



Genetics department, Faculty of Agriculture
Assiut University, Egypt



Personal information:

Name: Mohamed Ibrahim Mohamed Hassan

Nationality: Egypt

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Current Position: **Professor of Genetics, Molecular Biology and Plant Breeding**
Genetics Dept., Faculty of Agriculture, Assiut University, Egypt.

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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>



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 | Type |
|-----------------------------------|---|------------|------------|-----------------------------------|
| Researcher | Department of Agricultural and Forestry Sciences, Faculty of Agriculture, University of Tuscia, Italy | 27/05/2024 | Recent | Full-time >40-hour workweek |
| Full Professor | Department of Genetics, Faculty of Agriculture, Assiut University, Egypt | 26/12/2021 | 26/05/2024 | Full-time >40-hour workweek |
| Visiting Scientist | Department of Agricultural and Forestry Sciences, Faculty of Agriculture, University of Tuscia, Italy | 19/06/2022 | 18/12/2022 | Full-time >40-hour workweek |
| Associate Professor | Department of Genetics, Faculty of Agriculture, Assiut University, Egypt | 27/11/2016 | 26/12/2021 | Full-time >40-hour workweek |
| Assistant Professor | Department of Genetics, Faculty of Agriculture, Assiut University, Egypt | 15/05/2014 | 26/11/2016 | Full-time >40-hour workweek |
| Postdoc Fellow | Department of Agricultural Sciences, University of Naples (Federico II), Italy | 15/11/2013 | 14/05/2014 | Full-time >40-hour workweek |
| Assistant Professor | Department of Genetics, Faculty of Agriculture, Assiut University, Egypt | 24/07/2011 | 12/11/2013 | Full-time >40-hour workweek |
| Ph.D. Fellow | Genetics and Plant Breeding Section, Di.B.C.A., University of Bari, Italy | 02/01/2008 | 31/03/2011 | Full-time >40-hour workweek |
| Assistant Lecturer | Department of Genetics, Faculty of Agriculture, Assiut University, Egypt | 24/02/2007 | 12/11/2007 | Full-time >40-hour workweek |
| Demonstrator (Teaching Assistant) | Department of Genetics, Faculty of Agriculture, Assiut University, Egypt | 06/12/2001 | 23/02/2007 | Full-time >40-hour workweek |



Publications:

1. Hashem AF., 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. **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.
8. **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.



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9. **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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. **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.



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17. **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
18. **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.
19. 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.
20. 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.
21. 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, "Feeding the planet: plant science and breeding for the future of agriculture", Milano, Italy, 8-11 Sept. 2015. ISBN 978-88-904570-5-0. Poster Communication Abstract-1.07.
22. 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. Poster Communication Abstract-2.61.
23. 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.



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24. 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.
25. **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).
26. Mangini G., **Hassan M.I.**, Signorile M.A., Barbieri M., Ravaglia S., De Vita P. And Blanco A. (2011). Validation of grain protein content in durum wheat. The Joint Meeting AGI-SIBV-SIGA, Assisi, Italy, 19-22 September 2011. ISBN 978-88-904570-2-9. Poster Communication Abstract-6A.10.
27. 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.
28. 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. 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:
 - Evaluation, Crossing and Phenotypic selection (Especially on wheat).
 - 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.
3. Experience in molecular biology methods, including DNA isolation, agarose and polyacrylamide gel electrophoresis, capillary electrophoresis, gel documentation system, analysis of electrophoretic profiles, genotyping, and development of different molecular markers for further genetic analysis.
4. Experience to design, implement and analyse field trials at different environmental conditions, including greenhouses and experimental fields.
5. Design efficient breeding strategies utilizing phenotypic and molecular-based selection methods, focusing on cereal crops including wheat.
6. 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).



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



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Duties and Responsibilities:

1. Co-Supervisor of Molecular Biology lab. at Central Laboratories of Faculty of Agriculture, Assiut University, Egypt.
2. Co-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.



Peer review experience:

1. Frontiers in Plant Science
2. Journal of Sohag Agriscience
3. Saudi Journal of Biological Sciences
4. Assiut Journal of Agricultural Sciences
5. Scientific Journal of Agricultural Sciences
6. SVU-International Journal of Agricultural Sciences

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 2025.



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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. Participation in attending several applied training courses and workshops in the field of genetics and plant breeding.
7. Participation in organizing several applied training courses and workshops in the field of genetics and plant breeding.
8. Participation in several postgraduate activities at the Faculty of Agriculture, Assiut University, Egypt.
9. Participation in arbitration of several scientific publications in several national and international Journals in the field of genetics and plant breeding.
10. Member of Arbitrators 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.



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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 |



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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 impacts 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 (<i>Triticum aestivum</i> 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 2 nd 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 7 th 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 6 th Scientific Conference of Agricultural Sciences | 13/10/2012 - 14/10/2012 | Faculty of Agriculture, Assiut University, Egypt |
| The 6 th 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).
- Programs for writing, graphics, spreadsheets and data analysis (MSTAT, SPSS, SAS, R software, NTSYS, Statistica, Photoshop, Microsoft office).
- Software for writing, graphics, spreadsheets, and data analysis (MSTAT, SPSS, SAS, Python, R, NTSYS, Statistica, Photoshop and Microsoft office).
- Software for genetic analyses (Gene Profiler, Gel Analyzer, Gene Mapper, JoinMap, MapQTL, Diallel analysis and GGT graphical genotyping software).
- Web-based Tools for Genomics and Sequence Data Analysis (Primer3, Restriction analysis, Geneious prime, Oligo Analysis Tool and BLAST).