

CURRICULUM VITAE

SAJA H. HAMED, PH.D.

Professor of Pharmaceutics and Cosmetic Science
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Youtube Channel (Dr.Hamed): [\(239\) Prof. Saja Hamed - YouTube](#)

PERSONAL INFORMATION:

- ❖ Nationality: Jordanian
- ❖ Marital Status: Married (have 2 boys)

EDUCATION:

- ❖ Ph.D. in Pharmaceutics and Cosmetic Science, June 2004, College of Pharmacy, University of Cincinnati, Cincinnati, OH, USA.
- ❖ B.Sc. Pharmacy, June, 1998, Faculty of Pharmacy, University of Jordan, Amman, Jordan. **Was ranked first with a GPA: 3.86/4.0.**
- ❖ High school matriculation, June 1993, General Secondary Certificates, Sukaina Bint Al-Hussein Secondary School, Amman, Jordan. **Scored 95.0%.**

PROFESSIONAL EXPERIENCE:

Sep 21 st 2022- Current	Dean, Faculty of Pharmaceutical Sciences, The Hashemite University, Zarqa, Jordan
Dec 21 st 2021	Professor of Pharmaceutics and Cosmetic Science, Faculty of Pharmaceutical Sciences, The Hashemite University, Zarqa, Jordan
2016-2018	Dean, Faculty of Pharmaceutical Sciences, The Hashemite University, Zarqa, Jordan
2015- 2016	Vice Dean, Faculty of Pharmaceutical Sciences, The Hashemite University, Zarqa, Jordan
2013- Current	Associate Professor of Pharmaceutics and Cosmetic Science, Faculty of Pharmaceutical Sciences, The Hashemite University, Zarqa, Jordan
2013-2014	Member in the Establishment Council of the Faculty of Pharmaceutical Sciences, Hashemite University
2011-2013	Member in the Higher Advisory Committee for the establishment of College of Pharmaceutical Sciences at the Hashemite University
2011- 2013	Assistant Dean, Faculty of Allied Health Sciences, The Hashemite University, Zarqa, Jordan
2004 - 2013	Assistant Professor of Pharmaceutics and Cosmetic Science, Cosmetic Science Department, Faculty of Allied Health Sciences, The Hashemite University, Zarqa, Jordan
Summer 2007	Visiting Scientist, Pharmaceutics and Cosmetic Science Department and Dermatology Department, University of Cincinnati, OH, USA

2000-2004	Graduate Student, Pharmaceutics and Cosmetic Science Graduate Program, College of Pharmacy, University of Cincinnati, OH, USA
1999- 2000	Teaching and Research Assistant, College of Pharmacy, University of Jordan, Amman, Jordan.
1998-1999	Teaching Assistant, College of Pharmacy, University of Philadelphia, Jerash, Jordan

MEMBERSHIP IN PROFESSIONAL / SCHOLASTIC SOCIETIES & COMMITTEES:

2019- Current	Member in the Arab Pharmacists Board, the Arab Pharmacists Union, Cairo, Egypt
2022- Current	Member of the Society of Cosmetic Chemists, Foreign Chapter, USA
2017- Current	Member in the Institutional Review Board (IRP) of the International Pharmaceutical Research Center, Amman, Jordan (IPRC)
2017-2018	Chairman of the Proficiency Examination Committee for Jordanian Pharmacy Graduates held by Jordanian Accreditation & Quality Assurance Commission for Higher Education Institutions
2020	Chairperson of the Accreditation Committee for BSc in Formulation of Cosmetics and Chemical products & for the development of its Curriculum and Competencies, Accreditation & Quality Assurance Commission for Higher Education Institutions, Jordan
2019	Chairperson of the Accreditation Committee for BSc in Cosmetic Science & for the development of its Curriculum and Competencies, Accreditation & Quality Assurance Commission for Higher Education Institutions, Jordan
2021	Member in the accreditation committee for the establishments of framework, instructions, and competencies for the field training of undergraduate students in cosmetic science and cosmetic formulation specialities, Accreditation & Quality Assurance Commission for Higher Education Institutions, Jordan
2016- 2018	Member of the Higher Committee for Medicine and Pharmacy in Jordan Food & Drug Administration (JFDA)
2016-Current	Member in the Higher Disciplinary Committee for Pharmacists in Jordan Pharmacists Association (JPA)
2016	Member in the International Pharmaceutical Federation, FIP
2016	Member in the Academic Pharmacy Section of the FIP
2017- 2018	Member in the American College of Clinical Pharmacy's
2008-2010	Member in the Cosmetics Registration Committee, Jordan Food & Drug Administration
2001-2004	Member of the American Association of Pharmaceutical Scientists (AAPS)
2001-2004	Member of the Society of Cosmetic Chemists, Ohio Valley Chapter, USA
2000-2004	Member of the Graduate Association of Pharmaceutical Sciences Students (GAPSS)
1998- Current	Member of the Jordanian Pharmacy Syndicate (JPA)

PROFESSIONAL PUBLICATIONS:

- ❖ **Saja H. Hamed**, Penkanok Sriwiiyanont, R Randall Wickett, Raymond E. Boissy. Effect of deoxyarbutin on melanogenesis: *in vivo* comparison with other melanogenesis inhibitor. *Journal of Cosmetic Science*. 55(1), 118-119 , **2004**
- ❖ **Saja H. Hamed**, Penkanok Sriwiriyanont, Mitchell A. deLong, Marty O. Visscher, R Randall Wickett, Raymond E. Boissy. Comparative efficacy and safety of deoxyarbutin, a new tyrosinase-inhibiting agent. *Journal of Cosmetic Science*. 57(4): 291-308, **2006**.
- ❖ Hatim S. Alkhatib, Khaled M. Aiedeh, Yasser Bustanji, **Saja Hamed**, M. K. Mohammad, Bashar AlKhalidi, Samer Najjar. Modulation of buspirone HCl release from hypromellose matrices using chitosan succinate: Implications for pH-independent release. *European Journal of Pharmaceutics and Biopharmaceutics*. 70(3):804-12, **2008**.
- ❖ Hatim S. Alkhatib, **Saja Hamed**, Mohammad K. Mohammad, Yasser Bustanji, Bashar Alkhalidi, Khaled M. Aiedeh, Samer Najjar. Effects of thermal curing conditions on drug release from polyvinyl acetate-polyvinyl pyrrolidone matrices. *AAPS PharmSciTech*. 11(1):253-66, **2010**
- ❖ Mohammad K. Mohammad, Khaled M. Aiedeh, Hatim S. AlKhatib, Khaled Tawaha, Bashar AlKhalidi, Ihab M. Al-Masri, **Saja Hamed**, Yasser Bustanji A comparative enzymatic inhibition assay as a surrogate indicator of pharmaceutical and potency equivalence of two orlistat formulations. *Jordan Journal of Pharmaceutical Sciences*. 3 (2): 69-74, **2010**
- ❖ Mohammad K. Mohammad, Rabab Tayyem, **Saja Hamed**, Ihab M. Almasri, Hatim Alkhatib, Mohammad Hudaib, Yasser Bustanji. Development of a new animal model-bioassay procedure for the Evaluation of xanthine oxidase inhibitors. *Scientific Research and Essays*. 5(23): 3750-3755, **2010**
- ❖ **Saja H. Hamed**, Reema Tayyem, Nisreen Nimer, Hatim S. AlKhatib. Skin-lightening practice among women living in Jordan: Prevalence, determinants, and user's awareness. *International Journal of Dermatology*. 49(4): 414-420, **2010**
- ❖ Yasser Bustanji, Ala Issa, Ahlam Moulay, Mohammad Hudaib, Khaled Tawaha, Mohammad Mohammad, **Saja Hamed**, Ihab Masri, Feras Q. Alali. Hormone sensitive lipase inhibition by selected medicinal plants. *Journal of Medicinal Plants Research*. 5(18): 4405-4410, **2011**.
- ❖ Yasser Bustanji, Mohammad Hudaib, Khaled Tawaha, Mohammad K. Mohammad, Ihab Almasri, **Saja Hamed**, Sawsan Oran. *In vitro* xanthine oxidase inhibition by selected Jordanian medicinal plants. *Jordan Journal of Pharmaceutical Sciences*. 4(1):49-56, **2011**

