

Curriculum Vita

Dr. Khaled Tawaha

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Personal Information

Nationality: Jordanian.

Marital Status: Married and has 4 children.

Gender: Male

Date of Birth: 01.02.1965, in Houfa / Irbid / Jordan.

Education

- 1998:** Attended and successfully completed within three months at Montclair State University, New Jersey, USA an English language program (Exploring Curriculum of the English Language).
- 1993 - 1997:** Attended Humboldt University – department of pharmacy Berlin Germany, as doctoral degree graduate student. Identified dissertation topics; prepared and submitted a doctoral proposal; and completed, successfully, a doctoral thesis in the area of Phytochemistry: Title of the dissertation: "Separation and structure elucidation of saponins and flavonoids from the plant, *Aster bellidiastrum*".
- 1993:** German Pharmaceutical Board, Berlin-Germany
- 1986 - 1991:** Bachelor in Pharmacy at Humboldt University Zu Berlin /Germany.
- 1985 - 1986:** German High School Diploma (Germany's foundation year program)/"Frankfurt am Main".
- 1980 - 1983:** General Secondary Education Certificate – scientific branch (very good), Hetteen Secondary High school, Irbid-Jordan

Field of Expertise & Research Interests

- Phytochemical Analysis
- Pharmaceutical Biology
- Chromatography (GC and GC/MS)
- Biological Evaluation of Natural Products
- Essential Oils (Chemical Composition, Biological Activities and Pharmaceutical Quality)
- Isolation, Identification and Biological Evaluation of Saponins

Teaching

- Pharmacognosy (BSc Pharmacy, 3rd year)
- Pharmacognosy, Practical (BSc Pharmacy, 3rd year)
- Phytochemistry-I (BSc Pharmacy, 3rd year)
- Phytochemistry-I, Practical (BSc Pharmacy, 3rd year)
- Selected Topics in Natural Products Chemistry (BSc Pharmacy, Elective, 4th & 5th year)
- Seminars In Pharmaceutical Sciences (BSc Pharmacy, 4th and 5th year)

Employment

2011-	Assistant Dean for Training Affairs
2010	Associated professor
2005-2009	Assistant Professor, Department of Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, Amman-Jordan.
2002-2003, 04-05	Acting chairman of the Department of Pharmacognosy and Medicinal Chemistry, Faculty of Pharmacy, Applied Science University, Amman-Jordan.
1998-2005	Assistant Professor, Department of Pharmacognosy and Medicinal Chemistry, Faculty of Pharmacy, Applied Science University, Amman-Jordan.
1996-1997	Part-time pharmacist, Kolwitz Pharmacy, Berlin-Germany.
1991-1992	Pre-registered pharmacist, community and hospital pharmacies, Berlin-Germany.

Conferences, Symposia, Workshops and Memberships:

- Saponin conference in Chicago/USA, August 20th – August 26th, 1995.
- Member in the Jordanian quality control team for writing guidelines to control locally manufactured and/or imported herbal medicines or herbs in general.
- Committee member of the first symposium on Anti-viral and Anti-cancer agents (2001) held in Applied Science University,
- Orientation program for development of teaching skills in the Applied Science University during September 29th -October 2nd, 2003
- Workshop on electronic education on January 18th, 2005 at the Applied Science University
- Workshop about the development of the credential rules of the pharmaceutical sciences under the supervision of the higher educational committee on March 12th, 2005
- Council member 2001-2002, 2003-2004
- Member in various committees in faculty of pharmacy, Applied Science University/Jordan,
- Member of the German pharmaceutical Association, 1993 – present,
- Member of the committee for medicinal plants and natural products, JFDA-MOH, Jordan (2002-2004, 2008-Present)

Supervision and Examination

Supervision:

1. Suha T. Telfah. Thesis title: Isolation, characterization and biological evaluation of the active components of *Aristolochia maurorum* L. (Aristolochiaceae) (2004). (Supervisor: F. Q. Alali, Jordan University of Science and Technology)
2. Eman K. Al-Hamarsheh. Thesis title: Quantitative determination of Hederacoside C in Ivy-Thyme cough preparation; 2007. (Supervisor: Mohammad Mohammad, University of Jordan).
3. Alaa N. Bakeer. Thesis title: Comparison evaluation (yield and chemical composition) and monthly ontogenetic variation of the volatile oils hydrodistilled from two *Inula* species (*Inula viscosa* and *Inula graveolens*) growing in Jordan; 2009. (Supervisor: Mohammad Hudaib, University of Jordan).

Examination:

1. Reem A. Derhalli. Thesis title: Experimental validation of ethnopharmacological data obtained via informant consensus factor (ICF) and use value (UV) for some anti- microbial jordanian medicinal plants and chemical evaluation of the active volatile oils. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan. June 2008 (Supervisor: Mohammad Hudaib).
2. Jelnar Z. Al-kaladeh. Thesis title: GC-MS determination of the volatile oil composition and evaluation of in vitro antiproliferative activity for selected medicinal plants grown in Jordan against breast adenocarcinoma cell line (MCF7). MSc in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan. August 2008. (Supervisor: Fatma Afifi).
3. Abdullah A. Ghawanmeh. Thesis: title: Isolation, characterization and biological evaluation of active components of *Colchicum crocifolium* BOISS. (Colchicaceae). MSc in Applied Chemistry, Faculty of Graduate Studies, Jordan University of Science and Technology. July, 2007. (Supervisor: F. Q. Alali).

Research Funding/Grants

1. Screening and Evaluation of New Compounds / Extracts as Potential Anti Obesity Agents. (24000\$, Deanship of Academic Research, University of Jordan)
2. Development and Evaluation of New Anti- Inflammatory Agents and Exploration of their Mechanisms of Action. (25500\$, Deanship of Academic Research, University of Jordan).

Publications

Publications

- 1- Thomas Schopke, **Khaled Al-Tawaha**, Victor Wraey, Manfred Nimtz, Anke Meyer, and Karl Hiller: "Triterpenoid Saponins from the Aerial Parts of *Aster bellidiastrum*"; *Phytochemistry* 1995; Vol. 40; (5); 1489-1492.
- 2- Thomas Schopke, **Khaled Al-Tawaha**, Victor Wraey, Manfred Nimtz, Anke Meyer and Karl Hiller: "Triterpenoid Saponins from *Aster bellidiastrum*"; *Phytochemistry* 1997; Vol. 45,(1); 125-132.
- 3- **Khaled Tawaha**, Sabbah Al-Muhtaseb and Suleiman Al-Khalil; "Coumarins from the Aerial Parts of *Prangos ferulacea*"; *Alexandria Journal of Pharmaceutical Sciences* 2001; 15(2), 89-91.
- 4- **Khaled Tawaha**, Sabbah Al-Muhtaseb and Suleiman Al-Khalil; "Sesquiterpenes From *Ferula sinaica*"; *Bulletin of Faculty of Pharmacy-Cairo University/Egypt* 2001; 39(2); 165-169.
- 5- Feras Alali, **Khaled Tawaha**, and Rana M. Qasaymeh; "Determination of Colchicine Content in *Colchicum stevenii* and *Colchicum hierosolymetatum* (Colchicaceae); Comparison between two analytical methods"; *Phytochemical Analysis* 2004; 15; 27-29.
- 6- Feras Alali, **Khaled Tawaha**, and Tamam Al-eleimat; "Determination of Hypericin content in *Hypericum triquetrifolium* Turra (Hypericaceae) growing wild in Jordan"; *Natural Product Research* 2004; 18(2); 147-151.
- 7- Feras Q. Alali, Tamam Al-eleimat, Chen Li, Amjad Qandil, Ahmad Alkofahi, **Khaled Tawaha**, Jason P. Burgess, Yuka Nakanishi, David J. Kroll, Hrnan A. Navarro, Joseph O. Falkinham, Mansukh C. Wani, and Nicholas H. Oberlies; "New Colchicinoids from a Native Jordanian Meadow Saffron, *Colchicum brachyphyllum*: Isolation of the First Naturally-Occurring Dextrorotatory Colchicinoid"; *Journal of Natural Products* 2005; 68(2); 173-178.
- 8- Feras Q. Alali, **Khaled Tawaha**, Tamam El-elimat, Rana Qasaymeh, Chen Li. Jason Burgess, Yuka Nakanishi, David J. Kroll, Mansukh C. Wani, Nicholas H. Oberlies; "Phytochemical Studies and Cytotoxicity Evaluations of *Colchicum tunicatum* and

