CURRICULUM VITAE

Mahmoud Magdy, PhD

Part A. PERSONAL INFORMATION

CV date	12/12/2025

First name	Mahmoud		
Family name	Magdy Abdallah Awad	Publication name	Mahmoud Magdy
Gender	Male	Date of Birth	08/03/1985
ID number	Passport: A33379564 National ID: 28503080104275		
e-mail	m.elmosallamy@agr.asu.edu.eg		
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Open Researcher and Contributor ID (ORCID)	0000-0002-6815-6306		
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A.1. Current position

Position	**Professor of Genetics**		
Initial date	15/05/2024		
Institution	Ain Shams University		
Department/Centre	Genetics	Faculty of Agriculture	
Country	Egypt	Phone number	01093411288
Keywords	Applied Genomics, Abiotic Stress, Molecular Markers, Evolution		

A.2. Previous positions (research activity interruptions)

Period	**Position/Institution/Country**
2024-2024	Contracted Investigator Doctor, Murcia University, Spain
2023-2024	Distinguished Investigator Doctor, Murcia University, Spain
2021-2023	Associate Professor, Ain Shams University, Egypt
2017-2021	Post-Doctorate, Huazhong Agricultural University, China
2014-2017	Assistant Professor, Ain Shams University, Egypt
2009-2013	Post-graduate Student, Murcia University, Spain
2007-2014	Teacher Assistant, Ain Shams University, Egypt

A.3. Education

Ph.D., Graduate Degree	**University/Country**	**Year**
Ph.D. in Biodiversity and Environmental Management	Murcia University, Spain	2013
M.Sc. in Molecular Biology and Biotechnology	Murcia University, Spain	2010
B.Sc. in Agriculture Sciences - Genetics	Ain Shams University, Egypt	2006

Part B. CV SUMMARY

My research interests encompass the application of genomics and molecular techniques to investigate extranuclear genomes and gene families, primarily from agricultural and evolutionary perspectives. I am also involved in molecular assessment of micro and macro biodiversity in extreme environments. My expertise lies in genomics and transcriptomics, focusing on elucidating patterns that explain population dynamics associated with speciation, hybridization, climatic variables, and adaptation to environmental stresses. My methodologies encompass a wide range, from nucleic acids extraction, single-locus genotyping, and fingerprinting to the comprehensive characterization of entire genomes and transcriptomes, in-depth analysis using bioinformatics tools and computational biology approaches.

I have gained valuable experience through two postgraduate scholarships, two short-term fellowships, and three postdoctoral contracts (4 years contract at Huazhong Agricultural University, China; 2- and 5-years contracts to Murcia University, Spain). I have also been awarded three international scientific visits and received six conference attendance grants. My active membership in five scientific societies and related partnerships has enabled me to build a robust scientific network. That formed a solid scientific network for knowledge exchange and project collaborations in 15 national and international projects between Ain Shams University (Egypt), Murcia University (Spain), Huazhong Agricultural University (China), and Messina University (Italy), Institute of Industrial Biotechnology and Innovation (Dominican Republic), and Fraunhofer Institute for Process Engineering and Packaging IVV (Germany).

At Ain Shams University, I initiated and led the "Applied Genomics and Integrative Biodiversity" research team. In addition to establishing collaborations at the national and

international levels, our main scientific contributions were toward applying molecular markers and techniques to identify wild and endemic species, distinguish genotypes, study the evolutionary dynamics of chloroplast and mitochondrial genomes, and evaluate the genetic variability of different crops to abiotic stress tolerance. The achievements also included the molecular profiling of macro and microorganisms inhabiting extremophilic locations and rhizosphere areas of newly reclaimed lands to find potential tolerance genes or develop biofertilizers for agricultural applications, respectively. Furthermore, we collaborated with private research and development (R&D) departments to enhance locally manufactured kits and provided support for sequencing services offered by private companies in Egypt. During my postdoctoral research in China, I successfully developed two innovative bioinformatic approaches for studying plant extranuclear genomics, leading to the publication of a patent.

