

Dr. HASSAN ABUQAUD  
E mail: [hassan@najah.edu](mailto:hassan@najah.edu)



1. Category: Professor

2. Staff of (name of firm): An-Najah.National University

3. Family name: Abu-Qaoud

4. First names: Hassan

5. Date of birth: 02.12.1958

6. Nationality: Palestinian, Face book (hassan Abuqaoud)

7. Place of Residence: Nablus, West Bank

8. Civil status: Married

9. Education:

Institution [Date from – Date to]	Degree(s) obtained
Department of Horticulture, University of Illinois at Urbana-Champaign, USA [1989]	Ph.D. Horticulture ( Plant tissue Culture)
Department of Plant Production, University of Jordan, Amman-Jordan [1984]	M.Sc. Plant Production
Department of Plant Production, University of Jordan, Amman-Jordan [1981]	B.Sc. Plant Production and Protection

10. Language skills:

Language*	Reading**	Speaking**	Writing**
<u>Arabic</u>	1	1	1
English	2	2	2

\* Mother tongue underline

\*\* Indicate competence on a scale of 1 to 5 (1=excellent; 5 = basic)

11. Membership of professional bodies:

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- Agriculture Engineers Association
- Amman Center
- The International Association for Plant Tissue Culture and Biotechnology (since 1994)
- Tissue Culture Association (since 1987)
- American Society for Horticultural Science (1987 – 2004)
- Faculty of Agriculture Council (since 2000)
- Agrobiodiversity project at Jenin area (1994 – 1998)
- Agriculture farm Anajah Nat.University (since 2004)
- Plant production Evaluation and Development Committee, NNU (2001 – 2002)
- University Council, NNU (since 2000)

12. Other skills: (e.g. Computer literacy, etc.)

- Office
- SAS, SPSS, Excell
- Minitab

13. Present position: Professor at An-Najah National University

14. Years within the firm: 28

15. Key qualifications: (Relevant to the assignment)

16. Specific experience in the region:

Country	Date from - Date to
Jordan	1981 – 1986, 1990 – 1992
USA	1986-1989
West Bank	1992 – present

## 17. Professional experience

Date from - Date to	Location	Company	Position	Description
2017	West Bank	Plant Production and Protection Department, An-Najah National University	Professor	<ul style="list-style-type: none"> <li>Chairman of Plant Production and Protection Dept, in addition to teaching and conducting research in the field of plant propagation and tissue culture and supervising Master students in Plant Production ( 4 students).</li> </ul>
2000 – 2017	West Bank	Plant Production and Protection Department, An-Najah National University	Associate Professor	<ul style="list-style-type: none"> <li>Chairman of Plant Production and Protection Dept, in addition to teaching and conducting research in the field of plant propagation and tissue culture and supervising Master students in Plant Production ( 6 students) and 5 students in Environmental Science</li> </ul>
1999 – 2000	West Bank	Plant Production and Protection Department, An-Najah National University	Associate Professor	Teaching basic courses (Botany and Plant Science), plant propagation (Establishing a plant tissue culture research laboratory)
1997 – 1999	West Bank	Department of Plant Production and Protection, Faculty of Agriculture, An-Najah National University	Assistant Professor	Teaching and research
1996 – 1997	West Bank	Department of Plant Production and Protection, Faculty of Agriculture, An-Najah National University	Assistant Professor	Teaching and research
1994 – 1996	West Bank	Faculty of Agriculture, An-Najah National University	Dean	Administrative work in addition of Coordinating a project of the Med-campus project CO57: Identification and determination of common quality parameters in Mediterranean Fruit and Vegetable products
1992 – 1994	West Bank	Faculty of Agriculture, An-Najah National University	Assistant Professor	Teaching (Botany, Plant propagation and Applied Statistics)
1990 – 1992	Jordan	Department of plant Production, University of Jordan	Assistant Professor	Tissue culture project Director. (University of Jordan). Member of National plant biotechnology committee. In addition of teaching Plant propagation and Statistics courses
1988	USA	Department of Agronomy, University of Illinois	Teaching Assistant	Urbana-Champaign, Il. 61801 teaching applied statistics and working in a computer lab.
1986 – 1988	USA	Department of Horticulture, University of Illinois	Research Assistant	Urbana-Champaign, Il. 61801 assist in teaching practical courses in horticulture.

