Netherlands.
- 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.
- 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.

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
- Fluent in English: 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, ¹³C 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 in the scientific search engine.

OTHER SKILLS

- Excellent experience in using the following software's: 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, GpahPad Prism, and Thermo Scientific ExactFinder software.
- Excellent knowledge of research methodologies.
- Grant proposal writing.

PROFESSIONAL MEMBERSHIP

- Member of the American Society of Pharmacognosy.
- Member of Jordanian Pharmaceutical Association.

ORAL AND POSTER PRESENTATIONS

- **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-kb 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)

GRANTS

- 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 *Bellevalia longipes* Post (Asparagaceae). 2019-2020, amount: JD 6,450. (Principal Investigator)
- Deanship of Research/ Jordan University of Science and Technology Grant No. 284/2017. Exploring the Chemical Composition and Anticancer potential of *Bellevalia flexuosa*. 2017-2018, amount: JD 7,355. (Principal Investigator)
- 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)

TEACHING**ONLINE AND DIATNCE EDUCATION**

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

GRADUATE COURSE INSTRUCTOR

- *Organic Structure Determination* (PHAR722). Jordan University of Science and Technology (Fall, 2018; Fall, 2019).
- *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).

UNDERGRADUATE COURSE INSTRUCTOR

- *Pharmaceutical Practical Training* (PHAR401). Jordan University of Science and Technology (Summer 2017).
- *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).
- *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).
- *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* (PHAR 336). Jordan University of Science and Technology (Fall 2019).

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).

GRDUATE STUDENTS SUPERVISION

- Abdullah Alkhwilani:
 - o M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, 2020.
 - o Thesis title: "Exploring the Chemical Composition and Anti-inflammatory Effects of Beetroot (*Beta vulgaris* L.) Juice".
- Bayan Al-Tal:
 - o M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, 2020.
 - o Thesis title: "Exploring the Chemical Composition and Anti-Obesity Potential of *Rhus coriaria* L. (Sumac) Fruits".
- Reema AlQiam:
 - o M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology, November, 2019.
 - o Thesis title: "Exploring the Chemical Composition and Anticancer Potential of *Bellevalia longipes* Post (Asparagaceae)".
- Maram Hawari:
 - o M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. March, 2018.
 - o Thesis title: "Investigating the Chemical Composition and Anticancer Potential of *Androcymbium palaestinum* Leaves".
- Haya Al-Qaderi:
 - o M.Sc., Pharmacognosy, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. March, 2018.
 - o Thesis title: "Evaluation of the Wound Healing Effects of *Conyza canadensis* and *Hypericum triquetrifolium*".
- Bara`a Ahmad Ali Jarwan:
 - o M.Sc., Medicinal Chemistry, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan University of Science and Technology. January, 2017.
 - o Thesis title: "Antioxidant Activity, Total Phenolic Content, and Liquid Chromatography-Mass Spectrometry Analysis of Resveratrol in Selected Jordanian Grape Species".

GRDUATE STUDENTS CO-SUPERVISION

- Eyad Ghaith:
 - o M.Sc., Toxicology and Forensic Science, Department of Legal Medicine, Toxicology and Forensic Medicine, Faculty of Medicine, Jordan University of Science and Technology, 2020.
 - o Thesis title: "Omega 3 and Dates Palm Effects on the Cognitive and Memory Impairment Induced by Oxidative Stress from Diabetes Mellitus".
- Tariq Khamis:
 - o M.Sc., Pharmaceutical Technology, Department of Pharmaceutical Technology, Faculty of Pharmacy, Jordan University of Science and Technology, 2018.
 - o Thesis title: "Effect of Cannabidiol on the Pharmacokinetics of Carbamazepine".
- Anaam Khazalah:
 - o M.Sc., Clinical Pharmacy, Department of Clinical Pharmacy, Faculty of Pharmacy, Jordan University of Science and Technology, 2017.
 - o Thesis title: "Assessing the Effect of Silymarin on Diabetic-Induced Abnormal Angiogenesis".

GRDUATE STUDENTS COMMITTEE MEMBERSHIP

- 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 Rosemerry 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 of Pharmacy Board, 2018-2019; 2019-2020: Member
- Departmental Scientific Research Committee, 2018-2019; 2019-2020: Chair
- Departmental Graduate Studies Committee, 2018-2019; 2019-2020: Chair
- Faculty Graduate Studies Committee, 2018-2019; 2019-2020: Member
- Courses' Equivalency Committee, 2018-2019: Member
- Faculty Social Committee, 2018-2019: Member
- Laboratory and Supplies Committee, 2018-2019; 2019-2020: Member
- Faculty Accreditation and Quality Control Committee, 2018-2019; 2019-2020: Member
- Faculty Assessment Committee, 2018-2019; 2019-2020: Member
- Curriculum and Course Schedule Committee, 2018-2019; 2019-2020: Member
- National Committee of Narcotics, Antinarcotics Department, Public Security Directorate, 2017-2018: Member
- Faculty Quality Control of Courses Committee, 2017-2018: Member
- Departmental Scientific Research Committee, 2017-2018: Chair
- Faculty Board, 2017-2018: Member
- Faculty Accreditation and Quality Control Committee, 2017-2018: Member
- Faculty Conferences and Scientific Days Committee, 2017-2018: Member
- Courses' Equivalency Faculty Committee, 2016-2017: 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
- 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. 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-Adasyah 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, Jarash, 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 Director of Research and Graduate Studies Medical and Health Sciences Office, College of Pharmacy, Qatar University. E-mail: feras.alali@qu.edu.qa