CURRICULUM VITAE Zeinab Y. Al Subeh, PhD

Phone: +962778748166		E-mails: zyalsubeh@just.edu.jo, zynabalsobh@gmail.com	
EDUCATION	I		
2017-2021 Ph.D		Medicinal Biochemistry , specialization in Natural Products Chemistry, Department of Chemistry and Biochemistry, <i>University of North Carolina at Greensboro</i> , USA	
		Advisor:	Prof. Nicholas Oberlies
		Thesis Title:	Preclinical Development of Fungal Secondary Metabolites & the Discovery of New Metabolites with Cytotoxic Properties.
		Committee:	Prof. Nicholas Oberlies, Dr. Shabnam Hematian, Dr. Mitchell Croatt, Dr. Aaron Colby
2014-2016	M.Sc.	Clinical Pharmacy, School of Pharmacy, Jordan University of Science and Technology, Jordan.	
		Advisor: Thesis Title:	Prof. Karem Alzoubi Evaluating the Protective Effect of Etazolate on Anxiety- and Depression- Like Behavior and Cognitive Impairment Induced by Post Traumatic Stress Disorder.
		Committee:	Prof. Karem Alzoubi, Prof. Omar Khabour, Prof. Nizar Mhaidat, Prof. Abla Albsoul
2007-2013	Pharm.D	Doctor of Ph a	armacy, School of Pharmacy, Jordan University of Science and Technology,
		Specialized clinical rotations in various clinical departments at King Abdullah Univer Hospital, Princess Basma Teaching Hospital, Al-Ramtha Governmental Hospital, Al Bas Hospital, Royal Medical Services, and Drug Information Center/ Pharmacy One. The include: Internal Medicine, Ambulatory Care, Pediatrics, Critical Care, Oncology, Cardiolog Pharmaceutical Research, Drug Information, and Hospital Pharmacy.	
2007	Certificate	General Secon	ndary Education, Jordan
WORK EXPE	ERIENCE		
Sep 2022- Present		Assistant Dean, Jordan.	Faculty of Pharmacy, Jordan University of Science and Technology, Irbid,
Feb 2022-Present			sor, Department of Medicinal Chemistry and Pharmacognosy, Jordan University echnology, Irbid, Jordan.
Aug 2021-Jan 2022			llow, Department of Biochemistry and Molecular Biology, Georgia Cancer, Augusta University, Augusta, Georgia, USA.
2017-2021		Teaching Assista Greensboro, NC	ant, Department of Chemistry and Biochemistry, University of North Carolina at USA.
2016-2017		Science and Tec	inical Instructor (Critical Care), Faculty of Pharmacy, Jordan University of chnology in affiliation with King Abdullah University Hospital and Prince Hasan Military Hospital.

2014-2016	Teaching Assistant, Faculty of Pharmacy, Jordan University of Science & Technology, Irbid, Jordan	
2014-2016	M.Sc. Research Experience, work under the supervision of Dr. Karem Alzoubi (Graduate of University of Houston, Houston, Texas). Pharmacology research laboratory, with interest in pharmacology of the interactive effects of obesity, stress, high fat diet, and sleep deprivation on cognitive functions.	
2014-2015	Medical Editor, Altibbi.com website, Amman, Jordan	
March 2015-May 2015	Research Assistant, Department of Clinical Pharmacy, Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan	
2013-2014	Lecturer and Clinical Instructor (Internal Medicine), Faculty of Pharmacy, Jordan University of Science and Technology in affiliation with King Abdullah University Hospital and Princess Basma Teaching Hospital.	

FELLOWSHIPS & SCHOLARSHIPS

2019-2021	Membership in the UNC Greensboro chapter of The Honor Society of Phi Kappa Phi, the nation's oldest, most selective, and most prestigious all-discipline honor society
May 2019- June 2019	Graduate research assistantship in chemistry and biochemistry at University of North Carolina at Greensboro.
2017-2021	Part-time teaching assistantship from the Department of Chemistry and Biochemistry at University of North Carolina at Greensboro.
2017-2021	Full scholarship from School of Pharmacy at Jordan University of Science and Technology to pursue a PhD degree in Medicinal Biochemistry.
2016-2017	Responsible Conduct of Research_ One-Year Fellowship, University of California San Diego in collaboration with Jordan University of Science and Technology.
2014-2016	Scholarship for distinguished students from the Graduate School at Jordan University of Science and Technology to pursue M.Sc degree in Clinical Pharmacy.

