



## CURRICULUM VITAE

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### Dr MAYADAH BASHIR SHEHADEH

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#### PERSONAL DETAILS

Date of Birth: 1966

Sex: Female

Nationality: Jordanian

Marital Status: Married

Languages: Arabic (fluent), English (excellent), German (Basic), Italian (Basic)

#### CAREER HISTORY

4 Feb 2019–Date **Professor of Pharmacognosy, Phytochemistry and Integrative Medicine.** Department of Pharmaceutical Sciences, School of Pharmacy, The University of Jordan

Sept. 2019 – Aug. 2020 **Professor of Pharmacognosy, Phytochemistry and Integrative Medicine, Department of Pharmaceutical Sciences, Faculty of Pharmacy, Al-Ahliyya Amman University (Sabbatical Leave)**

17 Dec. 2012 – 13 Feb. 2019 **Associate Professor of Pharmacognosy, Phytochemistry and Integrative Medicine, Department of Pharmaceutical Sciences, School of Pharmacy, The University of Jordan.**

2014 -2016 **Head of department of Pharmaceutical Sciences, School of Pharmacy, The University of Jordan**

2015-2016 **Member of ACPE faculty of pharmacy steering committee, School of Pharmacy, The University of Jordan**

2015-2016 **Member of curriculum committee, School of Pharmacy, The University of Jordan**

2011 - 2014 **Assistant Dean for Students' Affairs, Faculty of Pharmacy, The University of Jordan**

18-9-2005 – 16-12-2012 **Assistant Professor, Department of Pharmaceutical Sciences,**

**Faculty of Pharmacy, The University of Jordan, Amman, Jordan**

2008 – 2010 **Member of Vitamins Committee, Drugs Department, Jordan Food and Drug Agency, Amman, Jordan**

2003 - 2005 **Faculty of Pharmacy, Philadelphia University, Amman, Jordan,**

Assistant Professor of Pharmacognosy, Phytochemistry and chemistry of natural products

2003 - 2005 Representative of the faculty of pharmacy, Scientific Research Deanship, Philadelphia University

2004 - 2005 Examination Committee Coordinator, Faculty of Pharmacy, Philadelphia University

2003 - 2005 Faculty of Pharmacy Representative at the Students Affairs Deanship, Philadelphia University

2003 – 2004 Quality Assurance Coordinator, Faculty of Pharmacy, Philadelphia University

2002 – 2003 **CNR-IMOF Research Centre for Vegetable and Ornamental Plant Breeding, Napoli, Italy**

**Department of Pharmaceutical Chemistry, Salerno University, Salerno, Italy**

**Department of Pharmacology, Trieste University, Italy**

Visiting Researcher

1997 – 2001 **Faculty of Pharmacy & Medical Sciences, Al-Ahliyya Amman University, Amman, Jordan,**

Assistant Professor of Pharmacognosy and Phytochemistry

1998 – 1999 Member of the Faculty Board

1998 – 2001 Member of the Examination Committee

1997 - 1998 Member of the Scientific Committee of the first International Conference in Clinical Pharmacy

2000 - 2001 **Department of Drug Quality Control Laboratory, Ministry of Health and Health Care, Jordan**

Member of the committee for developing guidelines for testing traditional medicines in Jordan

**Scientific Committee of the Jordanian Pharmacists Association, Amman, Jordan**

2001- 2002 Member of the Scientific Committee of the 9<sup>th</sup> Pharmaceutical Conference,

1998 - 1999 Member of the Scientific Committee of the 9<sup>th</sup> Pharmaceutical Conference,

1999 - 2001 **Department of Pharmacognosy and Phytochemistry, Faculty of Pharmacy, University of Jordan, Amman-Jordan**

Co-supervisor of MSc student in phytochemistry

Pharmacognostical and phytochemical investigation of selected medicinal plants commonly used in Jordan

Summer 1999 **Department of Pharmacognosy, Faculty of Pharmacy, Free Berlin University, Berlin, Germany**

Visiting Researcher (Platelets Inhibition of selected Jordanian medicinal plants)

1992 - 1996 **Department of Pharmacognosy, UCL School of Pharmacy, University of London, London, UK**

PhD Student, teaching assistant

1992 - 1993 MPill Student

1991– 1993 **Pharmacy Group, St Albans, UK**

Pre-registration Pharmacist

**King Khalid University Hospital, Riyadh, Saudi Arabia:**

1990 - 1991 Senior Pharmacist and CPR provider

1988 - 1990 Registered Pharmacist

1987 - 1988 Clinical Pharmacy Student Trainee

## EDUCATION

### University

1993-1996 **PhD Med in Phytochemistry and Phytotherapy.**

Department of Pharmacognosy, UCL School of Pharmacy, Faculty of Medicine, University of London, London, UK

