

Moh'd Saleem Ali-Shtayeh, Prof. Dr.

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Scientific career:

Education

1966-1970 BSc. (Excellent with Honors) Phytopathology, Cairo University, Egypt.

1979-1982 Ph.D. Plant Biology and Biotechnology, Department of Botany, University of Reading, U.K.

Professional Employment

Scientific career:

1996-2013 Professor of Biology and Biotechnology, Department of Biology and Biotechnology, An-Najah University, Nablus, Palestine.

2001-now Professor of Biology and Biotechnology, Biodiversity and Biotechnology Research Unit, Biodiversity & Environmental Research Center (BERC), Til, Nablus, Palestine.

1988-1996 Assoc. Prof. of Biology and Biotechnology, Department of Biological Sciences, An-Najah University, Nablus, Palestine.

1982-1988 Assistant Prof. of Biology and Biotechnology, Department of Biological Sciences, An-Najah University, Nablus, Palestine.

1989-1990 Fullbright Fellowship, Department of Plant Pathology, University of California, Davis, CA, USA.

Awards:

1986 The Abdul-Hameed Shoman Foundation Prize for Arab Scientists in Biological Sciences for the Year 1986. Amman, Jordan. (A Pan-Arab Prize).

2000 The Hisham Hijjawi Award for Applied Sciences in the Field of Industry and Environment For The Year 1999. Awarded in recognition of the distinguished applied scientific value of research article entitled: "Ecology of cycloheximide-resistant fungi in field soils receiving raw city wastewater or normal irrigation water." *Mycopathologia* 144:39-54.

2000 The Hisham Hijjawi Award for Applied Sciences in the Field of Agriculture and Water for the Year 1999. Awarded in recognition of the distinguished applied scientific value of research work entitled: "Olive Mills Wastewater (OMW) Treatment Using Upflow Anaerobic Sludge Blanket (UASB) Reactor."

2001 The Hisham Hijjawi Award for Applied Sciences in the Field of Agriculture, Water, and Environment for the Year 2000. Awarded in recognition of the distinguished applied scientific value of research article: Isolation of *Pythium acanthicum*, *P. oligandrum*, and *P. periplocum* from soil and evaluation of their mycoparasitic activity and biocontrol efficacy against selected phytopathogenic Pythium species. *Mycopathologia* 145:143-153.

2001 The Scientific Foundation of Hisham Adeeb Hijjawi Plaque for the Year 2000. "In recognition of his outstanding scientific achievement in applied sciences research."

SCHOLARSHIPS, SCIENTIFIC RECOGNITION, and GRANTS:

Research Grants and Projects:

- The Abdul-Hameed Shoman Foundation, Animal hair mycobiota including dermatophytes, 1986/87.
- AMIDEAST, Antimicrobial activity of Palestinian medicinal plants, 1995/96.