TEACHING AND SERVICE

Jordan University of Science and Technology

Undergraduate Course Instructor

- PHAR334 Pharmacognosy & Phytochemistry (Spring 2023)
- PHAR433 Phytotherapy (Fall 2023)
- PHAR562 Clinical Nutrition (Spring 2022, Fall & Spring 2023)
- PHAR645 Clinical Training: Critical Care for Pharm.D Students (Fall 2016, Spring 2017)
- PHAR643 Clinical Training: Internal Medicine for Pharm.D Students (Summer 2013, Fall 2013, Spring 2014, Summer 2016).

Graduate Course Instructor

• PHAR704 Clinical Practice I (Fall, 2013, Spring 2014, Fall 2016, Spring 2017)

Committee Service

- Coordinator of Media and Faculty Website Committee (Spring 2022- present)
- Coordinator of Courses Equivalency Committee (Fall 2023-present)
- Member of Graduate Studies Committee (Fall 2023-present)
- Member of Students with Special Needs Committee (Fall 2023-Spring 2023)

- Member of Early Training Committee (Fall 2023-Spring 2023)
- Member of Department Research Committee (Fall 2023-present)
- Member of the ACPE Higher Committee

University of North Carolina at Greensboro

Graduate Teaching Assistant

•	CHE101	Introductory Chemistry (Spring 2020)
•	CHE103	General Chemistry (Spring 2020)
•	CHE111	General Chemistry I (Fall 2020)
•	CHE112	General Chemistry Lab I (Fall 2017, Spring 2018, Fall 2018)
•	CHE114	General Chemistry II (Fall 2019, Spring 2021)
•	CHE557	Biochemistry II (Spring 2019)
•	CHE651	Advanced Medicinal Chemistry (Fall 2020)

TRAINING

Sep 2016- Mar 2017	Introduction to the Principle and Practice of Clinical Research, National Institute of Health (NIH).
Aug 2016- Sep 2016	CITI Certificate, Collaborative Institutional Training Initiative Program.
Jun 2015- Oct 2015	Social Networks as Educational Platforms, Rwaq Platform for Online Education.
Jan 2015- Mar 2015	Critical Thinking in Global Challenges, Coursera Platform, The University of Edinburgh.
Feb 2015- Mar 2015	Teaching with Confidence, Edraak Platform, Queen Rania Teacher Academy.
Sep 2014- Feb 2015	Integration of Educational Technologies in Curriculums, Rwaq Platform for Online Education.
Feb 2014- Jul 2014	Design and Production of Electronic Courses, Rwaq Platform for Online Education.

UNDERGRADUATE STUDENT SUPERVISION

- Jennifer Obike, Biochemistry student at University of North Carolina at Greensboro. (Fall and Spring 2021).
- Krupa Patel, Biochemistry student at University of North Carolina at Greensboro. (Spring, 2020).
- Tricia Levi, Environmental studies student at University of North Carolina at Greensboro. (Spring and Summer 2019).

PROFESSIONAL LICENSES

• Licensed Pharmacist, Jordan No.14954 (July 2013- Present)

AWARDS AND HONORS

- American Institute of Chemists Award in Biochemistry for 2022 (PhD Student level).
- The first-place winner in "Postgraduate Poster Competition" that had been held at the Applied Science University (ASU) third conference entitled "Recent Trends in Postgraduate Research", April 15-16, 2017.
- The first-place winner in "Excellence in Graduate Research" competition that had been held at pharmacy school for the
 best poster presentation among graduate students in the fields of Clinical Pharmacy and Pharmacological Sciences,
 August 4th, 2016.
- 2007-2013, Dean's list of Outstanding College Students, Faculty of Pharmacy, Jordan University of Science and Technology, Jordan.
- 2007-2013, Dean's list of Outstanding University Students, Jordan University of Science and Technology, Jordan.

LANGUAGES

- **Arabic:** Expert (writing, speaking)
- English: Proficient in speaking and writing.

