



CURRICULUM VITAE

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PERSONAL INFORMATION

Name	Mohammad M.D. Hudaib
Date of Birth	Feb 6, 1973 (Amman, Jordan)
Marital Status	Married
Nationality	Jordanian
Languages	Arabic (Native), English (Excellent), Italian (Good)
Current Address	Department of Pharmaceutical Sciences Faculty of Pharmacy, University of Jordan Amman 11942, Jordan Email: m.hudaib@ju.edu.jo Phone: +962-6-5355000 (ext 23303), Fax: +962-6-5300250

EDUCATION

B.Sc.	B.Sc. in Pharmacy
June, 1996	Faculty of Pharmacy, University of Jordan, Amman, Jordan
Ph.D.	Ph.D. in Pharmaceutical Sciences / Phytochemical Analysis
March, 2002	Dissertation title: "Applications of Gas Chromatography/Mass spectrometry (GC/MS) to Analysis of Plant Natural Products: Comparative Chemistry of Virally Infected <i>Echinacea purpurea</i> and <i>Salvia sclarea</i> Plants" Department of Pharmaceutical Sciences Faculty of Pharmacy, University of Bologna, Bologna, Italy

APPOINTMENTS AND POSITIONS

1996-1996	Pharmacist at R&D and QC Departments United Pharmaceutical Manufacturing Company (UPM), Amman, Jordan
1996-1998	Teaching assistant (TA) Faculty of Pharmacy, University of Jordan, Amman, Jordan
2002-2007	Assistant professor, Department of Pharmaceutical Sciences Faculty of Pharmacy, University of Jordan, Amman, Jordan
2003-2005, 2007-2008	Acting chairman of Department of Pharmaceutical Sciences Faculty of Pharmacy, University of Jordan, Amman, Jordan
2007-2012	Associate professor, Department of Pharmaceutical Sciences Faculty of Pharmacy, University of Jordan, Amman, Jordan
2008-2009	Associate professor (<i>Sabbatical leave</i>), Department of Pharmaceutical Chemistry and Pharmacognosy, Faculty of Pharmacy, Applied Science University, Amman, Jordan
2012-	Full professor, Department of Pharmaceutical Sciences Faculty of Pharmacy, University of Jordan, Amman, Jordan
2012-	Chairman, Department of Pharmaceutical Sciences Faculty of Pharmacy, University of Jordan, Amman, Jordan

MEMBERSHIPS

1996-	Jordanian Pharmaceutical Association (Jordan)
2002-2005	Scientific Research Committee (Faculty of Pharmacy-UJ)
2003-2005, 2007-2008, 2012-	Faculty of Pharmacy Council (Faculty of Pharmacy-UJ)
2003-2005, 2007-2008	Graduate Studies Committee (Faculty of Pharmacy-UJ)
2004/2005	Student Support Coordinator, Student Support Office (Deanship of Students Affairs-UJ)
2004-2004	Committee for setting up a regulation-draft for the profession of preparation and selling of herbal products in Jordan (Ministry of Health- MOH, Jordan)
2004-2006 2008-2010	Committee of Medicinal Plants and Natural Products Registration (Jordan Food and Drug Administration-JFDA, Jordan)

2012-

2012 Scientific Committee (Member)

The 15th Annual Congress of the Scientific Association of Colleges of Pharmacy In the Arab World, and the 4th International Conference of the Faculty of Pharmacy at UJ. (Faculty of Pharmacy-UJ, Amman, Jordan (8-11 October, 2012).

2012- Chairman of Strategic Plan (2013-2018) Committee of the Faculty of Pharmacy (Faculty of Pharmacy-UJ)

August, 2013 Academic Programs Accreditation Committee (Higher Education Accreditation Commission): Reaccreditation of Pharmacy program in one of the private universities in Jordan.

SCHOLARSHIPS AND AWARDS

1991-1996 Scientific Achievement Scholarship, Ministry of Higher Education Amman, Jordan.