- MECC, cancer research: plants as source of anticancer drugs, 1998/99.
- MECC, cancer research: plants as source of anticancer drugs, 1999/2000.
- CDR, USAID, 2000-2003, Biological control.
- Palestinian – French Research Program, coordinated by Ministry of Higher Education and Scientific Research. **Medicinal Plants as A Source of Therapeutics for Acnes and Teeth Bacterial Infections**. French Partner: I. About (Laboratoire IMEB ; Faculté d'Odontologie ; 27 BD Jean Moulin ; 13385 MARSEILLE cedex 5 ; France). 2002-2003. Budget, Researcher's part (BERC): € 18,031.
- 2007-2011. **Control of new threatening cucurbit-infecting whitefly-transmitted geminiviruses in the Middle East**. USAID-MERC program (M26-063). 2007-2011. Non-funded one year (2012) extension. Budget total: \$ 616,400 for 3 groups, Budget, Researcher's part (BERC): \$ 157,550.
- 2007-2010. **The helper component proteinase (HC-Pro) of Zucchini yellow mosaic virus (ZYMV) as a tool to study silencing suppressor-mediated induction of disease symptoms in plants**. DFG Project WA1019/5-1. Non-funded one year (2011) extension. Budget, Researcher's part (BERC): € 127,100.
- 2008-2010. **Protein-protein interactions in mono- and bi-partite geminiviruses: functional analysis and use of aptamers for plant protection**. Project No. (GIP-DFG0908). DFG, German Partner: Stuttgart University. Budget, Researcher's part (BERC): € 60,120
- 2010-2013. **Protein-protein interactions in mono- and bi-partite geminiviruses: functional analysis and use of aptamers for plant protection**. Project No. (JE-116/12-2). DFG, German Partner: Stuttgart University. Budget, researcher's part (BERC): € 120,700.
- 2005-2008. GLOWA Phase II: Project 10, modeling the **impact of global climate change on terrestrial biodiversity** in the Jordan River Basin: Testing planning scenarios and climate change scenarios. The German-Jordanian-Palestinian GLOWA Jordan River Project Cooperation in the framework of the GLOWA programme ("Globaler Wandel des Wasserkreislaufes"). BMBF; August 2005– July 2008. Budget, researcher's part (BERC): Euro 49,500
- 2008-2011. GLOWA Phase III. GLOWA Jordan River An Integrated Approach To Sustainable Management of Water Resources Under Global Change. Phase III: Subproject 3.1.3: **Climate Change and Land Use Change Effects on Natural and Semi-Natural Ecosystems and their Feedback on the Hydrological System: 3.1.3: Animal Biodiversity**. BMBF; September 2008 – 31- August 2011. Budget (BERC): Euro 39,500
- 2006-2008. **Runoff, Flood & Non-sewage Wastewater for Native Tree Propagation**. Arava Institute for Environmental Studies (AIES) and The Arizona Board Of Regents, University of Arizona of Tucson, Arizona; USDA under Award No. 2006-34326-16908. Budget (BERC): \$ 26,150.
- **2005-2008. Hybrid biomass-membrane bioreactor (HyBi-MBR) for wastewater treatment**. BMBF, Germany. Budget (BERC): Euro 73,600.
- 2010-2016. **Reclamation of Secondary Effluents With Reverse Osmosis Membranes: Fouling Mechanisms and Control**. (M29-048). 2010-2016. Budget total: \$ 659,410 for 2 groups, Researcher's part (BERC): \$ 322,575.
- 2011-2013. Bio Exploration – **Novel methodology for the Identification of Valuable**

Natural Products Derived from Mediterranean Flora. Bio-Xplore. European Neighbourhood and Partnership Instrument (ENPI), Cross-Border Cooperation in the Mediterranean (CBCM). 2011-2013, European Union. Project Reference Number: I-B/1.0/288+ Budget (BERC): €470,000.

Bio-Xplore project focuses on the identification of commercially valuable natural compounds derived from the flora of the Mediterranean area, with the final aim of protecting the natural resources while creating new sources for local industrial development and job opportunities.

The screening technology has been developed by the Global Institute for Bio Exploration (GIBEX) (<http://www.gibex.org/index.php>) and offered for use by the consortium to support setting up of bio exploration centers in the Mediterranean region.

- 2014 – 2018 **New resources to control melon *Fusarium* wilt in the Middle East.** M32-016. Budget (BERC): \$ 216,000
- 2014- 2017 **Development of aromatic plant production systems tolerant to irrigation with treated effluents.** MERC USAID M29-033. Budget (BERC): \$ 225,400
- 2014-2017 **Sustainable Use of Constructed Wetlands for Wastewater Treatment and Reuse in Small Communities.** MERC USAID M32-020. Budget (BERC): 172,500

Others:

FAO Fellowship, 1979/1980.

British Council Scholarship, 1980/1981.

An-Najah N. University Scholarship, 1981/1982.

British Council Bursary, June- July 1989 to undertake a collaborative research at the University of Liverpool.

DAAD Fellowship, Tubingen Univ., Germany, Aug.-Sept. 1993.

Member of the New York Academy of Science.

Name cited in the Who's Who for distinguished achievements.