1984 – 1986	Jordan	Badah Agriculture Company	Assistant Farm Manager	<ul style="list-style-type: none"> <li>▪ Establishing an irrigated farm in the desert of Wadi Araba (Southern of Jordan) of 2000 dunums using the Central Pivot system.</li> <li>▪ Potato was cultivated as a field crop for this farm it was among the first project using this system in Jordan.</li> <li>▪ The project aimed mainly at generate employment, and to expand agricultural production area, through an intensive land reclamation programme in several communities</li> </ul>
1981 – 1984	Jordan	Department of plant Production, University of Jordan	Research Assistant	Teaching assistance in the Dept. Of Plant Production

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17. Other relevant information (e.g.,)

## Publications

- **Abu-Qaoud, H.**, Bsharat, B., & Shtaya, M. (2023). Effect of growth regulators and colchicine on regeneration of two potato cultivars in vitro. *Research on Crops*, 24(3).
  - **Abu Qauod, H.**, Shtaya M., Mizyed N., Alfares H., Lebdi A. 2022. Effect of short-term irrigation of treated wastewater on vetch (*Vicia sativa* L.) and alfalfa (*Medicago sativa* L.) growth. Accepted in *Legume Research*.
  - **Abu Qauod, H.**, Alkowni, R and Shtaya, M. (2022). Meristems culture for virus irradiation in potato (*Solanum tuberosum*) cultivars in Palestine accepted for publication in the *RESEARCH ON CROPS* journal Vol. 23, No. 2 (June) .
  - Bitar, A.D. **Abu-Qaoud, H.**, Husameddin Isaid, , Ismail Daiq,Khalid Aslan,Ziad Alzuhoor. (2022). Effect of Irrigation with Fish and Dairy Farm Effluents on the Production of Date Palm cv. Medjool accepted for publication in *Palestinian Journal of Technology & Applied Sciences*.
  - Shawarb, N., **Qaoud, H. A.**, & Hussein, F. (2022). Ethnopharmacological survey of medicinal plants used by patients with gastrointestinal tract disorders in the northern region of Palestine. *Palestinian Medical and Pharmaceutical Journal (PMPJ)*. 7(2): 00-00 ]
  - **Abu-Qaoud Hassan**, Heba Al-Fares, Munqez J.Y. Shtaya, and Nuha Shawarb. 2021. Effect of effective microorganism on wheat growth under salt stress condition. *Chilean J. Agricultural Research*. Vol 81 (3).
  - Essaid H., Bitar,A.D. **Abu-Qaoud, H.**2021. Effect of Water Stress at Fruit Maturity Stage on Production and Skin Separation Phenomenon of Date Palm cv. Medjool. *Hebron University Research Journal (B)*. 10: 1-17.
  - Munqez J.Y. Shtaya, Heba Al-Fares, Tawfiq Qubbaj, **Hassan Abu-Qaoud**, Faisal Shraim. 2021. Influence of Salt Stress on Seed Germination and Agromorphological Traits in Chickpea (*Cicer arietinum* L.). *Legume Research- An International Journal*, Volume 44 Issue 12: 1455-1459
  - Munqez J.Y. Shtayaa,\* , Khalid Yaseena , Waed Abdelraheema , Yahya Hannouna , **Hassan Abu Qaoud** , Heba Al-Faresa , Akram Daoudb , Zeyad Fadahc , Abdallah Alimari. 2021. Effect of tertiary treated wastewater on some soil properties and wheat yield. *Desalination and Water Treatment*. 236 : 300–305.