- ❖ **Saja H. Hamed**, Saleh Al-Asaf, Bassam Amro. Innovative non-invasive techniques in skin pharmaceutics as valid complements in cosmetic dermatology practice. *Jordan Journal of Pharmaceutical Sciences*. 4(3): 174-180, **2011**
- ❖ **Saja H. Hamed**, Bilal Altrabsheh, Tareq Assa'd, Said Jaradat, Mohammad Alshra'ah, Abdulfattah Aljamal, Hatim S. Alkhatib, Abdul-Majeed Almalty. Construction, *in vitro* and *in vivo* evaluation of an in-house conductance meter for measurement of skin hydration. *Medical Engineering & Physics*. 34(10): 1471-6, **2012**.
- ❖ **Saja H. Hamed**, Intesar Assakir, Abdul-Majeed Almalty, Salameh Bweir. Does massage post application improve moisturizer's efficacy? A two week regression study. *Journal of Cosmetic Dermatology*, 11(3): 239-44, **2012**.
- ❖ Abdul-Majeed Almalty, **Saja H.Hamed**, Fouad Al-Dabbak, Amjad Shallan. Short-term and long-term effects of electrical stimulation on skin properties. *Physiotherapy Research International*, 18(3): 157-66, **2013**.
- ❖ Ncoza Dlova, **Saja H Hamed**, Joyce Tsoka-Gwegweni, Anneke Grobler, Richard Hift. Women's perceptions of the benefits and risks of skin-lightening creams in two South African communities. *Journal of Cosmetic Dermatology*, 13(3):236-241, **2014**
- ❖ Ncoza Dlova, **Saja H. Hamed**, Joyce Tsoka-Gwegweni and Anneke Groble: Skin lightening practices: an epidemiological study of South African women of African and Indian ancestries. *British Journal of Dermatology*, 173 (Suppl. 2): 2-9, **2015**
- ❖ Sawsan Shahin, **Saja Hamed** and Hatim S. AlKhatib. Effect of formulation variables on the physical properties and stability of Dead Sea mud masks. *Journal of Cosmetic Science*, 66(6): 335-358 , **2015**
- ❖ Alaa Fraihat, Luma Alatrash, Reem Abbasi, Bashaer Abu-Irmaileh, **Saja Hamed**, Mohammad Mohammad, Eman Abu-Rish, Yasser Bustanji: Inhibitory effects of methanol extracts of selected plants on the proliferation of two human melanoma cell lines. *Tropical Journal of Pharmaceutical Research*, 17 (6):1081-1086, **2018**
- ❖ Nabil N. AL-Hashimi1, Anas I. Awwad, Aqeel N. AL-Hashimi, Iman A. Mansi, Rand O. Shahin and **Saja H. Hamed**: Functionalized Multi Walled Carbon Nanotubes-Reinforced Hollow Fiber Solid/Liquid Phase Microextraction and HPLC-DAD for Determination of Phenazopyridine in Urine. *Current Pharmaceutical Analysis*,14, **2018**
- ❖ Nabil N. AL-Hashimi, Haneen A. Aleih, Nizar M. Al-Zoubi, **Saja H. Hamed**: Solid Bar Microextraction and HPLC/DAD Determination of Diuretic Drugs and its Application to Spiked Human Urine Jordan. *Journal of Pharmaceutical Sciences*,11(1), **2018**

- ❖ **Saja Hamed** & Abdel-Majeed Almalty: Skin Tolerance of Three Types of Dead Sea Mud on Healthy Skin: A short Term Study. *Journal of Cosmetic Science*, 69(4): 269-278, **2018**
- ❖ Bashar Alkhalidi, Hatim S. AlKhatib, Mohammad Saleh, **Saja Hamed**, Yasser Bustanji, Nader Al Bujuq, Naji Najib, Susana Torrado-Susana, and Al-Sayed Sallam: Clarithromycin Laurate Salt: Physicochemical Properties and Pharmacokinetics after Oral Administration in Humans. *Pharmaceutical Development and Technology*, 24(5):607-615, **2019 (Epub: Dec 2018)**
- ❖ **Saja Hamed**, Abdel-Majeed Almalty, Hatim S. Alkhatib, Nabil N. AL-Hashimi1, Duha Hamed: Does Salt and Mineral Content of Dead Sea Mud Affect Its Irritation Potential: A Laser Doppler Flowmetry Study. *Journal of Cosmetic Science*. 70(5): 259-270, **2019**
- ❖ **Saja Hamed**: Community Pharmacy Practice During COVID-19 Pandemic: A Perspective from the Middle East. *Global Journal on Quality and Safety in Healthcare*. 3(3): 109–114, **2020**
- ❖ **Saja Hamed**, Abdel-Majeed Almalty, Hatim S. Alkhatib: The cutaneous effects of long-term use of Dead Sea mud on healthy skin: a 4-week study. *International Journal of Dermatology*. **Epub: December 7th, 2020**
- ❖ **Saja Hamed**, Fatma Afifi, Iman Mansi, Yasser Bustanji, Hatim S. Alkhatib: Screening of commonly used plant extracts in Jordanian skin lightening folkloric recipes for their tyrosinase inhibitory activity: An in vitro study. *Jordan Journal of Pharmaceutical Sciences*, Accepted for publication December 20th, **2020**
- ❖ Mai Jaber, Bahaa Jaber, **Saja Hamed**, Hatim S. AlKhatib: Preparation and evaluation of ascorbyl glucoside and ascorbic acid solid in oil nanodispersions for corneal epithelial wound healing. *International Journal of Pharmaceutics*, Volume 627, **2022**

FUNDS:

- ❖ Deanship of Academic Research, The Hashemite University, "**Women perceptions of the benefits and risks of skin lightening: use and misuse among women living in Amman**". 2006 (2259 JD). Principal Investigator
- ❖ Deanship of Academic Research, The Hashemite University, "**Assessment of the effect of electrical stimulation on skin properties**" 2007 (4780 JD). Co-investigator
- ❖ Abdul Hameed Shoman Foundation, "**Screening and Assessment of the Effects of Melanin Synthesis Inhibitors from Plants Grown in Jordan on Cultured Normal Human Melanocytes for Use as New Skin Depigmenting Agents**".2008 (14910 JD). Principal Investigator
- ❖ Ministry of Higher Education and Scientific Research Fund, "**Cosmeceutical properties of Dead Sea Mud**" 2009 (81,913 JD). Principal Investigator