PUBLICATIONS

- Amjad Z Alrosan, Ghaith B Heilat, <u>Zeinab Y Al Subeh</u>, Khaled Alrosan, Alaa F Alrousan, Amro K Abu-Safieh, Nuwar S Alabdallat. The effects of statin therapy on brain tumors, particularly glioma: a review. *Anti-Cancer Drugs*, 2023. DOI: 10.1097/CAD.0000000000001533.
- 2. Amanda C Maldonado, Monica A Haughan, Manead Khin, Julia Ekiert, Ziwei Zhang, Daniel Lantvit, Zeinab Y Al Subeh, Herma C Pierre, Maryna Salkovski, Tal Hirschhorn, Yu Gao, Cedric J Pearce, Brent R Stockwell, Leslie N Aldrich, Nicholas H Oberlies, Joanna E Burdette. Probing the Cytotoxic Signaling Induced by Eupenifeldin in Ovarian Cancer Models. Journal of Natural Products, 2023. DOI: 10.1021/acs.jnatprod.3c00186.
- **3. Zeinab Y Al Subeh**, Laura Flores-Bocanegra, Huzefa A Raja, Joanna E Burdette, Cedric J Pearce, Nicholas H Oberlies. Embellicines C-E: Macrocyclic Alkaloids with a Cyclopenta[b]fluorene Ring System from the Fungus *Sarocladium* sp. *Journal of Natural Products*, **2023**, 86, 3, 596–603. DOI: <u>10.1021/acs.jnatprod.2c01048</u>.
- 4. Zeinab Y. Al Subeh, Dakota B. Poschel, Priscilla S. Redd, John D. Klement, Alyssa D. Merting, Dafeng Yang, Megh Mehta, Huidong Shi, Yolonda L. Colson, Nicholas H. Oberlies, Cedric J. Pearce, Aaron H. Colby, Mark W. Grinstaff, Kebin Liu. Lipid nanoparticle delivery of Fas plasmid restores Fas expression to suppress melanoma growth in vivo. ACS Nano, 2022, 16, 8, 12695–12710. DOI: 10.1021/acsnano.2c04420.
- 5. Zeinab Y Al Subeh, Tian Li, Abraham Ustoyev, Jennifer C Obike, Philip M West, Manead Khin, Joanna E Burdette, Cedric J Pearce, Nicholas H Oberlies, Mitchell P Croatt. Semisynthesis of hypothemycin analogues targeting the C8-C9 diol. *Journal of Natural Products*, 2022, 85, 8, 2018–2025. DOI: 10.1021/acs.jnatprod.2c00434.
- 6. Zeinab Y Al Subeh, Amy L Waldbusser, Huzefa A Raja, Cedric J Pearce, Kin Lok Ho, Michael J Hall, Michael R Probert, Nicholas H Oberlies, Shabnam Hematian. Structural diversity of perylenequinones is driven by their redox behavior. *The Journal of Organic Chemistry*. 2022, 87(5): 2697–2710. DOI: 10.1021/acs.joc.1c02639.
- Zeinab Y Al Subeh, Laura Flores-Bocanegra, Joseph M Egan, Tamam El-Elimat, Huzefa A Raja, Joanna E Burdette, Cedric J Pearce, Roger G Linington, Nicholas H Oberlies. Dereplication of fungal metabolites by NMR-based compound networking using MADByTE. *Journal of Natural Products*. 2022, 85(3): 614–624. DOI: 10.1021/acs.jnatprod.1c00841.
- **8.** Zeinab Y Al Subeh, Karem H Alzoubi. Researchers' ethical perspective about women participation in research studies in Jordan. *Heliyon*. 2021, 7 (12): e08492. DOI: 10.1016/j.heliyon.2021.e08492.
- 9. Zeinab Y. Al Subeh, Huzefa A. Raja, Amanda Maldonado, Joanna E. Burdette, Cedric J. Pearce, Nicholas H. Oberlies. Media and strain studies for the scaled production of *cis*-enone resorcylic acid lactones as feedstocks for semisynthesis. *Journal of Antibiotics*, 2021, 74(8): 496–507. DOI: 10.1038/s41429-021-00432-3.
- 10. Zeinab Y. Al Subeh, Huzefa A. Raja, Joanna E. Burdette, Joseph O. Falkinham, Scott E. Hemby, Nicholas H. Oberlies. Three diketomorpholines from a *Penicillium* sp. (strain G1071). *Phytochemistry*, 2021, 189, 112830. DOI: 10.1016/j.phytochem.2021.112830.
- 11. Zeinab Y. Al Subeh, Ngoc-Quynh Chu, Jeremy T. Miller, Lillian L. Tsai, Tyler N. Graf, Yin P. Hung, Cedric J. Pearce, Mark W. Grinstaff, Aaron H. Colby, Yolonda L. Colson, Nicholas H. Oberlies. Delivery of eupenifeldin via polymer-coated surgical buttresses prevents local lung cancer recurrence. *Journal of Controlled Release*, 2021; 331: 260-269. DOI: 10.1016/j.jconrel.2021.01.026.
- **12.** Zeinab Y. Al Subeh, Huzefa A. Raja, Amanda Maldonado, Joanna E. Burdette, Cedric J. Pearce, Nicholas H. Oberlies. Thielavins: tuned biosynthesis and LR-HSQMBC for structure elucidation. *Journal of Antibiotics*, **2021**; 74(5), 300–306. DOI: 10.1038/s41429-021-00405-6.
- **13. Zeinab Y. Al Subeh**, Huzefa A. Raja, Susan Monro, Laura Flores-Bocanegra, Tamam El-Elimat, Cedric J. Pearce, Sherri A. McFarland, Nicholas H. Oberlies. Enhanced production and anticancer properties of photoactivated perylenequinones. *Journal of Natural Products*, **2020**; 83(8):2490-2500. DOI: 10.1021/acs.jnatprod.0c00492.