The Global Environment Facility, GEF / UNDP / SGP. 2001-2002. Conservation of Palestine Biodiversity: **BERC-Til Botanic Gardens.**

Setting up a community-based seed bank in the Nablus area, GEF / UNDP / SGP. 2004-2006.

Conservation of medicinal plant and related Palestinian traditional knowledge (1). Partner: SDE – Gaza; GEF / UNDP / SGP. 2005.

Food security for children: Setting up small-scale horticultural production packages; Oxfam UK, 2004-2005.

Conservation of medicinal plant and related Palestinian traditional knowledge (2). GEF / UNDP / SGP. 2006-2007.

Establishing community-based agricultural units in the Rural Nablus Area based on solar energy utilization in drying fruits and vegetables. PAL/SGP/OP4/Yr2/CORE/2008/1. GEF/SGP. 2009-2010.

RESEARCH AND TEACHING EXPERIENCE:

AREA OF EXPERTISE

Fusarium wilt is difficult to control, and has a devastating impact on melon (*Cucumis melo*) in the Middle East. The Ali-Shtayeh group is focused on genetic improvement of *Cucumis* yield and quality by exploring novel genetic resources and generating tools and expertise for

breeding *Fusarium* resistant melons, concentrating on the *locally adapted landraces* (Fakous) grown by small farmers (MERC USAID M32-016).

He has been involved in collecting *Cucumis melo* germplasm in the Palestinian Authority (West Bank), focusing on local landraces, characterizing the collection using DNA fingerprinting, morphological and horticultural parameters, and screen the collection for *Fusarium* wilt resistance; characterizing novel sources of *Fusarium* resistance, to broaden and diversify the genetic basis of FOM-resistance breeding; and initiating a melon-landrace-breeding program, using a "farmer participatory approach.

The research in the lab is currently focusing on enhancing Fakous yield, integrating genetics and physiology with newly developed genomics and metabolomics tools. He has been involved in studies of QTL mapping, functional genomics and marker assisted selection of *Fusarium* wilt traits in Fakous.

Ali-Shtayeh research group is now collaborating with Zvi Peleg (HUJ) and Roi Ben-David (ARO) in joint MERC research project focusing on wheat productivity under abiotic stress such as drought and heat, integrating genetics and physiology with newly developed genomics and metabolomics tools. The work will involve studies of QTL mapping, functional genomics and marker assisted selection of drought adaptive traits in wheat.

BIODIVERSITY & ENVIRONMENTAL RESEARCH CENTER (BERC) (non-governmental, non-profitable organization), Til Village, Nablus, West Bank

Professor of Biology and Biotechnology.

President and Founder (2001-Now)

Research has been focused on:

- *Epigenetics- RNAi, Gene silencing*
- *Genomics-Geminiviruses - Begomoviruses*
- *Biofouling of membranes in MBR and RO units*
- *Bioexploration of indigenous Palestinian plants – as a source of therapeutics* (identification of commercially valuable natural compounds derived from the flora of Palestine)
- *Plant Genetic Engineering – genetic diversity of indigenous plants and conservation biology*
- *Genotypes and susceptibility to antibiotics*
- *Medical mycology- dermatophytes- epidemiology and genetic diversity*

AN-NAJAH N. UNIVERSITY, Dept Biologic Sc., Nablus, West Bank

Teaching:

- 1.*** Ecology, Environmental Sciences, & Conservation Biology (Junior, Senior, and MSc levels).
- 2.*** Mycology and Fungal Biotechnology (Junior, Senior, and MSc levels) including Introductory Mycology; Medical Mycology; Adv. Mycology; Plant Pathology; Adv. Fungal Ecology.
- 3.*** Applied Biotechnology II (environmental and agric biotechnology with concentration on RNA interference and bioremediation)
- 4.*** Botany: Nonvascular Plants; Pl Anatomy; Pl Physiology; Pl Diversity (Junior & Senior levels).
- 5.*** Research: Writing and Publishing of Research Work

Research:

My research experience and interest was centered on ethnopharmacology; environmental biotechnology, agric biotechnology, medicinal plants as a source of therapeutics; medical mycology.

