Genetics department, Faculty of Agriculture

Assiut University, Egypt

Personal information:

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Current Position: **Professor of Genetics and Molecular Plant Breeding**

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Google Scholar: https://scholar.google.com/citations?user=NzvF0f8AAAAJ&hl=en

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Loop (Frontiers): https://loop.frontiersin.org/people/234800/overview

Sci Profile: https://sciprofiles.com/profile/3968664

Educational qualifications:

1. **Ph.D. in Genetics and Plant Breeding**, University of Bari, Italy, 2011. Thesis title: "*Identification and Characterization of QTLs for Grain Protein Content in Durum Wheat*".
2. **M.Sc. in Agricultural Sciences (Genetics)**, Faculty of Agriculture, Assiut University, Egypt, 2007. Thesis title: "*Inheritance of Black Glume Colour and Protein Content in Durum Wheat*".
3. **B.Sc. in Agricultural Sciences (Genetics)**, Faculty of Agriculture, Assiut University, Egypt, 2001. Final graduation grade: Excellent with honor degree.

Employment history:

Title	Institution	From	To
Researcher	Department of Agricultural and Forestry Sciences, Faculty of Agriculture, University of Tuscia, Italy	16/06/2024	Present
Full Professor	Department of Genetics, Faculty of Agriculture, Assiut University, Egypt	26/12/2021	Present
Visiting Scientist	Department of Agricultural and Forestry Sciences, Faculty of Agriculture, University of Tuscia, Italy	19/06/2022	18/12/2022
Associate Professor	Department of Genetics, Faculty of Agriculture, Assiut University, Egypt	27/11/2016	26/12/2021
Assistant Professor	Department of Genetics, Faculty of Agriculture, Assiut University, Egypt	15/05/2014	26/11/2016
Postdoc Fellow	Department of Agricultural Sciences, University of Naples (Federico II), Italy	15/11/2013	14/05/2014
Assistant Professor	Department of Genetics, Faculty of Agriculture, Assiut University, Egypt	24/07/2011	12/11/2013
Ph.D. Fellow	Genetics and Plant Breeding Section, Di.B.C.A., University of Bari, Italy	02/01/2008	31/03/2011
Assistant Lecturer	Department of Genetics, Faculty of Agriculture, Assiut University, Egypt	24/02/2007	12/11/2007
Demonstrator (Teaching Assistant)	Department of Genetics, Faculty of Agriculture, Assiut University, Egypt	06/12/2001	23/02/2007

Publications:

1. **Hassan, M.I.**, Forgione, I., Cirilli, M., Servili, M., Selvaggini, R., Scovacricchi, S., Barlattani, E., Fianco, M., & Muleo, R. (2026). Chemical and biochemical change of health phenolic compounds in Leucocarpa olive fruit, the white mutant. [Manuscript submitted for publication].
2. Harb S., El-Rawy M.A. and **Hassan M.I.** (2025). Genetic analysis of spike traits and their relationship with grain yield in bread wheat (*Triticum aestivum* L.). Assiut Journal of Agricultural Sciences 56 (5): 237-252.
3. Muleo R., **Hassan M.I.**, Pellegrino A., and Cavallaro V. (2025). Effects of light on adventitious rooting *in vitro*. Agronomy 15(11):2597. DOI: 10.3390/agronomy15112597.
4. Mohammed A.S., **Hassan M.I.**, El-Rawy M.A. and El-Defrawy M.M. (2025). Genetic analysis of grain yield and its components under heat stress conditions in bread wheat (*Triticum aestivum* L.). Assiut Journal of Agricultural Sciences 56 (4): 120-143. DOI: 10.21608/AJAS.2025.400090.1512.
5. **Hassan M. I.**, Forgione I., Cirilli M., Servili M., Selvaggini R., Scovacricchi S., Barlattani E., Fianco M. and Muleo R. (2025). Alternative flavonoid and anthocyanin bosynthesis pathways in *Leucocarpa*, a natural white-fruit olive Mutant. The LXVIII SIGA Annual Congress, Viterbo, 09-12 September 2025, ISBN: 978-88-944843-6-6.
6. Scovacricchi S., **Hassan M.I.**, Amati S., Barlattani E., Fanelli G., Rinalducci S., Bonini P. and Muleo R. (2025). Comparative metabolomic and proteomic analysis of red-fleshed Tuscia Red and white-fleshed Granny Smith apples in two fruit development stages. The LXVIII SIGA Annual Congress, Viterbo, 09-12 September 2025, ISBN: 978-88-944843-6-6.
7. Abdalla O.A., Hashem A.F., **Hassan M.I.** and Mahmoud A.F. (2024). Application of

