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Mohammad Mahmoud Ajlouni

Vital

Birth Date: January 26, 1959
Birth Place: Sarih, Jordan

Title

Professional title

Professor of Plant Breeding and Genetics, Jordan University of science and Technology.

Education & Rank

2010 – Present:

Professor; Department of Plant Production, Jordan University of science and Technology.

1998 – 2010

Associate Professor; Department of Plant Production, Jordan University of Science and Technology. Irbid-Jordan.

1992 - 1998.

Assistant Professor, Department of Plant Production, Jordan University of Science and Technology. Irbid-Jordan.

Ph.D. 1992. Agronomy Department, Iowa State University. USA, Agronomy/ Plant Breeding and Genetics. Thesis: **Recurrent selection for lodging resistance in Oats.**

M.Sc. 1986. Plant Production department, University of Jordan, Jordan, Agronomy /Wheat. Thesis: **Association and inheritance of several agronomic traits in four wheat crosses.**

B.Sc.1981. Plant Production and protection department, University of Jordan, Jordan.

Research Interest

**Breeding and production of improved varieties for Biotic and abiotic stresses.
Biodiversity Conservation and sustainable Utilization.
Plant Genetic Resources (Conservation, Evaluation & Use to mitigate climate change impact).**

Awards

FAO Silver Medal for contribution to World Food Security, 2009.

Sawsaneh Award for Agricultural Research Excellence, 2007

Jordan University of Science & Technology Medal for Excellent Researchers, 1997.

Hisham Hijawi Award for Outstanding Scientific Achievement, 1996.

Employment History:

I. Academic experience:

Feb. 2019 -Feb. 2020. Visiting Scholar at Agronomy Department. Purdue University. Indiana, USA.

2010 – present. Professor of Plant Breeding and Genetics, Plant Production Department, JUST.

1997 – 2010 Associate Professor of Plant Breeding and Genetics,

1992 – 1997 Assistant Professor of Plant Breeding and Genetics.

The Job description of this position can be summarized as follows:

1. Teaching Graduate and Undergraduate Courses.
2. Research on plant breeding and Plant Genetic Resources Conservation.
3. Community services including farmers workshops, training and extension /awareness programs.

II. Management Experience:

Nov. 2012 – Feb. 2019

Executive Secretary, Association of Agricultural Research Institutions in the Near East and North Africa.

The Job description of this position can be summarized as follows:

1. Organize the General Conference and Executive Committee sessions, prepare the minutes and arrange for the publication, distribution and preservation of the reports and proceedings of all meetings of the Association.
2. Organize conferences, workshops, training programmes, AARINENA networks and any other meetings upon the request of the Executive Committee.
3. Prepare the Association's Programme of Work and Budget, propose joint work programmes with other regional and international organizations and ensure coordination of all activities among the Members of the Association.
4. Provide strategic directions to the association members and work with the multi-stakeholders constituents of the association including public education and research systems, farmers, NGO's, CBO's, private sector, young professionals, and women associations in research and higher education of Agriculture.
5. Manage the financial affairs of the Association and, in particular, collect annual subscriptions and receive any other financial contributions to the Association, account for all monies received, make payments in accordance with policies established by the General Conference and the Executive Committee and submit audited accounts to the triennial General Conference.
6. Organize the issue of the Association's Newsletter and provide documentation services to facilitate easy access to necessary information on agricultural research in all sub-regions.
7. Provide logistic and technical support to short and long term consultants working in the association projects.

Jan. 2011- Jan. 2012

Project Management Advisor for the Food and Nutrition Security toward Poverty Alleviation Project in Jordan. (Full time, Secondment)

The Job description of this position can be summarized as follows:

1. Support Ministry of Agriculture (MOA) Directorate(s) to manage and administer the day-by-day operations to ensure the effective implementation of the project;
2. Provide leadership and strategic thinking to senior MoA Directorates Staff to ensure that project activities focus on critical areas;
3. Advise MoA Directorate(s) on drafting the terms of reference for national and international consultants, identifying the consultants, and issuing requests for contracting them;
4. Together with MoA Directorate(s), continuously develop and review the technical assistance advisory plan of this project to ensure it meets the emerging needs of MoA Directorate(s)

5. Assist the concerned staff from the MoA to develop a detailed annual and quarterly work plans for the implementation of the project, in addition to quarterly financial and narrative reports, mid-term review report, and annual project progress reports;
6. Advise the MoA Directorate(s) staff on preparing and maintaining, the project logs (risk, issue and learning logs);
7. Support the MoA Directorate(s) to recruit and manage the project consultants, including monitoring and reviewing their assignments;
8. Act as National Steering Committee (NSC) Secretariat;
9. Assist MoA Directorate(s) to plan and organize the logistics of the NSC and Project Management Committee (PMC) meetings;
10. Assist MoA Directorate(s) to manage the monitoring mechanisms of the project in collaboration with UNDP to prepare project monitoring and evaluation;
11. Coordinate and collaborate with other programmes and projects implemented by other donors and UN agencies.

June, 1999 – June 2005.