Referee / Reviewer of Research Manuscripts:

I have refereed manuscripts for the following international journals, including:

- *Biotechnology Progress*, Pittsburgh, PA USA, Editor: J. S. Schultz;
- *Mycopathologia*, Kluwer Academic Publishers, Editor in Chief: Arthur F. Di Salvo, USA.
- *Plant Disease*, APS, USA.
- *Plant Genetic Resources: Characterization and Utilization*; NIAB, Cambridge, UK, Chief Editor: Robert Koebner.
- *Journal of Ethnobiology and Ethnomedicine*
- *African Journal of Microbiology Research*
- *Journal of Medicinal Plant Research*
- *African Journal of Pharmacy and Pharmacology*

Supervision of MSc and Ph.D. theses:

Since 1988, I supervised several (about >47) MSc. theses (An-Najah Univ.) and three Ph.D. theses (one at An-Najah University; second at the Univ. of Liverpool, U.K.; and the third in Hohenheim Univ, Stuttgart, Germany).

Selected Committees:**National Level:**

1. Elected Member of the Council of Higher Education in Palestine. Palestinian universities Representative. (1982-1984).
2. Elected Member of the Executive Committee of the Council of Higher Education in Palestine. Universities Representative (1992-1994).
3. Palestinian National Commission for Education, Culture, and Science. Member of the National Committee for Science (1996- 2000).
4. National Technical Advisory Committee of the Integrated Pest Management (IPM) Program, Birzeit Univ. (1995-2000).
5. National Committee for Biodiversity (1996-2001).
6. Head of the Palestinian Group for the Development of New Curriculum in Biology for the General Education System (1993/1994). The work was organized by the Council for Higher Education. The groups were headed by Dr. F. Nasro from Birzeit Univ.
7. Member and Head of the Palestinian Working Group on the Environment; MIDDLE EAST PEACE NEGOTIATIONS: Multilateral Working Group on Environment: 18-19 May 1992; Second Round: The Hague, The Netherlands, 26-27 Oct. 1992; Third Round: Tokyo, 24-25 May 1993; Fourth Round: Cairo, 14-15 Nov. 1993; Sixth Round: Abu Dabie, Nov., 1994.

University Level:

1. Academic Staff Ranks Promotion Committee, member (2002-2013)
2. Graduate Studies Promotion Committee, Coordinator (2002-12)
3. Editorial Board of An-Najah J. Res. (1984-85, 1992, 2010-2011)
4. University Council (1982-83)
5. Research Committee (1991-1993; 1994-1996)
6. Graduate Studies Council (1996-2005)
7. Member of the Organizing Committee of the Agricultural Biological Seminar, An-Najah National University, 20-22 May 1984. This was the first conference to be held at An-Najah Univ.
8. Chairman of the Organizing Committee; Workshop on the Environment: Towards a Sustainable Palestinian Environment - Solid Wastes: The Problem and the Solutions. Society for the Protection of the Environment (SPE) in the West Bank, 25 August 1994, An-Najah University, Nablus, Palestine.

9. Chairman of the Organizing Committee; Second Conference of the Department of Biological Sciences: Environmental Protection and Environmental Awareness in the West Bank and the Gaza Strip, 15-16 Dec. 1994, An-Najah Nat. Univ., Nablus, Palestine.
10. Member of the Steering Committee for the MSc Program in Environmental Sc., Faculty of Graduate Studies, An-Najah Univ. 1996-1997).
11. Member of the Shoman Award for Young Arab Scientists Selection Committee for the year 1996.
12. Member of the Organizing Committee; First Scientific Conference of Al-Tadamon Medical Center, Nablus, July 7, 1998.