  - Shtaya, M. J., Emeran, A. A., Fernández-Aparicio, M., **Qaoud, H. A.**, Abdallah, J., & Rubiales, D. (2021). Effects of crop mixtures on rust development on faba bean grown in Mediterranean climates. *Crop Protection*, 146, 105686.
  - Zakarneh, N., Hamzah, T. A., **Abu-Qaoud, H.**, Alimari, A., & Istitih, Y. H. (2020). Socio economic Assessment of greenhouse agricultural management practices in North West Bank. *Malysian Journal of Tropical Geography*. Vol 46 (1&2)
  - Mudalal. S., Kanan. D., **Abu qaoud, H.** and, Mauriello, G. 2020. Effect of Vacuum Packaging and Natural Ingredients on the Physical and Microbiological Properties of Fresh Oregano (*Origanum syriacum*) Products. *Journal of Food and Nutrition Research*, Vol. 8, No. 6, 244-251
  - Zakarneh, N., Hamzah, T. A., **Abu-Qaoud, H.**, Alimari, A., & Istitih, Y. H. (2019). Cropping Patterns and its Determinants in the Greenhouses in the Northern Governorates of the West Bank, Palestine. *The Arab World Geographer* .Vol 22, no 1-2 (2019) 66-77
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- Bitar, A.D. **Abu-Qaoud, H.**, Essaid H. 2019. Studies on propagation of date palm by off shoots. *Palestinian Journal of Technology & Applied Sciences* - No. 2: 61-68
  - **Abu-Qaoud, H.**, Shawrab, N., Hussien, Jaradat, N., Shtaya, M. 2018. Comparison of qualitative and quantitative analysis potential between wild and cultivated *Borago officinalis* leaves from Palestine. *Pakistan Journal of Pharmaceutical Sciences*. *Pakistan Journal of Pharmaceutical Sciences*. Vol 31, 3.
  - Nuha Shawarb, Nidal Jaradat, **Hassan Abu-Qaoud**, Raed Alkowni and Fatima Hussein. (2017). Investigation of antibacterial & antioxidant activity for methanolic extract from different edible plant species in Palestine. *Moroccan Journal of Chemistry*. 5 N°4 (2017) 573-579
  - RANA SAMARA, RAED ALKOWNI, TAWFIQ QUBBAJ, **HASSAN ABU-QAOD** AND SAMER JARRAR. 2018. Plant diseases associated with olive bark midge in West-Bank Palestine. *Res. on Crops* 19 (4) : 712-719.
  - Alkowni, R., Solyman, I and **Abu-Qaoud, H.** 2017. Introducing some of the threatened thymus species to in vitro tissue culture as an approach for their conservation. *Pak. J. Bot.*, 49(1): 259-264.
  - Alkowni, R and **Abu-Qaoud, H.** 2016. Field survey and molecular detection of potato viruses in Northern field of Palestine. *An - Najah Univ. J. Res. (N. Sc.)* Vol. 30:127-140.
  - Al-Tanbouz, R. and **Abu-Qaoud, H.** 2016. *In vitro* Regeneration of chickpea (*Cicer arietinum L.*). *Plant Cell Biotechnology and Molecular Biology* 17(1&2):21-30
  - Shtaya, MJY., Abdallah, J., Al-Fares, H., **Abu-Qaoud, H.**, Abu-Baker, O., Korf MV., Haddad, M. 2015. DETECTING GENETIC DIVERSITY AMONG BARLEY LANDRACES GROWN IN THE WEST-BANK, PALESTINE IN 2010-2011. *The Journal of Animal & Plant Sciences*, 25(5): 2015, Page 1356-1370.
  - **Abu-Qaoud H.** (2015) Date Palm Status and Perspective in Palestine. In: Al-Khayri J., Jain S., Johnson D. (eds) *Date Palm Genetic Resources and Utilization*. Springer, Dordrecht. [https://doi.org/10.1007/978-94-017-9707-8\\_13](https://doi.org/10.1007/978-94-017-9707-8_13)