At Ain Shams University, I taught population genetics, biostatistics, genomics, bioinformatics, and computational biology. At Murcia University, I am teaching Evolutionary Botany, Forensic Botany and General Botany II. Furthermore, I took on co-supervision roles for 11 defended Ph.D. theses and supervisor of four theses in progress (One at Ain Shams University and two at Murcia University). I also co-supervised 11 defended master's theses and have one ongoing master thesis at Ain Shams University. As a result, four of the Ph.D. graduates received teaching positions in Egyptian public universities. While three of those master's students obtained competitive grants or contracts to continue their studies at high-ranked universities (Université de Sherbrooke (Canada), Huazhong Agricultural University (China), Case Western Reserve University (USA), Murcia University (Spain)).

I have published 97 research works, including 48 articles published in peer-reviewed indexed journals, encompassing 23 in Q1, 13 in Q2, 9 in Q3, and 3 in Q4 journals (JCR), and 26 articles published in peer-reviewed non-indexed journals. I presented research findings at 25 international conferences including one proceeding published in Q1 *Mycology*. The current H-index is 13 (485 citations; Scopus), 14 (591 citations, 837.6 research interest score; ResearchGate), and 15 (654 citations; Google Scholar). My contributions to the field have been recognized with prestigious awards, including the UNESCO Young Scientists Award from the Cairo Office in Egypt (2016), the Ain Shams University "Encouragement Award in Agriculture Sciences" (2022), the Ain Shams recognition of excellence in publication (2020-2024), and Abdul-Rahman Al-Sudairy Award in Olive Research (2025). Recently, I was selected for the competitive "Maria Zambrano - Next Generation Eu Funding" to Murcia University (Spain) in 2022/2023, and the competitive "Saavedra Fajardo" postdoctoral contract funded by "Fundación Seneca" to Murcia University (Spain) in 2024/2025.

Part C. RELEVANT MERITS

C.1. Research projects

1. **Researcher:** *Hybridization in moses: analysis at genomic level in two model families* (Ref. no. PID2023-146996NB-I00). Ministerio de Ciencia e Innovación, Spain. PI: Rosa María Ros Espín & Jesús Muñoz Fuente, Murcia University (Spain). 01/12/2024 - 30/11/2027. Budget: 146,250€.
2. **PI:** *Moss Adaptation Strategies: Explore Molecular Responses to Climate-Induced Stressors* (Ref. no. 22416/SF/23). Seneca Foundation, Murcia Region, Spain. PI: Mahmoud Magdy, Murcia University (Spain). 04/04/2024 - 04/04/2029. Budget: 137,500€.
3. **Researcher:** *Speciation and hybridization in bryophytes: genome, epigenome, and biogeography in the model genus Ceratodon (Bryospeciation)* (Ref. no. PID2019-106091GB-I00). Ministerio de Ciencia e Innovación, Spain. PI: Rosa María Ros Espín & Jesús Muñoz Fuente, Murcia University (Spain). 01/06/2020 - 31/05/2023. Budget: 143,990€.
4. **PI:** *Advanced Genomics in Okra: Interspecific and Mutational Breeding Program* (Ref. no. 25728). Science and Technology Development Funds, Egypt. PI: Mahmoud Magdy, Ain Shams University (Egypt). 14/12/2018 - 14/12/2023. Budget: ~60,055€.
5. **Researcher:** *Use heterogeneity to create strong homogeneous hybrids in cultivated pepper*. Ministry of Science and Technology of the People's Republic of China. PI: Bo Ouyang, Huazhong Agriculture University (China). 01/11/2017 - 01/06/2021. Budget: ~200,000€.