Faculty Level:

Board of Faculty of Science (1982-1984)

Department Level:

Curriculum, Graduate Studies, Safety, Library, and Equipment Committees

MEMBERSHIP IN SCIENTIFIC SOCIETIES

British Mycological Society (BMS)

American Phytopathological Society (APS)

Jordanian Society for Biological Sciences (JSBS)

Arab Society for Plant Protection (ASPP)

New York Academy of Sciences (NYAS)

Society for the Protection of Nature in Palestine (SPNP). Member & Founder.

International Society for Human and Animal Mycology (ISHAM)

List of Publications

Plant Molecular Biology & Biocontrol Science

1. Lapidot M., Dana Gelbart, A. Gal-On, Ghandi Anfoka, Fatima Haj Ahmed, Yusef Abou-Jawada, Hana Soboh, Hamed Mazaya, Aboul-Ata E. Aboul-Ata, Ahmed Kamal El-Attar, Mohammed S. Ali-Shtayeh, Rana M. Jamous, Jane E. Polston, Siobain Duffy. (2014) Frequent migration of introduced cucurbit-infecting begomoviruses among Middle Eastern countries. *Virology Journal* 2014, 11:181 <http://www.virologyj.com/content/11/1/181>
2. Ali-Shtayeh M. S., Jamous R. M., Abu Zaitoun S. Y., Mallah O. B., Mubaslat A. Kh. (2014). Genetic diversity of the Palestinian Fig (*Ficus carica* L.) Collection by pomological traits and RAPD markers. *American Journal of Plant Sciences* 2014; 5:1139-1155 doi:10.4236/ajps.2014. (<http://www.scirp.org/journal/ajps>)
3. Ali-Shtayeh MS, Jamous RM, Mallah Omar B., Abu Zaitoun Salam Y. (2014). Molecular characterization of watermelon chlorotic stunt virus (WmCSV) from Palestine. *Viruses*; 6:2444-2462.
4. Ali-Shtayeh, M.S., Jamous, R.M., Hussein, E.Y., Mallah, O. B., and Abu-Zeitoun, S.Y. (2014). *Squash leaf curl virus* (SLCV): a serious disease threatening cucurbits production in Palestine. *Virus Genes* 48:320-328. DOI: 10.1007/s11262-013-1012-1
5. Ali-Shtayeh, M.S., Jamous, Rana M. (9th Jan, 2013). GenBank accession numbers for full length nucleotide sequences of the Palestinian isolate of watermelon chlorotic stunt virus (A and B): BankIt1595911 SeqID1KC462552; BankIt1595911 SeqID2 KC462553. <http://www.ncbi.nlm.nih.gov/>.
6. Ali-Shtayeh, M.S., Jamous, Rana M. (3rd Jan, 2013). GenBank accession numbers for full length nucleotide sequences of the Palestinian isolate of squash leaf curl virus chlorotic stunt virus (A and B): BankIt1595106 SeqID1 KC441465; BankIt1595106 SeqID2 KC441466. <http://www.ncbi.nlm.nih.gov/>.
7. Ali-Shtayeh, M.S., Jamous, Rana M., Hussein, Eman Y., Mallah, Omar B. and Abu-Zaitoun, Salam Y. (2012). First Report of Watermelon chlorotic stunt virus in Watermelon in the Palestinian Authority. *Plant Disease* 96, 149. <http://dx.doi.org/10.1094/PDIS-08-11-0679>