- ❖ Deanship of Academic Research, The Hashemite University, ***“The knowledge and awareness among university students about over-the-counter analgesics use and side effects and the impact of stress level on their abuse ”*** 2015 (900 JD). Co-investigator
- ❖ Deanship of Academic Research, The Hashemite University, ***“Screening of tyrosinase inhibitory activity of plants collected from Al-Baha region in Kingdom of Saudi Arabia (KSA)”*** 2015 (450 JD). Co-investigator
- ❖ Deanship of Academic Research, The Hashemite University, ***“Empowering the research capacity in the area of transdermal drug delivery at the Faculty of Pharmaceutical Sciences”*** 2015 (532,800 JD). Principal Investigator
- ❖ Deanship of Academic Research, The Hashemite University, ***“ In vitro and In vivo evaluation of Dracaena Cinnabari as human tyrosinase inhibitor for treatment of skin hyperpigmentation”*** 2016 (12,300 JD). Co-Investigator

AWARDS:

- ❖ University Graduate Scholarship, College of Pharmacy, University of Cincinnati, Cincinnati, OH, USA, **2001-2004.**
- ❖ Graduate Student Summer Research Fellowship, University of Cincinnati, Cincinnati, OH, USA, **2003/2004.**
- ❖ Recipient of the 1st place award for the best student poster presented at the Scientific Seminar of the Society of Cosmetic Chemists, **2003.**
- ❖ Recipient of the Innovation and Excellence Award, Initiative by Students of the Hashemite University, Zarqa, Jordan, **2014.**
- ❖ Honored as one of the outstanding representative women in the Hashemite University by the President of the Hashemite University in the International Women's Day, 8th March, **2017.**
- ❖ Honored by the Pharmacist Education Initiative as one of the leaders and top five influential Jordanian Pharmacists for the year 2020. Four thousand pharmacists participated in the survey and nominated Prof Saja to be ranked the 2nd. Vice President of Jordanian Pharmacists Association patronage the honour **2020.**

SUPERVISED RESEARCH:

- ❖ Co-advising a master thesis entitled: **“Construction of high quality pharmacophore model for the human skin pigmentation enzyme tyrosinase and subsequent *in-silico* and *in-vitro* screening for new tyrosinase inhibitor”** at the College of Pharmacy, University of Jordan (2004/2005).
- ❖ External Examiner for a master thesis entitled: **“Screening and evaluation of new glycogen synthase kinase 3 β inhibitors as potential new hypoglycemic agents using ligand-based pharmacophore modeling and experimental enzymatic validation”** supervised by Yasser Al-bustanji, Ph.D, at the College of Pharmacy, University of Jordan (2007)

- ❖ External Examiner for a master thesis entitled: **“The Immunomodulatory effect of Gemifloxacin on human peripheral mononuclear blood cells”** supervised by Yasser Al-bustanji, Ph.D, at the College of Pharmacy, University of Jordan (2009)
- ❖ External Examiner for a master thesis entitled: **“Screening and evaluation of available hypoglycemic agents for their potential protective and treating effects of diabetic retinopathy”** supervised by Mohammad Khalil Mohammad, Ph.D, at the College of Pharmacy, University of Jordan (2010)
- ❖ External Examiner for a master thesis entitled: **“Evaluation of effect of triglycerides carriers on the physical and controlled release properties of Carbamazepine loaded wax microparticles”** supervised by Hatim S Alkhatib, Ph.D, at the College of Pharmacy, University of Jordan (2010)
- ❖ External Examiner for a master thesis entitled: **“Immunogenicity evaluation of an erythropoietin product in patients with chronic renal failure”** supervised by Mohammad Khalil Mohammad, Ph.D, at the College of Pharmacy, University of Jordan (2010)
- ❖ Co-advising a master thesis entitled: **"Bioengineering approach for optimizing moisturizer formulation"** at the College of Pharmacy, University of Jordan (2011/2012).
- ❖ External Examiner for a master thesis entitled: **"The evaluation of the cytotoxic effect of some plant extracts and their ability to inhibit the growth of aggressive human melanoma (A375.S2) through the evaluation of tyrosinase enzyme activity"** at the College of Pharmacy, University of Jordan (2011/2012).
- ❖ Advising a master thesis entitled: **"Effect of different excipients on Dead Mud Formulations"** at the College of Pharmacy, University of Jordan (2012).
- ❖ External Examiner for a master thesis entitled: **"Effect of mode of processing of Telmisartan nanosuspensions on drug release from nanoparticles-containing solid dosage forms"** at the College of Pharmacy, University of Jordan (2015).
- ❖ External Examiner for a master thesis entitled: **"Preparation and characterization of surface active chitosan derivative"** at the College of Pharmacy, University of Jordan (2015).
- ❖ External Examiner for a master thesis entitled: **"A prodrug approach to enhance Azelaic Acid percutaneous absorption"** at the College of Pharmacy, University of Jordan (2015).
- ❖ External Examiner for a Ph.D thesis entitled: **“The effect of Iberin against *Pseudomonas aeruginosa* biofilms in cystic fibrosis artificial sputum medium and on ex vivo skin explant model”** at the College of Pharmacy, University of Jordan (2016).

- ❖ External Examiner for a Ph.D thesis entitled: “**The safety and efficacy of Mycamine on fibroblast and *Pseudomonas Aeruginosa* acute wound model**” at the College of Pharmacy, University of Jordan (2017).
- ❖ Co-advisoring a master thesis entitled:” **Development and Evaluation of a Microemulsion Formulation of Ascorbic Acid-2-Glucoside for Delivery to The Skin.**” at the College of Pharmacy, University of Jordan (2020/2022).

PROFESSIONAL PRESENTATIONS:

- ❖ **Saja H. Hamed**, . Randall Wickett and Raymond E. Boissy. Deoxyarbutin: a new tyrosinase inhibitory agent. Poster Presentation, *Annual Scientific Seminar of the Society of Cosmetic Chemists*, Washington D.C., USA, May 7th- 9th 2003.
- ❖ **Saja H. Hamed**, Penkanok Sriwiiyanont, Randall Wickett and Raymond E. Boissy. Effect of deoxyarbutin on melanogenesis in human melanocytes: *In vivo* comparison of deoxyarbutin with other melanogenesis inhibitors. Podium presentation, *Annual Scientific Meeting & Technology Showcase of the Society of Cosmetic Chemists*, New York, USA, December 4th—5th, 2003
- ❖ **Saja H. Hamed**, Penkanok Sriwiriyanont, Randall Wickett, and Raymond E. Boissy. *In vivo* effectiveness of a new skin depigmenting agent. Podium Presentation, *Student Night of the Society of Cosmetic Chemists, Ohio Valley Chapter*, Cincinnati, Ohio, USA, April 14th, 2004
- ❖ **Saja H. Hamed**, Penkanok Sriwiriyanont, Randall Wickett, and Raymond E. Boissy. Efficacy and cytotoxicity of a new skin depigmenting agent. *The 3rd International Conference of the Royal Medical Services* (In collaboration with the Royal College of Physicians of London), Amman, Jordan, April 5th-8th 2006.
- ❖ **Saja H. Hamed**, Penkanok Sriwiriyanont, Randall Wickett, and Raymond E. Boissy. Comparative efficacy and cytotoxicity of a new skin depigmenting Agent. Abstract accepted as a podium presentation in the *8th International Symposium on Pharmaceutical Sciences (ISOPS8)*, Ankara, Turkey, June 13th-16th, 2006.
- ❖ **Saja H. Hamed**. Noninvasive techniques to measure effects of skin care products. *The 1st Jordanian International Biomedical Engineering Conference (JIBEC)*, Amman, Jordan, November 6th , 2007
- ❖ **Saja H. Hamed & Saleh Al-Asaf**. Instrumental evaluation of damage and recovery of skin barrier function after Trichloroacetic Acid (TCA) peeling: A case study. *The 4th International Conference of the Royal Medical Services*, Amman, Jordan, May 15th, 2008