6. **CO-PI:** *Ex-situ Conservation and DNA barcoding of Micro and Macro flora of Omayed Biosphere Reserve – Egypt*. Ain Shams University (Egypt) Internal Funds. PI: Sahar El-Sakaty, Ain Shams University (Egypt). 01/12/2016 - 01/6/2018. Budget: ~20,000€.
7. **PI**: *Using moss as bio-indicators to monitor climate changes in some Egyptian biogeographic regions*. UNESCO (Egypt). PI: Mahmoud Magdy, Ain Shams University (Egypt). 14/12/2018 - 14/6/2023. Budget: ~16,055€.
8. **Researcher:** *Molecular adaptation in bryophytes: studies in the moss Funaria hygrometrica in different climatic conditions by means of new generation sequencing techniques* (Ref. no. CGL2014-52579-R). Ministerio de Economía y Competitividad, Spain. PI: Rosa María Ros Espín, Murcia University (Spain). 01/01/2015 - 31/12/2018. Budget: 142,780€.
9. **Researcher:** *Comparative studies of genetics, epigenetics, and degree of ploidy in populations of the cosmopolitan moss Funaria hygrometrica* (Ref. no. 19308/PI/14). Fundación Séneca, Research Coordination Center, Region of Murcia, Spain. PI: Rosa María Ros Espín, Murcia University (Spain). 01/07/2015 - 15/06/2018. Budget: 30,330€.
10. **PI:** *Genomic, Transcriptomics, and Genome-wide Association Studies of Salinity Tolerance Trait in Sorghum* (Grant no. 47). Center for Special Studies and Programs, Bibliotheca Alexandrina, Egypt. PI: Mahmoud Magdy, Ain Shams University (Egypt). 10/11/2015 - 10/11/2017. Budget: ~18,000€.
11. **PI:** *Molecular characterization, phylogenetic analysis, and hybridization between Abelmoschus spp. on Worldwide Scale*. Science and Technology Development Funds, Egypt. PI: Mahmoud Magdy, Ain Shams University (Egypt). 01/03/2014 - 01/03/2016. Budget: ~22,000 €.
12. **Researcher:** *The bryophytes as a model for the study of climate change* (Ref. no. CGL2011-22936). Ministerio de Ciencia e Innovación, Spain. PI: Rosa María Ros Espín, Murcia University (Spain). 01/01/2012 - 31/12/2014. Budget: 148,830€.
13. **Researcher:** *Conservación ex situ de briófitos amenazados de la Región de Murcia* (Ref. no. 15236/PI/10). Fundación Séneca, Research Coordination Center, Region of Murcia, Spain. PI: Rosa María Ros Espín**,** Murcia University (Spain). 01/01/2011 - 31/12/2014. Budget: 35,221€.
14. **Researcher:** *Effects of climate change on the bryophytes of the Mediterranean high mountain* (Ref. no. CGL2008-00275/BOS). Ministerio de Ciencia e Innovación, Spain. PI: Rosa María Ros Espín, Murcia University (Spain). 01/01/2009 - 31/12/2011. Budget: 140,118€.

C.2. Technology/Knowledge transfer

Patent: Ouyang B, Magdy M**,** Chen R, Zhou Y, Hassan H, Yu H, Ou L, Li F, Zou X. 2019. A molecular marker, its primers, and applications for identifying cultivated pepper species and varieties. Published on 06/08/2019 and authorized on 11/9/2020 (Ref. no. CN110093444B).

Contract with private companies: Development of universal nucleic acids extraction kits (DNA and RNA) tested on several organisms. Entities: DNArt Inc and TransEG Inc, Cairo, Egypt. PI: Mahmoud Magdy, Ain Shams University (Egypt). 01/12/2021- 01/12/2023. Budget: 35,865 €.

R&D management: Innovation and Patents Unit Manager, Faculty of Agriculture, Ain Shams University (Egypt) – 2016/2017; Consultant to DNArt Inc and TransEG Inc, Cairo, Egypt – 2022/2023.

Evaluation Panels: On postdoctoral selection comitte member, Murcia University, Spain (2025); One Ph.D. evaluation panel member, Murcia University, Spain (2021); Two Ph.D. evaluation panel member, Ain Shams University, Egypt (2022, 2023); Three M.Sc. evaluation panel member, Ain Shams University, Egypt (2021, 2022, 2023).

Editor activities: Guest Editor for Special Topic in Frontiers in Genetics: Evolution of Abiotic Stress Responses in Land Plants 2022-2023 (Link); and another Special Topic in Frontiers in Plant Sciences: Abiotic Stress Alleviation in Plants: Morpho-Physiological and Molecular Aspects 2022-2023 (Link).