  - Jamous, F., **Abu-Qaoud, H.** 2015. *In vitro* Regeneration of Tomato (*Lycopersicon esculentum* Mill). *Plant Cell Biotechnology and Molecular Biology* 16(3&4):181-190
  - Ebaid, R., **Abu-Qaoud, H.** Arafah, R. 2014. Molecular characterization of three common olive (*Olea europaea L.*) cultivars in Palestine, using simple sequence repeat (SSR) markers. *Biotechnology & Biotechnological Equipment*, DOI: [10.1080/13102818.2014.957026](https://doi.org/10.1080/13102818.2014.957026). 28 (5): 813-817.
  - Ebaid, R., **Abu-Qaoud, H.** 2014. Morphological and Biochemical Characterization of Three Olive "*Olea europaea L.*" Cultivars in Palestine. *Jordan Journal of Agricultural Sciences*, Volume 10, No.1: 130-143.
  - **Abu-Qaoud, H.**, Shtaya, M. 2014. The Effect of Colchicine on Adventitious Shoot Regeneration from Cultured Leaf Explants of *Petunia hybrid*. *British Biotechnology Journal* 4(5): 531-540.
  - **Abu-Qaoud, H.** 2013. Adventitious shoot formation and plant regeneration from leaf explants of carnation (*Dianthus caryophyllus L.*). 2012. *African Journal of Biotechnology* Vol. 12(21), pp. 3244-3249. DOI: 10.5897/AJB2013.12159.
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- Al-Fares, H., **Abu-Qaoud, H.** 2012. Molecular characterization of genetic diversity in some durum wheat (*Triticum durum* Desf.) in Palestine. *African Journal of Biotechnology* Vol. 11(51), 11230-11235.
  - **Abu-Qaoud, H.** Improving adventitious shoot regeneration from cultured leaf explants of *Petunia hybrida* using thidiazuron. 2012. *African Journal of Biotechnology* Vol. 11(51), pp. 11230-11235. DOI: 10.5897/AJB12.1695
  - **Abu-Qaoud, H.**, Abu-Rayya A and Yaish S. 2010. In vitro regeneration and somaclonal variation of *Petunia* hybrid. *J. Fruit and Ornamental Plant Res.* 18(1): 71-82
  - **Abu-Qaoud, H.** 2007. Effect of scarification, gibberellic acid and stratification on seed germination of three *Pistacia* species. *An-Najah Uni.J.Res (N.Sci.)* Vol.12: 1-11.
  - **Abu-Qaoud, H.**, N. Mizyed and A. Othman. 2007. The use of treated gray waste water for irrigation of rainfed olives in the West Bank. *Bethlehem Uni. Journal* .Vol.26: 10-22.
  - **Abu-Qaoud, H.** 2005 Germination of 'Arabequina' olive seeds as affected by chemical scarification, hot water treatment and endosperm tissue. *Jordan Journal of Agricultural Sciences*, Vol.1, No.1. 1-6.
  - **Abu-Qaoud, H.** 2004. In vitro organogenesis and shoot regeneration of *Cyclamen persicum* Mill. Using seedling tissues. *An-Najah Univ, J. Res* 18 (2) 147-156.
  - **Abu-Qaoud, H.** 2004. Effect of Hydrogen cyanamide and potassium nitrate on bud break and production of 'Perlette' grape in the Jordan Valley. *Jordan Journal of Agricultural Sciences* 31 (1): 46-52.
  - Mizyed. N., I. Eqteeshat and **H. Abu-Qaoud.** 2002. Optimum nitrogen fertilization for potato in the West Bank-Palestine. *An-Najah Univ. J. Res.* 16 (2) 141-154.
  - **Abu-Qaoud, H.** 1999. Performance of different grape cultivars for rooting and grafting. *An-Najah Univ. J. Res.* 13: 1-10.
  - Altoori. M., M. Omari and **H. Abu-Qaoud.** 1999. Studies on the propagation of Carob *Ceronia siliqua* by stem cuttings. *Dirasat* 26(2)