- ❖ ***Saja Hamed.*** Cosmetics and therapeutic effects of Dead Sea minerals, **The 2nd Scientific Day of the College of Allied Health Sciences**, the Hashemite University, Zarqa, Jordan, April 6th, **2011**
- ❖ ***Saja Hamed.*** Analgesics use and abuse, **"for Better Health" workshop** held at the Hashemite University in collaboration with King Abdullah II Office for Job Recruitment and College of Allied Health Sciences, 2-June 28-29th, **2011**
- ❖ Abeer Al aydie, Bassam Amro, and ***Saja Hamed***, Poster entitled: "The influence of humectant type and content on moisturizer's efficacy: a bioengineering approach", **The scientific Day of the Faculty of Pharmacy**, University of Jordan, April, **2011**
- ❖ ***Saja Hamed***, Hatim Alkhatib, Yasser Albustanji, Muhammed Khalil, and Fatima Afifi, Poster entitled: " Screening commonly used plant extracts by Jordanian women for ameliorating skin hyperpigmentation for their effects on melanin synthesis", **The scientific Day of the Faculty of Pharmacy**, University of Jordan, April, **2011**
- ❖ ***Saja H. Hamed***, Reema Tayyem, Nisreen Nimer, Hatim S. AlKhatib: Women perceptions of the benefits and risks of skin lightening: use and misuse among women living in Amman. **The 14th Annual Scientific Congress of the Association of the Pharmacy Colleges in the Arab World (SACPAW)**, AUST, Ajman, UAE, 7-9 Feb, **2012**
- ❖ ***Saja Hamed***, Hatim Alkhatib, Yasser Bustanji, Fatima Afifi, Mohammad Mohammad: The use of folkloric botanical extracts as topical skin lightening agents. **The 3rd International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses (ISMP)** , Petra, Jordan, November, **2012**
- ❖ ***Saja Hamed:*** Oral Presentation Entitled:" Moisturizer's Efficacy: Internal vs. External Factors". **The 15th Scientific Congress of the Jordanian Pharmacists Association**, Amman, Jordan, April 4th, **2014**
- ❖ ***Saja Hamed:*** Oral Presentation Entitled "Skin Lightening Practice among Women Living in Amman". **The 7th Scientific Day of College of Pharmacy in Jordan University of Science and Technology (JUST)**, Irbid, Jordan, May 15th, **2014**
- ❖ ***Saja Hamed:*** Oral Presentation Entitled "Dead Sea mud: Cutaneous effects vs. formulations". The Scientific Day for Hamdi Mango Center for Scientific Research entitled "Dead Sea Treasures", University of Jordan, Amman, Jordan, June 17th, **2014**.
- ❖ ***Saja Hamed:*** "Scientific Outlook on Cosmetics for Wrinkles, Skin Lightening, and Stretch Marks", Women Health Festival, Jordanian Pharmacists Association, Amman, Jordan, Sept 20th, **2014**
- ❖ ***Saja Hamed:*** " Peptides in Skin Care", Beauty from inside to outside, A seminar held by the Marketing and Business Development Committee, Jordanian Pharmacists Association, Amman, Jordan, April 4th , **2015**

- ❖ ***Saja Hamed***: Oral presentation Entitled “Guidelines of skin care for Acne”. The First Public Pharmacists Sector Conference, Amman, Jordan, June 11th - 13th , **2015**
- ❖ ***Saja Hamed***: Oral Presentation Entitled “Cosmetic Claim Substantiation” presented in: “Cosmetic Road Map: How to Get your Product to the Market Successfully” a workshop held by Jordanian Company for Antibody Production (MONOJO) , Dead Sea, Jordan, 24/3/**2016**
- ❖ Mai Jaber, ***Saja Hamed***, Undergraduate Poster Entitled: “Does Topical Use of Aspirin with Vaseline ameliorate Acne?”, submitted for undergraduate poster competition at Applied Science University-Pharmacy Third Conference & the 3rd International Conference of Jordanian Faculties of Pharmacy “JFP”, Applied Science University, 15-16 April, **2017**
- ❖ ***Saja Hamed***: An Invited Speak Entitled “Ethics in Pharmacy Practice”, the 5th Scientific Day of Jordanian Pharmacists Association/Zarqa Section, Zarqa, Jordan, 8th April, **2017**
- ❖ ***Saja Hamed*** & Kamal Bani-Hani: ”Improvement of Pharmacy Education in Jordan: The Hashemite University Experience”, a poster presentation in the 77th FIP World Congress of Pharmacy and Pharmaceutical Sciences 2017, Seoul, South Korea, 10-14 September **2017**.
- ❖ ***Saja Hamed***: An Invited Speak Entitled" The Vital Role of Universities to Shape Tomorrow's Pharmacy Graduates", the First Conference of Faculty of Pharmacy, Yarmouk University, 22 November, **2017**
- ❖ ***Saja Hamed***: An Invited Speak Entitled " Cosmetic Claim Substantiation: Dead Sea Mud as an Example", the Second Scientific Day of Faculty of Pharmacy (Pharmacy & Beauty), Yarmouk University, 4th July, **2018**
- ❖ ***Saja Hamed***: An Invited Speak Entitled " Halal Cosmetics: My Recommendations", the Second Global Forum for Marketing of Halal Pharmaceuticals, Princess Sumaya University for Technology, Amman, Jordan, 5th Dec, **2018**
- ❖ ***Saja Hamed***: An Invited Speak Entitled “Injectable Fillers & Botox”, The 4th Scientific Day of the Jordanian Pharmacists Association entitled “Modern Techniques in Skin Care”, Amman, Jordan, Dec 15th , **2018**.
- ❖ ***Saja Hamed***: An Invited Speak Entitled “Halal Pharmaceutical & Medicinal Products”, Chemical Engineer Division, Jordan Engineer Association, Feb 9th , **2019**
- ❖ ***Saja Hamed***: An Invited Speak Entitled "Innovative Assessments in Pharmacy Education: My Own Experience", the First scientific Day of Faculty of Pharmacy (Modernistic Pharmacy in the Eyes of Scientific Research), Jadara University, Irbid, Jordan, May 3rd , **2019**

- ❖ **Saja Hamed:** An Invited Speak Entitled “Cosmetic Labelling and Current International Regulations” and a member in the Panel Discussion group and a member in the Judgment Committee, The Cosmetic Workshop & Competition, Jordan Pharmacists Association & Academia Industry Platform (JAIP), Amman, Jordan, Oct 31st, **2019**
- ❖ **Saja Hamed:** An Invited Speaker to talk about Cosmetic Projects and business opportunities, Free online webinar held by Academia Industry Platform (JAIP), May 22nd, **2020**
- ❖ **Saja Hamed:** A presenter to talk about: Problem statement, introduction, justifications, study objectives and conceptual framework” in an online course on basics and methods of scientific research presented to pharmacy students from EMRO Associations', International Pharmaceutical Students Federation-Middle East Region (IPSF EMRO). Jan 2nd, **2021**
- ❖ **Saja Hamed:** A presenter to talk about: “Illegal mercury containing skin lightening products available in the local market”, Faculty of Pharmaceutical Sciences Seminar Series, Hashemite University, Feb 16th, **2021**
- ❖ **Saja Hamed,** An invited speak Entitled “Ready, Steady, Glow: You are not the Placebo!”, JPSA’s 4th National Symposium, Oct 7th, **2022**