Reviewer: Agronomy, Archives of Phytopathology and Plant Protection, BMC Genomics, Conservation Genetics, Current Issues in Molecular Biology, Frontiers in Ecology and Evolution, Frontiers in Genetics, Frontiers in Microbiology, Genes, Genetic Resources and Crop Evolution, Horticultural Plant Journal, Journal of Oceanology and Limnology, Microbiological Research, PeerJ, and Plant Growth Regulation.

C.3. Publications

C1.1. Indexed in first quartile journals (Q1)

1. Ros RM, Werner O, Muñoz J & Magdy M. 2025. *Tortula murciana* (Pottiaceae, Bryophyta), a New Species from Mediterranean Mountains. *Plants*, *14*(24), 3861. Open access (JCR-2024: IF 4.1, Q1 Plant Sciences). Link
2. Hassannezhad H, Magdy M, Werner O, Ros RM. 2025. Exploring Plastome Diversity and Molecular Evolution Within Genus *Tortula* (Family Pottiaceae, Bryophyta). Plants, 14(17):2808. Open access (JCR-2024: IF 4.1, Q1 Plant Sciences). Link
3. Magdy M, Werner O, Patiño J, Ros RM. 2024. Landscape Heterogeneity Drives Genetic Diversity in the Highly Dispersive Moss *Funaria hygrometrica* Hedw. *Plants*, 13(19):2785. Open access (JCR-2023: IF 4, Q1 Plant Sciences). Link
4. Belal M, Ntini C, Sylvia C, Wassie M, Magdy M, Ogutu C, Ezzat M, Mollah MDA, Cao Y, Zhang W, et al. Genome-Wide Identification of AGO, DCL, and RDR Genes and Their Expression Analysis in Response to Drought Stress in Peach. *Horticulturae*. 2024; 10(11):1228. Open access (JCR-2023: IF 3.1, Q1 Horticulture). Link
5. Magdy M*, Mostofa MG, Rahimi M & Abdel Moneim D. 2023. Editorial: Abiotic stress alleviation in plants: morpho-physiological and molecular aspects. *Frontiers of Plant Science*, 14:1295638. Open access (JCR-2022: IF 5.6, Q1 Plant Sciences). Link
6. Zhu P, Mamdouh B, Magdy M, Chen J, Ma W & Xu L*. 2023. Diet Induced Variation in Gut Microbiota Is Linked to the Growth Performance of an Agricultural Pest *Chilo suppressalis*. *Agronomy-Basel*, 13(2):304. Open access (JCR-2021: IF 3.7, Q1 Agronomy). Link
7. Rizk SM*, Magdy M*, De Leo F, Werner O, Rashed MA, Ros RM & Urzì C. 2023. Culturable and unculturable potential heterotrophic microbiological threats to the oldest pyramids of the Memphis necropolis, Egypt. *Frontiers of Microbiology*, 14:1167083. Open access (JCR-2021: IF 6.064, Q1 Microbiology). Link
8. Mahmoud MA, Magdy M*, Tybussek T, Barth J & Buettner A*. 2023. Comparative Evaluation of Wild and Farmed Rainbow Trout Fish Based on Representative Chemosensory and Microbial Indicators of Their Habitats. *Journal of Agriculture Food Chemistry*. Online. Closed access (JCR-2021: IF 5.895, Q1 Agriculture, multidisciplinary). Link
9. Nafaa M, Rizk SM, Aly TA, Rashed MA, El-Moneim A, Ben Bacha A, Alonazi M & Magdy M*. 2023. Screening and Identification of the Rhizosphere Fungal Communities Associated with Land Reclamation in Egypt. *Agriculture-Basel*, 13(1), 215. Open access (JCR-2021: IF 3.408, Q1 Agronomy). Link
10. Fiteha YG, Rashed MA, Ali RA, Abd El-Moneim D, Alshanbari FA & Magdy M*. 2023. Mitogenomic Features and Evolution of the Nile River Dominant Tilapiine Species (Perciformes: Cichlidae). *Biology-Basel*, 12(1):40. Open access (JCR-2021: IF 4.2, Q1 Biology). Link
11. Abdel-Kafy EM*, Youssef SF, Magdy M, … Elokil A. 2022. Gut Microbiota, Intestinal Morphometric Characteristics, and Gene Expression in Relation to the Growth Performance of Chickens. *Animals-Basel*, 12(24): 3474. Open access (JCR-2019: IF 3.0, Q1 Veterinary Sciences). Link
12. Mousa S, Magdy M, Xiong D, Nyaruabaa R, Rizk SM, Yu J & Wei H*. 2022. Microbial Profiling of Potato-Associated Rhizosphere Bacteria under Bacteriophage Therapy. *Antibiotics* 11 (8), 1117. Open access (JCR-2021: IF 5.22, Q1 Pharmacology & Pharmacy). Link
13. Coulibaly D, Huang X, Ting S, Iqbal S, … Ma C*. 2022. Comparative Analysis of Complete Chloroplast Genome and Phenotypic Characteristics of Japanese Apricot Accessions.