1998-2002 Ph.D. Scholarship, Ministry of Italian Foreign Affairs and University of Jordan.

2010/2011 University of Jordan Prize for Research Distinction during the Academic Year 2010/2011.

FIELD OF EXPERTISE & RESEARCH INTERESTS

- Phytochemical Analysis (Methods of Analysis, Quality Control and Standardization of Natural Products)
- Pharmaceutical Biology
- Chromatography (GC and GC/MS)
- Biological Evaluation of Natural Products (e.g. Invitro enzyme inhibition assay, example include xanthine oxidase, pancreatic lipase, and hormone sensitive lipase)
- Essential Oils (Chemical Composition, Biological Activities and Pharmaceutical Quality) and Evaluation of Variability Factors (Ontogenic, Environmental, etc.)
- Ethnopharmacology and Ethnomedicine

TEACHING

Undergraduate courses:

- Pharmacognosy (BSc Pharmacy, 3rd year)
- Pharmacognosy, Practical (BSc Pharmacy, 3rd year)
- Phytochemistry-I (BSc Pharmacy, 3rd year)

- Phytochemistry-I, Practical (BSc Pharmacy, 3rd year)
- Phytochemistry-II (BSc Pharmacy, 4th year)
- Phytochemical Analysis (BSc Pharmacy, 4th year)
- Phytochemical Analysis, Practical (BSc Pharmacy, 4th year)
- Pharmaceutical Analytical Chemistry, Practical (BSc Pharmacy, 1st year)
- Pharmaceutical Instrumental Analysis, (BSc Pharmacy, 3rd year)
- Pharmaceutical Instrumental Analysis, Practical (BSc Pharmacy, 3rd year)
- Applied Chromatography (BSc Pharmacy, Elective, 4th & 5th year)
- Seminars In Pharmaceutical Sciences (BSc Pharmacy, 4th and 5th year)

Graduate courses:

- Drug Identification and Analysis (MSc in Pharmaceutical Sciences, Faculty of Pharmacy-UJ)
- Spectroscopy (PhD in Pharmaceutical Sciences: Medicinal Chemistry and Drug Discovery, Faculty of Pharmacy-UJ)
- Advanced Chromatography (PhD in Pharmaceutical Sciences, Faculty of Pharmacy-UJ)

SUPERVISION AND EXAMINATION

***Supervision of Graduate Students (M.Sc. in Pharmaceutical Sciences, UJ, Jordan):**

1. M. Al-Nabelsy. *Thesis title*: Chemical composition and antimicrobial evaluation of Jordanian fennel and rosemary oils. Faculty of Pharmacy, University of Jordan. May 2007. (Co-Supervisor).
2. R. Alderhalli. *Thesis title*: Experimental Validation of Ethnopharmacological Data Obtained via Informant Consensus Factor (ICF) and Use Value (UV) for some Antimicrobial Jordanian Plants and Chemical Evaluation of the Active Volatile Oils. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan. June 2008. (Supervisor).
3. A. Bakeer, *Thesis title*: Comparative Evaluation (yield and chemical composition) and monthly ontogenic variations of the volatile oils hydrodistilled from two *Inula* species (*I. viscosa* and *I. graveolens*) growing in Jordan. MSc in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan. May 2009. (Supervisor).
4. Y. Hamad, *Thesis title*: Chemical composition and antimicrobial activity of the essential oils hydrodistilled from five *Achillea* species growing in Jordan. Faculty of Pharmacy, University of Jordan. July, 2012. (Supervisor).