certain bacterial bioagents to control Watermelon mosaic virus. Assiut Journal of Agricultural Sciences 55 (4): 94-105. DOI: 10.21608/AJAS.2024.316280.1396.

8. Hashem A.F., Mahmoud A.F., **Hassan M.I.** and Abdalla O.A. (2024). Management of Watermelon mosaic virus infecting Squash Plants through Application of Certain Fungal Bioagents. Journal of Applied Molecular Biology 2 (2): 224-244. DOI: 10.21608/JAMB.2024.303337.1027.
9. AL-asfar M., **Hassan M.I.** and Saleh M.A. (2024). Factors affecting knowledge and attitudes toward genetic diseases and consanguineous marriage among students at the University of Saba Region, Yemen. Journal of Applied Molecular Biology 2 (2): 188-202. DOI: 10.21608/JAMB.2024.279069.1021.
10. Mansour E., **Hassan M.I.** and Youssef M. (2024). Effect of genotype and plant growth regulators on callus formation of Sweet Basil. Journal of Applied Molecular Biology 2 (1): 93-106. DOI: 10.21608/JAMB.2023.241640.1014.
11. Ahmed S.A., El-Rawy M.A., **Hassan M.I.** and Hamed E.N. (2024). Genetic analysis of transpiration efficiency and its relation to grain yield under drought stress conditions in bread wheat. Journal of Applied Molecular Biology 2 (1): 1-30. DOI: 10.21608/JAMB.2023.226271.1011.
12. Ahmed S.A., **Hassan M.I.**, El-Rawy M.A. and Hamed E.N. (2023). Genetic analysis of seedling traits under drought stress conditions in bread wheat. Assiut Journal of Agricultural Sciences 54 (4), 123-133. DOI: 10.21608/AJAS.2023.237080.1293.
13. El-Rawy M.A. and **Hassan M.I.** (2021). Assessment of genetic diversity in durum and bread wheat genotypes based on drought tolerance and SSR markers. Plant Breeding and Biotechnology 9(2):89-103. DOI: 10.9787/PBB.2021.9.2.89.
14. **Hassan M.I.**, Mahmoud A.F. and Amein K.A. (2021). Bulked segregant analysis to identify SSR markers for loose smut resistance in bread wheat. Scientific Journal of Agricultural Sciences 3 (1): 119-130. DOI: 10.21608/SJAS.2021.62206.1070.

15. **Hassan M.I.** and El-Rawy M.A. (2021). Phenotypic selection and bulked segregant analysis for 1000-kernel weight under heat stress in durum wheat. Journal of Agricultural Chemistry and Biotechnology 12(2):37-47. DOI: 10.21608/jacb.2021.61490.1011.

16. **Hassan M.I.** and Mahmoud A.F. (2021): Evaluation of some tomato genotypes for nematode resistance and detection of the *Mi-1.2* resistance gene. Journal of Agricultural Chemistry and Biotechnology 12(1): 5–10. DOI: 10.21608/jacb.2021.54585.1008.

