**Curriculum Vitae**

**Mahmud Duwayri**

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| **Personal Data** | Name : Mahmud Ayed Mohammad DuwayriDate of birth : April 12, 1946Place of birth : Kitm-JordanNationality: Jordanian |
|  **Permanent Address** | P.O. Box 264 Amman 11941 JordanPhone: 962 6 5151129, Mobile: 962 79 5222233, Fax: 962 6 5151388E-mail : duwayri@ju.edu.jomduwayri@tahoo.com |
| **Education** | **1973:** PhD in plant breeding and plant genetics. University of Wisconsin, Madison, Wisconsin,USA.**1970:** M.Sc. in Agronomy; Weed Control.American University of Beirut, Beirut, Lebanon **1968:**  B.Sc. in Agriculture; Soils and Irrigation.American University of Beirut, Beirut, Lebanon  |
| **Professional experience** | **September2010:** Professor, Faculty of Agriculture, University of Jordan Amman, Jordan.**June 2009–August 2010:**President, Ajloun National University,Jordan on leave from University of Jordan.**September2002 -** Professor, Faculty of Agriculture, University of Jordan, Amman, Jordan. Work included teaching graduate courses in plant breeding, plant genetic resources and sustainable agriculture and supervising graduate students' research.**March 2004–March 2012** , Founder and Editor in Chief, Jordan Journal of Agricultural Sciences (An International Refereed Journal issued by Higher Scientific Research Committee of the Ministry of Higher Education and Scientific Research and Deanship of Academic Research, University of Jordan).**2005-2007,**participated in the global meetings on the **International Assessment of Agricultural Knowledge, Science and Technology for Development** (**IAASTD**). An author of the global report andan author of the report of Central & West Asia & North Africa.**June 2001- September 2002: Minister of Agriculture, Jordan**.**January 1998-June 2001:** Director, Plant Production and Protection Division, Food and Agriculture Organization of the United Nations, Rome, Italy.**January 1996-December 1997:** Vice President, Jordan University for Science and Technology, Irbid., Jordan.**September 1994-January1996**: Professor, Faculty of Agriculture, University of Jordan, Amman, Jordan. **September 1992-September 1994:** Director General, the National Center for Agriculture Research and Technology Transfer (NCARTT). Amman-Jordan.**August 1990- September 1992:** Dean, Faculty of Agricultural Sciences. United Arab Emirates University, AlAin, United Arab Emirates.**August1989- August 1990:** Professor, University of Jordan. Amman.**October 1984-August August 1989:** Dean, Faculty of Agriculture. University of Jordan, Amman, Jordan.**September1982-October 1984:** Chairman, Department of Plant Production and Protection and Deputy Dean, Faculty of Agriculture, University of Jordan.**September 1980- August 1981:** Visiting Scientist, Washington State University, Pullman, Washington. USA.**August 1973- September 1980:** Assistant Professor and Assistant Dean (September 1976-September 1980), the Faculty of Agriculture, University of Jordan.**Boards and Committee Memberships****January 2013-**Member of Jordan National Commission for Education, Culture and Science.**September 2012 –** Member of the Board Of Directors of the National Agricultural Research and Extension (NCARE), Jordan.**October 2010**, Member of Al Albeit University Board of Trustees. Al Mafraq Jordan **April 2010**:Member of the Science AdvisoryCouncil for the execution of the Arab Encyclopediaof Life Project Bibliotheca Alexandrina,Egypt.**August 2010** – Appointed by United Nations Compensation Commission (UNCC) as Independent Reviewer for Jordan Badia Restoration Program.**January 2009- March 2011**, Member of the Board of Directors of Arab Centre for Genetic Engineering & Biotechnology, AlAin, United Arab Emirates.**May 2007**: Member of the expert group on Standard Material Transfer Agreement (SMTA) of the International Treaty on Plant Genetic Resources for Food and Agriculture.**October 2007- October 2011**.Member of the Board of Directors of the Global FoodBanking Network (GFN), Chicago, USA.**January 2012**: Appointed Ambassador by GFN.**October 2004-** Member of the Board of the Jordan Alliance Against Hunger.**January 2003 – December 2008**: Member of the Food Security Group of the Arab Organization of Agricultural Development.