

CURRICULUM VITAE

DR, Hamdino Mohamed Ibrahim Ahmed

1-Personal Data

First Name : Hamdino
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Date and Place of Birth : August 12, 1971, Mansoura, Egypt
Nationality : Egyptian
Gender : Male
Social Status : Married + 3 (born in 2000, 2005 and 2009)
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2-Qualifications

- ✓ 2004 Ph.D. (Vegetable Crops) Faculty of Agriculture, Mansoura University, Egypt (Studies on Germination and Seedling Establishment of Pepper).
- ✓ 1997 M.Sc. (Vegetable Crops) Faculty of Agriculture, Mansoura University, Egypt (Physiological Studies on Summer Squash *Cucurbita pepo*)
- ✓ 1993 B.Sc. (Horticulture) Faculty of Agriculture, Mansoura University, Egypt.

3-Positions Held

1- Expert in Crop Physiology for Horticulture, Rwanda Agriculture Board (RAB), December 2014- June 2015

- Develop an appropriate agronomic/ crop physiology Research Plan for Rwanda,
- Coordinate agronomic research for development in Horticulture Program,
- Implement research projects that meet national priorities,
- Supervise agronomic, crop physiology and management research at RAB,
- Ensure the training of technical staff in agronomic research,
- Ensure timely publication of research / development results and create visibility of RAB in the agricultural sector,
- Ensure scientific mentorship for younger researchers in agronomy /crop physiology in Horticulture program,
- Ensure the training of technical staff from extension agencies including NGOs, farmers' associations and other partners in the sector;
- Strengthen partnership with excellent institutions, laboratories, regional and international organisations in agronomic research/development and with key farmers' associations, private sector and projects involved in commodity production in Rwanda;
- Identify infrastructure and equipment required for the modernisation of agronomic /crop physiology research at RAB;
- Write competitive research proposals to seek funds at national, regional and international levels; and
- Identify key journals on agronomic research/development and subscription procedures;

2- Senior Researcher of Vegetable Crops, Horticulture Research Institute, Agriculture research Center, Egypt. From 2011- Present.

- Carrying out research work on vegetable crops production technology, under
 - Field and greenhouse conditions
 - Different fertilization and irrigation levels
- Variety identification at laboratory level through the biochemical methods as well field performance.
- Supervision of the seed production fields for the institute as well as public and private seed companies working with vegetable crops.
- Vegetable crops basic seed production.
- Maintenance released vegetable crops varieties.
- Seed processing and marketing aspects.
- Seed quality and health testing.
- Different extension activities are concerning vegetable crops production, breeding and seed production such as workshops, training courses, field days and presentations given to farmers and seed producers in different agricultural events.
- Management of vegetable crops genetic resources in the national gene bank as well as some activities in setting up the plant genetic resources platform policy under the international agreements.
- Consultation to plant variety protection office.

3- Team Leader of the FAO TCP/ LEB/ 3302 Project ** Seeds and Seedlings Policy in Lebanon January 2011 June 2012.**

1. Conduct consultations with stakeholders at the national level, in collaboration with the seed national consultant, both individual and group meetings in order to have the input of regional officials, NGOs, farmers and farmer groups in the development of seed policy.
2. Guide the process to develop detailed work plan for project activities during the inception workshop of the project, taking into account the situation on the ground.
3. Identify the present status seed and seedling quality of vegetable and fruit tree in Lebanon.
4. Propose scheme for seed certification for vegetables and identify varieties and crops for which seed certification should be initiated.
5. Develop a plan to encourage local varieties production and protection
6. Draft technical certification's manual on the principles and procedures governing i) harmonization of seed certification systems and accreditation system, ii) traceability, iii) the organization of quality control and certification; iv) inspections seed crops, v) organization of seed storage and control
7. Play a lead role in the design and implementation of seed training of concerned entities (custom, LARI, MoA.)
8. Raise awareness on plant variety protection
9. Propose procedure of field inspection and certified seed production plots.
10. Propose manpower required for vegetable and certification.
11. Propose germination and purity test and revalidation procedures.
12. Organise training material MoA and LARI staff for field inspection methods.
13. Prepare training module:
14. Prepare and submit an end of assignment report.
15. Organize and implement a final national seed policy and regulation workshop in collaboration with the International and national legal consultant and the national seed committee to discuss the draft seed policy and regulation.