Thesis: **Phytochemical and Biological Investigations of Plants Families**

**Euphorbiaceae and Thymelaeaceae**

Supervisor: Professor F.J. Evans

2005-2006 Homeopathy provider for acute illnesses

Better Health, England, UK

1992-1993 **MPhil in Phytochemistry and Phytotherapy**

Grade: **B<sup>+</sup>** PhD qualifying exam

1982-1988 **BSc (Honours) in Pharmaceutical Sciences**, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.

Final year project; Clinical Pharmacy, **Case study on the treatment and patient monitoring in liver cirrhosis.** Grade: **A**

Tutor: Dr Lucia Jim

Secondary **General Secondary Education Certificate.** Grade: Excellent **98%**

1979-1982 Second Secondary School for Girls, Riyadh, Saudi Arabia.

1992 A-Level in English Language. Grade **B<sup>+</sup>**

Oakland College, St Albans, Herts, UK

## OTHER QUALIFICATIONS

Professional Development: (workshops on: SPSS, drug addiction; curriculum build up; creative thinking; smart teaching; homeopathy for emergency; chemical analysis; spectroscopy and chromatographic techniques; non-reproductive role of sex hormones; presentation skills, evaluation of scientific publications; 1994 to date. The University of Jordan; University of London; Welcome Foundation, London; Applied Sciences University; Amman University)

## GRANTS AWARDED

1. Jordan University Research Grant, 2018, Amman, Jordan. "*In Vitro* appraisal of *Quercus coccifera* extracts hypoglycemic activity" (24000\$).
2. Jordan University Research Grant, 2017, Amman, Jordan. "Design and Synthesis of 2<sup>nd</sup> Generation Glycosylated Sulfonylurea Antidiabetic Agents" (17100\$).  
**Finished**
3. Hamdi Mango Centre for Scientific Research Grant, 2017, Amman, Jordan "Rapid noninvasive screening of proteases biomarkers in breast cancer" (8485\$).
4. Ministry of Higher Education Scientific Research Grant, 2015-2017, Amman, Jordan "Ultra-sensitive microarray for the screening of food-borne microbial pathogen protease activity based on magnetic nano beads " (10400\$).
5. Jordan University Research Grant, 2015-2017, Amman, Jordan. "Washless and Ultra-sensitive microarray for the screening of protease activity based on magnetic nano beads". (32900\$).
6. Jordan University Research Grant, 2015-2017, Amman, Jordan. "Design and synthesis of novel and potent sulfonylurea antidiabetic agents". (14000\$).  
**Finished**
7. Hamdi Mango Center for Scientific Research Grant, 2013-2016, Amman, Jordan." Design and synthesis of novel and potent glycosylated sulfonyl urea antidiabetic agents". (14000\$).  
**Finished**
8. Jordan University Research Grant, 2013-2017, Amman, Jordan. "Isolation and identification of biologically active anti-inflammatory and antibacterial from *Salvia* species grown in Jordan " (32000\$)  
**Finished**
9. Jordan University Research Grant, 2012-2015, Amman, Jordan. "Discovery of novel and potent P2Y<sub>12</sub> antagonists for inhibition of platelet aggregation through molecular modelling and *in-silico* Screening and *in vitro* evaluation and subsequent chemical optimization of more potent leads. (33000\$).  
**Finished**
10. Jordan University Research Grant, 2012-2015, Amman, Jordan. "Antimicrobial, antiplatelet and antioxidant activity of probiotics from medicinal plants and traditional food products among the public". (40000\$).

**Finished**

11. Jordan University Research Grant, 2009-2012, Amman, Jordan. "Discovery of new selective and potent Nitric Oxide Synthase Inhibitors through molecular modeling and *in-silico* Screening and *in vitro* evaluation and subsequent chemical optimization of more potent lead". (27000\$).

**Finished**

12. Jordan University Research Grant, 2006-2009, Amman, Jordan. "Project grant: Optimisation of the linker/clip technology in the design of a new prodrugs". (55000\$).