National Project Manager for the Regional project: Conservation and Sustainable Use of Dryland Agro-Biodiversity, United Nations Development Program (UNDP) - Jordan (Full time, Secondment)

The Job description of this position can be summarized as follows:

1. Draw up the detailed Annual Project Work Plans and budget;
2. Keep financial and monitoring records for required project reporting;
3. Prepare Annual Performance Reviews, Project Implementation Reviews, and Impact Reports for submission to the UNDP Country Office and the National and Regional Project Coordinators;
4. Overall planning and management of the implementation of project's activities including the workshops, fairs, meetings, .. etc.;
5. Formulate job descriptions and define the scope of work for project staff and consultants, and participate in the selection process under UNDP guidelines;
6. Liaise with organizations participating in the project and ongoing programs relevant to the project and local village leaders in the project sites;
7. Ensuring that data arising from the activities of the project conform with agreed project wide methodologies and formats;
8. Calling and acting as the secretary to the National Project Steering Committee and technical meetings, preparing the agenda and other required documentation; and
9. Follow up with Ministries and legislative bodies regarding the consideration of agricultural and economic policies proposed by the project for introduction.
10. Develop public awareness campaigns for introduction of biodiversity conservation concept to local community.

Sept. 1995 – June 1999.

Head; Plant product division, Agriculture Center for Research and Production. Jordan University of Science and Technology. Irbid-Jordan.

The Job description of this position can be summarized as follows:

1. Develop the work plan for the Plant production department at the Agriculture research station.
2. Supervised the day to day work .
3. Develop and implement the farmers training programs.
4. Supervised the graduate students research.
5. Supervised undergraduates field training.

Consultation and other professional experiences:

Chairperson: Agriculture and Veterinary Medicine Committee, Scientific Research Fund, Ministry of Higher Education. May 2017 – Feb., 2019.

Committee member: The Scientific Committee, Scientific Research Fund, Ministry of Higher Education. May 2017 – Feb. , 2019.

Organizer: Transformational learning in higher education Agricultural systems in Near East and North Africa.

Coordinator: Development of Research and Higher Education strategy for the Near East and North Africa region.

Consultant for Climate Change and Food Security Project, FAO. May – September, 2011.

The responsibilities are:

1. Identified target stakeholders.
2. Developed Public awareness campaign including public awareness action plan and activities.
3. Develop capacity building program.
4. Develop training manuals.
5. Conduct program verification workshop.
6. Conduct training for trainers.

Biodiversity Consultant: August, 2010

Environmental Impact Assessment Study for Azraq Cement Factory Project

The responsibilities are:

1. Review the secondary data and the previous botanical surveys of the project site.
2. Describe the current status of biodiversity in the project site.
3. Study the key Interactions between the environmental aspects and the project components.
4. Identify environmental impacts in relation to key environmental aspects,
5. Propose proper mitigations measures to prevent or minimize those impacts.
6. Development of site management and monitoring plans.

Consultant for Libya National Capacity Self-Assessment (NCSA) project to implement the three Rio Convention (CBD, UNFCCC, UNCCD). UNDP/ General Environment Authority.

The responsibilities are:

1. Analyses of the Capacity constrain and the capacity development priorities developed in the previous stage of the project for the three Rio Conventions.
2. Identifies required activities to address constraints as an action-oriented response to the key capacity constraints that have been described through the NCSA process.
3. Develop Synergies among the three thematic areas.
4. Develops an action plan and a strategy for capacity building for the management of global environmental issues.
5. Defines a strategy for monitoring and evaluating capacity development.
6. Draft the final synergies report.

Member in the Mid-term Evaluation Team (Specialized Biodiversity Consultant) of the project: Syria Biodiversity Conservation and Protected Area management. UNDP / The General Commission for Environmental Affairs/Syria.

The responsibilities are:

1. Assess the progress towards change on perception among stakeholders, including the local communities in and around the three sites (i.e. user surveys).
2. Examine project strategy relevance and whether they provide the most effective route towards results.
3. Assess the extent to which the benefits of the project will continue, within or outside the project domain, after it has come to an end.
4. Assess the extent to which the project accounts for gender differences when developing and applying project interventions.
5. How are gender considerations mainstreamed into project interventions and the management of the protected area.
6. Suggest measures to strengthen the project's gender approach.
7. Assess the validity of the monitoring tools currently being used.
8. Validate whether the risks identified in the project document and PIRs are the most important and whether the risk ratings applied are appropriate.
9. Assess the use of the logical framework as a management tool during implementation and any changes made to it.
10. Assess adequacy of the revised log- frame and indicators in responding to the GEF strategic priorities and achieving project objective
11. Assess the use of routinely updated workplans. How have they been used to respond to the revised logical framework?
12. Assess the use of electronic information technologies to support implementation, participation and monitoring, as well as other project activities
13. Are work-planning processes result-based? If not, suggest ways to re-orientate work planning.
14. Consider the financial management of the project, with specific reference to the cost-effectiveness of interventions. Any irregularities must be noted.

15. Assess how adaptive management changes have been reported by the project management
16. Assess how lessons derived from the adaptive management process have been documented, shared with key partners and internalized by partners.
17. Assess the underlying factors beyond the project's immediate control that influence outcomes and results.
18. Re-test the assumptions made by the project management and identify new assumptions that should be made
19. Assess the effect of any incorrect assumptions made by the project.
20. Assess the role of UNDP against the requirements set out in the UNDP Handbook on Monitoring and Evaluating for Results.
21. Assess the contribution to the project from UNDP "soft" assistance.
22. Assess how partners are involved in the project's adaptive management framework:
23. Assess how local stakeholders participate in project management and decision-making.
24. Assess the dissemination mechanisms of project information to partners and stakeholders and if necessary suggest more appropriate mechanisms
25. Presentation of preliminary findings to stakeholders and drafting the evaluation report.

Food security/National Consultant: Oct., 2007 – Jan, 2008.