**2005-2008:** Member of the International Assessment of Agricultural Knowledge, Science and Technology for Development (IAASTD) International agricultural Assessment.**January 1998- June 2001**: Member, Board of Trustees, the International Plant Genetic Resources Institute (IPGRI), Rome, Italy.**1993-1998:** Member, Consultative Scientific Committee, Arab Atomic Energy Organization, Tunisia.**1996-1997**: Board Member, the Environment Protection Council, Jordan. **1993-1994**: Member, Executive Committee, the Association of the Agricultural Research Institutions in the Near East and North Africa (AARINENA).**1992-1996**: Member, Scientific Committee, International Potash Institute, Basel, Switzerland.**1984-1989 and 1993-1997**: Council Member; the Council of Water, Environment Research and Study Center; University of Jordan, Amman, Jordan.**1985-1989**: Member, General Education Council, Ministry of Education, Jordan.**1984-1989**: Member, Higher Council for Agriculture, Jordan.**1992-1994**: Chair of the National Steering Committee on Agriculture Research and Technology Transfer, Jordan.**1996-1997**: Member, Higher Education Development team, Jordan.**2001-2002**: President, Higher Council for Agriculture,Jordan. |
| **Additional professional activities** | Worked as a consultant for several regional and international agencies in the fields of agriculture development and policy, food security, sustainable agriculture, agribiodiversity, plant genetic resources, Clinate change ,Environmental aspects, scientific research and higher education development and Cooperated and is acquainted with the CGIAR Centers mainly ICARDA, ISNAR, CIMMYT and IPGRI.Represented the Middle East and North Africa Region in several scientific commissions and agricultural fora.Participated in numerous workshops and conferences in my capacity as a scientist, administrator, policy maker and cabinet minister. |
| **Awards received** | **April 2013, Recipient of the Philadelphia University award for the best authored book. The book is in Arabic Language on plant genetic resources and their conservation .****2004:** Order du MeriteAgricole (de Commandeur) from the Government of France**.** **2002:** Award from the Faculty of Agriculture and Food Sciences (FAFS) at the American University of Beirut on the Occasion of FAFS’ 50th Anniversary.**2002:** Certificate of Appreciation from the International Center for Agricultural Research in the Dry Areas (ICARDA) on the Occasion of ICARDA’s 25th Anniversary.**1990:** Award from the Arab Organization for Food Industry for the distinguished research on wheat.**1989:** Recognition Certificate by the W.K. Kellogg Foundation and Michigan State University for being a Kellogg International Fellow in Food Systems during 1986-1989.The fellowship program was for g 30 scientists from around the world for a leadership program in food systems.**1987:** Order du MeriteAgricole (officier) from the Government of France.**1985:** King Hussein Fund for Development Award for the study: *Analytical Study About Possibilities of Increasing Wheat and Forage Production in Jordan*.**1980-81:** Fulbright Fellowship for Social Sciences. |

**List of Publications for Professor Mahmud Duwayri**

1. Dura, Susan, M. Duwayri, M.M.Nachit, 2013. Detection of molecular markers associated with yield and yield components in durum wheat (Triticum turgidum l. var. durum Desf.) under drought conditions. African journal of Agricultural Research. Vol. 8 (19) pp.2118-2128
2. Duwayri, Mahmud, Rida Shibli, and Mohamed Shatanawi. 2012. Plant Genetic Resources and Their Conservation (A book in Arabic) .University of Jordan Press,Amman,Jordan

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1. Shibli, R.A, Mahmud A. Duwayri, Jamal S. Sawwan, Mohamad A. Shatanawi, and Tamara, S. Al-Qudah. 2012.Regeneration via somatic embryogenesis of the endangered wild arum(*Arum palaestinum*).In Vitro Cellular and Developmental Biology-Plant, **48: 335-340**
2. Musallam, M. Duwayri, R. Shibli, F. Alali. 2012. Investigation of Rutin Content inDifferent Plant Parts of Wild Caper (*Capparisspinosa* L.) Populations from Jordan. Research Journal of Medicinal Plant, 6 (1): 27-36.