**Finished**

### **SPECIAL AWARDS**

1. **Erasmus+ Higher Education Staff Mobility Training Award, 2019**, Bath University, UK
2. **Research Grant by EU, CNR 2002**, CNR-IMOF, Napoli, Italy
3. **Jordanian Pharmacists Association Continuous Education Provider Award** (1999, 2000, 2004)
4. **Research Grant by Free Berlin University 1999**  
Department of Pharmacognosy, Free Berlin University, Berlin, Germany
5. **Research Grant for best achievement, 1993**  
Department of Pharmacognosy, School of Pharmacy, University of London, London, UK
6. **Employee of the Year, December 1990**  
Department of Pharmaceutical Services, King Khalid University Hospital
7. **Six University Awards for best achievement 1982-1986**  
Faculty of Pharmacy, King Saud University, Riyadh, Saudi Arabia

### **PROFESSIONAL LEARNED SOCIETIES**

Member of the British Pharmacological Society, 2017-date  
 Registered pharmacist; The Jordanian Pharmacists Association, Amman, January 1988 to date  
 Member of WSEAS 2016- date  
 Member of Friends for Scientific Research Association, 2003 - date  
 Member of the Association of Jordanian Academics 1999 to date  
 Member of the British Pharmaceutical Association, 1994  
 Member of the Phytochemical Society of Europe, 1993 to date  
 Vice President of the Association of Jordanian Academics, 1999-2000  
 Basic Rescuer and CPR provider; The Saudi Heart Association, Riyadh, June 1988 -1991

### **PROFESSIONAL EXPERIENCE**

I started my professional career in July 1988 as a registered pharmacist at King Khalid University Hospital (KKUH), Riyadh, KSA. The pharmacy system in KKUH is patterned after

teaching hospitals in U.S.A. It includes unit dose dispensing, IV additive and TPN programmes, 24-hour service, ambulatory care, clinical pharmacy, drug and poison information service, cancer therapy and inventory controlling.

Pre-registration pharmacist training in the UK expanded the pharmaceutical services in UK. I started the MPhil programme at the department of Pharmacognosy, UCL School of Pharmacy, University of London and sat for the PhD qualifying exam in 1993. Supervision and student guidance experience gained during my PhD research extended over three years (1993-1996) was indispensable.

In September 1997 I was appointed as an assistant professor at the faculty of Pharmacy & Medical Sciences, Amman University. My responsibilities were conducting practical and theoretical pharmacognosy and phytochemistry teaching, updating syllabi and providing academic advice to students. During summer 1999 I've gained a valuable experience at the department of pharmacognosy, faculty of pharmacy, free Berlin University while working on the *in vivo* platelet inhibition effect of selected medicinal plants commonly used in Jordan. During 2002 and 2003 working on the anti-inflammatory activity of selected species of *Salvia* grown in Jordan at CNR,- Napoli, University of Salerno and University of Trieste, Italy and guiding undergraduate and postgraduate pharmacy students practical projects, I was exposed to a new and rich research and teaching environment.

Since my appointment as assistant professor at the department of pharmaceutical sciences, faculty of pharmacy, Philadelphia University, Jordan I was conducting theoretical and practical teaching and updating syllabi of pharmacognosy, phytochemistry and chemistry of natural products as well as organic chemistry in addition to students guiding. I am participating in many scientific and non-scientific activities at the university as listed above.

My career as an assistant professor of pharmacognosy and phytochemistry at the department of pharmaceutical sciences, faculty of pharmacy, The University of Jordan, involves conducting theoretical and practical teaching of both post- and under graduate students including; natural medicinal products; chemistry of anticancer drugs; chemistry of natural products pharmacognosy; phytochemistry; chemistry of medicinal plants; complementary and alternative medicine in addition to pharmacognosy; phytochemistry; phytochemical analysis; selected topics in phytochemistry; analytical; instrumental and medicinal chemistry practical courses for pharmacy and Pharm D students. Construct and design the syllabi and teach core courses including chemistry of medicinal plants; complementary and alternative medicine as well as the elective course about Medicinal Plants and Pharmaceutical industry are among my favourite tasks. Pharmaceutical industry approach was accomplished through submission and data presentation of a designed professional drug leaflet; patient instructions card; drug labelling and packaging as part of course completion requirements. Interaction between faculty students and the society was mainly achieved through regular surveys conducted by final year students under my guidance and supervision about the nation understanding of different aspects

related to health and proper use of medicines (including herb-based). Collected data are submitted; presented and discussed as part of graduation requirements in a form of one-term project.

In addition to BSc, MSc and PhD teaching responsibilities; I was appointed as an internal examiner for MSc students and shared supervision of MSc projects at the faculty of Pharmacy; JU and other universities. Updating BSc; MSc and PhD curriculum is among responsibilities as a staff member of the faculty.