  - **Abu-Qaoud, H.** and N. Mizyed. 1998. Response of three wheat cultivars to nitrogen fertilization. *An-Najah Univ. J. Res.*12: 55-69.
  - Abo-Omar, J., **H. Abu-Qaoud** and H. Shanti. 1997. The effect of urea on feeding local goats *An-Najah Univ. J. Res.* 11: 79-88.
  - Hammaudeh. H.Y., M.A Suwwan, **H.A. Abu-Qaoud** and R.A. Shibli. 1998 Micropropagation and regeneration of Honeoye' strawberry. *Dirasat, Agri. Sci.* 25 (2) 170-178.
  - Sawwan. J **H. Abu. Qaoud** and M. Huzain. 1998. Effect of sucrose levels on the in vitro and ex vitro growth of African violet (*Saintpaulia ionantha* Wendl). *Adv. Hort. Sci.* 12:8-10.
  - **Abu- Qaoud, H.** and J. Sawwan. 1998 In vitro propagation of *Yucca elephantipes* plant. *The Islamic U.J.* 6(2) 55-65.
  - Yousef, A.A.R., M.A. Suwwan, A.M. Al-Musa and **H.A. Abu-Qaoud.** 1997. In Vitro culture and Microtuberization of "Spunta" Potato (*Solanum tuberosum* L.). *Dirasat, Agri. Sci.* 24 (2) 173 -181.
  - **Abu-Qaoud, H.** 1995. Status of date palm in Palestine. *Options Mediterraneennes* No. A-28.1996 81-84.
  - **Abu-Qaoud, H.** and R. Alkoini. 1995. The effect of seed treatments on germination of *Gundellia tournefortii* seeds. *An-Najah Univ. J. Res.* 3 (9): 58 - 72.
  - Sriskandarajah. S., R.M. Skirvin and **H. Abu-Qaoud.** 1990. The effect of some macronutrients on adventitious root development on Scion apple cultivars in vitro. *Plant cell, Tissue and Organ culture* 21:185-189.
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- Skirvin, R.M., **H. Abu-Qaoud**, Sriskandarajah and D.E. Harry. Genetics of micropropagated woody plants 1993. In Ahuja. R.M. (Ed). Micropropagation of woody plants. 121-152. Kluwer Academic publishers Netherlands.
- **Abu-Qaoud, H.** and B. Abu-Irmaileh. 1996 Propagation of Banana by tissue culture. The Islamic Uni.J. 4 (1): 68 - 77.
- Sriskandandarajah, S., R.M. Skirvin, **H. Abu-Qaoud** and S.S. Korban. 1990. Factors involved in shoot elongation and growth of adventitious and axillary shoots of three apple scion cultivars in vitro. J.Hort. Science 65(2): 113-121.
- Chevreau, E., R.M. Skirvin, **H.A. Abu-Qaoud**, S.S. Korban and J.G. Sullivan. 1989. Adventitious shoot regeneration from leaf tissue of three pear (Pyrus sp.) cultivars in vitro. Plant Cell Reports. 7:688-691.
- **Abu-Qaoud H.**, R.M. Skirvin and F.E. Below. 1991. Influence of nitrogen from and NH<sub>4</sub>-N/ NO<sub>3</sub> ratios on adventitious shoot formation from pear (Pyrus Communis) leaf explants in vitro. Plant Cell Tissue and Organ Culture. 27: 315-319.
- **Abu-Qaoud, H.**, R.M. Skirvin and E Cherveau. 1990. In vitro separation of chimeral pears into their component genotypes. Euphytica. 48: 189-196.
- **Abu- Qaoud, H.** 1989. In vitro separation of chimeral pear into their component genotypes. Ph. D. Thesis. University of Illinois at Urbana-Champagian. Illinois USA.
- **Abu- Qaoud, H.** 1984. Effect of Indole butyric acid, organic and inorganic Nutrients on the propagation of semihardwood "Nabali Olive cuttings. Msc. Thesis. University of Jordan, Amman, Jordan.