17. Mahmoud A.F. and **Hassan M.I.** (2020): Identification of SSR markers for Fusarium head blight resistance in durum and bread wheat. Archives of Phytopathology and Plant Protection 53: 954-970. DOI: 10.1080/03235408.2020.1807188.

18. Mohamed E.A., Mousa Y.Q. and **Hassan M.I.** (2020). Assessment of crossability between tetraploid and hexaploid wheat genotypes and evaluating their hybrids for salinity tolerance. Journal of Agricultural Chemistry and Biotechnology 11 (5):155–163. DOI: 10.21608/jacb.2020.100749.

19. Mohamed A.M., Omara M.K., El-Rawy M.A. and **Hassan M.I.** (2019). Impacts of selection for spike length on heat stress tolerance in bread wheat (*Triticum aestivum* L.). Plant Breeding and Biotechnology 7(2): 83-94. DOI: 10.9787/PBB.2019.7.2.83.

20. El-Qurashi M.A., El-Zawahry A.M.I., Abd-El-Moneen K.M.H. and **Hassan M.I.** (2019). Occurrence, population density and biological control of root-knot nematode, *Meloidogyne javanica* infecting pomegranate orchards in Assiut Governorate, Egypt. Assiut Journal of Agricultural Sciences 50(2): 176-189. DOI: 10.21608/ajas.2019.41818.

21. El-Rawy M.A., **Hassan M.I.**, Omran M.F. and El-Defrawy M.M. (2018). Gene action and combining ability of cellular thermotolerance in bread wheat (*Triticum aestivum* L.). Plant Breeding and Biotechnology 6(3): 206-220. DOI: 10.9787/PBB.2018.6.3.206.

22. El-Qurashi M.A., El-Zawahry A.M.I., Abd-El-Moneen K.M.H. and **Hassan M.I.** (2017). Morphological and molecular identification of root-knot nematodes infecting pomegranate in Assiut Governorate, Egypt. Journal of Phytopathology and Pest management 4(2): 30-37.

23. **Hassan M.I.** (2016). Assessment of genetic diversity in bread wheat genotypes based on heat tolerance and SSR markers. Assiut Journal of Agricultural Sciences 47 (5): 37-55. DOI: 10.21608/AJAS.2016.1987.

24. **Hassan M.I.**, Mohamed E.A., El-Rawy M.A. and Amein K.A. (2016). Evaluating interspecific wheat hybrids based on heat and drought stress tolerance. Journal of Crop Science and Biotechnology 19 (1): 85-98. DOI NO. 10.1007/s12892-015-0085-x

25. **Hassan M.I.**, El-Rawy M.A., Ali M.A. and El-Defrawy M.M. (2016). Phenotypic selection and bulked segregant analysis for flag leaf angle under heat stress in bread wheat (*Triticum aestivum* L.). Assiut Journal of Agricultural Sciences 47 (5): 56-71. DOI: 10.21608/ajas.2016.1995.

26. Calafiore R., Ruggieri V., Raiola A., Rigano M.M., Sacco A., **Hassan M.I.**, Frusciante L. and Barone A. (2016). Exploiting genomics resources to identify candidate genes underlying antioxidants content in tomato fruit. Frontiers in Plant Science 7: 397. DOI: 10.3389/fpls.2016.00397.

27. Mahmoud A.F., **Hassan M.I.** and Amein K.A. (2015). Resistance potential of bread wheat genotypes against yellow rust disease under Egyptian climate. Plant Pathology Journal 31: 402-413. DOI: 10.5423/PPJ.OA.12.2014.0127.

28. Calafiore R., Sacco A., Ruggieri V., **Hassan M.I.** and Barone A. (2015). Exploring introgression regions of *Solanum pennellii* genome to identify wild alleles that increase ascorbic acid in tomato fruit. The Joint Congress SIBV-SIGA, Milano, Italy, 8-11 Sept. 2015. ISBN 978-88-904570-5-0.