## TEACHING EXPERIENCE

### Pharmacy and Pharm D Undergraduate Courses (1997-To date)

- ◊ Pharmacognosy
- ◊ Phytochemistry I, II
- ◊ Phytochemical Analysis
- ◊ Phytochemistry
- ◊ Phytotherapy
- ◊ Chemistry of Medicinal Plants
- ◊ Pharmacognosy Practical
- ◊ Phytochemistry Practical
- ◊ Complementary and Alternative Medicine
- ◊ Selected topics in Phytochemistry
- ◊ Toxic and Hallucinogenic Plants
- ◊ Applied Chromatography
- ◊ Natural Products and pharmaceutical Industry
- ◊ Seminars in Pharmaceutical Sciences

### Pharmacy Postgraduate Courses (2012 to date).

- ◊ Natural Products Chemistry (MSc)
- ◊ Phytochemical Analysis (MSc)
- ◊ Phytotherapy (MSc)
- ◊ Medicinal Natural Products (PhD)

## RESEARCH TECHNIQUES

**Phytochemistry** Isolation of pure biologically active compounds from plants

Structure elucidation using different spectroscopic methods (NMR; MS; UV and IR).

Planner chromatography quantitative and qualitative; normal and reversed phase, thin layer and centrifugal liquid chromatography.

Column chromatography (flash; charcoal and classical)

HPLC normal and reversed phase.

Sephadex HL-20 filtration.

**Biological** *In Vivo*: Hypoglycemic test in mice

Mouse ear-erythema test.

Skin hyperplasia.

Tumour promotion



## Assays

Mouse ear anti-inflammatory test.

### *In Vitro* :

Antioxidant through nitric oxide synthase inhibition; Proteolytic effect from microbial origin; alpha-amylase inhibition test; anti-microbial assays; platelet aggregation induction and inhibition and antiplatelet-antimicrobial-herb interaction. HL-60 cells leukaemia cell-differentiation differentiation and proliferation.

## Sterile cell culture Microbial culture

Long terms HL60 cells culture.

Animal cells staining Microscopy

## RESEARCH RESPONSIBILITIES

My main responsibilities are planning and design of experimental techniques; interpretation and analysis of experimental data.

Supervision of MSc students and final year BSc Degree students and evaluation of their experimental data.

## RESEARCH INTERESTS

- *In vivo* and *in vitro* evaluation and detection of hypoglycaemic effect of medicinal and edible plants as well as isolated compounds from both synthetic and natural origin
- *In vitro* evaluation and detection of hypoglycaemic and antimicrobial effect of proteases from bacterial, fungal and botanical sources and possible interaction with hypoglycaemic and antimicrobial medications
- Investigation and identifying pro-inflammatory; anti-inflammatory; antimicrobial; antioxidant and tumour promoting components of extracts or isolated compounds from medicinal; cosmetic and edible plants.
- Biological and chemical detection of possible drug-herb interaction induced by nutraceuticals and folk medicine.
- Complementary therapy (including homeopathy; herbal medicine; reflexology and aromatherapy) and potential applications in modern pharmacy practice as part of integrative therapy.

## PUBLICATIONS

AAM Mohammed, GARY Suaifan, **MB Shehadeh**, PN Okechukwu. (2020) Design, synthesis and antimicrobial evaluation of novel glycosylated-fluoroquinolones derivatives. European journal of medicinal chemistry 202, 112513.

**Mayadah B. Shehadeh**, Ghadeer A. R. Y. Suaifan, Ala Abu-Odeh, Rula M. Darwish. (2020) Complementary and Alternative Medicine use for weight management among females in



Jordan, community-based survey. *Eastern Mediterranean Health Journal*, 26(4), 443-452.

A.A.M. Mohammaed, G.A.R.Y. Suaifan, **M.B. Shehadeh**, P.N. Okechukwu (2019) Design, synthesis and biological evaluation of 1,8-naphthyridine glucosamine conjugates as antimicrobial agents. *Drug Development Research*, 80(1), 179-186.

**Mayadah Shehadeh**, Nidal Jaradat, , Motasem Al-Masri, Abdel Naser Zaid, Fatima Hussein, Ahmad Khasati, Ghadeer Suaifan, Rula Darwish. (2019) Rapid, cost-effective and organic solvent-free production of biologically active essential oil from Mediterranean wild *Origanum syriacum*. *Saudi Pharmaceutical Journal*, 27(5), 612-618. DOI:10.1016/j.jsps.2019.03.001

Ghadeer A.R.Y. Suaifan, Samah W.A. Al Nobani, **Mayadah B. Shehadeh**, Rula M. Darwish (2019) Engineered colorimetric detection of *Staphylococcus aureus* extracellular proteases. *Talanta*, 198, 30-38.