TRAINING

- ❖ Training in professional use of **pharmaceutical unit operations** (granulation, tableting, coating etc) and evaluation of pharmaceutical dosage forms, Industrial Pharmacy Lab, College of Pharmacy, University of Cincinnati Medical Center, Cincinnati, OH, USA, September, 1999- 2000.
- ❖ Training on the **establishment of normal human cell cultures** from infant foreskin, *in vitro* and *in vivo* assays of tyrosinase inhibitory agents, and measurements of melanin content of cultured human melanocytes, Pigment Cell Research Labs, University of Cincinnati Medical Center, Cincinnati, Ohio, USA, 2000-2004
- ❖ Training in the **development and formulation of emulsion** and other cosmetic formulation, Cosmetic Science Lab, College of Pharmacy, University of Cincinnati, Cincinnati, Ohio, USA
- ❖ Certified Radiation Worker, **Site-Specific Radiation Safety Training**, Radiation Safety Department, University of Cincinnati, Medical Center, Cincinnati, OH, USA, December 5th, 2001.
- ❖ **Lab. Animal Training** (IACUC Orientation and Rodent Training), Institutional Animal Care and Use Committee, University of Cincinnati Medical Center, Cincinnati, OH, USA, June, 2002.
- ❖ **OSHA Bloodborne Pathogens Standard Training**, Environmental Health and Safety, University of Cincinnati Medical Center, Cincinnati, OH, USA, September, 2002.
- ❖ **University Evaluation and Educational Technology**, Center of Academic Quality Assurance, The Hashemite University, Zarqa, Jordan, November, 2004

- ❖ **Blackboard Learning System Essentials**, Center of Academic Quality Assurance, The Hashemite University, Zarqa, Jordan, August, 2006
- ❖ **SPSS** (Statistical Package for Social Sciences), Center for Studies, Consultations and Community Service, The Hashemite University, Zarqa, Jordan, March , 2007
- ❖ Comprehensive **E-learning workshop**, E Learning Center, The Hashemite University, Zarqa, Jordan, 30/5/2010-3/6/2010
- ❖ Practical **Training on Dermascan Cver32D** carried at the Hashemite University by Mr. Claus; a trainer from Cortex Technology company in Denmark, May 2010
- ❖ **"Ethics of Clinical Trials in the Arab Region: What are the Issues?"** Workshop carried at the Hashemite University by Dr. Henry Silverman-University of Maryland, USA, Director of Merit's Foundation, 23/10/2011
- ❖ **"Updates on contraceptive pills and counseling for women"** Workshop carried by Jordanian Pharmacy Syndicate, Zarqa branch, 18/12/2012
- ❖ **"General Regulatory Training and Preparations of CTD Dossiers"**. Training course held by RA ON Call Center at the Jordan Pharmacists Association, March 22nd- 23rd, 2014.
- ❖ **"UNESCO Ethics Teachers' Training Course"**. Held by UNESCO at Hashemite University, October 19th -23rd, 2014
- ❖ **"Pharmaceutical Marketing Basics"**, a workshop held by Marketing and Business Development Committee, Jordanian Pharmacy Syndicate, 2015
- ❖ **"Advanced Pharmaceutical Marketing"**, a workshop held by Marketing and Business Development Committee, Jordanian Pharmacy Syndicate, Jan 31st, 2015
- ❖ **"Pharmaceutical Sales Skills"**, a workshop held by Marketing and Business Development Committee, Jordanian Pharmacy Syndicate, 2015
- ❖ **"Manual of Quality Assurance Standards for Pharmacy Program"** , a workshop held by Jordanian Higher Education Accreditation Commission, Aug 10th , 2015
- ❖ **"The Value and Impact of National & International Accreditation on Higher Education: Setting Pharmacy Education as Example"** a workshop held at Jordanian Higher Education Accreditation Commission by Fadi M. Alkhateeb, BSPharm, MBA, Ph.D, Texas A&M Rangel College of Pharmacy, USA, Aug 19th , 2015
- ❖ **"Consultant Orientation Webinar"**, a webinar held by Accreditation Council for Pharmacy Education (ACPE), Oct 8th, 2015.
- ❖ **"Sample Preparation and Particle Sizing in Industry and Research Laboratories"**, a workshop organized by Modern Scientific Supplies in collaboration with Fritsch GmbH and held in Amman on Oct 5th, 2015
- ❖ **"Motivation in the Classroom: Shaping the Way we Teach"** a workshop held for University Instructors at the Hashemite University by the Hashemite Language Center and the Danish-Jordanian university cooperation (DJUCO), 13th Oct, 2015.
- ❖ **"Teaching Future Generations Professional Ethics in Pharmacy Practice"** a workshop held at the Applied Science University by Dr. Betty Chaar from Faculty of Pharmacy, University of Sydney, 5th Dec, 2015.
- ❖ **"Managing Workplace Conflict through Mediation"** a workshop held at Landmark Hotel Amman, Jordan by Jordan Better Workplace Association and UKaid, 5-6/3/2016

- ❖ **“ACPE’s International Services Program (ISP): Informational Webinar”** held by Accreditation Council for Pharmacy Education (ACPE), Jan 27th, 2016
- ❖ **“Development of Biologics: Biosimilar mABs and Vaccines”** a workshop held at the Applied Science University by Dr. Veysel Kayser from Faculty of Pharmacy, University of Sydney, 15th April, 2017.
- ❖ **"Start Your Business (SYB)"** a course for entrepreneurs held in collaboration with the JPA & International Labour Organization by Mahmoud Samahan, 29th Sept - 8th Oct, 2018
- ❖ **“Microbiological Quality in Cosmetics: Theory and Practical Experience”**: Dr. Annelie Struessmann & Dr. Uwe Rossow, Online Webinar by Society of Cosmetic Chemists (SCC), Oct 22nd, 2020
- ❖ **“Microbiome-friendly Beauty Checklist”** Free Webcast by Global Cosmetic Industry, Jan 19th, 2021
- ❖ **“A Clean Beauty Debate”**: Dr. Nicole Acevedo and Dr. Mojgan Moddaresi, International Federation of Societies of Cosmetic Chemists (IFSCC) Webinar, Jan 13th, 2021

PROFESSIONAL PARTICIPATIONS:

- ❖ Glatt-Rohm Joint Symposium, Beyond the Basics 2000, August, 2000, Chicago, IL, USA.
- ❖ Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), November, 2000, Indianapolis, IN, USA.
- ❖ Pharmaceutical Congress of the Americas, March, 2001, Orlando, FL, USA.
- ❖ Annual Scientific Seminar of the Society of Cosmetic Chemists, May 7th- 9th, 2003, Washington D.C., USA
- ❖ Annual Scientific Meeting & Technology Showcase of the Society of Cosmetic Chemists, December 4th-5th, 2003, New York, USA.
- ❖ Cosmetic and Pharmaceutical Industries Scientific Day, Jordanian Engineering Syndicate, Chemical Engineering Unit, July 13th, 2004, Amman, Jordan.
- ❖ National HIV/AIDS Strategy for Jordan 2005-9 Consensus Workshop, May 9th 2005
- ❖ The 3rd International Conference of the Royal Medical Services (In collaboration with the Royal College of Physicians of London), Amman, Jordan, April 5th-8th, 2006.
- ❖ The 8th International Symposium on Pharmaceutical Sciences (ISOPS8), Ankara, Turkey, June 13th-16th, 2006.
- ❖ The 1st Jordanian International Biomedical Engineering Conference (JIBEC), Amman, Jordan, November 4-8, 2007
- ❖ The 8th Plenary Meeting of ISO/TC 217 “Cosmetics”, Amman, Jordan, June, 2008
- ❖ "Torture Rehabilitation" workshop at the Hashemite University in collaboration with "Rehabilitation & Research Center for Torture Victims, Copenhagen, Denmark" and Noor Al-Hussein Foundation, Amman, Jordan, Sept. 27th, 2010
- ❖ The 2nd Scientific Day of the College of Allied Health Sciences, the Hashemite University, Zarqa, Jordan, April 6th, 2011

- ❖ "For Better Health" a workshop held at the Hashemite University in collaboration with King Abdullah II Office for Job Recruitment and College of Allied Health Sciences, June 28-29th, **2011**
- ❖ "Ethics of Clinical Trials in the Arab Region: What are the Issues?" Workshop carried at the Hashemite University by Dr. Henry Silverman- University of Maryland, USA, Director of Merit's Foundation, Oct 23rd, **2011**
- ❖ The 14th Annual Scientific Congress of the Association of the Pharmacy Colleges in the Arab World (SACPAW), AUST, Ajman, UAE, 7-9 Feb, **2012**
- ❖ The 2nd Scientific Day of the College of Pharmacy in Zarqa University entitled "Informatics in Pharmacy", Zarqa University, Zarqa, Jordan, March 3rd, **2014**
- ❖ "Female pharmacists in the front: ability and ambition", Seminar held at the Jordanian Pharmacy Syndicate, March 8th, **2014**
- ❖ "Pharmacy Perspectives: An Evolving Role in Community Health". The 15th Scientific Congress of the Jordanian Pharmacists Association, Amman, Jordan, April 3rd- 5th, **2014**
- ❖ "Ethics of Medical Research and Enhancing the Role of Young Researchers". A Conference Held By the Jordan National Commission for Education, Culture and Science and the National Committee for Science and Technology Ethics, University of Jordan, Amman, Jordan, April 29th- 30th, **2014**
- ❖ The 7th Scientific Day of College of Pharmacy at JUST entitled " Pharmacy between Academia and Industry", Jordan University of Science and Technology, Irbid, Jordan, May 15th, **2014**
- ❖ Workshop entitled " Social Responsibility (ISO 26000): Concept and Applications", Jordan Institution for Standards and Metrology, Amman, Jordan, June 3rd, **2014**.
- ❖ The Scientific Day for Hamdi Mango Center for Scientific Research entitled "Dead Sea Treasures", University of Jordan, Amman, Jordan, June 17th, **2014**.
- ❖ "Production Excellence": A workshop organized by ICS, in association with Glatt GmbH, Colorcon Limited, I-Holland Limited, Korsch GmbH and held in Amman from October 15th -16th , **2014**
- ❖ "BASF Pharma Seminar", A workshop organized by BASF and held in Amman on Jan 20th, **2015**
- ❖ 2nd MENA Regulatory Conference on Bioequivalence, Biowavers, Bioanalysis, Dissolution and Biosimilars, Amman, Jordan, Sept 15th -17th, **2015**
- ❖ "Containment in Action" : A seminar organized by ICS, in association with Glatt GmbH, Korsch GmbH, Mediseal, Dividella, and Pharma Technology and held in Amman, October 7th, **2015**
- ❖ "Recent Advances in Pharmacy and Pharmaceutical Care": the 1st International Conference of Jordanian Faculties of Pharmacy "JFP", ISRA University, 28-29 Oct, **2015**
- ❖ "Cosmetic Road Map: How to Get your Product to the Market Successfully" a workshop held by Jordanian Company for Antibody Production (MONOJO) , Dead Sea, Jordan, 24/3/**2016**
- ❖ "Building Successful Partnerships between Academia and Industry- The Pharmaceutical Sector" a Conference held by the Jordanian Club of Humboldt Fellows and the Friedrich Naumann Foundation for Liberty. Landmark Hotel, Amman, April 13th , **2016**
- ❖ "The Private Sector is a Major Player in Corruption Prevention" a Seminar organized by Aqaba University of Technology and given by Mr. Mike

Masoud, Advisory Director in AACI (American Anticorruption Institute), Royal Hotel, Amman, May 4th, **2016**

- ❖ “Recent Trends in Postgraduate Research”: Applied Science University-Pharmacy Third Conference & the 3rd International Conference of Jordanian Faculties of Pharmacy “JFP”, Applied Science University, 15-16 April, **2017**
- ❖ First Guidance Forum for addiction issues among youth and ways to address them. Philadelphia Private University, 27th April, **2017**
- ❖ The 8th Global Pharmacy Deans Forum at the 77th FIP World Congress in Seoul, Korea, Sept **2017**
- ❖ Poster adjudicate for the Academic Pharmacy Section posters in the 77th FIP World Congress in Seoul, Korea
- ❖ Industrial Plant Tour to Handok Pharma organized by the FIP Industrial Pharmacy Section during the 77th FIP World Congress in Seoul, Korea, Sept **2017**
- ❖ Workshop presented by Dr. Arijana Mestrovic from FIP & Dr. Mike Rouse from ACPE entitled: “Smart Pharmacy: Shaping the future: Innovative model to drive the changes in the Pharmacy Profession in Jordan”, held by the JPA, Oct 8-9th, **2017**.

RESPONSIBILITIES:

- ❖ Member in the Safety and Environment Committee of the College of Allied Health Sciences, **2004/2005**
- ❖ Member in the Social Committee of the College of Allied Health Sciences, **2004/2005**
- ❖ Member of the College Council, Faculty of Allied Health Sciences, the Hashemite University, **2005/2006**
- ❖ Member of the University Council, the Hashemite University, **2005/2006**.
- ❖ Member in the Community Service Committee of the College of Allied Health Sciences, **2006/2007**
- ❖ Member of the College Council, Faculty of Allied Health Sciences, the Hashemite University, **2006/2007**
- ❖ The representative of the College of Allied Health Sciences in the Quality Assurance Center at the Hashemite University, **2006/2007**
- ❖ Member in the Curriculum Committee of the College of Allied Health Sciences, **2006/2007**
- ❖ Member in the Committee for Investigations of Student’s misact of the College of Allied Health Sciences, **2006/2007**
- ❖ Member in the Committee for Investigations of Student’s misact of the College of Allied Health Sciences, **2007/2008**
- ❖ Member in the Center of Environmental Studies Scientific Committee, Detection of Pollutants and Hazardous Materials Research Group, The Hashemite University, **2007**
- ❖ Member in the Small Work Group of the Jordan Institution for Standards and Metrology for preparing a proposed draft for international standard specifications of cosmetics terminology to be submitted to the International Committee of Cosmetics, **2007**
- ❖ Member in the Cosmetics Registration Committee, Jordan Food & Drug Administration, **2008-2010**
- ❖ Member in the Committee for Training, Development, and Communication, Quality Assurance Center, The Hashemite University, **2008**