29. Calafiore R., **Hassan M.I.**, Raiola A., Rigano M.M., Ruggieri V., Sacco A. and Barone A. (2014). Selection of *Solanum pennellii* sub-lines for identification of key genes controlling ascorbic acid and phenolic content in tomato fruits. The 58th Italian Society of Agricultural Genetics Annual Congress, Alghero, Italy, 5-18 Sep. 2014. ISBN 978-88-904570-4-3.

30. El-Rawy M.A. and **Hassan M.I.** (2014a). A diallel analysis of drought tolerance indices at seedling stage in bread wheat (*Triticum aestivum* L.). Plant Breeding and Biotechnology 2(3): 276-288. DOI: 10.9787/PBB.2014.2.3.276.

31. El-Rawy M.A. and **Hassan M.I.** (2014b). Effectiveness of drought tolerance indices to identify tolerant genotypes in bread wheat (*Triticum aestivum* L.). Journal of Crop Science and Biotechnology 17(4): 255-266. DOI: 10.1007/s12892-014-0080-7.

32. **Hassan M.I.** and Blanco A. (2012). Identification and characterization of QTLs for grain protein content in durum wheat. Assiut Journal of Agricultural Sciences 43 (Special Issue), (The 6th Conference of Young Scientists, Faculty of Agriculture, Assiut University, Egypt, 13 May 2012).

33. Mangini G., **Hassan M.I.**, Signorile M.A., Barbieri M., Ravaglia S., De Vita P. And Blanco A. (2011). Validation of grain protein content QTLs in durum wheat. The Joint Meeting AGI-SIBV-SIGA, Assisi, Italy, 19-22 September 2011. ISBN 978-88-904570-2-9.

34. El-Defrawy M., Saleh F.M., Poczai P., Youssef M. and **Hassan M.I.** (2010). A practical course in principles of molecular biology, (E-book). Faculty of Agriculture, Assiut University, Egypt.

35. Omara M.K., Hussein M.Y., El-Defrawy M.M. and **Hassan M.I.** (2006). Quantitative trait loci analysis for grain protein percentage in durum wheat (*Triticum turgidum* L. var. *durum*). Assiut Journal of Agricultural Sciences 37(4): 25-35.

Research interests:

1. Plant Genetics and Molecular Biology.
2. Molecular Plant Breeding and Biotechnology, including:
    - Molecular Markers Analysis (SSR, SRAP, SCAR and CAPS markers).
    - Genotyping, QTL mapping, Sequence Alignment, GWAS and MAS.
    - Gene expression analysis and High-resolution melting (HRM) analysis.
3. Conventional Plant Breeding, including:
    - Phenotypic Evaluation, Hybridization and Phenotypic selection.
    - Assessment of genetic diversity and Genetic analysis of quantitative traits.

Research experience:

1. Experience in biometrics, quantitative genetics, statistical analysis, and interpretation of genetic data from different plant populations.
2. Good knowledge of conventional and molecular plant breeding.
1. Good knowledge of plant physiology and its application in plant breeding.
2. Screening for abiotic stress tolerance, physiological tools, and genetic tools.
3. Experience in molecular biology methods, including DNA and RNA isolation, gel electrophoresis, capillary electrophoresis, gel documentation system, analysis, genotyping, and development of molecular markers.
4. Experience in molecular markers analysis (SSR, SRAP, SCAR and CAPS).
5. Genotyping, QTL mapping, Sequence Alignment, GWAS and MAS.
6. Multi-omics approaches (Genomics, Transcriptomics, Metabolomics, Proteomics and Epigenomics) and high-resolution melting (HRM) analysis.
7. Experience to design, implement and analyze field trials at different environmental conditions, including greenhouses and experimental fields.
8. Design efficient breeding strategies utilizing phenotypic and molecular-based

selection methods, focusing on cereal crops including wheat.