Nidal Jaradat, Nuha Shawarb, Fatima Hussein, Motasem Al-Masri, Ismail Warad, Ahmad Khasati, **Mayadah Shehadeh**, Mohammad Qneibi, Azmi Mahmoud Ali Hussein and Sabha Makhamreh. (2018) Antibacterial and Antioxidant Screening of Semi-Synthetic Naringin based Hydrazone and Oxime Derivatives. *Jundishapur Journal of Microbiology* 11(6), e65496, 1-9. DOI: 10.5812/jjm.65496

Ghadeer A. R. Y. Suaifan, Deema Jaber, **Mayadah B. Shehadeh**, Mohammed Zourob. (2017) Proteinases as Biomarkers in Breast Cancer Prognosis and Diagnosis. *Mini Reviews in Medicinal Chemistry* 17(7); 583-592

**M. B. Shehadeh**, G. A. R. Y. Suaifan, R. M. Darwish. (2017) Complementary and Alternative Modalities; A New Vein in Weight Control and Reduction Interventions. A Pilot Study in Jordan. *International Journal of Biology and Biomedicine* 2, 1-5

**M. B. Shehadeh**, G. A. R.Y. Suaifan, E. A. Hammad. (2016) Active educational intervention as a tool to improve safe and appropriate use of antibiotics. *Saudi Pharmaceutical Journal*, 24, 611-615.

Suaifan G , **Shehadeh M.** , Al-Ijel H , Al-Jamal K , Taha M. (2016) Pharmacophore and QSAR Modeling of Neuronal Nitric Oxide Synthase Ligands and Subsequent Validation and In Silico Search for New Scaffolds. *Medicinal Chemistry*; 12 (4) ;371-93

GARY Suaifan, **M. B. Shehadeh**, RM Darwish, H Al-Ijel, V Abbate (2015) Design, Synthesis and in Vivo Evaluation of Novel Glycosylated Sulfonylureas as Antihyperglycemic Agents. *Molecules*; 20 (11); 20063-20078

Eman Alefishat, Hana Hammad, **Mayadah Shehadeh**, Sana Ramadan, Tariq Mukattash (2015) Increasing patient knowledge and awareness about osteoporosis among Jordanian women. *European Journal for Person Centered Healthcare*; 3 (1); 100-107

**Mayadah B. Shehadeh**, Silvio Sosa, Ghadeer A.R.Y. Suaifan, Rula M. Darwish, Anna Giangaspero, Antonio Vassallo, Laura Lepore, Sawsan A. Oran, Hana Hammad, Aurelia Tubaro, Nunziatina De Tommasi, Roberto Della Loggia (2014) Topical Anti-Inflammatory Potential of Six Salvia Species Grown in Jordan, *Jordan Journal of Pharmaceutical Sciences*; 7 (2); 153-161

GARY Suaifan, **M. B. Shehadeh**, HAN Al-Ijel, KT Al-Jamal, MO Taha (2014) Ritodrine inhibits neuronal nitric oxide synthase, a potential link between tocolysis and autism. *Medicinal Chemistry Research*; (23); 5102-5109.

Sanaa K Bardaweel ; **Mayadah Shehadeh**; Ghadeer ARY Suaifan and Maria-Vanessa Z Kilani (2013) Complementary and alternative medicine utilization by a sample of infertile couples in Jordan for infertility treatment: clinics-based survey. *BMC Complementary and Alternative Medicine*; 13; 35-42

Ghadeer ARY Suaifan ; **Mayadah Shehadeh**; Hebah Al-Ijell; Andy Ng and Mohammed Zourob (2013) Recent progress in prostate-specific antigen and HIV proteases detection; *Informa Healthcare* ; Vol. 13; No. 7; Pages 707-718

Suaifan Ghadeer; **Shehadeh Mayadah**; Darwish Dana; Fahmi Al-Motasseem; Darwish Rula M ; Al Ijil Hiba (2012) A cross-sectional Study on Knowledge; Attitude; and Behavior Related to Antibiotic Use and Resistance; among Medical and Non-Medical University Students. *African Journal of Pharmacy and Pharmacology*; 6 (10); 763 – 770.