Preparing the full proposal document for the UN- CT Joint project:

Adaptation to Climate Change to Sustain Jordan's MDG Achievements / UNDP.

The responsibilities are:

1. Organizing meetings of the national steering group for the programme,
2. Review the existing information (e.g. Joint Programme Concept Notes, Comments from the Convener on Grant Concept Note, Joint Programme Document official website), to further develop the JP document.
3. Undertake stakeholder analysis – produce the detailed description of key players, their needs as relevant to the project objectives;
4. Conduct detailed baseline assessment;
5. Develop methodological framework for the JP implementation, including the mainstreaming methodology into the local development planning framework;
6. Conduct consultations with main identified stakeholders and target groups in order to agree on the most appropriate project strategy, outcomes, outputs and indicators;
7. Explain and justified budget items.
8. **Articulating a clear Monitoring and Evaluation Framework:**
9. Draft JP document in UNDP format based on the available materials collected at the concept note development stage;
10. Address the comments received from the MDG-F Secretariat, Technical Advisers and from UNCT in different stages;
11. Finalize the JP document for submission to the MDG-F Secretariat.

International consultant: Aug. 25 - Sept. 25, 2007.

Self Assessment of National Capacity Building Needs in Syria to Manage the three Global Environmental Conventions (CBD, UNFCCC, UNCCD). UNDP / The General Commission for Environmental Affairs/Syria.

The responsibilities are

1. Analyses of the Capacity constrain and the capacity development priorities developed in the second stage of the project for the three Rio Conventions.
2. Identifies required activities to address constraints as an action-oriented response to the key capacity constraints that have been described through the NCSA process.
3. Indicates how each activity is related to an ongoing national process.
4. Develops an action plan and a strategy for capacity building for the management of global environmental issues.
5. Defines a strategy for monitoring and evaluating capacity development.

Food Security/FAO Consultant: May – July, 2007

Representing FAO on United Nation Country Team to prepare the concept note of the project on: **Adaptation to Climate Change to Sustain Jordan's MDG Achievements.**

Biodiversity Consultant: January- March 2007

Environmental Impact Assessment Study for Dibbin Tourism Project

The responsibilities are:

1. Review the secondary data and the previous botanical surveys of the project site.
2. Describe the current status of biodiversity in the project site.
3. Study the key Interactions between the environmental aspects and the project components.
4. Identify environmental impacts in relation to key environmental aspects,
5. Propose proper mitigations measures to prevent or minimize those impacts.
6. Development of site management and monitoring plans.

Biodiversity Consultant: September, 2006

Environmental Impact Assessment Study for Al Jazeera Vehicles Assembly Factory Project

The responsibilities are:

1. Study the current status of biodiversity in the factory site.
2. Study the key Interactions between the environmental aspects and the project.
3. Identify environmental impacts in relation to key environmental aspects,
4. Propose proper mitigations measures to prevent or minimize those impacts.
5. Development of management and monitoring plan.

Team Leader for the study:

In-depth Analysis of Priority Constraints for Implementing the three Rio Conventions & Development of a National Capacity Building Action Plan (40 days consultation, UNDP)

The responsibilities of the Consultant are as follows:

- 1- Review the five stocktaking reports produced by the first phase of the project.
- 2- Develop a detailed procedural workplan and timeframe for the performance of the consultants' team tasks.
- 3- Supervise and manage the team performance, designate duties and responsibilities to members as stipulated by the TORs of the team members.
- 4- Identify, with cooperation from team members the key stakeholders to be included in the capacity assessment and logical framework analysis process.
- 5- **Develop the methodology for the Logical Framework Analysis, Capacity Assessment and NCSA Action plan in coordination with the relevant experts assigned to these tasks.**
- 6- Develop the methodology for the preparation of the NCSA action plan using SMART objectives, outputs and outcomes with the relevant experts assigned to these tasks.
- 7- **Develop the proposed projects and programs to be included with the action plan in cooperation with the relevant experts assigned**
- 8- Liaise with national institutions and stakeholders identified to be included in the capacity assessment process.
- 9- Final editing of the in-depth analysis report and the national capacity development action plan

National consultant: Assessment of Jordan's Plant Breeding and Biotechnology Capacity project, Food and Agriculture Organization (FAO).

The responsibilities of the Consultant are as follows:

1. To collect information on resources allocation for plant breeding and biotechnology from the public and private sector in **Jordan**, following the provided questionnaire;
2. To apply the questionnaire to **all public and private plant breeding programs** in the country (one questionnaire for each institution/organization);
3. To visit the facilities and collect the questionnaire information;
4. To submit to FAO a hard copy of each questionnaire with the complete dataset;
5. To prepare a written report with description and interpretation for each questionnaire;
6. To prepare a written final report aggregating and interpreting all answers from all questionnaires to provide national plant breeding capacity;
7. To prepare a short document advising policy makers on strategies to strength national plant breeding capacity and possible alternatives to implement them;
8. To assist FAO in the preparation of the country profile publication.

National Consultant: Status and future prospective of national polices that enable and inhibit the sustainable use of underutilized plant species for food and agriculture in Jordan, Food and Agriculture Organization (FAO).

The responsibilities were including the following:

1. Review and analysis of polices and legislations related to underutilized plant species for food and agriculture.
2. Analyze the existing polices, strategies and legislations and Determine the policy and legislation gaps.
3. Suggest options for policy and legislation to promote conservation and sustainable use of underutilized species.
4. Test the suggested options with farmers and decision makers and discuss these options with different stakeholders.
5. Test options with local communities and decision makers.
6. Draft final report: workshop for final report discussion.