4- Team Leader of the FAO TCP/UZB/3202 (D) Project ** Development of a Vegetable Seed Production Programme in Uzbekistan ** September 2008 - October 2010.

1. Review the current status of the vegetable seed production in Uzbekistan;
2. Along with other international staff, National Project Director, national consultants and in collaboration with stakeholders, evaluate short-, medium- and long-term requirements for certified vegetable seed production;
3. Evaluate the seed quality and phytosanitary control procedures followed in the seed multiplication fields/nurseries and in the laboratory, and identify areas requiring strengthening in order to produce and distribute good quality vegetable seed to farmers;
4. Compile prioritized lists of equipment necessary to support activities related to crop varietal improvement, seed production and seed quality control for vegetable, using the preliminary list of equipment attached to the project document as a guideline;

5. Organize and assist in conducting training courses in different areas of vegetable seed production;
6. Coordinate with the other project experts and advice national staff and relevant agencies on the production of basic and foundation seeds;
7. Develop appropriate Terms of Reference for the two National experts after determining the gaps to be filled and the expertise required to fulfill the tasks of the project at national level;
8. Finalize the letter of agreement for the specialized organizations to be connected with the varietal improvement and seed production activities of the project;
9. Submit technical reports to FAO at the end of each mission.
10. Contribute to the preparation of Terminal Statement;
11. Perform any other related duties as may be required.

5- Researcher of Vegetable Crops, Horticulture Research Institute, Agriculture research Center, Egypt. From 2004- 2010.

- Carrying out research work concerning vegetable crops breeding and seed production.
- DUS testing of different vegetable crops.
- Variety identification at laboratory level through the biochemical methods as well field performance.
- Supervision of the seed production fields.
- Vegetable crops basic, registered and foundation seed production and distribution.
- Seed processing e.g. drying, cleaning coating and storage.
- Seed quality and health testing.
- Seed marketing.

6- Freelance Expert, GTZ- CASC Seed Certification Project, From 01/01/2004 - 12/31/2004, Egypt.

- Assistance in collecting data of true costs of breeding and improving new plant varieties by private sector companies.
- Review the already available data of field trials of DUS vegetables testing at CASC from the UPOV point of view.
- Visit and advise CASC employees at DUS vegetable seed variety testing trails according to the UPOV guidelines.
- Update, verify and analyze macro-economic time series data available in the Seed Certification Project.

7- Research Associate of Vegetable Crops, Horticulture Research Institute, Agriculture research Center, Egypt. From 1998 – 2004.

8- Assistant Researcher of Vegetable Crops, Horticulture Research Institute, Agriculture research Center, Egypt. From 1994-1998.

4-Experiences

- I have experiences in conservation, genetic improvement of under-utilised and neglected crops.
- I am concerned with production, breeding and seed production as well as seed technology of vegetable crops and identification of cultivars in vegetable crops. Moreover, I am covering the field of agricultural genetic biodiversity, regarding collection, evaluation, documentation, and utilization of plant genetic resources, and also gene bank management
- I have very wide experiences in different vegetable crops production techniques under different conditions especially fertilization and irrigation (surface and drip) in old lands as well as newly reclaimed soils in Egypt.
- I am successfully attended a wide range of training courses and academic events on national and international levels, with excellent results as a visiting scientist in various countries outside Egypt. Also, I authored and co-authored various scientific publications and presentations.
- I have experiences in Small and Medium Enterprises (SMEs) finance and credit guarantee.
- International Computer Driving License (ICDL).

5-Language Proficiency:

Arabic: Mother tongue

English: Fluent in reading, writing and speaking.

Portuguese; Intermediate level in reading, writing and speaking.