An erratum was published to adjust a typographical error:

Zeinab Y. Al Subeh, Huzefa A. Raja, Susan Monro, Laura Flores-Bocanegra, Tamam El-Elimat, Cedric J. Pearce, Sherri A. McFarland, Nicholas H. Oberlies. Correction to enhanced production and anticancer properties of photoactivated perylenequinones. *Journal of Natural Products*, **2020**; 83, 12, 3765–3766.

- **14.** Zeinab Y. Al Subeh, Karem H. Alzoubi. Cultural and religious barriers influencing the participation of women in research: A study from Jordan. *Gender Issues*, 2020; 37: 173–186. DOI: 10.1007/s12147-019-09235-1.
- **15.** Karem H. Alzoubi, **Zeinab Y. Al Subeh**, Omar F. Khabour. Molecular targets for the interactive effect of etazolate during posttraumatic stress disorder: Role of oxidative stress, BDNF and histones. *Behavioural Brain Research*, **2019**; 369:111930. DOI: 10.1016/j.bbr.2019.111930.
- **16.** Tamam El-Elimat, Karem H. Alzoubi, Mahmoud M. Abu AlSamen, **Zeinab Y. Al Subeh**, Tyler N. Graf, Nicholas H. Oberlies. Silymarin prevents memory impairments, anxiety, and depressive-like symptoms in a rat model of post-traumatic stress disorder. *Planta Medica*, **2019**; 85(01): 32-40. DOI: <u>10.1055/a-0710-5673</u>.
- 17. Zeinab Y. Al Subeh, Feras Alali, Ahmad Awaisu. Pharmacy students' informal use of Facebook and its perceived role in pharmacy education in Jordan. *Innovations in pharmacy*, 2018; 9 (1). DOI: 10.24926/iip.v9i1.951.
- **18.** Karem H Alzoubi, **Zeinab Y. Al Subeh**, Omar Khabour. Evaluating the protective effect of etazolate on memory impairment, anxiety- and depression-like behaviors induced by post-traumatic stress disorder. *Brain Research Bulletin*, 135 (**2017**) 185–192. DIO: 10.1016/j.brainresbull.2017.10.012.
- **19.** Zeinab Y. Al Subeh, Feras Alali, Ahmad Awaisu. Attitudes towards using smart devices and medical applications among pharmacy students, preceptors and faculty members in Jordan. *Pharmacy Education*, **2017**; 17 (1) 308 315.

ARTICLE PEER REVIEW SERVICE

- ACS Omega, Washington, DC, USA. (2)
- Organic letters, Washington, DC, USA. (1)
- Journal of Natural Products, Washington, DC, USA. (3)
- American Journal of Pharmaceutical Education, Arlington, VA, USA. (1)
- Innovations in Pharmacy, Minneapolis, MN, USA. (3)
- New Journal of Chemistry, The Royal Society of Chemistry, United Kingdom. (1)