Biodiversity Thematic Group leader: GEF/UNDP project National Capacity Self Assessment for Global Environmental Management of the three Rio-Conventions (NCSA), UNDP/ Ministry of Environment.

The consultant task was including the following:

1. Conduct a thorough review of the decisions and obligations of the international treaty related by reviewing proceedings of the implementation and other treaty mechanisms.
2. Review the guidance related to capacity development issues by the COPs of the treaty.
3. Conduct a thorough review of the obligations, commitments to these obligations, institutional framework, legislation and capacity for implementing the treaty in Jordan.
4. Review of the national enabling environment for implementing the treaty, including legislative and institutional frameworks, human and knowledge resources, and natural and physical infrastructure.
5. Provide a brief description of the initiatives and actions taken to meet the obligations at the national level;
6. Provide a brief assessment of previous capacity development efforts in Biodiversity in Jordan including GEF supported enabling activities.
7. Identify current constraints and potential opportunities for capacity development within the framework of treaty.
8. Identify global initiatives and partnerships emerging from the treaty and their mechanisms of support and implementation.
9. Develop a list and description of main capacity constraints and potentials related to treaty themes.

Steering committee member: Biodiversity Strategy and Action Plan (BSAP),. General Corporation for Environment Protection (GCEP), Amman, Jordan.

Responsibilities of the committee:

1. Study the TOR and approve the implementation plan of the project.
2. Approve the TOR's for local and national consultants.
3. Approve the progress and final reports.

4. Determine the general frame of the strategy and action plan.
5. **Approve the final draft of the strategy and the list of projects including in the action plan.**

Technical Committee Member: Biodiversity Strategy and Action Plan (BSAP), General Corporation for Environment Protection (GCEP), Amman, Jordan.

Responsibilities:

1. Draft the TOR's for the national and the international consultants of the project.
2. Study the C.V's and select the consultants.
3. Determine the strategy themes and the action plan projects.
4. Review the themes of the strategy and the projects of the action plan before it approved by the steering committee.
5. Provide training to consultants on Logical Frame Analysis and project formulation.

International Consultant: The Strategy for Biodiversity Utilization in Bahrain, ARAB ORGANIZATION FOR AGRICULTURAL DEVELOPMENT (AOAD)

The Job description of this position can be summarized as follows:

1. To study the current status of biodiversity in Bahrain Kingdom.
2. To determine the threatening factors affecting Biodiversity.
3. Study the different uses of plant biodiversity biodiversity.
4. Draft a strategy and action plan for biodiversity conservation and sustainable use.

Other professional Activities:

Graduate Research Assistant,
1989-1992. Agronomy Department/Iowa State University, Ames, Iowa, USA.

Teaching and Research Assistant,
1987-1989. Faculty of Agriculture, Jordan University of Science and Technology, Irbid-Jordan.

Research Assistant,
1986-1987. Faculty of agriculture, University of Jordan. Forage production project, Amman-Jordan.

Graduate Research and Teaching Assistant,
1984-1986. Faculty of Agriculture, University of Jordan, Amman-Jordan.

Founder and participant in the Establishment of MENA Network for women capacity building through ICT.

**Biodiversity group leader, Jordan National Agriculture Five Year Strategy
Agriculture Ministry.**

**A member in the regional group of Arab Network of Sustainable Livelihood in
Drylands (SLD-Arab).**

**Genetic Resources National Committee, 2005 - present. member. NCARTT,
Amman, Jordan**

**Genetic Resources National Committee, 2000 - 2005. Rapporteur. NCARTT,
Amman, Jordan**

The Biodiversity Unit, member. Forestry Department, Amman-Jordan.

**The Council of the National Agro-biodiversity Project, member. NCARTT,
Amman-Jordan.**

**Hulled Wheat Genetic Resources Network, Member. International Plant Genetic
Resources Institute. Rome, Italy.**

**Neglected Plant Genetic Resources Network of the Mediterranean Region,
Member. November, 1996-1999. National Research Council, Italy.**

**In-situ conservation working group, CWANA Region, member. International Plant
Genetic Resources Institute, CWANA Regional Office, ICARDA, Syria**

**Department Scientific Committee, chair 9/1996-9/1999. Department of Plant
Production, Jordan University of Science and Technology, Irbid-Jordan**

**Faculty Social Committee, Chair. 9/1996-9/1999. Faculty of Agriculture, Jordan
University of Science and Technology, Irbid - Jordan.**

**Faculty Board Secretary, 9/1996-1998. Faculty of Agriculture, Jordan University of
Science and Technology, Irbid-Jordan.**

**Department Board Secretary, 9/1994- 9/1995. Department of Plant Production,
Jordan University of Science and Technology, Irbid-Jordan.**

**Biotechnology Committee, Member. 3/1993-8/1995. Jordan University of Science
and Technology, Irbid-Jordan.**

**University Faculty Member, 1/1992-Present. Jordan University of Science and
Technology, Irbid- Jordan.**

**University Board, Member.9/1992-9/1993. Jordan University of Science and
Technology, Irbid-Jordan.**

**Department Social Committee, chair. 1/1992-9/1995. Department of Plant
Production, Jordan University of Science and Technology, Irbid-Jordan.**

Teaching Experience (Primary Responsibility)

Plant Production 402 (Plant breeding) 1984-1986. University of Jordan.

Biology 321 (Plant Biology). 1992. Jordan University of Science and Technology. Irbid-Jordan.