- ❖ Member in the working group 7 (WG7) for Sun Protection Test Methods in the 8th Plenary Meeting of ISO/TC 217 “Cosmetics”, Amman, Jordan, June, **2008**
- ❖ Member in the working group 4 (WG4) for Cosmetics Terminology in the 8th Plenary Meeting of ISO/TC 217 “Cosmetics”, Amman, Jordan, June, **2008**
- ❖ Member in the Curriculum Committee of the College of Allied Health Sciences, **2008/2009**
- ❖ Member in the Equipments Committee of the College of Allied Health Sciences, **2009/2010**
- ❖ Member in the Committee for evaluating student's scientific researches submitted for the 2nd Student Research Competition for King Abdullah II Fund for Development Office, **August 2010**
- ❖ Administrator for the College of Allied Health Sciences website for the academic year **2010-2011**
- ❖ Member in the Accreditation Committee of the College of Allied Health Sciences, **2010/ 2011**
- ❖ Member in the Field Training Committee of the College of Allied Health Sciences, **2010/ 2011**
- ❖ Member in the Scientific Committee of the College of Allied Health Sciences **2012/2013**
- ❖ Chairman of the Committee for Investigations of Student’s misact of the College of Allied Health Sciences, **2011/201۳**
- ❖ Responsible about Field Training of the College of Allied Health Sciences, **2011/ 2012**
- ❖ Chairman of the Seminars Committee of the College of Allied Health Sciences, **2011/201۳**
- ❖ Link with e-learning officer for updating the Faculty of Allied Sciences Website
- ❖ Link with e-learning officer for updating the Faculty of Pharmaceutical Sciences website, **2013**
- ❖ Member in the Higher Advisory Committee for the establishment of College of Pharmaceutical Sciences at the Hashemite University, **2011/2013**
- ❖ Member in the Council of the Faculty of Pharmaceutical Sciences, Hashemite University, **2013-Current**
- ❖ Member in the Appointment and Promotion Committee, Faculty of Pharmaceutical Sciences, Hashemite University, **2013-Current**
- ❖ Member in the Scientific Research Committee, Faculty of Pharmaceutical Sciences, Hashemite University, **2013-2018**
- ❖ Member in the Tenders Committee, Faculty of Pharmaceutical Sciences, Hashemite University, **2013-Current**
- ❖ Member in the Accreditation Committee, Faculty of Pharmaceutical Sciences, Hashemite University, **2013-Current**
- ❖ Member in the Course Schedule and Academic Loads, Faculty of Pharmaceutical Sciences, Hashemite University, **2013-Current**
- ❖ Member in the Committee of female Pharmacists and Women Affairs, Jordanian Pharmacists Association, **2014-2017**
- ❖ Member in the Committee of Marketing and Business Development, Jordanian Pharmacists Association, **2014-2016**
- ❖ Member in the University Scientific Research Committee, Hashemite University, **2014-2017**
- ❖ **Member in the University Council**, Hashemite University, **2014- 2018**

- ❖ **Chairman of the Curriculum Committee of the Faculty of Pharmaceutical Sciences, Hashemite University, 2014-2018**
- ❖ Member in the University Employees' Savings Fund Committee, Hashemite University, **2015- 2018**
- ❖ Chairman of Committee for Pharmacists' working in Jordanian Universities, Jordanian Pharmacy Syndicate, **2015-2016**
- ❖ External member in the Council of Faculty of Pharmacy of Zarqa Private University, Zarqa, Jordan, **2015-2016**
- ❖ Member in the Accreditation committee for evaluating and accrediting the Pharmacy program at Jarash Private University by Jordanian Higher Education Accreditation Commission, Jarash, Jordan, **2015**
- ❖ Member in the Commission to develop a strategy with action plan for the Academic Development at the Hashemite University, **2016**
- ❖ Member in the Commission to develop code of ethics for employees at the Hashemite University, **2017**
- ❖ Member in the Safety and Environment Committee of the Hashemite University, **2016/2017**
- ❖ Member in the board of directors of the Center for Studies, Consultations and Continuing Education (CSCCE) at the Hashemite University, **2016- 2018**
- ❖ Member in the board of directors of the Center for Information, Communication & E-Learning Technology Center (ICET) at the Hashemite University, **2016- 2018**
- ❖ Member in the Scientific Committee of the Deanship of the Scientific Research, Hashemite University, **2015-2017**
- ❖ Volunteers of the ACPE International Services Program (ISP), **2015- Current**
- ❖ Member of the Higher Committee for Medicine and Pharmacy in JFDA (**2016- 2018**)
- ❖ Member in the Higher Disciplinary Committee for Pharmacists in JPA (**2016- Current**)
- ❖ Chairman of the Proficiency Examination Committee for Jordanian Pharmacy Graduates held by Jordanian Accreditation & Quality Assurance Commission for Higher Education Institutions (**2017-2018**)
- ❖ Founding member of the Faculty of Pharmaceutical Sciences at the Hashemite University (**2008-Current**)
- ❖ Chairman of the Scientific Research Committee, Faculty of Pharmaceutical Sciences, Hashemite University, **2018-Current**
- ❖ **A chairman of a number of accreditation committees for evaluating and accrediting the Bsc Cosmetics program at a number of local private and public Universities by Jordanian Higher Education Accreditation Commission, Amman, Jordan, 2019-2020**
- ❖ Member of the Curriculum Committee of the Faculty of Pharmaceutical Sciences, Hashemite University, **2018-Current**
- ❖ Member of the Committee for local networking with the private sector and community service , **2018-Current**
- ❖ Chairman of the New Faculty Building Relocation Committee, Hashemite University, **2019-2020**
- ❖ Chairman of Devices & Equipment's Committee, Faculty of Pharmaceutical Sciences, Hashemite University, **2020-Current**
- ❖ Chairman of Establishment of MSc program Committee, Faculty of Pharmaceutical Sciences, Hashemite University, **2020-2021**

Journals Contribution:

- ❖ Editorial Board Member for *Journal of Bioequivalence Studies*.
- ❖ Editorial Board Member for *Clinical Dermatology Research Journal*.
- ❖ Editorial Board Member for *Journal of Surgical Dermatology*.
- ❖ Editorial Board Member for *Journal of Cosmetology and Trichology*.
- ❖ Editorial Board Member for *Journal of Dermatological Research*.
- ❖ Reviewer for the *International Journal of Dermatology*.
- ❖ Reviewer for the *International Journal of Cosmetic Science*.
- ❖ Reviewer for the *Jordan Journal of Pharmaceutical Sciences*.
- ❖ Reviewer of the *Jordan Medical Journal*
- ❖ Reviewer of the *Journal of Ethnopharmacology*.
- ❖ Reviewer of the *BMC Dermatology Journal*

External Activities:

- ❖ A guest in "New Day" Jordanian TV daily program with Mrs. Fakher Abandeh about Acne skin care products on July 31, **2011**.
- ❖ A guest in "New Day" Jordanian TV daily program with Mrs. Fakher Abandeh about skin lightening products on Feb 7th, 2011.
- ❖ A guest in "New Day" Jordanian TV daily program with Dr. Lana Mamking about Dead Sea skin salts and products on 18 June **2009**.
- ❖ A guest in "New Day" Jordanian TV daily program with Dr. Lana Mamking about skin lightening practice among women in Jordan on 11 & 18 December **2008**
- ❖ A lecturer on Diabetes Day about "Diabetic Skin Care" organized by Colleges of Allied Health Sciences & Nursing & Medicine/ The Hashemite University on 3 December **2008**.
- ❖ **Member in the Small Work Group of the Jordan Institution for Standards and Metrology for preparing a proposed draft for international standard specifications of cosmetics terminology to be submitted to the International Committee of Cosmetics, 2007**
- ❖ **Member in the working group 7 (WG7) for Sun Protection Test Methods in the 8th Plenary Meeting of ISO/TC 217 "Cosmetics", Amman, Jordan, June, 2008**
- ❖ **Member in the working group 4 (WG4) for Cosmetics Terminology in the 8th Plenary Meeting of ISO/TC 217 "Cosmetics", Amman, Jordan, June, 2008**
- ❖ A trainer on a workshop entitled "Introduction to cosmetic products" Organized by Sana Pharmaceutical Research Co. in collaboration with **JUMP** on 21 & 28 March **2009**. The topics which I have presented were: Skin care products and safety and efficacy testing of cosmetics.
- ❖ **Member in the Cosmetics Registration Committee, Jordan Food & Drug Administration, 2008-2010**
- ❖ Participant in Faculty for Factory Program in collaboration with Sana's Pharmaceutical Research Company to perform the study entitled "Development of a cost effective anti-wrinkle cosmetic product", summer **2008**.

- ❖ Participant in Faculty for Factory Program in collaboration with Ozone for manufacturing cosmetics and natural products to perform the study entitled “Stability study under accelerated degradation conditions of UV filters in Ozone’s sunscreen product”, summer **2009**.
- ❖ “Women Pharmacists Mentors Project”, Jordanian Pharmacy Syndicate, March, **2014**
- ❖ Organizing Committee for Women Health Festival, Jordanian Pharmacy Syndicate, Sept 20th, **2014**
- ❖ Member in the Marketing and Business Development Committee, Jordanian Pharmacy Syndicate, **2014-2016**
- ❖ Member in the Female Pharmacists Affair Committee, Jordanian Pharmacy Syndicate, **2014-2017**
- ❖ Member (vice president) in the Scientific Committee of the Conference for Pharmacists of Public Sector, **May 2015**
- ❖ **Chair of Committee for Pharmacists’ working in Jordanian Universities**, Jordanian Pharmacy Syndicate, **2015-2016**
- ❖ Member in the Scientific Committee of the “Recent Advances in Pharmacy and Pharmaceutical Care”: the 1st International Conference of Jordanian Faculties of Pharmacy “JFP”, ISRA University, 28-29 Oct, **2015**
- ❖ Supervised and participated in the preparation and videotaping of two episode of Drug Education program in collaboration between Pharmacy students from Zarqa Private University and Hashemite University, (**2016**). The episodes were entitled “Ulcerative Colitis” and “Dermatological Problems”
- ❖ Presented a talk entitled “Towards a world free from addiction” at the Hashemite University Initiative: “our Youth stronger than Drugs”, 7th Feb, **2017**
- ❖ Invited talk by the Jordanian Antinarcotics Department for their employees, 8th March, **2017**
- ❖ Invited talks to raise awareness about " Safe Use of Common Medicines" among high school students in several Public & Private Schools in Jordan, **2018-Current (My own initiative entitled “A pharmacist in my school”**.
- ❖ A guest in “New Day” Jordanian TV daily program to talk about the Uniqueness of BSc in Pharmacy Curriculum at Hashemite University and its Eco-friendly Faculty building on Dec 24th, **2019** (Link: <https://www.youtube.com/watch?v=A7EJqYGyreY&t=452s>)
- ❖ An organizer and event moderator for four online interactive webinars with successful Jordanian Pharmacists working in different Pharmacy disciplines all over the world, in collaboration with Pharmacy Management and Pharmaceutical Care Innovation Centre, the webinars were held through Zoom and were presented Live on Facebook (Aug 30th –Sep 30th, **2020**) (Link for the recorded webinars: <https://youtube.com/playlist?list=PL45Ce0FHqxQhsZWJngkMTHlf3jvOB ygZ9>)

COMPUTER SKILLS:

- ❖ Microsoft Office applications.

- ❖ Office Mix: I used Office Mix to develop two online courses at my university; Ethics & Pharmaceutical Legislation and Pharmacology for Non-Pharmacy Students and both courses are currently offered online for the registered students.
- ❖ Graphical software: Sigma Plot.
- ❖ Statistical software: Sigmastat, SPSS
- ❖ Blackboard Learning System Essentials
- ❖ Adobe Photoshop
- ❖ Developing Websites using Wordpress, an Online Course that I have completed through EDRAAK, 2019

COURSE TAUGHT:

- ❖ Cosmetic Formulation
- ❖ Preservative in Cosmetics
- ❖ Skin, Hair, and Nail Disorders
- ❖ Skin and Hair Care
- ❖ Skin Care Science
- ❖ Cosmetic Science (Graduate Course at the College of Pharmacy/University of Jordan)
- ❖ Cosmetics (Undergraduate Course)
- ❖ Pharmaceutical Calculations and Compounding (Theory & Practice)
- ❖ Physical Pharmacy-2
- ❖ Sterilization and Aseptic Manufacturing
- ❖ Pharmaceutical ethics and legislation
- ❖ General Pharmacology for Medical Students
- ❖ Community Pharmacy (1)
- ❖ Applied Research in Pharmacy Management
- ❖ Advanced Pharmacology (CNS Drugs)-Graduate Course
- ❖ CNS Pharmacology for Medical Students
- ❖ ANS Pharmacology for Medical Students
- ❖ HLS Pharmacology for Medical Students
- ❖ Pharmacology for Allied Health Sciences Students
- ❖ Herbal medicine and Aromatherapy
- ❖ Designed the curriculum for toxicology course for Allied Health Sciences
- ❖ Patient Compliance Techniques
- ❖ Co-Supervised two graduation projects in collaboration with Medical Engineering Department for the Medical Engineering Students (4th year) entitled: Skin Color Measurement & Skin Hydration Measurement
- ❖ Research Methods

RESEARCH INTERESTS:

- ❖ Pre-formulation and formulation studies for optimization of cosmetics & skin pharmaceuticals
- ❖ Non-invasive claim substantiation of cosmetics & skin pharmaceuticals using bioengineering techniques.
- ❖ Formulation and process factors affecting in vitro/in vivo performance of cosmetics & skin pharmaceuticals
- ❖ Formulation and quality control of Dead Sea products
- ❖ Formulation and quality control of skin depigmenting agents
- ❖ Support skin pharmaceuticals and cosmetic industry in the Middle East and help them comply with the required regulation for registering and marketing their products.

- ❖ Assessment and development of new cosmetics & skin pharmaceuticals
- ❖ Provide evidence-based practice for the folkloric use of local herbs in skin related disorders
- ❖ Increasing the awareness of women in terms of cosmetics and skin care and how to become an educated and conscious consumer
- ❖ Raising awareness among women regarding unauthorized and illegal mercury containing skin lightening products
- ❖ Improving pharmacy education to meet the required competencies set by the FIP & ACPE