9. Skills in bioinformatics, novel genomic and web-based tools for genome and sequence data analysis (designing primer, restriction analysis tools, finding genes, SNPs, and DNA sequence alignment.
10. Experience in the use of wild relatives, landraces, inbred lines and hybrids.
11. Experience in management of different genetic resources, and hybridization between different wheat species (Diploid, tetraploid and hexaploidy)
12. Evaluation of different genetic resources, including varieties, landraces, inbred lines, and hybrids of wheat under different environmental conditions.
13. Development of improved wheat varieties with high grain yield and quality as well as good tolerance to abiotic stresses.
14. Good knowledge of cytogenetics and its applications in crop improvement.
15. Research literature and build databases of information about genetic regions, genes, and QTLs for important traits.
16. Skills in bioinformatics and web-based tools for genome analysis, including primer designing, restriction analysis tools, finding genes and sequence alignment using BLAST.
17. Writing research plans and scientific projects in the field of Plant Breeding.
18. Ability to communicate research plans and relevant research results with national and international investigators in molecular breeding programs.
19. Attend and organize several scientific seminars, training courses and workshops in the field of genetics and agricultural sciences.
20. Publishing, reviewing and editing articles in several international journals.
21. Good interpersonal skills and an ability to work both independently and as a part of a multi-disciplinary research and multi-cultural teams.

Peer review experience:

1. Frontiers in Plant Science.
2. BMC Genomics, Springer Nature.
3. BMC Plant Biology, Springer Nature.
4. Journal of Applied Molecular Biology.
5. Saudi Journal of Biological Sciences, Elsevier.
6. Journal of Sohag Agriscience, Sohag University.
7. Assiut Journal of Agricultural Sciences, Assiut University.
8. Scientific Journal of Agricultural Sciences, Beni-Suef University.
9. SVU-International Journal of Agricultural Sciences, South Valley University.

Awards:

1. **PhD Scholarship** at University of Bari (Aldo Moro), Italy, offered by the Italian Ministry of Foreign Affairs, January 2008 to March 2011.
2. **Research Fellowship** at Laboratory of Structural and Functional Genomics, Department of Agricultural Sciences, University of Naples (Federico II), Italy, offered by the Cultural Affairs and Scientific Missions Sector, Ministry of Higher Education & Scientific Research, Egypt, November 2013 to May 2014.
3. **Research Fellowship** at Laboratory of Molecular analysis and Genetic Transformation of Wheat, Department of Agricultural and Forestry Sciences, University of Tuscia, Italy, offered by the Cultural Affairs and Scientific Missions Sector, Ministry of Higher Education & Scientific Research, Egypt, June 2022 to December 2022.
4. **Research Fellowship** at Laboratory of Molecular Ecophysiology and Biotechnology of Tree Plants, Department of Agricultural and Forestry Sciences, University of Tuscia, Italy, offered by "National Research Center for Agricultural Technologies – Agritech" Foundation, Italy, June 2024 to June 2026.

Duties and Responsibilities:

1. Supervisor of Molecular Biology lab. at Central Laboratories of Faculty of Agriculture, Assiut University, Egypt.
2. Supervisor of Biotechnology lab. at Genetics department, Faculty of Agriculture, Assiut University, Egypt.
3. Member of the Genetic department Council, Faculty of Agriculture, Assiut University. Egypt.
4. Member of Arbitrators of the Scientific Production for Promotion of Professors and Associate Professors of the Supreme Council of Universities in the Arab Republic of Egypt.
5. Vice Director of Quality Assurance Unit, Faculty of Agriculture, Assiut University, Egypt (2016-2018).
6. Vice Director of Measurement and Evaluation Unit, Faculty of Agriculture, Assiut University, Egypt (2021-2022).
7. Supervision of Undergraduate Students at the Genetics Department, Faculty of Agriculture, Assiut University during their Practical Summer Course.
8. Supervision of Postgraduate Students at the Genetics Department, Faculty of Agriculture, Assiut University during their Master and Doctorate programmes.
9. Examination and Assessment Handbook for Undergraduate and Postgraduate Students of Genetics Department, Faculty of Agriculture, Assiut University.
10. Planning, design, and implementation of greenhouse, laboratory, and field research projects at the genetics department of Assiut University, Egypt.
11. Field data recording, collection of research samples using scientifically prescribed methods, data analysis and interpretation of research results.
12. Review Editor in Frontiers in Plant Science - Plant Abiotic Stress section.