6- Current Research Activities

- ✓ Conservation, genetic improvement and re-introduction of selected under-utilised and neglected crops into agricultural systems
- ✓ Does Humic Acid Improve Productivity of Pepper Under Different Irrigation Intervals?
- ✓ Antitranspirants Application to Squash Plant for Water Stress Augmentation.
- ✓ Seed Yield and Quality of Cowpea in Response to FYM under Different Water Regime.
- ✓ Influence of Different Irrigation Intervals on Growth and Yield of Bell Pepper.
- ✓ Using of N₂ Fixing Cyanobacteria as Biofertilizers and their Influence on Soil Properties and Seed Production of Bean.
- ✓ The Influence of N-Slow Release Fertilizers on Growth and Seed Yield of Lettuce.
- ✓ Effect of Proline and Glycine Betaine on Growth, Yield and Seed Production of Cauliflower cv Snowball Grown in Saline Soils.
- ✓ Seed Production of Carrot Under Salinity Conditions By Using Salicylic Acid and Jasmonic Acid.
- ✓ Response of Lettuce Growth and Yield to Microbial Seedlings Inoculation under Different Soil Salinity Levels.
- ✓ Response of Some Okra (*Abelmoschus esculentus*[(L.)Moench]) Cultivars to Apical Pinching.
- ✓ Vegetative Growth, Flowering Behavior and Yield of Summer Squash (*Cucurbita pepo* L.) in Relation to Seed Soaking and Foliar Application of Some Vitamins.
- ✓ Field Efficiency of Seed Priming on the Growth, Fresh Yield and Seed Yield of Summer Squash *Cucurbita pepo* L.

7-Conferences /Workshops/Symposia

- Awareness Creation Workshop on the Draft COMESA Seed Trade Harmonization Regulations, 27-28 March 2013, Lusaka, Zambia
- 9th CAADP Partnership Platform Meeting, 25 - 27 March 2013, Addis Ababa, Ethiopia
- African Day for Food and Nutrition Security , 31 October 2012, Addis Ababa, Ethiopia
- Regional Workshop on Organic Standards and Certification, 15- 19 October 2012, Kigali, Rwanda.
- 2nd All Africa Horticulture Congress (AAHC2), 15-20 January 2012, South Africa.
- North Africa CAADP Meeting, 8-10 December , 2011, Casablanca, Morocco.
- 3rd Africa Regional Meeting on Development Effectiveness, 28-30 September, 2011, Addis Ababa, Ethiopia..
- COMESA Seed Trade and Policy Validation Workshop in 19 COMESA Member States, 14-15 September, 2011, Lusaka, Zambia.
- Operationalisation of AU-NEPAD Agriculture Climate Change Adaptation-Mitigation Framework Workshop, 17-19 August 2011, Durban, South Africa.
- The Information and Dissemination on the CAADP Pillar II Strategic Area Tools Workshop, 9-10 June 2011, Nairobi, Kenya.
- 2nd Technical Workshop on Seed Certification in 19COMESA Member States, 24-28 January 2011, Nairobi, Kenya.
- 1st Technical Workshop on Variety Release System in 19 COMESA Member States, 17-21 January 2011, Nairobi, Kenya.