5. Sa'eed Marji, *Thesis title*: Composition and Chemical Polymorphism of the E.O. from six Eucalyptus species growing in Jordan. July, 2013. (Supervisor).
6. Arwa Hudaib, (Co-Supervisor) Dermal Toxicity and E.O. Composition of *Matricaria aurea*.....(Expected, 2014)

***Supervision of Undergraduate Students (Graduation Thesis, B.Sc. in Pharmacy, University of Bologna, Bologna, Italy):**

7. Barbara Tullini. Viral infection of *Salvia sclarea* L., *Digitalis lanata* Ehrh. and *D. Purpurea* L. and its influence on the essential oils of *S. sclarea*. September 2000 (Co-Supervisor).
8. Rachele Molinari. Officinal plants infected by cucumber mosaic cucumovirus (CMV): Influence on the mother tincture composition of *Echinacea purpurea* (L.) Moench. June 2000 (Co-Supervisor).
9. Luca Bassarini. Gas chromatography-mass spectrometric (GC-MS) analysis of the volatile components of *Echinacea purpurea* (L.) moench. September 2001 (Co-Supervisor).

***Examination of Graduate Students (M.Sc. and PhD):**

1. Nasr Shraim. *Project title*: Effect of Licorice on Ciprofloxacin Pharmacokinetics in an Animal Model. MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. July 2003.
2. Hind N. Taha. *Thesis title*: Analytical Method Development and Validation for Evaluation of the Degradation of the Experimental Compound (EXP125), Developed as a Potential Neuromuscular Blocker, in Fresh Plasma. MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. March 2004.
3. Amani Sa'adeh. *Thesis title*: The Effect of *Brassica olearacea* (Cabbage) on the Pharmacokinetics of Ciprofloxacin in an Animal Model. MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. July 2004.
4. Manal N. Al-so'ub. *Thesis title*: Evaluation of Amoxicillin and Clavulinic Acid Oral Suspensions Stability in Jordanian Market. MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. August 2005.
5. A. Al-farajain. *Thesis title*: Evaluation of Ethanolic Extract of *Mercurialis annua* L. on Skin Wound Healing of Albino Rats. MSc in Biological Sciences, Faculty of Graduate Studies, University of Jordan. April 2007.

6. E. Ibrahim. *Thesis title*: Isolation and Characterization of Pyrolizidine Alkaloids from *Echium glomeratum* Poir (Boraginaceae). MSc in Applied Chemistry, Faculty of Graduate Studies, Jordan University of Science and Technology. July 2007.
7. Y. Malakha. *Thesis title*: Anti-inflammatory of *Sylibum marianum* L. On Albino Rats. MSc in Biological Sciences, Faculty of Graduate Studies, University of Jordan. August 2007.
8. E. Al-Hamarsheh, *Thesis title*: Quantitative Determination of Hederacoside C in (Ivy-Thyme) Cough Preparation. MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. December 2007.
9. M.A. Al-Salkini, *Thesis title*: The Immunomodulatory Properties of Some Wild and Cultivated Jordanian Plants Containing Parthenolide. MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. December 2008.
10. I. Hawalta, *Thesis title*: Development of A Reversed-Phase ESI-LC/MS/MS Method for the Determination of Clomiphene Isomers. MSc in Toxicology, Faculty of Graduate Studies, University of Jordan. Jan 2009.
11. A. Alkelani, *Thesis title*: Development and Validation of an HPLC Method for the Determination of β -Sitosterol in a Pharmaceutical Product (MEBO[®]). MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. May 2009.
12. A. Mayyas, *Thesis title*: Development and Validation of an HPLC Method for the Quantitation of Hydroxytyrosol in Pharmaceutical and Nutraceutical Raw Materials. MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. August 2009.
13. M. Rashed, *Thesis title*: Studies on *Salvia spp*: Volatile Oil Composition and Antiproliferative Activities on MCF-7 and T47D Cell Lines. MSc in Pharmaceutical Sciences, Faculty of Graduate Studies, University of Jordan. May, 2010.
14. Rand Shaheen (PhD in Pharmaceutical Sciences / Medicinal Chemistry and Drug Discovery, thesis topic: Pharmacophoric Modeling & Herbal Data Bases). June, 2011.
15. Rabab Tayyem (PhD in Pharmaceutical Sciences / Medicinal Chemistry and Drug Discovery, thesis topic: Pharmacophoric Modeling & Herbal Data Bases). June, 2011.
16. Suheil Al-Suheily (PhD in Plant Biology; thesis topic: Analysis & Biological Evaluation of the Essential Oils Hydrodistilled from Selected Jordanian Aromatic Plants). August, 2011).
17. Ala Fraihat, (Supervisor: Prof. Y. Bustanji), 2012. *To be updated*
18. Ehab, (Supervisor: Dr H. Al-khatib), 2012. *To be updated*
19. Rula, (Supervisor: Dr H. Al-khatib), 2012. *To be updated*