Agriculture Science 313 (Bio-statistics). 1/1992-Present. Jordan University of Science and Technology. Irbid-Jordan.

Agriculture Science 300 (Practical Training in Agriculture). 1992-1999. Jordan University of Science and Technology. Irbid-Jordan.

Agriculture Science 314 (Seed Science and Technology). 1992 - 1999. Jordan University of Science and Technology. Irbid-Jordan.

Agriculture Science 411 (Plant Breeding). 1992-Present. Jordan University Science and Technology.

Agriculture Science 205 (Introduction to plant science). 1994-present. Jordan University of Science and Technology.

Agriculture Engineering 305 (Field crop. 1994). Jordan University of Science and Technology.

Plant science 715 (Graduate course, Advance plant breeding). 1996- present. Jordan University of Science and Technology.

Plant science 714 (Graduate course, Plant genetic resources). 2005- present. Jordan University of Science and Technology.

Proposals Submitted:

2010 **Morphological characterization and evaluation of pomegranate landraces from Northern region of Jordan.** Jordan University of Science and Technology. Jordan

2007 **Adaptation to Climate Change to Sustain Jordan's MDG Achievements.** For UN country team. (4, 000,000 USD.)

Morphological characterization and evaluation of Fig landraces from Northern region of Jordan. Jordan University of Science and Technology. Jordan.

2000 **Propagation and Conservation of Black Iris (*Iris nigricans*):** The National Flower of Jordan. The Higher Council of Science and Technology.

1998 **Evaluation and Utilization of cereals crops for dual purpose under rainfed conditions of Jordan.** JUST and Jarash Universities:

1996 **Utilization of oak fruit for food and feed.** Jordan University of Science and Technology. Jordan.

1996 **Evaluation of introduced potato lines under local conditions.** Jordan

- University of Science and Technology. Jordan.
- 1996 **Introduction and utilization of wild spontaneous barley for animal feed.** Jordan University of Science and Technology. Jordan.
- 1996 **Conservation and utilization of rangeland plant species in north Badia.** Jordan University of Science and Technology.
- 1995 **Characterization of Almond Germplasm and Development of In Vitro collection of wild and Domesticated Almond Germplasm from WANA Countries".** Jordan University of Science and Technology. Jordan and International Plant Genetic Resources Institute (IPGRI). In Cooperation With IPGRI WANA Regional Office"
- 1995 **DNA fingerprinting of Jordanian wheat landraces using PCR.**Jordan University of Science and Technology. Jordan.
- 1994 **Evaluation of the Introduced Mott Grass Genotypes Under the Jordanian Conditions.** Jordan University of Science and Technology. Jordan.
- 1993 **Biodiversity study of Plant Species in Jordan.** Jordan University of Science and Technology, Jordan.
- 1992 **Rate and Duration of Grain Filling in Durum Wheat Landraces Under Dry Conditions of Jordan.** Jordan University of Science and Technology. Jordan..
- 1992 **Salt tolerance of in vitro grown apple rootstocks.** Jordan University of Science and Technology. Jordan.
- 1992 **Production of potato minitubers via tissue culture.** Jordan University of Science and Technology. Jordan.
- 1992 **Production of tomato seedlings via tissue culture.** Jordan University of Science and Technology. Jordan.
- 1992 **Production of cucumber seedling via tissue culture.** Jordan University of Science and technology. Jordan.
- 1989 **Evaluation of Three Methods of Lodging Resistance".** Iowa State University, IA, U.S.A. " Ph.D. thesis proposal.
- 1984 **Inheritance and heritability of 15 physio-morphological traits in Wheat crosses under Jordanian conditions.** University of Jordan. M.Sc. thesis proposal.

Major Fund Received

- 2000 10,000 JDs (The Higher Council of Science and Technology: Proagation and Conservation of Black Iris (*Iris nigricans*): The National Flower of Jordan).
- 1995 10,000 JDS "Characterization of Almond Germplasm and Development of in Vitro Collection of Wild and Domesticated Almond Germplasm from WANA Countries in Cooperation With IPGRI WANA Regional Office".
- 1994 10,000 JDS (Biodiversity of Cultivated and Wild Plant Species in Jordan). The Higher Council of Science and Technology.
- 1993 23,000 JDS (Different projects From The Deanship of Research at Jordan University of Science and Technology).

1993	79,400 JDS (Production of Disease-free Vegetable Seeds and Seedling via Tissue Culture). Ministry of Agriculture.
1993	29,000 JDS (Joint fund for the above mentioned project. The Higher Council of Science and Technology).
1992	10,000 JDS (Characterization of durum wheat landraces collected from Jordan (IPGRI).

Research and Development Experience.

Foresight and Strategic Planning.

Food security and poverty alleviation.

Experience in Climate change and Environmental Impact Assessment Studies.

Project Management (Project document development, management, monitoring, and evaluation).

Problem analysis, Logical Frame Analysis, and Action plan development.

Experience in Public awareness, participatory approach, Local community studies & capacity building.

Wide Understanding and Experience in Plant Genetic Resources Conservation, Characterization, Evaluation and Utilization.

Develop and reform policies and legislation related to food security and environment issues.

Field skills such as evaluation of cereal plants for yield and yield components, measurements of some morphological characteristic, field plot and planting techniques.

Greenhouse skills such as crossing of field crops, wheat and barley, Production of Micro-tubers of potato,

Lab. Skills such preparation of media for micropropagation and tissue culture, sub culture of plantlets.....etc.