- **1st Technical Workshop on Seed Certification in 19COMESA Member States**, 6-10 December 2010, Lusaka, Zambia.
- **COMESA - ACTESA Fourth Stakeholders Meeting**, 08- 11 November, 2010, Entebbe, Uganda.
- **Inception Workshop on Seed Harmonisation in 19 COMESA Member States**, 26-28 October, 2010, Lusaka, Zambia.
- **2nd International Symposium on Sustainable Agriculture for Subtropical Regions (ISSASR-2)**, 15-18 September, 2010, Changsha, China.
- **The 28th International Horticulture Congress, IHC 2010**, August, 22-27, 2010, Lisbon, Portugal.
- **Inception Workshop of the USAID Horticulture Collaborative Research Support Program Horticulture CRSP**, May 16-18, 2010 at National Institute of Education, Singapore.
- **1st All Africa Horticulture Congress (AAHC)**, August 31st -September 3rd, 2009, Nairobi, Kenya.
- **International Symposium "Vegetables Production and Quality and Process Standardization in Chain: a Worldwide Perspective (Vege2008Beijing)**, October 14-17, 2008, Beijing, China.
- **International Symposium "Underutilized Plant Species for food, nutrition, income and sustainable development**, 3-7 March 2008, Arusha, Tanzania
- **Second International Seed Trade Conference (ISTC) For Central; West Asia and North Africa (CWANA)**, 19-21 November 2007, Cairo, Egypt
- **New Approaches to Plant Breeding of Orphan Crops in Africa**, 19-21 September 2007, Bern, Switzerland
- **Genetic Resources Policy Initiative (GRPI). Economic Valuation of Plant Genetic Resources Workshop**. 29-31 August, 2006, Agriculture Genetic Engineering Research Institute , Cairo, Egypt
- **Genetic Resources Policy Initiative (GRPI-IPGRI). International workshop on Farmers' Rights * Exploring Novel Legal Definitions of Farmers' Varieties in National Initiatives to Promote Farmers' Rights*** organized by Genetic Resources Policy Initiative (GRPI-IPGRI) 26-28 October 2006, Hanoi, Vietnam.
- **Genetic Resources Policy Initiative (GRPI). Economic Valuation of Plant Genetic Resources Workshop**. 29-31 August, 2006, Agriculture Genetic Engineering Research Institute , Cairo, Egypt
- **Development of the Genetic Resources sector in Egypt - Potentials, Risks and Capacity Building Needs, Workshop"** Organized by InWEnt, Germany, 14th of February, 2004, Cairo, Egypt.
- **Genetic Resources Policy Initiative (GRPI). First Multi-Stakeholder Workshop. A Meeting for Awareness Raising and Feedback**, 26-27 September, 2004, Desert Research Center, Cairo, Egypt.
- **The 11th International Conference and Exhibition. Marketing Strategies for Medicinal Herbs, Spices Essential Oils and Functional Food Ingredients**, September 28th – 30th, 2004, Cairo, Egypt.
- **Seed Industry: Future and Challenges**, 19-21 April 2004, Cairo, Egypt.
- **Seed Quality Assurance Workshop**, 30 November-4 December 2003, Cairo, Egypt. ISTA, ICARDA, GTZ, FAO, CASC
- **2nd International Conference on the Horticultural Science**, 10 –12 September 2002, Kafr El-Sheikh, Egypt.
- **FAO Expert Consultation Meeting on The Status of Seed Production of Vegetable Crops in The Near East and North Africa (NENA)**, 11-13 November 2001, Cairo, Egypt.

8-Activities in Foreign Countries

- 3 – 23 September , 2014 in China to participate in the Seminar on ****Agricultural Biotechnology Application for African English Speaking Countries in 2014****, organized by National Agro-Tech Extension and Service Center (NATESC), Ministry of Agriculture, Beijing, P. R. China.
- 27-28 March 2013 in Zambia to attend the **** Awareness Creation Workshop on the Draft COMESA Seed Trade Harmonization Regulations **** organized by ACTESA-COMESA
- 25 - 27 March 2013 in Ethiopia to attend the **** 9th CAADP Partnership Platform Meeting **** organized by NEPAD and AUC.

- 19 - 21 September 2007 in Switzerland to attend an International conference New Approaches to Plant Breeding of Orphan Crops in Africa organized by University of Bern, Switzerland.
- 26 - 28 October 2006 in Vietnam to attend an International workshop on Farmers' Rights * Exploring novel legal definitions of farmers' varieties in national initiatives to promote Farmers' Rights* organized by Genetic Resources Policy Initiative (GRPI-IPGRI)
- 1 March 2005 - 28 February 2006 in Brazil, Depto. de Fitotecnia, Universidade Federal de Viçosa for one year postdoctoral Research Fellowship Funded by TWAS/CNP, with major research activities on.
 - Effect of Seed Priming on Germination and Seedling Growth of Pepper under Salinity Stress
 - Overcoming Thermo Dormancy in Lettuce Seeds Using Seed Priming
 - Stimulation of Sweet Corn Seed Germination under Low Temperature Conditions by Seed Priming
- 9 May - 17 June 2005 in The Netherlands to participate in training program ** Training programme on the Conservation, Management and Use of Plant Genetic Resources in Agriculture** organized by International Agricultural Center, Wageningen, The Netherlands.
 - Local Management of Plant Genetic Resources, 9-22 May 2005.
 - Gene Bank Management, 23 May-5 June 2005.
 - Plant Genetic Resources Policies, 6-19 June 2005.
- 19 July - 20 August 2004 in Germany to participate in training program "Sustainable Utilization and Management of Agrobiodiversity " organized by InWent, Germany.
- 28 April - 4 July 2003 in The Netherlands to participate in training program "Biotechnology, Plant Breeding and Seed Sector Development " organized by International Agricultural Center, Wageningen, The Netherlands.
 - Seed Sector Development 1: Policies and Programmes, 28 April- 9 May 2003.
 - Seed Sector Development 11: Seed Enterprise, 12-23 May 2003.
 - Integrated Quality Management and ISO 9002:2000 Certification 26May-6 June 2003.
 - Plant Variety Protection, 9-20 June 2003.
 - Seed Inspection and Certification 23 June-4 July 2003.
- 8 April - 25 May 2002 in Sweden to participate in training program "Organization and Management of Seed Production and Supply" organized by SIDA and SVALÖF WEIBULL AB.