20. Hadeel Odeh, (Supervisor: Prof. Firas Alali), 31-12-2012. *To be updated*

21. Abeer Sharfat, (Supervisor: Prof. Firas Alali), June, 2013. *To be updated*

RESEARCH FUNDING/GRANTS

- May, 2003** "Quality and Quantity Profiles of Essential Oils Hydrodistilled from Some Jordanian Aromatic Medicinal Plants", (7500\$, Deanship of Academic Research, UJ, Jordan)
- Nov, 2005** "Screening and Evaluation of new compounds/extracts for potential protective effects against diabetic complications", (30000\$, Deanship of Academic Research, UJ, Jordan).
- Jul, 2006** "Screening and Evaluation of New Compounds / Extracts as Potential Anti Obesity Agents", (24000\$, Deanship of Academic Research, UJ, Jordan).
- July, 2007** Evaluation of *Hyosyamus reticulatus* L. (Henban) extracts as xanthine oxidase inhibitors; isolation and identification of active compounds for their potential therapeutic effect in Gout. (~10000\$, Deanship of Academic Research, UJ, Jordan).
- March, 2013** In vitro evaluation of antibacterial, antifungal, and anticancer activities of essential oils from six species of Eucalyptus. (~15000\$, Deanship of Academic Research, UJ, Jordan).

PUBLICATIONS

1. M.G. Bellardi, C. Rubies Autonell, **M. Hudaib**. Disease Note: *Effect of cucumber mosaic virus infection on the quality of Echinacea purpurea root extracts*. **Journal of Plant Pathology**, 83(1), 69 (2001).
2. M.G. Bellardi, C. Rubies Autonell, **M. Hudaib**, S. Biffi. *Echinacea purpurea* L.: Influence of cucumber mosaic virus (CMV) on the mother tincture. **Natural** 1, 1(8), 52-57 and 74-77 (2001).
3. R. Pomponio, R. Gotti, **M. Hudaib**, V. Andrisano, V. Cavrini. *Analysis of guaifenesin-based cough syrups by micellar electrokinetic chromatography and GC-MS*. **Journal of Separation Science**, 24(4), 258-264 (2001).
4. **M. Hudaib**, M.G. Bellardi, C. Rubies-Autonell, J. Fiori, V. Cavrini. *Chromatographic (GC-MS, HPLC) and virological evaluations of Salvia sclarea infected by BBWV-I*. **Farmaco**, 56(3), 219-227 (2001).
5. R. Pomponio, R. Gotti, **M. Hudaib**, V. Cavrini. *Analysis of phenolic acids by micellar electrokinetic chromatography: application to Echinacea purpurea plant extracts*.