ORAL & POSTER PRESENTATIONS

- 1. Zeinab Y. Al Subeh. Enhanced Production of Photoactivated Perylenequinones and Their Structural Diversity as Driven by Their Redox Behavior. The third scientific conference for Yarmouk pharmacy entitled "Recent Trends in Pharmaceutical Research", Yarmouk University, May 9th & 10th, 2023.
- 2. <u>Zeinab Y. Al Subeh</u>. Preclinical Development of Fungal Secondary Metabolites & The Discovery of New Metabolites with Cytotoxic Properties, Seminar at Jordan University of Science & Technology, June 15, 2022. (Oral presentation)
- 3. Zeinab Y. Al Subeh, Ngoc-Quynh Chu, Jeremy T. Miller, Lillian L. Tsai, Tyler N. Graf, Yin P. Hung, Cedric J. Pearce, Mark W. Grinstaff, Aaron H. Colby, Yolonda L. Colson, and Nicholas H. Oberliesa. Delivery of Eupenifeldin via Polymer-Coated Surgical Buttresses Prevents Local Lung Cancer Recurrence. UNCG Graduate School 3MT, University of North Carolina at Greensboro, Greensboro, NC, October 27, 2020. (Video Presentation)
- **4.** Zeinab Y. Al Subeh, Ngoc-Quynh Chu, Jeremy T. Miller, Lillian L. Tsai, Tyler N. Graf, Yin P. Hung, Cedric J. Pearce, Mark W. Grinstaff, Aaron H. Colby, Yolonda L. Colson, and Nicholas H. Oberliesa. Delivery of Eupenifeldin via Polymer-Coated Surgical Buttresses Prevents Local Lung Cancer Recurrence. David Slatkin CE Virtual Symposium "Covid-19: Health Disparities and Co-Morbidities", Chicago State University College of Pharmacy, October 21, 2020. (Poster)
- **Zeinab Y. Al Subeh**, Huzefa A. Raja, Susan Monro, Laura Flores-Bocanegra, Tamam El-Elimat, Cedric J. Pearce, Sherri A. McFarland, Nicholas H. Oberlies. Enhanced production and anticancer properties of photoactivated perylenequinones. Natural Products Undercover 2020, July 14, 2020. (Virtual presentation)
- 6. Zeinab Y. Al Subeh, Huzefa A. Raja, Susan Monro, Laura Flores-Bocanegra, Tamam El-Elimat, Cedric J. Pearce, Sherri A. McFarland, Nicholas H. Oberlies, Enhanced Production and Photo-activated Anti-cancer Properties of Natural Compounds. Graduate Research and Creativity Expo, University of North Carolina at Greensboro, Greensboro, NC, April 29, 2020. (Poster)

- 7. Zeinab Y. Al Subeh, Aaron Colby, Tyler N. Graf, Mark Grinstaff, Cedric J. Pearce, and Nicholas H Oberlies. "Eupenifeldin-Polymer Loaded Thin Films to Prevent Local Recurrence of Lung Cancer" The American Society of Pharmacognosy Annual Meeting, American Society of Pharmacognosy, Madison, WI, July 14-17, 2019. (Poster)
- 8. Zeinab Y. Al Subeh, Aaron Colby, Tyler N. Graf, Mark Grinstaff, and Nicholas H. Oberlies. Eupenifeldin-Polymer loaded Thin Films to Prevent the Local Recurrence of Lung Cancer. The 19th Annual ACS Poster Vendor Night at Syngenta, Greensboro, NC, USA, April 16th, 2019. (Poster)
- 9. Zeinab Y. Al Subeh. Multifunctional pH-Sensitive Nanoparticles Loaded into Microbubbles as a Novel Drug Delivery System for Chemotherapeutic Agents. Graduate Student Presentation, Department of Chemistry and Biochemistry, University of North Carolina at Greensboro, NC, USA, October 24th, 2018. (Oral)
- **10.** Zeinab Y. Al Subeh, Tamam El-Elimat, Mahmoud M. AbuAlSamen, Karem H. Alzoubi, Tyler N. Graf, Nicholas 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, USA, July 22-25, 2018. (Poster)
- 11. Zeinab Y. Al Subeh, Karem Alzoubi, Omar Khabour. Evaluating the Protective Effect of Etazolate on Memory Impairment, Anxiety- and Depression-like Behaviors Induced by Post-Traumatic Stress Disorder. The 47th Society for Neuroscience Annual Meeting. Washington DC, USA, November 11-15, 2017. (Poster)
- 12. Zeinab Y. Al Subeh, Karem Alzoubi, Omar Khabour. Evaluating the Protective Effect of Etazolate on Memory Impairment, Anxiety- and Depression-like Behaviors Induced by Post-Traumatic Stress Disorder. Applied Science University (ASU) Pharmacy Third Conference entitled "Recent Trends in Postgraduate Research". Amman, Jordan, April 15-16, 2017. (Poster)
- **13.** <u>Zeinab Y. Al Subeh</u>, Feras Alali. PharmD: Toward Optimal Pharmaceutical Care. The 15th Scientific Congress of the Jordanian Pharmacists Association. Amman, Jordan, April 3-5, 2014. (Oral)
- **14.** <u>Zeinab Y. Al Subeh</u>. PharmD: scope of practice. Graduation Day Workshop, Jordan Pharmacists Association. 2014. (Oral)