- Colchicum hierosolymitanum* F. (Colchicaceae): Two Native Jordanian Meadow Saffrons”; Journal of Natural Product 2005; 68(2), 173-178.
- 9- Mohsen S. Al-Mahmoud, Feras Alali, **Khaled Tawaha**, and Rana M. Qasaymeh; Phytochemical Study and Cytotoxicity Evaluation of *Colchicum stevenii* (Colchicaceae): A Jordanian Meadow Saffron”; Journal of Natural Products 2006; 20(2), 153-160
 - 10- Feras Alali, Abdulla El-Alali, **Khaled Tawaha**, and Tamam Al-eleimat; “Seasonal variation of colchicine content in *Colchicum bracchphyllum* and *Colchicum tunicatum* (Colchicaceae). Natural Product Research, Part A: Structure and synthesis 2006; 20(12), 1121-1128.
 - 11- Feras Alali, **Khaled Tawaha**, Mayadah B. Shehadeh, and Suha Telfah; “Phytochemical and Biological Investigation of *Aristolochia maurorum* L. Zeitschrift der Naturforschung, C: Journal of Biosciences 2006; 61(9/10), 685-691.
 - 12- Feras Alali, **Khaled Tawaha**, and Tamam Al-eleimat; Determination of (-) demecolcine and (-) colchicine content in selected Jordanien *Colchicum* species. Pharmazie 2007; 62(10), 739-742.
 - 13- **Tawaha, Khaled**; Alali, Feras Q.; Ghariebeh, Mohammad; Mohammad, Mohammad; El-Elimat, Tamam. Antioxidant activity and total phenolic content of selected Jordanian plant species. Food chemistry 2007; 104 (4); 1372-1378
 - 14- Feras Q. Alali, **Khaled Tawaha**, Tamam El-Elimat, Maha Syouf, Mosa El-Fayad, Khaled Abulaila Samara Joy Nielsen, William D. Wheaton, Joseph O. Falkinham III, and Nicholas H. Oberlies. "Antioxidant activity and total phenolic content of aqueous and methanolic extracts of Jordanian plants: an ICBG project". Natural Products Research, Part A: Structure and Synthesis 2007; 21(12), 1121-1131
 - 15- Feras Q. Alali, Ahmad Gharaibeh, Abdullah Ghawanmeh, **Khaled Tawaha** and Nicholas H. Oberlies. Colchicinoids from *Colchicum crocifolium* Boiss.: a case study in dereplication strategies for (-)-colchicine and related analogues using LC-MS and LC-PDA techniques. Phytochemical Analysis 2008; 19(5), 385-394.
 - 16- Alali, Feras Q.; Tahboub, Yahya R.; Ibrahim, Eyad S.; Qandil, Amjad M.; **Tawaha, Khaled**; Burgess, Jason P.; Sy, Arlene; Nakanishi, Yuka; Kroll, David J.; Oberlies, Nicholas H. Pyrrolizidine alkaloids from *Echium glomeratum* (Boraginaceae). Phytochemistry 2008; 69(12), 2341-2346.