- Journal of Chromatography A**, 945(1-2), 239-247 (2002).
6. **M. Hudaib**, E. Speroni, A.M. Di Pietra, V. Cavrini. *GC/MS evaluation of thyme (*Thymus vulgaris* L.) oil composition and variations during the vegetative cycle.* **Journal of Pharmaceutical and Biomedical Analysis**, 29(4), 691-700 (2002).
 7. **M. Hudaib**, J. Fiori, M.G. Bellardi, C. Rubies-Autonell, V. Cavrini. *GC-MS analysis of the lipophilic principles of *Echinacea purpurea* and evaluation of cucumber mosaic cucumovirus infection.* **Journal of Pharmaceutical and Biomedical Analysis**, 29(6), 1053-1060 (2002).
 8. J. Fiori, **M. Hudaib**, L. Valgimigli, S. Gabbanini, V. Cavrini. *Determination of trans-anethole in *Salvia sclarea* essential oil by liquid chromatography and GC-MS.* **Journal of Separation Science**, 25(10/11), 703-709 (2002).
 9. R. Gotti, J. Fiori, **M. Hudaib**, V. Cavrini. *Separation of alkaloids from *Echinacea purpurea* extracts by cyclodextrin-modified micellar electrokinetic chromatography.* **Electrophoresis**, 23(17), 3084-3092 (2002).
 10. M.G. Gioia, R. Gatti, M. Vannini, **M. Hudaib**. *4,7-phenanthroline-5,6-dione: a new labelling reagent for liquid chromatographic analysis of amino acids.* **Chromatographia**, 56(5/6) 289-294 (2002).
 11. **M. Hudaib**, V. Cavrini, M.G. Bellardi, C. Rubies-Autonell. *Characterization of the essential oils of healthy and virus infected *Echinacea purpurea* (L.) Moench plants.* **Journal of Essential Oil Research**, 14(6), 427-430 (2002).
 12. C. Bertucci, **M. Hudaib**, C. Boga, N. Calonghi, C. Cappadone, L. Masotti. *Gas chromatography/mass spectrometric assay of endogenous cellular lipid peroxidation products: Quantitative analysis of 9- and 10-hydroxystearic acids.* **Rapid Communications in Mass Spectrometry**, 16(9), 859-864 (2002).
 13. **M. Hudaib**, R. Gotti, R. Pomponio, V. Cavrini. *Recovery evaluation of lipophilic markers from *Echinacea purpurea* roots applying microwave-assisted solvent extraction versus conventional methods.* **Journal of Separation Science**, 26(1/2), 97-104 (2003).
 14. F. Alali, **M. Hudaib**, T. Aburjai, K. Khairallah, N. Al-Hadidi. *GC-MS Analysis and Antimicrobial Activity of the Essential Oil from the Stem of the Jordanian Toothbrush Tree *Salvadora persica*.* **Pharmaceutical Biology**, 42(8), 577-580 (2004).
 15. T. Aburjai, **M. Hudaib**, V. Cavrini. *Chemical Composition of the Essential Oil from Different Aerial Parts of Lavender (*Lavandula coronopifolia* Poit.) (Lamiaceae) Grown in Jordan.* **Journal of Essential Oil Research**, 17(1), 49-51 (2005).
 16. S. Halabi, A. Battah, T. Aburjai, **M. Hudaib**. *Phytochemical and Antiplatelet Investigation of *Gundelia tournifortii*.* **Pharmaceutical Biology**, 43(6), 1-5 (2005).