#### 18. Activities at the An-Najah National University

Instructor at Plant Production and Protection Department: 1992- present.

#### **Course taught**

1<sup>st</sup> year courses: Botany, Composlory.

2<sup>nd</sup> year courses: Principle of Plant Production, compulsory.

Agriculture in Palestine, compulsory.

Biostatistics, compulsory.

3<sup>rd</sup> year courses: Plant Propagation and Nurseries, compulsory.

Evergreen Fruit Tree, compulsory.

Seminar in Plant production, compulsory.

4<sup>th</sup> year courses: Plant Tissue Culture, Elective

Plant Biotechnology, Elective

Agricultural Extension Elective

#### **Graduate courses**

Writing Scientific research, compulsory.

Seminar, compulsory.

Advanced Fruit tree, compulsory.

Experimental Design and data Analysis, compulsory (posted Videos on data analysis for both parametric and non parametric data) <https://www.facebook.com/hassan.abuqaoud>

Plant Tissue Culture, elective.

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Green House Management, elective.

**SUPERVISOR** of 30 graduate students from, Departments of Plant Production

and Environmental Sciences, An Najah National University since 1998. In addition to Rural development program- AlQuds University Ph.D student (Malia University-Malaysia)

- Coordinator of the Master program in Plant production (first program in Palestine) 2006-now
- Coordinator, Tissue culture Laboratory project, An-Najah National University (NNU), (since 1999)
- Consultant Agricultural Policy and strategy for the ministry of Agriculture (1999)
- Supervisor, University gardens and landscape development Committee, NNU (since 2005)

### **Ongoing research**

1. Genetic diversity in ancient olives (*Olea europaea* L.) in Palestine (sent for publication)
2. Effect of harvesting date on olive oil quality and yield (Master thesis, in writing stage)
3. Effect of colchicines on potato performance Master thesis, in writing stage)
4. Screening for tomato salt tolerance in vitro (Master on going)
5. Antibacterial effect of different medicinal plant extract (Research, manuscript under preparation)
6. Improving micropropagation of strawberry from runners
7. Using osmoregulators to improve tolerance of vegetable crops to salt stress
8. Investigation of EM (effective microorganism) for growth improvement of crops
9. Effect of different harvesting dates and locations on olive oil fatty acid profile
10. Micropropagation of GF 677 root stock
11. Investigating the use of hydrogel and other soil amendment to improve drought tolerance of vegetables

### 19. **Professional project activities:** (short term missions)

**2109-2022:** Agricultural expert with a consulting consortium consisting of GFA, Fichtner and the Palestinian Hydrology Group (PHG). Working in the third phase of the Wastewater Reuse Project Nablus (WRPN) for Nablus Municipality, co-financed by the KfW Development Bank on behalf of the German Federal Ministry of Economic Cooperation and Development (BMZ) with an in-kind and/or financial contribution of the beneficiary farmers of the reuse scheme. A data survey is ongoing to establish data base as part of Farm Mobilization Campaign, both quantitative and qualitative data were collected and analyzed for this purpose.

**2017-2021** Consultant with CDM smith that supervising a project financed by KfW on waste water treatment plant at the WWTP Nablus West. Two reuse irrigation schemes are established at the sta-

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tion, one inside reuse irrigation scheme on and one outside scheme, adjacent to the WWTP. The inside irrigation scheme already has been executed, the project covered forty dunums cultivated with 9 fruit tree crops in addition to alfalfa, my duty was supervising, monitoring and evaluation of the growth and production of the planted crops, in addition environment and health assessment. Most of the deciduous fruit trees grew well (Apple, Apricot, peach, Almond, Pecan and Pomegranate, citrus did not grow well.. The outside scheme included the reuse of treated waste water for irrigating 90 dunums cultivated with Olive, Alfalfa, Pecan and Almond.

**2016** International staff mobility for teaching and training activities. The project was funded by Erasmus+ programme (Teaching a short course at Università degli studi di Napoli –Italy from 22/7-2/8/2016)

**2016- present** Member of the PACC project with Netherland for developing master program in Agribusiness in Palestine (attending training period in Netherland for 10 days (18-28/1/2015)

**2013** Agricultural Expert publishing “An analytical study of the results of the agricultural census (2010) in the Palestinian territories”

**2012-2013** Conducting a commercial project of producing potato tubers in vitro, the project was financed by PICTI

**2012** Food security Expert working as a team member conducting a study on Palestinian Land Development Needs Assessment. Report compiled by a Purpose Needs Assessment Team commissioned by a Consortium of European Palestinian Land Development Program Donors