3. Dura, Susan, M. Duwayri, M.M.Nachit, 2011.Effects of Different Salinity Levels on Growth, Yield and Physiology on Durum Wheat (*triticumturgidum* var. *durum*). Jordan Journal of Agricultural Sciences, 7:519-528.
4. Haddad, Nasri, Mahmud Duwayri, TheibOweis, ZewdieBishaw, Barbara Rischkowsky, Aden Aw Hassan and StefaniaGrando. 2011. The potential of small-scale rainfed agriculture to strengthen food security in Arab countries. Food Security (Suppl 1): S163-S173.
5. Musallam,Iyad, Mahmud Duwayri,and RidaShibli,2011.Micropropagation of Caper (*Capparisspinosa* L.) from Wild Plants. Functional Plant Science and Biotechnology.5 (Special Issue 1): 17-21.
6. Ibrahim Makhadmeh, Siham Al-Lozi, Mahmud Duwayri, RidaShibli and Hussein Migdadi,2010.Assessment of Genetic Variation inWild of*Arum* Species from JordanUsing Amplified Fragment Length Polymorphism(AFLP) Markers. Jordan Journal of Agricultural Sciences.6 (2):224-239.
7. Duwayri, Mahmud,2010, Plant Genetic Resources and its importance in seed production( in Arabic). In the Proceedings of Agriculture (Seed Production), The Fourth Conference on Scientific Research in Jordan (the Refereed papers) 7/11/2009.
8. Mahmud Duwayri.2008.Climate Change and Its Effects on Agriculture and the Possibilities of Decreasing its Effects. Journal of Agricultural Investment(Special Issue in Arabic).Volume 6:51-58.
9. Al-lozi, Siham, Ibrahim Makhadmeh, Mahmud Duwayri, Rida Shibli and Hussein Migdadi. 2008.Assessment of Phenotypic Variation of *Arum* Species in Jordan. Jordan Journal of Agricultural Sciences.4:367-379.
10. Duwayri, Mahmud.2008.Improvement of Technology Transfer in the Near East Region. Proceedings of the Regional Technology Transfer Workshop, Muscat, Oman 14-15 April, 2004.Pp103-107.
11. Duwayri, M. and A. Amri.2008. Enabling Policies and Legislations for Promoting the Conservation of Agro biodiversity. Proceeding of International Conference on "Promoting Community-driven Conservation and Sustainable Use of Dry land Agro biodiversity".  ICARDA, Aleppo, Syria 18-21 April 2005 Pages 550-565
12. Duwayri, Mahmud, Hussein Migdadi, Monther Sadder, Omar Kafawin, Mohammed Ajlouni, Ahmed Amri and MiloudiNachit.2007. Use of SSR Markers for Characterizing Cultivated Durum Wheat and its Naturally Occurring Hybrids with wild Wheat. Jordan Journal of Agricultural Sciences, Volume 3: 398-410.
13. Al-Rababa’h, M, Duwayri, M. Jaradat, A and Kafawin**,** O. 2001. Phenotypic Diversity, Breeding Potential and Sampling Strategies of Wild Emmer Wheat(*Triticumdicoccoides*) from Jordan.Dirasat, Agricultural Sciences 28 (2): 138-145
14. Abdel-Ghani, A. H., M. Duwayri, and O. Kafawin.2001. *Phenotypic Diversity among Wheat Landraces from Jordan, Seedling Characteristics*. Dirasat, Agricultural Sciences 28(1): 1-5.