17. T. Aburjai, **M. Hudaib**, V. Cavrini. *Composition of the essential oil from Jordanian germander (Teucrium polium L.)*. **Journal of Essential Oil Research**, 18(1), 97-99 (2006).
18. **M.M. Hudaib**, T.A. Aburjai. *Composition of the Essential Oil from Artemisia herba-alba grown in Jordan*. **Journal of Essential Oil Research**, 18(3), 301-304 (2006).
19. A. Alnajjar, D. Chabane Sari, N. Abuharfeil, **M. Hudaib**, T. Aburjai. *Effect of n-3 and n-6 polyunsaturated fatty acids on lymphocyte proliferation, interleukin production and phospholipid fatty acids composition in type 2 diabetic and healthy subjects in Jordan people*. **Prostaglandins, Leukotrienes and Essential Fatty Acids**, 74(6), 347-356 (2006).
20. T. Aburjai, **M. Hudaib**. *Antiplaquet, Antibacterial and Antifungal Activities of Achillea falcata Extracts and Evaluation of Volatile Oil Composition*. **Pharmacognosy Magazine**, 2(7) 191-197 (2006).
21. T. Aburjai, **M. Hudaib**, R. Tayyem, M. Yousef, M. Qishawi. *Ethnopharmacological survey of medicinal herbs in Jordan, the Ajloun Heights region*. **Journal of Ethnopharmacology**, 110(2), 294-304 (2007).
22. **M. Hudaib**, T. Aburjai. *Volatile Components of Thymus vulgaris L. from Wild Growing and Cultivated Plants in Jordan*. **Flavour and Fragrance Journal**, 22(4), 322-327 (2007).
23. **M. Hudaib**, M. Mohammad, Y. Bustanji, R. Tayyem, M. Yousef, M. Abuirjeie, T. Aburjai. *Ethnopharmacological survey of medicinal plants in Jordan, Mujib Nature Reserve and surrounding area*. **Journal of Ethnopharmacology**, 120, 63-71 (2008).
24. K. Tawaha, **M. Hudaib**. *Volatile oil profiles of the aerial parts of Jordanian garland, Chrysanthemum coronarium*. **Pharmaceutical Biology**, 48(10), 1108-1114 (2010).
25. 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).
26. **M. Hudaib**, W.B. Aldahasi, A. Khair, R. Salah, H.S. AlKhatib, Y. Bustanji, M.K. Mohammad. *A Simple and Rapid HPLC-UV Method for the Determination of Umckalin, as an Herbal Marker, in the Cough Syrup of Pelargonium sidoides Extract*. **Jordan Journal of Pharmaceutical Sciences**, 3(2), 109-115 (2010).
27. A. Khair, 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).
28. 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).
 29. M.K. Mohammad, R. Taeem, S. Hamed, I.M. Almasri, H. ALKhatib, **M. Hudaib**, Y. 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).
 30. 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).
 31. 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).
 32. 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).
 33. 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).
 34. 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).
 35. M. Alzweiri, A. Al Sarhan, K. Mansi, **M. Hudaib**, T. Aburjai. *Ethnopharmacological survey of medicinal herbs in Jordan, the Northern Badia region*. **Journal of Ethnopharmacology**, 137(1), 27– 35 (2011).
 36. 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).
 37. **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).
 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*, 15(6), 988-996 (2012).
39. L.K. Hudifa, A.S. Alnouri, T.A. Aburjai, **M.M. Hudaib**. *Chemical composition of the essential oil from roots of Sarcopoterium spinosum (L.) (Rosaceae) grown in Syria. Journal of Essential Oil Bearing Plants*, 16(3), 412-416 (2013).
40. **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).
41. T.A. Aburjai, I.M. Oun, A.A. Auzi, **M.M. Hudaib**. *Volatile Oil Constituents of Fruits and Leaves of Solanum nigrum L. Growing in Libya. Journal of Essential Oil Bearing Plants*, (In Press).
42. K.A. Tawaha, Feras Q.Alali, **M.M. Hudaib**. *Chemical Composition and General Cytotoxicity Evaluation of Essential Oil from the Flowers of Anthemis palestina Reut. ex Boiss. Growing in Jordan. Journal of Essential Oil Bearing Plants*, (In Press).
43. **M. Hudaib**, K. Tawaha, A. Battah. *Chemical Composition of Volatile Oil from the Aerial Parts of Rosmarinus officinalis L. Growing in Jordan. Journal of Essential Oil Bearing Plants*, (In Press).

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CONFERENCES, SEMINARS AND PRESENTATIONS

Scientific Visits:

Visit title: Pharmaceutical, Natural, and Biomedical Applications of LC-MS.

Link title: University of Jordan-University of Strathclyde Higher Education Link.

Time and Location: 13-19 March 2005, Department of Pharmaceutical Sciences, Faculty of Pharmacy, Strathclyde University, Glasgow, UK.