- 17- Nicholas H. Oberlies, James I. Rineer, Feras Q. Alali, **Khaled Tawaha**, Joseph O. Falkinham III; William D. Wheaton. Mapping of sample collection data: GIS tools for the natural product researcher. *Phytochemistry Letters* 2009; 2, 1-9.
- 18- Falkinham, Joseph O., III; Wall, Thomas E.; Tanner, Justin R.; **Tawaha, Khaled**; Alali, Feras Q.; Li, Chen; Oberlies, Nicholas H. Proliferation of antibiotic-producing bacteria and concomitant antibiotic production as the basis for the antibiotic activity of Jordan's red soils. *Applied and Environmental Microbiology* 2009; 75(9), 2735-2741.
- 19- Alali, Feras Q.; **Tawaha, Khaled**; Gharaibeh, Mohammad. LC-MS and LC-PDA analysis of *Hypericum empetrifolium* and *Hypericum sinaicum*. *Zeitschrift fuer Naturforschung, C: Journal of Biosciences* 2009; 64(7/8), 476-482.
- 20- **K. Tawaha**, M. Hudaib. Volatile oil profiles of the aerial parts of Jordanian garland, *Chrysanthemum coronarium*. *Pharmaceutical Biology*, In press (Accepted 23-Nov- 2009).

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21- **K. Tawaha**, Rasha Sadi, Fadi Qadan, Khalid Z. Matalkah and Adolf Nahrstedt. A Bioactive Prodelphinidin from *Magnifera indica* Leaf Extract. *Zeitschrift fuer Naturforschung* **65c**, 322-326 (2010).

22- M.K. Mohammad, I.M. Almasri, **K. Tawaha**, A. Issa, A. Al-Nadaf, M. Hudaib, H.S. AlKhatib, E. Abu-Gharbieh, Y. Bustanji. *Antioxidant, antihyperuricemic and xanthine oxidase inhibitory activities of Hyoscyamus reticulatus*. *Pharmaceutical Biology*, 48(12), 1376-1383 (2010).

23- A. Khedair, M.K. Mohammad, **K. Tawaha**, E. Al-Hamarsheh, H.S. AlKhatib, B. Al-khalidi, Y. Bustanji, S. Najjar, M. Hudaib. *A Validated RP HPLC-PAD Method for the Determination of Hederacoside C in Ivy-Thyme Cough Syrup*. *International Journal of Analytical Chemistry*. ID 478143, 5 pages, 2010. doi:10.1155/2010/478143 (2010)..

24- Y. Bustanji, A. Issa, M. Mohammad, M. Hudaib, **K. Tawaha**, H. AlKhatib, I. AlMasri, B. Al-Khalidi. *Inhibition of hormone sensitive lipase and pancreatic lipase by Rosmarinus officinalis extract and selected phenolic constituents*. *Journal of Medicinal Plants Research*, 4(21), 2235-2242 (2010).

25- Yasser Bustanji, Ala Issa, Mohammad Mohammad, Mohammad Hudaib, **Khalid Tawaha**, Hatim AlKhatib, Ihab AlMasri and Bashar Al-Khalidi. *Inhibition of hormone sensitive lipase and pancreatic lipase by Rosmarinus officinalis extract and selected phenolic constituents*. *Journal of Medicinal Plant research*. **2010, 4: 2235-2242**

26- Y. Bustanji, I.M. Al-Masri, M. Mohammad, M. Hudaib, **K. Tawaha**, H. Tarazi, H.S. AlKhatib. *Pancreatic lipase inhibition activity of trilactone terpenes of Ginkgo biloba*. *Journal of Enzyme Inhibition and Medicinal Chemistry*, 26(4), 453-459 (2011).