15. Abdel-Ghani, A. H., M. Duwayri, and O. Kafawin.1999. Phenotypic Diversity among Wheat Landraces from Jordan, Morphological and Developmental Traits. RACHIS. 18(2): 31-38.
16. Duwayri, M., D.V. Tran and V.N.Nguyen .1999. Reflections on Yield Gaps in Rice Production. IRC Newsletters 48: 13-26.
17. Al-Qasem, H., O. Kafawin and M. Duwayri. 1999. Effect of Seed Size and Temperature on Germination of Two Wheat Genotypes.Dirasat, Agricultural Sciences 26 (1): 1-7.
18. Ismail, M., M. Duwayri, M. Nachit and O. Kafawin. 1999. The Effect of Water Stress at various Growth Stages of Durum Wheat *(Triticumturgidum)* Genotypes Derived from Crosses Utilizing Land Race Variety on Yield-Related Characters.Dirasat, Agricultural Sciences 26(1): 65-73.
19. Ismail, M., M. Duwayri, M. Nachit and O. Kafawin. 1999. Effect of Water Stress on Growth and Productivity of Different Durum Wheat Crosses Compared to the Parents.Dirasat, Agricultural Sciences 26(1): 98-105.
20. Ismail, M. I., M. Duwayri, M. Nachit and O. Kafawin.1999. Association of Yield and Drought Susceptibility Index with Morphophysiological Traits Among Related Durum Wheat Genotypes Subjected to Water Stress at Various Growth Stages.Dirasat, Agricultural Sciences 26(2): 198-204.
21. Ismail, M. I., M. Duwayri, M. Nachit and O. Kafawin.1999. Drought Susceptibility Index and Predicted Yield Among Related Durum Wheat Genotypes Subjected to Water Stress at Various Growth Stages.Dirasat, Agricultural Sciences 26(3): 320-328.
22. Al-Qasem, H., O. Kafawin, M. Duwayri and N. Hadidi. 1998. Seed Size and Water Potential Effects on Germination and Seedling Growth of two Wheat Genotypes.Dirasat, Agricultural Sciences 25 (3): 343-349.
23. Snobar, B. and M. Duwayri. 1996. The Role of Universities in the National Agricultural Research Systems of Jordan. In the Role of Universities in the national agriculture research systems of Egypt, Jordan, Morocco, the Sudan and Tunisia. FAO. Rome.
24. Jaradat, M. M. Ajlouni and M. Duwayri. l996. Genetic Resources of Cereals and Wild Relatives in Jordan: revisited. In Plant Genetic Resources of Jordan. Pro-ceedings of National Seminar 2-4 Aug. l994. Amman-Jordan. A.A. Jaradat, editor.
25. Malli, S.H., M.A. Duwayri and M.M. Nachit. l996. Utilization of *Tritium dicoccoides* in grain quality improvement of durum wheat. In Plant Genetic Resources of Jordan. Proceedings of National Seminar, 2-4 August l994. Amman – Jordan. AA Jaradat, editor.
26. Duwayri, M. and M. Syouf. 1996. *Crop* Genetic Resources of Jordan.A report presented to the National Symposium on Biodiversity in Jordan organized by the Corporation for the Environment Protection. Amman- Jordan; Jeune l9, 1996.
27. Duwayri, M. and M. Syouf. 1995. Jordan Country Report on Plant Genetic Resources. Submitted to FAO, Rome.
28. Awad, E.H. Ahmed, Mahmud Duwayri and R.S. Modawi. 1992. Wheat Production in the United Arab Emirates. United Arab Emirates, Journal (in Arabic).
29. Migdadi, H. And M. Duwayri. 1994*.* Evaluation of Several Wheat Genotypes Derived from a Cross Utilizing Land Race Cultivar under Rain fed Conditions.Dirasat.21B (5): 239-255.