Journal Publications

Papers:

1. Ajlouni. M.M, Kruse, A. Jorge A. Condori-Apfata, Valencia, M.V, Hoagland, C., Yang Y and Mohammadi. M.m 2020. Growth Analysis of Wheat Using Machine Vision: Opportunities and Challenges. Sensors 20: 6501.

2. AL-Ajlouni, Z, AL Ajlouni, M.M, Shatnawi, M. Shibli, R., Makhadmeh, I., Abu Roman, S and Al - ghzawi. A., 2012. Callus induction, plant regeneration, and growth in barley (*Hordeum vulgare* L.) South Western Journal of Horticulture, Biology and Environment Vol.3 (1): 25 – 39.
3. Al-Ghzawi, A., Bsoul, E., Aukour, F. Al-Ajlouni, Z., Al-Azzam, M., and Ajlouni, M.M. 2011. Genetic Variation For Quantitative Traits In Jordanian Lentil Landraces. *Advances in Environmental Biology* 5(11): 3676 – 3680.
4. **Ajlouni, M. M.**, A. A. Al-Ghzawi, and H. Z. Ghosha. 2010. Inheritance of grain filling rate and duration, and yield components in five-durum wheat crosses. *International Journal of Plant Breeding*. 5(1): 21-24.
5. **Ajlouni, M.**, A. El-oqlah, A. Amri, and S. Goussous. 2010. Conservation of crops' wild relatives in two contrasted areas in Jordan: Current status and rehabilitation options. *Journal of food, Agriculture & Environment*. 8 (1): 234-239.
6. **Ajlouni, M.M.**, A. Amri, R. Assi and Y. Sbeih and A. Saad. 2010. Technological Options for Promoting On-Farm Conservation of Landraces of Cereals and Legumes Grown in West Asia Region. In: *The Proceedings of the International Conference on "Promoting Community-driven Conservation and Sustainable Use of Dryland Agrobiodiversity"*. PP 366-375.
7. **Al-Ajlouni1, M. M.**, Abdul Latief A. Al-Ghzawi and Abdel Rahman Al-Tawaha. 2010. Crop rotation and fertilization effect on barley yield growth in arid conditions. *Journal of Food, Agriculture & Environment*. 8 (3&4) : 8 6 9 - 8 7 2.
8. **Ajlouni. Mohammad M.**, A. Oqleh, Abdul Latief A. Al-Ghzawi, Abdel Rahman Al-Tawaha, and Ahmed Amri. 2009. Diversity and *in situ* conservation of legume species in the Mediterranean ecosystem. *Jordan Journal of Agriculture Sciences*. 6 (2): 183-193.
9. Abdel Rahman Al-Tawaha, David L. McNeil, Shyam S. Yadav, Munir Turk, **M. Ajlouni**, Mohammad S. Abu-Darwish, Abdul Latief A. Al-Ghzawi, M. Al-udatt, and S. Aladaileh. 2010. Integrated Legume Crops Production and Management Technology. In: *Climate Change and Management of Cool Season Grain Legume Crops* (ed.) by Shyam S. Yadav, David L. McNeil, Bob Redden, and S.A. Patil. PP 325-349. Springer Science+Business Media
10. Abdelali-Martini, M. A. Amri, **M. Ajlouni**, R. Assi, Y. Sbieh, A. Khnifes. 2008. Gender dimension in the conservation and sustainable use of agro-biodiversity in West Asia.2008. *The Journal of socio-Economics* 37:365-383.
11. Al-bakri, J. T., **M. Ajlouni**, M. Abu-Zanat. 2008. Incorporating Land Use Mapping and Participation in Jordan.2008. *Mountain Research and Development* 28:49-57.
12. Duwayri, M., H. Migdadi, M. Sadder, O. Kafawin, **M. Ajluni**, A. Amri, M. Nachit. 2007. Use of SSR Markers for Characterizing Cultivated Durum Wheat and its Naturally Occurring Hybrids with Wild Wheat. *Jordan Journal of Agricultural Sciences* 3, no.4.

13. Rawashdeh, N. K., N. I. Haddad, M. **M. Al-Ajlouni** and M. A. Turk. 2007. Phenotypic diversity of durum wheat (*Triticum durum* Desf.) from Jordan. *Genetic Resources and Crop Evolution* 54:129–138.
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Case Studies

A study of the Biodiversity of Cultivated and Wild Species in Jordan. 2000.

Best practices for conservation and sustainable use of biodiversity in arid and semi arid zones , example : Dana Natural Reserve. 2002.

Conferences Attended Or Organize

IV. International plant breeding Congress: Plant breeding for future; from local to Global. 2022. Antalya, Turkey.

GCARD3: 3RD GLOBAL CONFERENCE ON AGRICULTURAL RESEARCH FOR DEVELOPMENT, 2016 Johannesburg, South Africa

Organizer of the International Conference OliveBioteq, 2014 , Amman, November 3-6.

Organizer of AARINENA 13th General Conference and the International conference on Water Management, Use efficiency, and productivity in the NENA Region. Izmir, Turkey, 29 September – 2nd of October, 2014.

GCARD 2 Shaping the future of Agriculture and food together. 2012 Pointe De Easta, Uruguay.

G20 Agricultural Chief Scientists Meeting, 2012 Walaghara, Mexico

2nd International Conference "Women, Science and Development". Aden University. 12-16 Nov. 2009.

Organizer of the Arab Women in Academic Sciences and Technology: Towards Sustainable Development, Jordan University of Science and Technology Irbid Jordan, April 28-30 2008.