9-Projects International/ National

- ✓ Seeds and Seedlings Policy in Lebanon (FAO- Lebanon).
- ✓ Seed Polices and Regulation Harmonisation in 19 COMESA Member (COMESA Member States).
- ✓ Development of a Vegetable Seed Production Programme in Uzbekistan (FAO- Uzbekistan)
- ✓ Member of COST ACTION on Conservation, genetic improvement and re-introduction of selected under-utilised and neglected crops into agricultural systems
- ✓ The Genetic Resources Policy Initiative GRPI (Egypt-IPGRI).
- ✓ GTZ-Seed Certification Project (Egypt-Germany).
- ✓ Promotion of Horticultural Crops (Egypt- France).
- ✓ Improvement Vegetable Crops Seed Production (Egypt-Japan).
- ✓ Production of High Quality Vegetable Seeds (Egypt).

10-Publications

- Ezzat,A.S., Abd El-Hameed, A.M., **Ahmed, H. M. I.** and El-Awady , A.A. (2011). Improving Nitrogen Utilization Efficiency by Potato (*Solanum tuberosum* L.) A. Influence of Nitrification Inhibitors in Combination with Different Nitrogen Sources on Reducing Nitrogen Losses, Improving Productivity and Chemical Composition. Nature and Science, 9 (7): 26-33 (ISSN: 1545-0740). <http://www.sciencpub.net>.
- Ezzat,A.S., El-Awady , A.A. and **Ahmed, H. M. I.** (2011). Improving Nitrogen Utilization Efficiency by Potato (*Solanum tuberosum* L.) B. Effect of Irrigation Intervals, Nitrogen Rates and Veterra Hydrogel on Growth, Yield, Quality and Nutrient Uptake . Nature and Science 9 (7): 34-41. (ISSN: 1545- 0740). <http://www.sciencpub.net>.
- Ahmed, H. M. I.** and M. M. A. Farag (2011). Alleviation of Salinity Stress in Lettuce During Germination by Seed Priming. J. of Plant Production, 2 (5): 725 – 737.
- El-Saifi, S. K.; **Ahmed, H. M. I.**; Hasan, S. M.; Morsi, M. M. and El-Shatoury, R. S. (2010). Seed Priming Influences Seed Germination And Seedling Growth Of Tomato Under Different Salinity Levels. J. of Plant Production, 1 (2): 159 – 170.
- El-Saifi, S. K.; **Ahmed, H. M. I.**; Morsi, M. M. ; Hasan, S. M. and El-Shatoury, R. S. (2010). An Attempt To Improve Sweet Corn Seed Germination Under Low Temperature Conditions By Using Seed Priming. J. of Plant Production, 1 (2): 171 – 181.
- Hegazi, A. Z., Mostafa, S. M. and **Ahmed, H. M. I.** (2010). Influence of Different Cyanobacterial Application Methods on Growth and Seed Production of Common Bean under Various Levels of Mineral Nitrogen Fertilization. Nature and Science, 8 (11): 183-194 (ISSN: 1545- 0740). <http://www.sciencpub.net>.
- Abou El-Nasr, M. E; Tolba, M. H. and **Ahmed, H. M. I.** (2010). Combining Ability for Some Characters in Summer Squash (*Cucurbita pepo* L.). J. of Plant Production, 1 (5): 663 – 671.
- Ahmed,H.M.I.**, Gregg,B.R. and Louwaars, N.P. 2009 Seed Systems for Under-Utilized Crops. Acta Horticulturae, No. 806: 459-464.
- Ahmed,H.M.I.**, Dias, D. C.F. and Moghazy, A. M. 2009 - Effect of on-farm seed priming on yield and seed quality of bean (*Phaseolus vulgaris* L.). J.Agric.Sci. Mansoura University, 34 (5):5019-5031.
- Louwaars, N. P., **Ahmed, H.M.I.** and Demissie A. (2009) IP in Plant Breeding and Biotechnology: Plant Variety Protection and Patents in Africa. Proceedings of the 1 st All Africa Congress on Biotechnology (Pp 92-101), 22nd – 26th September 2008, Nairobi, Kenya
- Ahmed, H.M.I** , Sonia Hamrit and W. Froelich, 2008: Melokhia (*Corchorus olitorius* L.) a leafy vegetable with good export potential. Poster Presentation XVIII EUCARPIA General Congress held on Sept. 9-12th, 2008, in Valencia/Spain.
- Hamrit, Sonia, **Ahmed, H.M.I** , and W. Froelich, 2008: Melokhia (*Corchorus olitorius* L.) - a leafy vegetable with good market potential - Poster Presentation to the Joint Meeting of the Associations for Plant Sciences / Plant Breeding (GPZ/GPW), Oct 1st -2nd, 2008, Univ. of Goettingen, FRG.
- Hanna, A.A. Hamrit, S., Froelich, W and **Ahmed,H.M.I.** 2004 Essential Oils – An Overview on Their Contents and Potential Use. Proc. of The 11th International Conference and Exhibition . Marketing Strategies for Medicinal Herbs, Spices Essential Oils and Functional Food Ingredients, September 28th – 30th, 2004, Cairo, Egypt.