Ghadeer A. R. Y. Suaifan; **Mayadah Shehadeh**; Hebah Al-Ijel; Mutasem Taha (2012) Extensive Ligand-Based Modeling And In Silico Screening Reveal Nanomolar Inducible Nitric Oxide Synthase (iNOS) Inhibitors. *Journal of Molecular Graphics and Modelling*; 37; 1-26.

**Mayadah Shehadeh**; Ghadeer Suaifan; Rula M. Darwish; Mayyada Wazaify; Luna Zaru; Suzan Alja'fari (2011) Knowledge; Attitudes And Behaviour Regarding Antibiotics Use And Misuse Among Adults In The Community Of Jordan. A pilot study. *Saudi Pharmaceutical Journal*; Volume 20; Number 2; pages 125-133.

**M. B. Shehadeh**; F. Afifi. (2007) Platelet aggregation inhibitors from aerial parts of *Ruta chalepensis* grown in Jordan. *Integrative Medicine Insights*. 2; 35-39.

F. Alali; K; Tawaha; **M. B. Shehadeh**; S. Telfah; (2006) Phytochemical and biological investigation of *Aristolochia maurorum* L. *Z. Naturforsch* 61 C; 685-691.

S. Abu Hamdeh; F Afifi; **M. Shehadeh**; S. Khalid; (2005) Simple quality control procedure for selected medicinal plants commonly used in Jordan. *Pharmaceutical Biology*; 43 (1); 1-7.

A. N. Rashed; F. U. Afifi; **M. Shehadeh**; M. O. Taha; (2004) Investigation of the active constituents of *Portulaca oleracea* L. (Portulacaceae) growing in Jordan. *Pakistan Journal of Pharmaceutical Sciences*. 17 (1); 37-46.

**M. B. Shehadeh**; H. Kolodziej; S. A. Khalid (2001) Inhibition of collagen-induced platelet aggregation of human blood in vitro by certain Jordanian medicinal plants. *British Pharmaceutical Conference Abstract Book*: 169

**Shehadeh M.** (1999) Book Review; *Herbal Medicines a guide for health-care professionals*; by Newall C.A.; Anderson L.A.; Phillipson J.D. The Pharmaceutical Press (1996) Al Balqa'a Research and Studies (basic and applied scientific series) 6;135.

Dimitrijivic S.; Humer U.; **Shehadeh M.**; Ryves W. J.; Hassan N.; Evans F. J. (1996) Analysis and purification of phorbol esters using normal phase HPLC and photodiode-array detection. *Journal of Pharmaceutical and Biomedical Analysis*; 15; 393-401.

**Shehadeh M.**; Dimitrijivic S.; Humer U.; Ryves W.J.; Evans F.J. (1995) HPLC-PDA; a method for analysing phorbol esters. Proceedings of the 36th annual meeting of the American Society of Pharmacognosy; Natural Products as Prototype Anti-infective Discovery; Characterisation and development; Poster 138. Mississippi; Oxford Mississippi; USA

**Shehadeh; M.B.** and Evans; F.J. (1994) Screening of extracts of selected species of the family Thymelaeaceae for skin irritant effects. *British Pharmaceutical Conference Proceedings*; 103.

**Shehadeh; M.B.** and Evans; F.J. (1994) Screening of selected species of the family Thymelaeaceae for skin irritant effects. *Journal of Pharmacy and Pharmacology* 46; supp. 2; 1088.

## PRESENTATIONS

**Mayadah B. Shehadeh** (2019) Integrating natural products in pharmacy education and research for a better health care service, an uphill struggle. CTI-Bath International Showcase 2019, Bath University, UK. (Oral Presentation)

**Mayadah B. Shehadeh**, Ghadeer A.R. Suaifan, Rula M. Darwish (2018) Promoting safe use of antibiotics among university medical students in Jordan. A cross sectional survey. 3<sup>rd</sup> International Pharmacy Conference and Forum 2018, May, Beirut Arab University, Beirut, Lebanon. (Poster presentation)

**Mayadah B. Shehadeh**, Ghadeer Suaifan, Eman Hammad, Rula Darwish (2017) Promoting Safe Use of Antibiotics by The Public in Jordan, Pharmacist-Mediated Active Educational Intervention. *Pharmacology 2017*, London, UK. (Poster presentation)

**M. B. Shehadeh**, G A R Y Suaifan, R M Darwish (2017) Inhibitory Effect of *Aristolochia maurorum* on Antibiotic-resistant MRSA. 4<sup>th</sup> Annual International Conference on Pharmaceutical Sciences, ATINER, Athens, Greece. (Oral presentation)