30. Abu Blan H. And M. Duwayri. 1992. Reaction of Heat Tolerant Bread and Durum Wheat Lines Grown under Sprinklers to Infection with Powdery Mildew in Jordan Valley. United Arab Emirates Journal. (in Arabic).
31. Duwayri, M., A. Baqaeen, A. Khalefa and N. Fanek. 1992. Constraints of Using Modern Technology in Cereal Production from the Agricultural Leaders Point of View.Dirasat (In Arabic).
32. Abu-Blan, H.A. and M.Duwayri.1989.Field evaluation of fifteen wheat cultivars to infection with black stem rust disease *(Pucciniagraminis f. sp. Tritici*) in Jordan*.*Dirasat.16 (7): 65-75
33. Duwayri, M. and M. Nachit. 1989. Utilization of Durum Wheat *(Triticumturgidum*var*L. Durum) Landraces to Improve Yield and Yield Stability in Dry Areas.* Wheat Information Service. 69:1-4.
34. Abu-Blan H. and M.Duwayri. 1988. Susceptibility of Wheat Cultivars to Infection with Yellow (Stripe) Rust Disease *(Pucciniastriiformis*West.)and its Effect on their Yield*.*Dirasat XV: 133-146.
35. Duwayri, M., C. Eastman, N. Fanek and A. Baqeen. 1988. Adoption of Agricultural Technical Practices by Jordanian Cereal Farmers.Dirasat XV: 7-34.
36. Abu-Blan, H. and M. Duwayri. 1987*.* Reaction of Wheat Varieties to Natural Infection with Leaf Rust Disease under Jordanian Environmental Conditions.Dirasat XIV: 133-145.
37. Shatanawi. M., I. Ghawi, R. Sharaiha and M. Duwayri. 1987. Water Consumption of Wheat and Barley in Jordan Valley.Dirasat XIV (5): 49-67. (in Arabic).
38. Duwayri, M., A.M. Tell and F. Shqaidef. 1987*.* Breeding for Improved Yield in Moisture Limiting Areas: The Experience of Jordan. Drought Tolerance in Winter Cereals. Proceedings of an International Workshop 27-31 October, Capri, Italy. Pp. 163-169.
39. Duwayri, M. 1986. Comparison of Short Wheat with Tall Varieties Grown under Dry-land Conditions. Proceedings of International Wheat Conference held in Rabat, Morocco.
40. Al-Shaladeh, G. and M. Duwayri, 1988. Inheritance of Plant Grain Yield, Flag Leaf Area, Awns Weight and Length in Ten Durum Wheat Crosses Grown Under Dry Land Conditions. RACHIS. Vol. 5, No. 1, pp. 37-42.
41. El-Hurani, M.H. and M. Duwayri. 1986. Policies Affecting Field Crop Production in the Rain-fed Sector. Agricultural Policy in Jordan. Edited by Burrell et al. Published for Abdul HameedShouman Foundation. Amman-Jordan. pp. 55-72.
42. Sunn’a, S., M. Duwayri, B. Hirzullah, Z. Ghousheh, E. Haddain, S. Bani Hani, N. Kathuda and J. Obeidat. 1985. Analytical study about possibilities of increasing wheat and forage production in Jordan. Amman-Jordan.
43. Duwayri, M. 1985. Role of the Faculty of Agriculture, University of Jordan in National Agricultural Research. Potential for Strengthening Agricultural Research in the Middle East. ISNAR. Hague.
44. Duwayri, M. 1985. Farm Systems in Irrigated Areas. The Agricultural Sector of Jordan: Policy and system studies. Edited by A.B. Zahlan. Published for the Abdul HameedShoman Foundation, Amman.pp.126-158
45. Snobar, B., M. Duwayri, N. Haddad and A.M. Tell. 1985. Harvesting and Threshing Losses in Cereal and Legume Crops in Jordan.Dirasat XII: 7-20.
46. Duwayri, M. 1984. Comparison of Wheat Cultivars Grown in the Field under Different Levels of Moisture*.* Cereal Research Communications. 12: 27-34.