Courses, Seminars and Workshops (Participation and Training):

1. Gas Chromatography Seminar organized by Perkin Elmer and Al-Zaytoonah University of Jordan, Amman-Jordan (16-17 March, 1998)
2. Chemistry Scientific Day organized by Varian: Mass Spectrometry and Microextraction, Chemistry Department, Bologna-Italy (29 June, 1999)
3. 4th Course in Mass Spectrometry for PhD students: Applications to Natural Products, Siena-Italy (12-17 March, 2000)
4. 5th Summer Course on Pharmaceutical Analysis for PhD students, Elba Island-Italy (30 Sep-3 Oct, 2000).
5. Scientific Chemistry Day organized by Varian: Applications and Solutions in Mass

- Spectrometry, National Center of Research, Padua-Italy (July 4, 2001)
6. Scientific Symposium-Faculty of Pharmacy (UJ): Advanced Computer Aided Drug Discovery Techniques Adopted in the Faculty of Pharmacy/University of Jordan, Faculty of Pharmacy-UJ, Amman-Jordan (8 Aug., 2003).
 7. 1st Conference on Scientific Research in Jordan, Jordan Society for Scientific Research (JSSR), Amman-Jordan (2003).
 8. Workshop: Curriculum and Syllabus Construction, Faculty of Medicine- University of Jordan, Amman-Jordan (Feb. 15-20, 2003).
 9. Training Course: MCQ Management, The Center for Educational Development for Health Personnel (CEDHP)-UJ, Amman-Jordan (June 6, 2003).
 10. Workshop: Training of Trainers, Water & Environment Research & Study Center (WERSC)- University of Jordan, Amman-Jordan (June 30 –July 4, 2003).
 11. Training Course: Teaching and Assessment Methodologies, CEDHP-UJ, Amman-Jordan (Dec. 2, 2003 – Jan. 24, 2004).
 12. Workshop: Quality Assurance, CEDHP-UJ, Amman-Jordan (Feb. 17, 2004).
 13. Training Course: Developing and Improving the Teaching, Assessment, and Professional Skills and Performance of the UJ-Teaching Staff, Faculty of Educational Sciences-UJ, Amman-Jordan (April 30 –June 5, 2004).
 14. Chromatography and Pharmaceutical Analysis Workshop: HPLC, GC/MS and LC/MS, Arab Medical & Scientific Alliance-Shocair, Amman-Jordan (May, 2004).
 15. 1st Pharmaceutical Day of the Royal Jordanian Medical Services (Dec 2004, Amman-Jordan).
 16. Workshop: EURO-MEDAnet Project: Launching the Jordan's Information Point, Princess Sumayya University for Technology, Amman-Jordan (April 4, 2005).
 17. Workshop: Surveillance Construction and Analysis in Qualitative Studies: A Case Study, CEDHP-UJ, Amman-Jordan (Sep. 5, 2005).
 18. Training Course: Applications of Computer Softwares: Statistical Analysis, Design of Scientific Research Proposals, and Scientific Report Writing, CEDHP-UJ, Amman-Jordan (2005).
 19. Workshop: Leadership Development Program for Health Professions, CEDHP-UJ, Amman-Jordan (May, 2006).
 20. 11th Jordan International Pharmaceutical Conference 2006 "Towards New Advances in Pharmaceutical Sciences", Jordan Pharmacists' Association, Amman-Jordan (15-17 Nov, 2006).
 21. The 26th General Arab Pharmacists' Union Conference & 12th Jordan Pharmacists'

- Association Conference, Amman-Jordan (10-12 April, 2008).
22. 13th Pharmaceutical Conference, Jordan Pharmacists Association, Amman-Jordan (April, 2010).
23. Various scientific and organizational contributions in the Scientific Days organized annually by the Faculty of Pharmacy-University of Jordan, Amman-Jordan (academic years, 2006-Present).
24. Annual Conference of Graduate Studies in the University of Jordan, (type of contribution: Project Abstracts and Achievements of my Thesis-Track graduate students), UJ, Amman-Jordan (academic years, 2008-2011).
25. Seminar: Current Ion Chromatography, Denise (Thermo Electron), Amman-Jordan (5-11-2013).
26. Unitech. International & Agilent Technologies Conference, Products of Current LC-MS and Related Technologies, Amman-Jordan (12-11-2013).