WORKSHOPS & CONFERENCES

- 1. The 5th International Pharmacy Conference entitled "Multidisciplinary Pharmaceutical Research", Jordan University of Science & Technology, June 7th & 8th, 2023.
- 2. The third scientific conference for Yarmouk pharmacy entitled "Recent Trends in Pharmaceutical Research", Yarmouk University, May 9th & 10th, 2023.
- **3.** The 12-hour workshop entitled "E-learning media/website creating and hosting on JUST server", Academic Development & Quality Assurance Center, Jordan University of Science & Technology, October 13th & 15th, 2022.
- **4.** Highlights in Pharmaceutical Practices, The Hashemite University, June 30th 2022.
- 5. Primary Health Care and Welfare Conference 2022, Jordan University of Science & Technology, July 28th, 2022.
- **6.** The 12-hour workshop entitled "Applying Quality Matters Rubric", Academic Development & Quality Assurance Center, Jordan University of Science & Technology, June 1-2th, 2022.
- 7. Natural Products Undercover 2020, American Society of Pharmacognosy, virtual conference, July 14th, 2020.
- **8.** The 60th American Society of Pharmacognosy Annual Meeting, American Society of Pharmacognosy, Madison, WI, USA, July 14-17th, 2019.
- **9.** The 59th American Society of Pharmacognosy Annual Meeting, American Society of Pharmacognosy, Lexington, KY, USA, July 22-25th, 2018.
- **10.** 8th Annual Wood Coatings and Substrates Conference. Elliott University Center. University of North Carolina at Greensboro, Greensboro, NC, September 20-21th, 2018
- **11.** 2018 Triangle Chromatography Discussion Group Symposium. North Carolina Biotechnology Center, Durham, NC, May 17th, 2018.

- **12.** Medicinal Natural Products Chemistry Research: From Lab to Clinic Symposium. University of North Carolina at Greensboro, February 16th, 2018
- **13.** MS Training Course. Triad Mass Spectrometry Laboratory, Department of Chemistry and Biochemistry, The University of North Carolina at Greensboro NC, Greensboro, February 1-25th, 2018.
- 14. The 47th Society for Neuroscience Annual Meeting. Washington DC, USA, November 11-15th, 2017.
- **15.** The 69th Southeastern Regional Meeting of the American Chemical Society (SERMACS), Charlotte, N.C., November 7-11th, 2017.
- **16.** Applied Science University (ASU) Pharmacy Third Conference entitled "Recent Trends in Postgraduate Research". Amman, Jordan, April 15-16th, 2017.
- **17.** "Teaching Methods and Learning Styles" Workshop. Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, February 22-23th, 2017.
- **18.** The 1st International Conference on Ethics and Biomedical Informatics. Responsible Conduct of Research Program in collaboration with the School of Pharmacy at Jordan University of Science and Technology, August 10th, 2016.
- 19. The 15th Scientific Congress of the Jordanian Pharmacists Association. Amman, Jordan, April 3-5th, 2014.

COMMUNITY SERVICE

Being the main supervisor and one of the administrative members of "PharmD: Toward Optimal Pharmaceutical Care" campaign for five years. This is a student-based pharmacy campaign established in 2011 and focuses on raising health awareness among community members and stressing the role of PharmD and clinical pharmacist in providing optimal pharmaceutical care.