- 27- **Khaled Tawaha**, Mohammad Gharaibehb, Tamam El-Elimatc, Feras Q. Alali . Determination of hypericin and hyperforin content in selected Jordanian Hypericum species; **Industrial Crops and Products** **32** (2010) **241–245**
- 28-Y. Bustanji, A. Issa, A. Moulay, M. Hudaib, **K. Tawaha**, M. Mohammad, S. Hamed, I. Masri, F.Q. Alali. *Hormone sensitive lipase inhibition by selected medicinal plants*. **Journal of Medicinal Plants Research**, 5(18), 4405-4410 (2011).
- 29.Y. Bustanji, M. Hudaib, **K. Tawaha**, M. Mohammad, I. Almasri, S. Hamid, S. Oran. *In vitro Xanthine Oxidase Inhibition by Selected Jordanian Medicinal Plants*. **Jordan Journal of Pharmaceutical Sciences**, 4(1), 49-56 (2011).
- 30-Y. Bustanji, M. Mohammad, M. Hudaib, **K. Tawaha**, I.M. Al-Masri, H.S. AlKhatib, A. Issa, F.Q. Alali. *Screening of Some Medicinal Plants for their Pancreatic Lipase Inhibitory Potential*. **Jordan Journal of Pharmaceutical Sciences**, 4(2), 81-88 (2011).
- 31-R. Tarawneh, R. AbuFarha, M. Hudaib, **K. Tawaha**, K. Aieda, Y. Bustanji, M. Mohammad. *Acute Oral Toxicity Study of Ivy-Thyme Syrup in Albino Rats*. **Jordan Journal of Pharmaceutical Sciences**, 4(1), 29-34 (2011).
- 32-M.M. Hudaib, **K.A. Tawaha**, M.K. Mohammad, A.M. Assaf, A.Y. Issa, F.Q. Alali, T.A. Aburjai, Y.K. Bustanji. *Xanthine oxidase inhibitory activity of the methanolic extracts of selected Jordanian medicinal plants*. **Pharmacognosy Magazine**, 7(28), 320-324 (2011).
- 33**-Yasser Bustanji, Mohammad Hudaib, **Khaled Tawaha**, Mohammad Mohammad, Ihab Almasri, Saja Hamid and Sawsan Oran. *In vitro Xanthine Oxidase inhibition by selected jordanian medicinal plants*. **Jordan Journal of Pharmaceutical Sciences**. *In Press*.
- 34-A. Issa, M. Mohammad, M. Hudaib, **K. Tawah**, T. Aburjai, S. Oran, Y. Bustanji. *A potential role of Lavandula angustifolia in the management of diabetic dyslipidemia*. **Journal of Medicinal Plants Research**, 5(16), 3876-3882 (2011).
- 35-Mohammad Mohammad, Khaled M. Aiedeh, Hatim S. AlKhatib, **Khaled Tawaha**, Bashar AlKhalidi, Ihab M. Al-Masri, Saja Hamed and 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** **2010; 3:69-74**.
- 36-M.M. Hudaib, **K.A. Tawaha**, M.K. Mohammad, A.M. Assaf, A.Y. Issa, F.Q. Alali, T.A. Aburjai, Y.K. Bustanji. *Xanthine oxidase inhibitory activity of the methanolic extracts of selected Jordanian medicinal plants*. **Pharmacognosy Magazine**, 7(28), 320-324 (2011).
- 37- Abdullah El-Alali , Abdullah Al Zoubi, Mohammad Gharaibeh, **Khaled Tawaha** and feras Q.Alali.. *Phytochemical and biological Investigation of Nitraria retusa Asch*. **Jordan Journal of Pharmaceutical Sciences**, 5(2), 155-163 (2012)

38- **K.A. Tawaha**, M.M. Hudaib. *Chemical Composition of the Essential Oil from Flowers, Flower Buds and Leaves of Thymus capitatus Hoffmanns. & Link from Jordan.* **Journal of Essential Oil Bearing Plants**, In press (Accepted: March, 2012).

39-M. Hudaib, **K. Tawaha**. *Chemical Profile of the Volatile Oil of Lemon Verbena (Aloysia citrodora Paláu) Growing in Jordan.* **Journal of Essential Oil Bearing Plants**, In press (Accepted: May, 2012).