Sustainable Development of Agricultural Resources and Food Security Conference. Tishreen University. 27-30. November, 2006

1st International Conference "Women, Science and Development". Aden University. 12-14 Dec. 2005.

Organizer of the Conference on promoting community-driven conservation and sustainable use of dryland agro-biodiversity. 18-21 April, 2005. Aleppo- Syria.

The Forum of 5th IUCN Regional Conservation Forum for West Asia, Central Asia and North Africa (WESCAN) Region, 5-7 April 2004, Amman, Jordan.

An International Conference on Implementing Programs to Conserve Biodiversity in Arid and Semi-Arid Regions in Developing Countries. 27 - 30 August, 2003. Rabat, Morocco.

An international conference on "Promoting Best Practices for Conservation and Sustainable Use of Biodiversity of Global Significance in Arid and Semi-Arid Zones", 14-17 December 2002, Cairo, Egypt.

Organizer of the The second Jordanian environmental conference
"Environmental Culture and Sustainable Development" held at Amman 1-3
April 2002

The second national conference on "Establishing the National Biodiversity Strategy and Action Plan" conducted by Biodiversity Strategy and Action Plan Project (BSAP) during the period 25 - 26 November 2001 at Amman, Jordan.

The 4th international Triticeae Symposium 10-12 Sept. 2001 Cordoba-Spain

The first national conference on "Establishing the National Biodiversity Strategy and Action Plan" conducted by Biodiversity Strategy and Action Plan Project (BSAP) on 19 August 2001 at Amman, Jordan.

The Syrian - Lebanese Research Days "2001", Symposium on " Diversity of Eco-systems & genetic Resources in Syria and Lebanon" Damascus - Syria, 4 - 5 Feb. 2001.

World Conservation Congress, Amman - Jordan (Amman 2000) organized by the World Conservation Union (IUCN), 4 - 11 October 2000, Amman-Jordan.

The second Arab Conference" the role of the scientific research in the conservation of biodiversity in Arab countries", 15-17/5/2000, Tunis.

CGIAR/NAS international conference on Biotechnology, Oct. 21-22,1999, Washington.

6th international Conference on the Development of the Dry Lands, 22-27/8/99, Cairo.

Third International Triticeae Symposium.4-8 May 1997. ICARDA. Aleppo, SYRIA.

Symposium on "Biotechnology: Present and future perspectives in Jordan". April 5. 7-9, 1997. AlEl-beid University, Mafraq, Jordan.

International conference on "Past, Present, and Future of the desert in Middle East", July 29- August 1, 1996. Yarmouk University.

Fourth Jordanian scientific weeks, August, 1996. Amman, Jordan.

Third Jordanian scientific weeks, August, 1995. Amman, Jordan.

First In situ conservation group meeting of West Asia and North Africa Plant Genetic Resources network. 1994. Izmir, Turkey.

The Second Arab Biotechnology Conference. October 16-19, 1992. Amman-Jordan.

American Society of Agronomy Meetings. 1991. Denver, Colorado , U.S.A.

American Society of Agronomy Meetings. 1990. San Antonio, U.S.A.

Workshops and Training Courses Attended

- 1. Foresight and Strategic planning training, Global Forum of Agriculture Research (GFAR)/ AARINENA. Hammamet – Tunisia, May, 2016**
- 2. Project Management Professional (PMP), Pioneer Training Center, Amman – Jordan, 2015**
- 3. Workshop in Gender Research in MEANA into ICTs for Empowerment Aden, Yemen.**
- 4. Plant Variety Protection under the UPOV convention and its relationship with the international treaty on plant genetic resources for food and agriculture.** Organized by UPOV in cooperation with the Ministry of Jihad-e-Agriculture of the Islamic Republic of Iran, FAO and ICARDA. Karaj, Iran, May 8 to 10, 2005.
5. The Status of Implementing Biodiversity Strategy and Work plan in Arab World, 16-17 Jan. 2004, Damascus, Syria.
- 6. Monitoring, Evaluation and Impact Assessment of R&D Investments in Agriculture. 8 – 19 Sept. 2003. Pretoria - South Africa.**
7. Monitoring, evaluation and impact assessment, 13-14 July 2003. ICARDA office - Amman.
- 8. Intellectual Property (IP) Management in Agriculture. 23 – 25 June 2003.** Aleppo – Syria.
- 9. Management of Natural Habitats. 25 - 27 May 2003. Aleppo - Syria.**
10. A Eco-geographic Data Management, 28 - 29 May 2003, Aleppo - Syria.
11. The Arab Forum on "Arab Environmental Security" 9 - 10 Oct. 2002. Iraq
- 12. A training module testing workshop on "Law and Policy of Relevance to Plant Genetic Resource Management" 24 – 28 July 2002. Nairobi.**
13. The role of media in promoting biodiversity conservation workshop organized by the Biodiversity Strategy and Action Plan Project, 11-12 April 2001
- 14. Logical Framework Assessment (LFA) workshop, on 18 & 20 April 2001, ICARDA, Aleppo - Syria.**
15. Impacts of Climate Change and Grazing upon Desertification 29th - 30th May, 2000, Yarmouk University, Jordan.