Horticulturae, 8(9):794. Open access (JCR-2021: IF 2.923, Q1 Horticulture; Author: 12/13). Link

14. Fiteha YG & Magdy M*. 2022. The Evolutionary Dynamics of the Mitochondrial tRNA in the Cichlid fish Family. *Biology-Basel*, 11(10), 1522. Open access (JCR-2021: IF 5.168, Q1 Biology). Link
15. Korkar MH, Magdy M*, Rizk SM, Fiteha YG, Atta AH & Rashed MA. 2022. Rhizosphere-Associated Microbiome Profile of Agricultural Reclaimed Lands in Egypt. *Agronomy-Basel*, 12(10), 2543. Open access (JCR-2021: IF 3.949, Q1 Agronomy). Link
16. Ahiakpa JK, Magdy M, Karikari B, … Zhang Y*. 2022. Genome-wide identification and expression profiling of tomato invertase genes indicate their response to stress and phytohormones. *J. Plant Growth Regul.*, 1–18. Open access (JCR-2021: IF 4.640, Q1 Plant Sciences, Author: 2/11). Link
17. Rizk SM & Magdy M*. 2022. An indigenous inland genotype of the black yeast *Hortaea werneckii* inhabiting the Great Pyramid of Giza, Egypt. *Front Microbiol*, 13:997495. Open Access (JCR-2021: IF 6.064, Q1 Microbiology). Link
18. Rizk SM*, Magdy M, De Leo F, Werner O, Rashed MA-S, Ros RM & Urzì C. 2021. A new extremotolerant ecotype of the fungus *Pseudotaeniolina globosa* isolated from Djoser pyramid, Memphis Necropolis, Egypt. *J Fungi* 7(2): 104. Open Access (JCR-2020: IF 5.816, Q1 Mycology). Link
19. Mahmoud MAA & Magdy M*. 2021. Metabarcoding profiling of microbial diversity associated with trout fish farming. *Sci Rep,* 11(1): 1–11. Open access (JCR-2020: IF 4.380, Q1 Multidisciplinary Sciences). Link
20. Elokil, AA, Magdy M, … & Li S*. 2020. Faecal microbiome sequences in relation to the egg-laying performance of hens using amplicon-based metagenomic association analysis. *Animal* 14(4): 706–715. Closed access (JCR-2019: IF 3.240, Q1 Agriculture). Link
21. Magdy M, Ou L, Yu H … Ouyang*, B. 2019. Pan-plastome approach empowers the assessment of genetic variation in cultivated Capsicum species. *Hortic Res -England,* 6(108): 1-15. Open access (JCR-2019: IF 5.404, Q1 Horticulture; Author: 1/12). Link
22. Ullah I, Magdy M, Wang L, Liu M & Li X*. 2019. Genome-wide identification and evolutionary analysis of TGA transcription factors in soybean. *Sci Rep,* 9(11186): 1-14. Open access (JCR-2019: IF 3.998, Q1 Multidisciplinary Sciences). Link
23. Pisa S*, Werner O, Vanderpoorten A, Magdy M & Ros RM. 2013. Elevational Patterns of Genetic Variation in the Cosmopolitan Moss *Bryum Argenteum* (Bryaceae). *Amer J Bot*, 100 (10): 2000–2008. Open access (JCR-2013: IF 3.844, Q1 Plant Sciences). Link