Ahmed, H.M.I. 2004 Studies on Germination and Seedling Establishment of Pepper. Ph.D. thesis, Faculty of Agriculture, Mansoura University, Egypt.

Zaghloul, M.M.; El-Afifi, S.T.; Asker, E.H. and **Ahmed, H.M.I.** 2002 Pre Sowing Seed heat Treatments in relation to Vegetative growth, flowering and yield of Summer squash *Cucurbita pepo*. Proc. of 2nd International Conference on The Horticultural Science, 10-12 September 2002, Kafr El-Sheikh, Egypt Vol (2): 132-139

Ahmed, H.M.I. 1997 Physiological Studies on Summer Squash *Cucurbita pepo*. M.Sc. thesis, Faculty of Agriculture, Mansoura University, Egypt

11- Major Research Interests

- Underutilized and neglected crops.
- Physiological and production of vegetable crops.
- Vegetable crops cultivars identification field and laboratory.
- Vegetable crops seed production, technology and seedling establishment esp. seed priming and seed coating.
- Breeding and hybrids production and maintenance of vegetable crops.

12- Membership in Professional Societies

1. International Society for Horticultural Science (ISHS)
2. African Crop Science Society (ACSC).
3. The New York Academy of Sciences (NAYS)
4. Young Professionals' Platform for Agricultural Research for Development (YPARD)
5. International Society for Seed Science (ISSS)
6. World Academy of Young Scientists (WAYS).
7. German Egyptian Network of Young Scientists (GENYS)
8. Egyptian Seed Association (ESAS)
9. The Egyptian Horticultural Society (EHS)
10. Natural Protectorates Pioneers Society (NPPS)
11. Environment Friends Association (EFA)
12. Mansoura University journal of Agricultural Sciences (Mans. J. Agric.)

13- Editor/ Reviewer/ Scientific committees' member

- ✓ Editor of Journal of Horticulture and Forestry.
- ✓ Reviewer of many Peer – Reviewed Journals.
- ✓ Scientific committees' member of the First All Africa Horticulture Congress (AAHC1), 31 August - 3 September, 2009 Kenya.
- ✓ Scientific committees' member of 28th International Horticulture Congress, IHC 2010, Lisbon, Portugal
- ✓ Scientific committees' member of Second All Africa Horticulture Congress (AAHC2), 15-20 January 2012, South Africa.

14-Awards

- 1- M.Sc. Scholarship from Academy of Scientific Research and Technology, Cairo, Egypt.
- 2- 1992-1993 Annually received undergraduate student Award for obtaining excellence grades.
- 3- Dekahleia Governorate Reward for the Genius in B.Sc. studies.
- 4- The Agricultural Syndicate Reward for M.Sc. thesis.
- 5- The Agricultural Syndicate Reward for Ph.D. thesis.