47. Obeidat, M., M. Duwayri and A.M. Tell. 1984. Influence of Seeding Rate and Level of Nitrogen Fertilization on Growth and Yield of Durum Wheat under Rain-fed Conditions. Dirasat XI: 91-107.
48. Duwayri, M. 1984*.* Effect of Flag Leaf and Awn Removal on Grain Yield and Yield Components of Wheat Grown under Dry-land Conditions. Field Crops Research. 8(4): 307-313.
49. Duwayri, M., A.M. Tell, S. Arabiat, N. Katkhuda, A.Yagmour, J.P. Srivastava, W.K. Anderson and K. Somel. 1984. Cereal Improvement in the Dry Areas: A Report on the Jordan Cooperative Cereal Improvement Project 1978-1979 to 1982-1983. ICARDA (International Center for Agricultural Research in the Dry Areas). Aleppo, Syria.
50. Duwayri, M. and A. Saghir. 1983. Effect of Herbicides on Weeds and Winter Cereals in Jordan.Dirasat X: 115-122.
51. Duwayri, M. 1983. Selection for Coleoptile Length and Height in Early Generations in Durum Wheat. Proceedings of the Sixth International Wheat Genetics Symposium. Japan. pp. 701-707.
52. Duwayri, M, E. Polle and C.F. Konzak. 1981. Screening of Wheat Genotypes for Drought Tolerance. Agronomy Abstract. P. 10.
53. Jaradat, A. and M. Duwayri. 1981. Effect of Different Moisture Deficits on Durum Wheat Seed Germination and Seedling Growth. Cereal Research Communications. 9: 55-62.
54. Duwayri, M. 1980. Effect of Seeding Date and Rate on Yield and Yield Components of Stork Wheat Grown under Rain-fed Conditions in Jordan.Proceedings of 3rd International Wheat Conference held in Madrid on May 22-June 3, 1980. pp. 407-413.
55. Duwayri, M. 1979. Effect of Sowing Date on Yield of Wheat under Rain-fed Conditions in Jordan.Dirasat VI: 99-108.
56. Duwayri, M., A. Steitieh and T. Thalji. 1979*.* A Study on the Economics of Applying Fertilizers to Different Wheat Varieties Grown under Dry-land Conditions in Jordan.Dirasat VI: 159-169.
57. Duwayri, M., 1978. Effect of Nitrogen Fertilization on Yield and Quality of Grain of Different Wheat Varieties.Dirasat. V: 77-86.
58. Duwayri, M. 1978. Barley Production Improvement Research at the University of Jordan in 1975/1976 Season. In proceeding of The Fourth Regional Winter Cereal Workshop Barley, Amman, Jordan: 24-28 April, 1977. Edited by S. Barghouti, E.E. Sarri, J.P. Srivastava and Chancellor, published by ICARDA and CIMMYT, Vol. 1, Proceedings .pp 41-45.
59. Steitieh, A., M. Duwayri and A. Bakaeen. 1977. A Study on the Economics of Applying Fertilizers and Herbicides to Wheat under Dry land Conditions in Jordan.Dirasat IV: 23-30.
60. Duwayri, M. and I. Saket. 1976. Response of Wheat to Fertilizer in Jordan: Twenty Five Years of Experiments. A report submitted to Ford Foundation published in the Foundation-sponsored series on dry land agriculture.
61. Saghir, A.R., M. Duwayri and W.W. Worzalla. 1971. Influence of Ethephon on Yield and Nutritional Quality of Sugar Beets. IIRB 5(3): 186-189.
62. Saghir, A.R. and M. Duwayri. 1970. The Effect of Herbicide Treatment on the Yield and Nutritional Quality of Sugar Beets in Lebanon. Second International Meeting on Selective Weed Control in Beet Crops. Rotterdam. Netherlands.Vol.1. Proceedings pp. 43-49.