8. Jamous R.M., Boonrod K., Fuellgrabe M.W., Ali-Shtayeh M.S., Krczal G. and Wassenegger M. (2011). The HC-Pro of the *Zucchini Yellow Mosaic Virus* (ZYMV) inhibits HEN1 methyltransferase activity *in vitro*. *J Gen Virol*, 92: 2222-2226. doi:10.1099/vir.0.031534-0.
9. Ali-Shtayeh, M.S., Jamous, Rana M., Hussein, E., & Alkhader, M. (2010). First Report of Squash leaf curl virus (SLCV) on squash (*Cucurbita pepo* L.), melon (*Cucumis melo* L.), and cucumber (*Cucumis sativa* L.) in the Northern West Bank of the Palestinian Authority. *Plant Disease* 94: (5): 640 (abstract).
10. Barakat, Radwan M., Al-Mahareeq, Fadel, Ali-Shtayeh, Mohammed S., and AL- Masri, Mohammad I. (2007). Biological control of *Rhizoctonia solani* by indigenous *Trichoderma* spp. isolates from Palestine. *Hebron University Research Journal* 3:1 – 15.
11. Al-Masri, M. I., Ali-Shtayeh, M. S., Elad, Y., Sharon, A., Tudzynski, P., & Barakat, R. (2002). Effect of plant growth regulators on the interaction between *Sclerotinia sclerotiorum* and its host plants. *J. Phytopathology* 150: 1-7.
12. Ali-Shtayeh, M. S., Abdel-Basit, B. M. Mara'i, & Jamous, M. Rana. (2003). Distribution, occurrence and characterization of entomopathogenic fungi in agricultural soil in the Palestinian Area. *Mycopathologia* 156: 235-244.
13. Ali-Shtayeh, M. S., & Jamous, Rana M. (2000). Keratinophilic fungi and related dermatophytes in polluted soil and water habitats. In: Kushwaha, RKS, & Guarro, J. (Eds.) *Biology of Dermatophytes and other Keratinophilic Fungi*. *Revista Iberoamericana de Micologia* (pp. 51-59). Bilbao.
14. Ali-Shtayeh, M. S., & Saleh, A. S. F. (1999). Isolation of *Pythium acanthicum*, *P. oligandrum*, and *P. periplocum* from soil and evaluation of their mycoparasitic activity and biocontrol efficacy against selected phytopathogenic *Pythium* species. *Mycopathologia* 145:143-153.
15. Iraki, N., Ahmed, M., & Ali-Shtayeh, M. S. (1998). Callus initiation and protoplasts isolation from *Gypsophila paniculata* leaf segments. *Bethlehem University Journal* 17: 73-74.
16. Ali-Shtayeh, M. S., Macdonald, J. D., & Kabashima, J. (1991). A method for using commercial ELISA tests to detect zoospores of *Phytophthora* and *Pythium* species in irrigation water. *Plant Disease* 75:305-311.

Medicinal Plants & Ethnobotany

17. Ben-Arye E, Jamal Mahajna J, Aly R, Ali-Shtayeh MS, Bentur Y, Lev E, Deng G, Samuels N. (2016). Exploring an herbal “wonder cure” for cancer: a multidisciplinary approach. *Journal of Cancer Research and Clinical Oncology* pp 1-10. <http://link.springer.com/article/10.1007/s00432-016-2175-7> First online: 07 May 2016.
18. Ali-Shtayeh M.S., Jamous Rana M., Salameh Nihaya M.Y., Jamous Rania M., Hamadeh Amneh M.A. Complementary and alternative medicine use among cancer patients in Palestine with special reference to safety-related concerns. *Journal of Ethnopharmacology* 187 (2016) 104-122.
19. Ali-Shtayeh M. S., Jamous Rana M., Jamous Rania M. (2016). Traditional Arabic Palestinian ethnoveterinary practices in animal health care: a field survey in the West Bank (Palestine). *Journal of Ethnopharmacology* 182 (2016) 35–49. DOI information: 10.1016/j.jep.2016.02.005
20. Jamous R. M., Abu Zaitoun S. Y., Husein A. I., Qasem I. B. Y., Ali-Shtayeh M. S. Screening for Biological Activities of Medicinal Plants Used in Traditional Arabic Palestinian Herbal Medicine. *European Journal of Medicinal Plants* 9(1): 1-13, 2015.
21. Ali-Shtayeh M. S., Jamous Rana M., Abu Zaitoun Salam Y. A Comprehensive Science-Based Field Assessment of Bioactive Properties of the Native Plants of Palestine. *Journal of Biodiversity, Bioprospecting and Development* 2015, 2:3 <http://dx.doi.org/10.4172/2376-0214.1000151>