Research activities:

1. Supervising several postgraduate students (Master and PhD degree in Genetics) at Faculty of Agriculture and Molecular Biology Research Institute, Assiut University, Egypt.
2. Participation in Italian research groups at Department of Agricultural Sciences, University of Naples (Federico II), Italy and Department of Agricultural and Forestry Sciences, Faculty of Agriculture, Tuscia University, Italy.
3. Speaker at several national and international congresses, conventions, conferences, and seminars in genetics, genomics and plant breeding.
4. Attendance and organization of several national and international congresses, conventions, conferences, and seminars in the field of agricultural sciences.
5. Participation in the training of several applied training courses and workshops in the field of genetics and plant breeding.
6. Attending several applied training courses and workshops in the field of agricultural sciences, genetics and plant breeding.
7. Organizing several applied training courses and workshops in the field of agricultural sciences and plant genetics.
8. Participation in several postgraduate activities at the Faculty of Agriculture, Assiut University, Egypt.
9. Arbitration of several scientific publications in several national and international Journals in the field of genetics and plant breeding.
10. Arbitration of the scientific production for promotion of professors and associate professors in the field of Genetics, the Supreme Council of Universities in the Arab Republic of Egypt.

Teaching activities:

1. Teaching several courses in genetics and plant breeding for undergraduate students (bachelor's degree) at Faculty of Agriculture, Faculty of Science, Faculty of Veterinary Medicine at Assiut University, Egypt.
2. Teaching several courses in genetics and plant breeding for undergraduate students (bachelor's degree) at Faculty of Agriculture, Sohag University, Egypt.
3. Teaching plant physiology course for undergraduate students at Faculty of Science at Al Imam Mohammad ibn Saud Islamic University (IMSIU), Saudi Arabia.
4. Teaching several courses in genetics and plant breeding for postgraduate students (M.Sc. and PhD in Genetics) at Faculty of Agriculture and Molecular Biology Research Institute, Assiut University, Egypt.
5. Participation in the development of the internal regulations of Faculty of Agriculture, Assiut University, Egypt.
6. Participation in course specifications, preparing reports and teaching methods of several undergraduate and postgraduate courses in genetics at Faculty of Agriculture, Assiut University, Egypt.
7. Participation in the examination work at Faculty of Agriculture, Faculty of Science, Faculty of veterinary medicine and Molecular Biology Research Institute, Assiut University, Egypt.
8. Supervision of field training for undergraduate students at Faculty of Agriculture, Assiut University, Egypt.

Community and University activities:

1. Participation as an academic advisor for undergraduate and postgraduate students at Faculty of Agriculture, Assiut University, Egypt.
2. Supervising field visits for undergraduate students of Biotechnology program (Genetics) at Faculty of Agriculture, Assiut University, Egypt.
3. Participation in organizing the college graduates' day and several youth care activities at Faculty of Agriculture, Assiut University, Egypt.
4. Participation in supervising scientific laboratories (Biotechnology Lab and Molecular Biology Lab) at Department of Genetics, Faculty of Agriculture, Assiut University, Egypt.
5. Participation in supervising the Molecular Biology Laboratory, Faculty of Agriculture, Assiut University, Egypt.
6. Participation in several student activities and youth care at Assiut University.
7. Participation in several community and environmental development activities at Assiut University, Egypt.
8. Participation as a member of the editorial board of the environmental bulletin issued by Faculty of Agriculture, Assiut University, Egypt., to follow up on research activities in environmental fields and benefit from them in spreading environmental culture for community service and development.
9. A member of several scientific committees at Faculty of Agriculture, Assiut University, Egypt; Genetics Department Council, College Libraries Committee, Quality assurance, Undergraduate Studies Committee, Postgraduate Studies Committee, Scientific Equipment and Chemicals Purchase Committee and the Committee for Purchasing Scientific Books).
10. Participation in several training programs at Faculty and Leadership Development Centre (FLDC), Assiut University, Egypt.