C.1.2. Indexed in second Quartile journals (Q2)

24. El-Alakmy DA, El-Mansy AB, Moneim DAE, Awad MA, Elhefnawi HT & Magdy M. 2025. Influence of cultivar and location on olive trees production revealed by geno-phenotypic profiling. *Chilean journal of agricultural research*, *85*(5), 720-737. Open access (JCR-2024: IF 1.8, Q2 Agriculture, Multidisciplinary, Agronomy). Link
25. Magdy M, Alwutayd KM, Mansour H, Alamri AM, Alshamrani SM, Al Aboud NM & Abdel Moneim D. 2025. The complete chloroplast genome of *Mentha suaveolens* Ehrh. and comparative analysis of six Mentha taxa (Lamiaceae). *Genetic Resources and Crop Evolution*, 1-19. Open access (JCR-2023: IF 1.6, Q2 Agronomy). Link
26. Alahmari AS, Magdy M, El-Mansy, AB, Awad, NS, Eldenary ME, Alshamrani R, ... & Abd El Moneim D. 2025. Evaluation of nanoparticle biostimulants in alleviating salinity-induced stress: A study on morphological and molecular responses in potato cultivars. *Chilean Journal of Agricultural Research*, *85*(3), 414-423. Open access (JCR-2023: IF 1.5, Q2 Agriculture, Multidisciplinary, Agronomy). Link
27. Safhi FA, Jalal AS, Alshegaihi R, Alshamrani R, Alamri A, Felemban W, Abuzaid AO, Hussein MA, Al Aboud NM, Magdy M & Abd El Moneim D. The Complete Chloroplast Genome of *Psydrax latifolia*: Evolutionary Dynamics, Comparative Genomics and Phylogeny. *Frontiers in Ecology and Evolution,* 12:1416876. Open access (JCR-2023: IF 2.4, Q2 Ecology). Link

28. Elhefnawi HT, Rashed MA, Atta A, Alshegaihi RM, Alwutayd KM, Abd El-Moneim D & Magdy M*. 2023. Genomic assembly, characterization, and quantification of DICER-like gene family in Okra plants under dehydration conditions. *PeerJ*, *11*, e16232. Open access (JCR-2022: IF 2.7, Q2 Multidisciplinary Sciences). Link
29. Abd El Moneim D*, Garcia-Oliveira AL*, Magdy M*. Editorial: evolution of abiotic stress responses in land plants. *Front Gene*, *14*, 1321165. Open access (JCR-2022: IF 3.7, Q2 Genetics & Heredity). Link
30. Abd El Moneim D, Mansour H, Alshegaihi RM, Safhi FA, Alwutayd KM, Alshamrani R, ... Magdy M*. 2023. Evolutionary insights and expression dynamics of the CaNFYB transcription factor gene family in pepper (*Capsicum annuum*) under salinity stress. *Fron Gene*, *14*. Open access (JCR-2022: IF 3.7, Q2 Genetics & Heredity). Link
31. Elokil AA, Abouzaid M, Magdy M, Xiao T, Liu H, Xu R & Li S. 2021. Testicular Transcriptome Analysis under the Dietary Inclusion of L-Carnitine Reveals Potential Key Genes Associated with Oxidative Defense and the Semen Quality Factor in Aging Roosters. *Dom Ani Endocrino* 74: 106573. Closed access (JCR-2021: IF 2.290, Q2 Agriculture, Dairy & Animal Science). Link
32. Ahiakpa JK*, Magdy M, Werner O, Amoatey HM, Yeboah MA, Appiah AS, Quartey EK & RM Ros. 2017. Intra-Specific Variation in West African and Asian Germplasm of Okra (*Abelmoschus* spp L.). *Ann Agri Sci*, 62, 2: 131–38. Open access (SJR-2017: 0.61, Q2 Horticulture). Link
33. Werner O, Magdy M & Ros RM. 2016. Molecular Systematics of Abelmoschus (Malvaceae) and genetic diversity within the cultivated species of this genus based on nuclear ITS and chloroplast rpL16 sequence data. *Gen Res Crop Evol,* 63: 429–45. Open access (JCR: IF 1.524, Q2 Agronomy, and Plant Sciences). Link
34. Fawzia S*, Magdy M, MA Rashed, MA Essa, RA Ali, and EA Badawy. 2016. Differential Expression Analysis in Egyptian Redbelly Tilapia (*Tilapia zillii*) Exposed to Cold Stress. *Egy J Aqua Res*, 42 (3): 313–18. Closed access (SJR-2016: 0.73, Q2 Aquatic Sciences). Link
35. Magdy M*, Werner O, McDaniel SF, Goffinet B & Ros RM. 2016. Genomic scanning using AFLP to detect loci under selection in the moss *Funaria hygrometrica* along a climate gradient in the Sierra Nevada mountains, Spain. *Plant Biol,*18(2): 280–88. Closed access (JCR-2015: IF 2.261, Q2 Plant Sciences). Link
36. Magdy M, Eshak MG & Rashed MA. 2016. Genetic structure of *Mugil cephalus* L. populations from the northern coast of Egypt. *Vet World* 9(1): 53. Open access (JCR: IF 0.77, Q2 Agriculture, Dairy & Animal Science). Link