Podium and Poster Presentations:

1. 20th National Congress of the Italian Chemical Society (4-9 June 2000, Rimini-Italy). *Poster*: Chromatographic and Virological Evaluation of *Salvia sclarea* Infected by BBWV-I. (by **M. Hudaib**, C. Rubies-Autonell, M.G. Bellardi, V. Cavrini).
2. 6th Summer Course on Pharmaceutical Analysis for PhD students (3-5 June 2001, Lipari Island, Italy). *Podium presentation of my PhD-research activities*: Applications of GC/MS to Analysis of Plant Natural Products. (by **M. Hudaib**)
3. 9th International Meeting on Recent Developments in Pharmaceutical Analysis 2001 (RDPA'01, 5-9 June 2001, Lipari Island, Italy). *3 Posters*:
 - a. GC-MS analysis of active lipophilic principles of *Echinacea purpurea* herbs and extracts. (by **M. Hudaib**, C. Rubies-Autonell, M. G. Bellardi, V. Cavrini).
 - b. Determination of trans-anethole in *Salvia sclarea* essential oil by liquid chromatography (HPLC) and GC-MS. (by **M. Hudaib**, J. Fiori, V. Cavrini).
 - c. GC-MS characterization of the essential oils of selected medicinal aromatic plants from Jordan. (by **M. Hudaib**, T. Aburjai, M. Abdel Qader, A. Al-Abbadi, V. Cavrini).
4. 1st Sigma Aldrich Young Chemists Symposium (18-19 October 2001, Riccione, Italy). *Poster*: Analysis of Lipophilic and Volatile components of *Echinacea purpurea*: Extraction Methods and GC/MS Analysis (by **M. Hudaib**, J. Fiori, M.G. Bellardi, C. Rubies-Autonell, V. Cavrini)
5. 1st Chemistry Day of Imiglia Romagna (23 November 2001, Department of Chemistry, University of Bologna, Bologna-Italy). *Poster*: GC/MS Analysis of the Lipophilic Principles of *Echinacea purpurea* Root Extract (by **M. Hudaib**, J. Fiori, V. Cavrini)

6. 2nd International Conference of the Royal Jordanian Medical Services (7-10 October 2003, Amman-Jordan). *Podium presentation*: Gas chromatography/mass spectrometric assay of endogenous cellular lipid peroxidation products: Quantitative analysis of 9- and 10-hydroxystearic acids (by **M. Hudaib**, C. Bertucci, C. Boga, N. Calonghi, C. Cappadone, L. Masotti).
7. The 9th International Pharmaceutical Sciences Conference and Exposition (December 17-21, 2005. Riyadh, Kingdom of Saudi Arabia. *Poster*: Antiplatelet and Antimicrobial Activities of Jordanian *Achillea falcata* Extracts and Evaluation of Volatile Oil Composition. (by T. Aburjai, **M. Hudaib**).
8. The 7th International Saudi Pharmaceutical Conference (19-21/3/2007. Riyadh, KSA. *Poster*: Evaluation of the Current Ethnopharmacological Status in the Jordanian Society Using Informant Consensus Factor (ICF), Ajloun Heights region. (by **M. Hudaib**, M. Mohammad, T. Aburjai).
9. The 4th International Conference of the Jordanian Royal Medical Services (2008, Amman, Jordan). *Podium Presentation*: Evaluation of the Current Ethnopharmacological Status in the Jordanian Society Using Informant Consensus Factor (ICF) and Plant Use Value (UV), Mujib Nature Reserve and surrounding area (by **M. Hudaib**, T. Aburjai, M. Mohammad).
10. The 14th Annual Congress of the Scientific Association of Colleges of Pharmacy In the Arab World, and the 2nd International Conference of the College of Pharmacy and Health Sciences. Ajman, UAE (7-9 February 2012). *Oral presentation*: Use of Informant Consensus Factor (ICF) and Plant Use Value (PUV) for Evaluation of Ethnopharmacological Statuses of Selected Jordanian Societies (Ajloun Heights, Mujib Nature Reserve and surrounding area, Northern Badia). (by **M. Hudaib** and T. Aburjai).