Teaching experience:

1- Teaching for Undergraduate Students

No.	Course	Department, Faculty	University
1	Principles of Genetics	General, Agriculture	Assiut, Egypt
2	Statistical Genetics	Genetics, Agriculture	Assiut, Egypt
3	Population Genetics	Genetics, Agriculture	Assiut, Egypt
4	Quantitative Genetics	Genetics, Agriculture	Assiut, Egypt
5	Genetics of Hybrids	Genetics, Agriculture	Assiut, Egypt
6	Biotechnology	Genetics, Agriculture	Assiut, Egypt
7	Cytogenetics	Genetics, Agriculture	Assiut, Egypt
8	Human Genetics	Genetics, Agriculture	Assiut, Egypt
9	Molecular Genetics	Genetics, Agriculture	Assiut, Egypt
10	Genetic Engineering	Genetics, Agriculture	Assiut, Egypt
11	Genetics and Cell Biology	Genetics, Agriculture	Assiut, Egypt
12	Farm Animal Genetics	Animal Production, Agriculture	Assiut, Egypt
13	Genetics and Genetic Engineering	Faculty of Veterinary Medicine	Assiut, Egypt
14	Veterinary Genetics	Faculty of Veterinary Medicine	Assiut, Egypt
15	Genomics	Genetics, Agriculture	Sohag, Egypt

2- Teaching for Postgraduate Students (M.Sc. and PhD.)

No.	Course	Faculty	University
1	Advanced Population Genetics	Faculty of Agriculture	Assiut, Egypt
2	Advanced Quantitative Genetics	Faculty of Agriculture	Assiut, Egypt
3	Genetics and Cell Biology	Faculty of Agriculture	Assiut, Egypt
4	Molecular Biology of Genes	Faculty of Agriculture	Assiut, Egypt
5	Statistical Genetics	Faculty of Agriculture	Assiut, Egypt
6	Genetics of Hybrids	Faculty of Agriculture	Assiut, Egypt
7	QTL analysis	Faculty of Agriculture	Assiut, Egypt
8	Marker-Assisted Selection	Faculty of Agriculture	Assiut, Egypt
9	Advanced Genetics	Faculty of Agriculture	Assiut, Egypt
10	Physiological Genetics	Faculty of Agriculture	Assiut, Egypt
11	Bioinformatics	Faculty of Agriculture	Assiut, Egypt
12	Seminars	Faculty of Agriculture	Assiut, Egypt
13	Biostatistics	Molecular Biology Institute	Assiut, Egypt
14	Molecular Diagnosis	Molecular Biology Institute	Assiut, Egypt
15	Molecular Genetics	Molecular Biology Institute	Assiut, Egypt
16	Recombinant DNA Technology	Molecular Biology Institute	Assiut, Egypt

Postgraduate Supervision:

Student Name	Degree	Thesis Title
Asmaa Mohamed	PhD. in Agricultural Sciences (Genetics)	Effectiveness of direct and indirect selection for grain yield under heat stress conditions in bread wheat.
Shrouk Ali	M.Sc. in Agricultural Sciences (Genetics)	Genetic analysis of spike traits and their impact on grain yield in bread wheat.
Aya Mohamed	M.Sc. in Agricultural Sciences (Genetics)	Genetic and molecular analysis of some morphological and physiological traits in bread wheat under drought stress condition.
Ayat Salah	M.Sc. in Agricultural Sciences (Genetics)	Genetic analysis of grain yield components in bread wheat under heat stress condition.
Soha Ahmed	M.Sc. in Agricultural Sciences (Genetics)	Study of the genetic control for transpiration and stomata frequency under drought stress in bread wheat.
Weam Mahmoud	M.Sc. in Agricultural Sciences (Genetics)	Phenotypic selection for spikelet fertility under heat stress conditions in bread wheat.
Yousria Mousa	M.Sc. in Agricultural Sciences (Genetics)	Cytogenetical studies on some interspecific crosses between tetraploid and hexaploid wheat.
Asmaa Mohamed	M.Sc. in Agricultural Sciences (Genetics)	Impacts of selection for spike length on heat stress tolerance in wheat (*Triticum aestivum* L.).
Ali Ali	M.Sc. in Agricultural Sciences (Genetics)	Divergent phenotypic selection for flag leaf angle and 1000-kernel weight under heat stress condition in bread wheat.
Mohamed Omran	M.Sc. in Agricultural Sciences (Genetics)	Genetic control of tetrazolium chloride reduction and cell membrane thermostability under heat stress in bread wheat.
Mostafa El-Qurashi	M.Sc. in Agric Sci. (Plant Pathology)	Studies on root-knot nematode disease on pomegranate orchards in Assiut Governorate.
Alshimaa Hashem	M.Sc. in Molecular Microbiology	Effectiveness of certain microorganisms to control watermelon mosaic virus in squash.
Esraa Mansour	M.Sc. in Applied Biotechnology	Effect of genotype and plant growth regulators on callus formation of sweet basil.

Organizing Scientific Events:

Event Title	Date	Location
The 2nd International Plant Genetics and Genomics Symposium, online symposium/zoom conference	20/10/2020 - 22/10/2020	Faculty of Agriculture, Assiut University, Egypt
Plant Genetics Seminars	15/09/2017 - 01/01/2018	Faculty of Agriculture, Assiut University, Egypt
A training course, PCR-based markers (RAPD and SRAP)	12/03/2017 - 14/03/2017	Faculty of Agriculture, Assiut University, Egypt
The 7th Scientific Conference of Agricultural Sciences	30/10/2016 - 31/10/2016	Faculty of Agriculture, Assiut University, Egypt
A training course, Applications of Molecular Markers in Biology	29/05/2016 - 31/05/2016	Faculty of Agriculture, Assiut University, Egypt
The 6th Scientific Conference of Agricultural Sciences	13/10/2012 - 14/10/2012	Faculty of Agriculture, Assiut University, Egypt
The 6th Scientific Conference of Young Scientists	13/05/2012 - 14/05/2012	Faculty of Agriculture, Assiut University, Egypt
The Mediterranean Cooperation in Plant Protection (Italian-Egyptian Workshop)	07/05/2009 - 09/05/2009	Faculty of Agriculture, Bari University, Italy

Skills:

Language Skills:

Language	Reading	Writing	Speaking
Arabic	Proficient	Proficient	Proficient
English	Proficient	Proficient	Proficient
Italian	Proficient	Proficient	Proficient

General Skills:

- Digital Transformation Certificate.
- International Computer Driving License (ICDL).
- Software for Writing, Graphics, Spreadsheets and Statistical analysis (MSTAT, SPSS, SAS, MVSP, R, NTSYS, Statistica, SigmaPlot and Microsoft office).
- Web-based Platforms and Pipelines for Multi-omics data analysis.
- Software for Genotyping, Linkage mapping and QTL analysis (Gene Profiler, Gene Mapper, JoinMap, MapQTL, and GGT graphical genotyping software).
- Web-based Tools for Sequence Data Analysis (Primer3, Restriction analysis, Geneious prime, Oligo Analysis Tool and BLAST).

I do hereby declare the truth and authenticity of all information presented in my resume.

Signature: **Date: November 26, 2025**