22. Ali-Shtayeh MS, Jamous RM, Jamous RM, Plants used during pregnancy, childbirth, postpartum and infant healthcare in Palestine, *Complementary Therapies in Clinical Practice* (2015), doi: 10.1016/j.ctcp.2015.03.004.
23. Abu-Reidah I. M., Ali-Shtayeh M. S., Jamous R. M., Arráez-Román D., Segura-Carretero A. (2015). Comprehensive metabolite profiling of *Arum palaestinum* (Araceae) leaves by using liquid chromatography tandem mass spectrometry. *Food Research International* 70 (2015) 74–86. DOI: 10.1016/j.foodres.2015.01.023
24. Abu-Reidah IM, Ali-Shtayeh MS, Jamous RM, , Arráez-Román D, Segura-Carretero A. (2015). HPLC-DAD-ESI-MS/MS screening of bioactive components from *Rhus coriaria* L. (Sumac) fruits. *Food Chemistry* 166:179-191. DOI: 10.1016/j.foodchem.2014.06.011
25. Abu-Reidah, IM, Jamous RM, and Ali-Shtayeh MS. (2014). Phytochemistry, Pharmacological Properties and Industrial Applications of *Rhus coriaria* L. (Sumac): A Review. *Jordan Journal of Biological Sciences* (JJBS) 7(4):233 - 244.
26. Husein AI, Ali-Shtayeh MS, Jamous RM, Abu Zaitoun SY, Jondi, WJ, and Zatar NA-A. (2014). Antimicrobial activities of six plants used in Traditional Arabic Palestinian Herbal Medicine. *African Journal of Microbiology Research* 2014. 8(38):3501-3507.
27. Husein A, Jondia W, Nidal Zatar, Mohammed S. Ali-Shtayeh. Synthesis and biological evaluation of novel mono acid esters derived from the constituents of *Urtica pilulifera*. *Iranian Journal of Pharmaceutical Research* (2014), 13 (4), p1173.
28. Ali-Shtayeh MS, Jamous RM, Abu Zaitoun SY, and Qasem IB. In-vitro screening of acetylcholinesterase inhibitory activity of extracts from Palestinian indigenous flora in relation to the treatment of Alzheimer's disease. *Functional Foods in Health and Disease* 4(9):381-400.
29. Ali-Shtayeh, MS, Jamous, RM, & Abu-Zeitoun, SY. (2014). BEREC 2014 "National list of Medicinal Plants in Palestine - West Bank and Gaza Strip". Til, Nablus: Biodiversity and Environmental Research Center (BEREC).
30. Husein AI, Ali-Shtayeh MS, Jondi WJ, Zatar N, Abu-Reidah IM, Jamous RM. (2014). In vitro antioxidant and antitumor activities of six selected plants used in the Traditional Arabic Palestinian herbal medicine. *Pharmaceutical Biology* 52(10):1249–1255.
31. Husein AI, Ali-Shtayeh MS, Jondi WJ, Zatar NA, and Al-Nuri MA (2014). High performance liquid chromatographic method for quantitative determination of emodin in *Rumex Cyprius* Marb, spectrophotometric studies. *International Journal of Sciences: Basic and Applied Research* (IJSBAR) (2014) 18: 217-222
32. Husein AI, Mohammed Saleem Ali-Shtayeh, Rana M. Jamous, Waheed Jebri Jondi, Nidal Abd-Aljapar Zatar. (2014). Phthalate derivatives are naturally occurring in *Arum palaestinum*. *International Journal of Current Research and Academic Review* 01/2014; 2(9):195-203.
33. Ben-Arye Eran, Amneh Ma Hamadeh, Elad Schiff, Rana M. Jamous, Jamal Dagash, Rania M. Jamous, Abed Agbarya, Gil Bar-Sela, Eyas Massalha, Michael Silbermann, Mohammed Saleem Ali-Shtayeh (2014). Compared perspectives of Arab patients in Palestine and Israel on the role of complementary medicine in cancer care. *Journal of Pain and Symptom Management* 01/2014
34. Ali-Shtayeh M. S., Jamous R. M., Abu-Zeitoun Salam Y. (2014). BEREC 2014 "National list of medicinal plants in Palestine - West Bank and Gaza Strip". Biodiversity and Environmental Research Center (BEREC), Til, Nablus.
35. Ali-Shtayeh, M. S., & Jamous, R. M. BEREC 2012 "National list of medicinal plants in Palestine - West Bank and Gaza Strip. Til, Nablus (Palestine): Biodiversity & Environmental Research Center-BEREC, 2012.
36. Ali-Shtayeh M S, Al-Assali A A, Jamous R M (2013). Antimicrobial activity of Palestinian medicinal plants against acne-inducing bacteria. *African Journal of Microbiology Research* 7(21):2560-2573.
37. Ali-Shtayeh MS, Jamous, R.M., & Jamous RM, & Salameh, YN (2013). Complementary and alternative medicine (CAM) use among hypertensive patients in Palestine. *Complementary Therapies in Clinical Practice* 19 (2013) 256-263.