**2009** – Thematic consultant for FP7. Ministry of Higher Education. Palestinian Authority

**2009** Agriculture Expert supervising an experiments on storage of potato conducted by a team of the MOA.

**2008** – Participant in a Mediterranean innovation and research coordination action (MI-RA) (FP7-INCO) project

**2008** Agriculture Expert of a consultancy team conducting a strategic Planning Development for Jenin Governorate

**2007** Agriculture expert supervising a project for the use of treated gray waste water for irrigation of rain fed olives in the West Bank (See publication)

**2006** Agriculture Expert evaluating a project conducted by the ministry of Agriculture on land reclamation in Nablus District, financed by the Government of Spain, focuses on both the employment generation and the agricultural sector in the district. It has two main purposes: to generate employment and to expand agricultural production, through a very labor-intensive land reclamation programme in fifteen selected villages of the District. It was aimed that by the end of the project about 2,400 dunums of land owned by small land owners will have been reclaimed, terraced, equipped with cisterns for rainwater catchments and storage, fenced, and planted with fruit trees. Farmers will also have been provided with extension support services. In doing so, the project will have generated 90,000 work/days.

**2006 – 2012** Agricultural experts conducting several Environmental Impact Assessment of different projects on different locations focusing on the effect of these projects on the Flora and Fauna of the locations including; Rawbi city, Azoun, Dura, Tarqumieh, Jerico, Yaba'd, Al yamoon and Salfeet

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**2006** Agricultural Expert Evaluating a project conducted by several non governmental organization to assist in the production and marketing of 200 tons of extra virgin olive oil from the Assera Al-Shamalieh region, with strict adherence to export trade requirements. The project is funded by the Participatory Natural Resource Management Pro-gramme (PNRMP) as a loan by IFAD to Palestinian Authority and executed by UNDP/PAPP integrated the olive sector as part of its components.

**2006** Agricultural Expert: Evaluating study of a project with Care international on food security in Tulkarem and Jenin districts entitled: "EMERGENCY AS-SISTANCE FOR IMPOVERISHED HOUSEHOLDS TO IMPROVE FOOD SECURITY IN VILLAGES AFFECTED BY THE WALL" The project focused on the food supplies, agricultural inputs and agricultural roads in rural areas impoverished by the wall. The project was funded by the European Commission for Humanitarian Aid (ECHO). Project aims to improve food security for 763 poor and marginalized Palestinian households in ten villages in the Jenin District of the West Bank. The project activities include: the introduction of high-yielding small ruminants, diverse crops, and water conservation systems; training and extension services in animal husbandry, water resource management, and small-scale agriculture; and, the development of village-based producer and marketing cooperatives or associations.

**2005** Agricultural Expert working with Palestine Economic policy Research Institute (MAS). The project aimed at understanding how the agricultural sector has changed in order to provide agricultural experts and farmers with up-dated information on the current situation with regard to agricultural production, food demand, and pricing and to help them get the best profit out of their agricultural production. This research work is part of a EC funded project (ONG/PVD/2004/061-180) aimed at improving the economic and social condition of Palestinian rural villages in the Tulkarem and Qalqilya Districts (West Bank) by increasing agricultural productivity and profitability and enhancing food security.

**2004 – 2005** Researcher for The Socio-economic Study for the Desertification Control Project's Sites in Hebron Area

**2001** Project investigator. Conducting an Environmental Impact Assessment for Nablus –Jenin road's project

**2000 – 2005** Project investigator (Palestine) for the improvement of olive production in semi-arid condition (International project)

**1999** Tissue culture project Director, An-Najah Nat. University

**1999 – 2004** Project investigator (Palestine) for the conservation and sustainable use of dry land Agro-Biodiversity of the Palestine (International Project) implemented by the UNDP

**1996** Director of a cooperative project with phoenix station at Elche (Spain) for improving in vitro propagation of date palm.

**1990 – 1992** Tissue culture project Director. (University of Jordan). Member of National plant biotechnology committee.

## Refences

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