**M. B. Shehadeh**, G A R Y Suaifan, R M Darwish (2017) Complementary and Alternative Modalities; A New Vein in Weight Control and Reduction Interventions. A Pilot Study in Jordan. 6<sup>th</sup> International Conference on Agricultural Science, Biotechnology, Food and Animal Science (ABIFA '17), Cambridge University, UK. (Oral presentation)

**Mayadah Shehadeh** (2015) Nutraceuticals as a source of bioactive molecules for drug discovery. The 1<sup>st</sup> International Conference on Natural Products and Drug Discovery, The University of Jordan. (Oral presentation); IL 14; P 61

<http://conferences.ju.edu.jo/sites/npdd/Documents/abstract%20chemistry3.pdf>

**Shehadeh M. B.** (2015) Understanding CAM Science Based Evidence of Topical Anti-inflammatory Herbs. 3<sup>rd</sup> Scientific day, 31<sup>st</sup> March 2015, Zarqa University, Zarqa, Jordan. (Oral presentation)

**Shehadeh M. B.** (2015) Complementary and Alternative Therapies for Weight Loss Among

Adults in Jordan, ICPS 2015, 21-22 January, Dubai; UAE (Oral presentation)

**Shehadeh M. B.** (2014) Inhibitory effect of *Salvia* Species Grown in Jordan on Croton oil-Induced Skin Inflammation in Mice. The 5th International Jordanian Congress of Allergy & Immunology, 28-30<sup>th</sup> May, Amman; Jordan. (Oral Presentation)

**Shehadeh M. B.** (2014) Topical Anti-inflammatory Potential of Six *Salvia* Species Grown in Jordan. 15<sup>th</sup> Jordanian Pharmacists Association Conference, 3-5 April 2014, Amman; Jordan. (Oral Presentation)

**Shehadeh M. B.;** Suaifan G.; Darwish R. M.; Wazaify M. (2013) Urgent need for national educational programme addressing antibiotics misuse among adults in Jordan. A pilot study. Evidence-based 2013; Oxford University; UK. (Poster and presentation)

**Shehadeh M.** (2010) Topical anti-inflammatory activity of selected *Salvia* species from Jordan. Scientific day; Jordan University. (Oral Presentation)

**Shehadeh M.** (2010) Anti-platelet activity of selected medicinal and dietary plants commonly used in Jordan. 13<sup>th</sup> Jordanian and Arab Pharmaceutical Association conference; Amman; Jordan. (Oral Presentation)

**Shehadeh M.;** Hammad H.; Kolodziej H (2010) Inhibitory effect of medicinal plants on collagen-induced platelet aggregation. 13<sup>th</sup> Jordanian and Arab Pharmaceutical Association conference; Amman; Jordan

**Shehadeh M.** (2008) Basic knowledge and effective use of medicinal plants at home for minor illnesses. Mom's Club; Zaha' Cultural Centre; Amman; Jordan (Oral Presentation)

**Shehadeh M;** F Afifi. (2008) Coumarins and Flavonoids Platelet Aggregation Inhibitors from Leaves and Stems of *Ruta chalepensis* Grown in Jordan. Scientific day at Balq'a Applied Sciences University; Zarqa; Jordan (Oral Presentation).

**Shehadeh M.** (2008) Complementary and alternative therapy; basic insight. 12<sup>th</sup> Jordanian and Arab Pharmaceutical Association conference; Amman; Jordan. (Oral Presentation)

**Shehadeh M.** (2007) Medicinal plants and natural pharmaceutical products for skin care. Jordanian Pharmacists Association; continuous education programme; Sheraton; Amman; Jordan (Oral Presentation)

**F. U. Afifi;** Shehadeh M. (2006) Antiplatelet activity of *Ruta chalepensis* L. (Rutaceae) grown in Jordan. International Congress and 54<sup>th</sup> Annual Meeting of the Society for Medicinal Plant Research. (Oral Presentation)

**Shehadeh M. B.** (2005) Complementary and alternative medicine in pharmacy practice. 11<sup>th</sup> Jordanian Pharmaceutical Conference; Amman; Jordan (Oral Presentation)

**Shehadeh M. B.** (2005) Drug-herbs interactions. Drugs and herbs in pharmacy practice workshop; Jordanian Pharmacists Association; continuous education programme; Sheraton; Amman; Jordan (Oral Presentation)

**Shehadeh M. B.** (2003) Drugs and food during pregnancy and lactation. Pregnancy and

Lactation workshop; Jordanian Pharmacists Association; continuous education programme; Sheraton; Amman; Jordan (Oral Presentation)