38. Husein, A. I., Al-Nuri, M. A., Zatar, N. A., Jondi, W., & Ali-Shtayeh, M. S. (2012). Isolation and antifungal evaluation of *Rumex cyprius* Murb Extracts. *J. Chem. Chem. Eng.* 6 (2012) 547-550.
39. Husein A, Jondi W, Ali-Shtayeh M S, Zatar N (2014). Synthesis of novel biologically active mono acid esters derived from the constituents of *Urtica pilulifera*. *Iranian Journal of Pharmaceutical Research (IJPR)* Vol. 13 Issue 4, p1173.
40. Husein, A. I., Al-Nuri, M. A., Zatar, N. A., Jondi, W., Ali-Shtayeh, M. S., & Warad, I. (2012). Isolation and antifungal evaluation of *Juglans regia L* Extracts. *International Journal of Research and Reviews in Applied Sciences, IJRRAS* 13 (2), 655-660.
41. Ali-Shtayeh MS, Jamous, R.M., & Jamous RM (2012). Complementary and Alternative Medicine use amongst Palestinian diabetic patients. *Complementary Therapies in Clinical Practice* 18 , 16-21. doi:10.1016/j.ctcp.2011.09.001
42. Ali-Shtayeh MS, Jamous, R.M., & Jamous RM (2011). Herbal preparation use by patients suffering from cancer in Palestine. *Complementary Therapies in Clinical Practice* 17 (4), 235-240. <http://dx.doi.org/10.1016/j.ctcp.2011.06.002>
43. Ali-Shtayeh, M. S., Jamous, Rana M. (2011). Herbal medicines in cancer care in the Palestinian Authority. *Abstracts / European Journal of Integrative Medicine* 3 (2011) e129–e130. doi:10.1016/j.eujim.2011.05.049
44. Jamous, Rana M., Ali-Shtayeh, M. S. (2011). The state of traditional Arabic Palestinian herbal medicine (TAPHM) in the Palestinian authority (West Bank and Gaza Strip). *Abstracts / European Journal of Integrative Medicine* 3 (2011) e130-e131. doi:10.1016/j.eujim.2011.05.050
45. Ben-Arye, Eran, Ali-Shtayeh, M. S., Nejmi, Mati, Schiff, Elad, Hassan, Esmat, Mutafoglu, Kamer, Afifi, Fatma, Jamous, Rana M., Lev, Efraim, & Silbermman, Michael (2012). Integrative oncology research in the Middle-East: Weaving traditional and complementary medicine in supportive care. *Support Care Cancer*, 20(3):557-64. *Epub 2011 Mar 1*. DOI 10.1007/s00520-011-1121-0 (Manuscript No: JSCC-D-10-00476R2, Published online: 01 March 2011).
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47. Ali-Shtayeh, M.S., Jamous, Rana M. et al. (2008). Traditional knowledge of wild edible plants used in Palestine (Northern West Bank): A comparative study. *Journal of Ethnobiology and Ethnomedicine*, 4:13. (Highly accessed)
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