16. Coordinator of the workshop on "Analysis of Agricultural experiments", June, 1996. Jordan University of Science and Technology, Irbid, Jordan.
17. First international workshop on neglected plant genetic resources. Species NOV. 7-9, 1996. Nepal, Italy.
18. First international workshop on Hulled wheat, 21-22 July, 1995, Tuscany, Italy.
19. **DNA fingerprinting techniques. July 1 - August 27, 1994. Frankfurt University, Germany.**
20. Plant Tissue Culture. Sept. 15. 1994. Amman (Higher Council of Science and Technology).
21. Plant Tissue Culture. Sept. 24-28. 1994. Irbid, Jordan University of Science and Technology. (*Organizer and Lecturer*).
22. **Applications of Biotechnology in Agriculture for Arid Regions Development. Jordan Badia R & D Program Center, Safawi 15-18/11/1994.**
23. Vegetables seed technology and production. March 22-23, 1992. Amman-Jordan.
24. **DNA molecular marker techniques. September 22 to October 1, 1992. ICARDA. Aleppo, Syria.**
25. Germplasm resources of forage and range crops. March 21 to May 11, 1988. ACSAD, Damascus, Syria.
26. Germplasm evaluation: Cereal landraces and wild relatives. May 10-21, 1987. ICARDA, Aleppo, Syria.

Committee Member on Thesis Examination for 14 different students at Jordan University of Science and Technology, University of Jordan, and Alalbayt University.

Supervisor or Co-advisor on Thesis for 10 students at Jordan University of Science and Technology.

References

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Application letter

Dear Sir/Madam

I am interested in your post: Chief Scientist. Currently I am A professor at Jordan University of Science and technology/ Faculty of Agriculture. I was working as Visiting Scholar at Purdue University within the wheat breeding team at the Agronomy Department during 2019. Before that, I was working as Executive Secretary for the Association of Agriculture Research Institutions in Near East and North Africa (AARINENA). During this work I was working with all research institutions in the Near East and North Africa developing national research strategies and coordinating research activities among the region. I build a good relationship with all partners in the region, specially the NARS, Farmer organizations, International and regional organizations and NGO's. I also work in the frame work of South-North dialogue on rural development for three years where we identify the needs of the Rural Communities in the region and we discuss the most relevant activities that will

promote the Rural Agriculture Development that lead to increase income and employment of the youth and women at the Rural communities which gave me the chance to work with other professionals such as social economic, and gender experts.

My previous work history was as follows:

- Project Management Advisor for the Food Security and Poverty Joint Program United Nation Development Program (UNDP) and the Ministry of Agriculture.(Jan.2011-Jan. 2012).
- Associate professor of Plant Breeding and Genetics at Jordan University Sci. and Tech. in Jordan. (Jun. 2005 and Jan. 2011).
- From 1999-2005, I was seconded to UNDP as a project manager for the project Conservation and Sustainable Use of Dry Land Agro-Biodiversity in Jordan. It was supported by GEF and Implemented in four countries (Jordan, Lebanon, Palestinian Authority and Syria) and coordinated regionally by ICARDA. In this project, I was working with decision makers, scientific community, and NGO's on knowledge management, policy, and technical issues related to the sustainable management and use of crops biodiversity for income generating and livelihood improvement of Rural Communities. During the six years of the project life we concentrated on providing technical and advisory assistant to farmers to establish their own breeding programs as participatory breeding programs for field crops, especially wheat and barley.
- In addition to that, I was preparing plans, budgets, reports, and evaluating and monitoring the farmers S &M enterprises.

During the last period (2005-2011) I was involved also in providing some consultations for international and national projects including:

1. National Capacity Self Assessment (NCSA) project to implement the three Rio Conventions. UNDP- Jordan.
2. Mid-term Evaluation Team Member for Biodiversity Conservation and Protected Area management. UNDP / GCEA/Syria.
3. Preparing the concept note and the full proposal document for the UN- CT Joint project "Adaptation to Climate Change to Sustain Jordan's MDG Achievements". UNDP.
4. Self Assessment of National Capacity Building Needs in Syria. UNDP/GCEA/Syria.
5. In-depth Analysis of Priority Constraints for Implementing the three Rio Conventions & Development of a National Capacity Building Action Plan. UNDP/Libya and Jordan.
6. Environmental Impact Assessment study for Four projects in Jordan.
7. Consultant for the project: Assessment of Jordan's Plant Breeding and Biotechnology Capacity, FAO.
8. Consultant for the project: Status and future prospective of national policies that enable and inhibit the sustainable use of underutilized plant species for food and agriculture in Jordan, FAO.

In most of my consultations I was working with capacity building; outreach and awareness programs and preparation of project documents and project evaluation. I was working with national partners, project leaders, national leaders, donors, national authorities and other CG centers in the region.

In all of the above activities, I did a lot of work in scientific assessments and knowledge networking. I contribute a lot in knowledge dissemination and exchange nationally and regionally. I participate in preparing for national and regional workshops, seminars, and conferences. In addition to that I attended very specialized international training courses related to these agreements such as:

1. A training workshop on “Monitoring, Evaluation and Impact Assessment or R&D Investments in Agriculture”. 8 – 19 Sept. 2003. Pretoria - South Africa.
2. A training module testing workshop on "Law and Policy of Relevance to Plant Genetic Resource Management", with special concentration on Exchange of Plant Materials. 24 – 28 July 2002. Nairobi.
3. I had a training course in Project management and a prince II certificate on project management from UNDP.

I like to inform you that my instruction in all of my BSc., MSc. and Ph.D studies was in English and my teaching also is in English which gave me the ability to communicate effectively with all levels of audiences. I deal with computers since 1983, I master many programs included word processing, database, and internet.

More Detail and References are in my attached C. V. Please don't hesitate to ask other related questions if needed.

Best Regards.

Mohammad M. Ajlouni