FREE MEDICAL AND HEALTH AWARENESS DAYS

- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Health Educational Day for female students at Irbid University College, Irbid, March 28th, 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. World Cancer Day, Arabella Mall, Irbid, February 23rd,
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Kufur Khal, Jarash, February 11th,
 2017.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Al Ramtha, Irbid, December 24th, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. World Diabetic Day, Irbid City Center, Irbid, November 19th, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Juhfyya village, Irbid, October 1st, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Al Husn camp, Irbid, July 23rd, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Altura city, Alramtha, May 10th, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Bait Ras city, Irbid, April 30th, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at King Abdullah Gardens, Irbid, April 21th, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Health Educational Day entitled "Your medications in Ramadan" at Outpatient Clinics, King Abdullah University Hospital, Irbid, March 29-30, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Al Dhlail twon, Zarqa, March 23rd, 2016.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Jenin Alsafa town, Irbid, December 23rd, 2015.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Sakhrah town, Ajloun, November 10th,
 2015.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Libb town, Madaba, May 16th, 2015.

- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at at Kufur Khal, Jarash, April 9th, 2015.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Huwara city, Irbid, June 7th, 2014.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Kitim town, Irbid, May 19th, 2014.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Alramtha city, Irbid, April 15th, 2014.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Kufr Asad town, Irbid, April 12th, 2014.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Sammou' village, Irbid, December 19th, 2014.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day for female students at Irbid University College, Irbid, November 28th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. World Diabetic Day, King Abdullah University Hospital, Irbid, November 17th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Altura city, Alramtha, November 6th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Hofa town, Irbid, July 27th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Al Husn city, Irbid, May 9th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Al Hai Al Sharqi, Irbid, May 4th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Izzmal village, Irbid, April 29th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Sakhrah town, Ajloun, April 22nd, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Alramtha city, Irbid, April 11th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Bait Ras city, Irbid, March 14th, 2013.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Free Medical Day at Harta village, Irbid, December 6th, 2012.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. World Women Day at Professional Associations Complex, Irbid, November 17th, 2012.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Health Educational Day entitled "Consult Your Clinical Pharmacist" at Arabella Mall, Irbid, June 23rd, 2012.
- Pharm.D. Campaign: Toward Optimal Pharmaceutical Care. Health Educational Day at Jordan University of Science and Technology, Irbid, March 20-22, 2012.

PUBLISHING EDUCATIONAL ARTICLES AT ALRAI NEWSPAPER

- 1. Feras Alali, <u>Zeinab Al Subeh</u>. <u>Enriching High Education Through Structured Volunteer Programs: PharmD's Towards Optimum Pharmaceutical Care as a case study</u>. Alrai Newspaper. Jordan. 6/27/2016 (In Arabic).
- 2. Feras Alali, Zeinab Al Subeh. *Pharmacists in Jordan: The Missing Roles*. Alrai Newspaper. Jordan. 10/10/2015 (In Arabic).
- 3. Feras Alali, Zeinab Al Subeh. Ethical Principles of Scientific Research. Alrai Newspaper. Jordan. 8/15/2014 (In Arabic).
- **4.** Feras Alali, **Zeinab Al Subeh**. *Massive Open Online Courses (MOOCs): Is It The Future of High Education?*. Alrai Newspaper. Jordan. 3/22/2014 (In Arabic).

PUBLISHING HEALTH AWARENESS ARTICLES AT ALGHAD NEWSPAPER:

- 1. Fatima Al-Hazaymeh, <u>Zeinab Al Subeh</u>. *Autism Spectrum Disorder: Definition, Risk Factors, Symptoms, and Treatment*. Alghad Newspaper. Jordan. 2/14/2017 (In Arabic).
- 2. Raghad Al-Mahasis, Zeinab Al Subeh. Causes, Prevention, and Treatment of Gestational Diabetes. Alghad Newspaper. Jordan. 3/23/2016 (In Arabic).
- **3.** Fatema Rubaie, **Zeinab Al Subeh**. *Diagnosis and Treatment of Vitamin B12 Deficiency*. Alghad Newspaper. Jordan. 10/25/2015 (In Arabic).

- **4.** Doha Odetallah, **Zeinab Al Subeh**. *One Weekly Injection: New Hope for Diabetic Patients*. Alghad Newspaper. Jordan. 9/15/2015 (In Arabic).
- **5.** Heba Alkhayyat, **Zeinab Al Subeh**. *One Capsule Is Enough for Patients with Heart disease*. Alghad Newspaper. Jordan. 6/9/2015 (In Arabic).
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