**Shehadeh M. B.** (2002) Natural Products in the Pharmacy; Jordanian Pharmacists Association; continuous education programme; Radisson Sass; Amman; Jordan (Oral Presentation)

**Abuhamdah S.; Shehadeh M.; Afifi F.; Schmidt T.; Khalid S.** (2001) Chalepensis; bergapten and rutin from the aerial parts of *Ruta chalepensis*. The 5<sup>th</sup> scientific congress of the association of colleges of pharmacy in the Arab world and the 2<sup>nd</sup> international conference of the faculty of pharmacy; Amman; Jordan (Poster 66)

**Abuhamdah S.; Shehadeh M.; Afifi F.; Khalid S.** (2001) Pharmacongostical and phytochemical identification of selected medicinal plants commonly used in Jordan. The 5<sup>th</sup> scientific congress of the association of colleges of pharmacy in the Arab world and the 2<sup>nd</sup> international conference of the faculty of pharmacy; Amman; Jordan (Poster 16)

**Shehadeh M. B.; Kolodziej H.; Khalid S. A.** (2001) Inhibition of collagen-induced platelet aggregation of human blood in vitro by certain Jordanian medicinal plants. British Pharmaceutical Conference Abstract Book:169 (Poster)

**Shehadeh M.** (2001) Complementary medicine. The Jordanian Pharmacists Association. Amman; Jordan. (Oral Presentation)

**Shehadeh M.** (2000) Drug–herb interactions. The Jordanian Pharmacists Association. Amman; Jordan. (oral Presentation)

**Shehadeh M.** (1999) Biological and phytochemical properties of selected species of

Euphorbiaceae and Thymelaceae.; Institute fur Pharmazie; Free Berlin University. Berlin. Germany. (Oral Presentation)

**Shehadeh M.** (1999) Drug-food interactions. Association of the Jordanian Pharmacists. Amman; Jordan. (Oral Presentation).

**Shehadeh M.** (1999) The influence of drug-nutrient interactions on patient's response to drug therapy. The 2<sup>nd</sup> International Conference on Clinical Pharmacy; Amman; Jordan. (Oral Presentation).

**Shehadeh M.; Evans F.J.** (1998) Tumour promoting compounds of the Egyptian herb *Thymelaea hirsuta*. 1<sup>st</sup> conference of phytochemistry and phytotherapy; Amman; Jordan. (Oral presentation)

**Shehadeh M.;** (1998) Intravenous-admixture unit as an important component of efficient parenteral therapy. Proceedings of the 1<sup>st</sup> International Conference on Clinical Pharmacy. Amman; Jordan. (Oral presentation)

**Shehadeh M.** (1998) The pharmacist and patient compliance. Proceedings of the 1<sup>st</sup> International Conference on Clinical Pharmacy; Amman; Jordan. (Poster).

**Dimitrijivic S.; Shehadeh M.; Humer U.; Ryves W.J.; Evans F.J.** (1995) A new method to analyse tiglianes and daphnanes phorbol esters using normal-phase HPLC. Proceedings of the

132<sup>nd</sup> British Pharmaceutical Conference; Warwick; UK. (Oral presentation).

**Shehadeh M.B. and Evans F.J.** (1995) Investigation of extracts of selected species of the families Thymelaeaceae and Euphorbiaceae for pro-inflammatory and tumour promoting activities. Annual postgraduate Research seminar; School of Pharmacy; London; U.K. (Oral Presentation)

**Shehadeh M.B. and Evans F.J.** (1994) Screening of extracts of selected species of the family Thymelaeaceae for skin irritant effects. British pharmaceutical conference; London; U.K. (Poster)

**Shehadeh M.; Dimitrijevic S.; Hynes A.; Ryves W.J.; Gordge; P.C. and Evans F.J.** (1993) Phorbol esters as probes of PKC functions. First European Postgraduate Summer School; London; U.K. (Poster)

**M. Shehadeh. 1988-1991.** Unit dose systems; Education to nursing staff; Drug and poison information; Oral presentation on Diabetic Ketoacidosis to both medical and pharmacy staff. King Khalid University Hospital.

#### **NON ACADEMIC SOCIETIES**

Auditing Member; Botanical Gardens Conservation International; 2004 - 2005

Member of Charitable BLA; Jordan 2003 – 2007

Member of Charitable Ebal Society, Jordan 2016- date

#### **SKILLS and INTERESTS**

SPSS; data presentation; herbal medicine; homeopathy; aromatherapy; clinical pharmacy; pharmacy practice and management studies.