C1.3. Indexed in third Quartile journals (Q3)

37. Allam KS, Magdy M, El-Aal AA, Khalil NS, Rashed MA, Atta AH & Abdel Hamid RI. 2025. Molecular docking and differential *rbc*L gene expression reveal variation in glyphosate herbicide tolerance of sugarcane varieties. *Mol Biol Rep*, *52*(1), 168. Open access (JCR-2023: IF 2.6, Q3 Biochemistry & Molecular Biology). Link
38. Fiteha YG, Rashed MA, Ali R & Magdy M*. 2023. Characterization and phylogenetic analysis of the complete mitochondrial genome of Mango tilapia (*Sarotherodon galilaeus*: Cichlidae). *Mol Biol Rep*, *50*(4), 3945-3950. Open access (JCR-2022: IF 2.8, Q3 Biochemistry & Molecular Biology). Link
39. Rizk SM, Magdy M*, De Leo F, Werner O, Rashed MA, Ros RM & Urzì C. 2023. aroF and cm2: potential molecular markers for the detection of stone-inhabiting Actinobacteria on cultural heritage sites. *Arch Microbiol*, *205*(1), 32. Open access (JCR-2022: IF 2.8, Q3 Microbiology). Link
40. Serag A, Abdel-Sabour M, El-Hadidi M, Maged M, Magdy M & Ramadan MF. 2022. Comparative 16S Metabarcoding of Nile Tilapia Gut Microbiota from the Northern Lakes of Egypt. *App Biochem Biotech,* 194:2168–2182. Open access (JCR: IF 2.926, Q3 Biochemistry & Molecular Biology). Link
41. El-Sakaty S, Magdy M*, Rizk S, Hashim A, Abu-Elhamd M & Elateek S. 2022. Ex-situ Conservation of the Micro and Macro Flora of Omayed Biosphere Reserve (OBR): A

Survey Report. *Egy J Bot*, 62(1), 149-158. Open access (SJR 0.22, Q3 Biotechnology). Link

42. Amar MH, Magdy M, Wang L, Zhou H, Zheng B, Jiang X, Atta AH & Han Y*. 2019. Peach Chloroplast Genome Variation Architecture and Phylogenomic Signatures of CpDNA Introgression in Prunus. *Canad J Plant Sci,* 99 (6): 885–96. Open access (JCR: IF 1.018, Q3 Agronomy). Link
43. Amar MH, Magdy M, Zhou H, Wang L & Han Y*. 2018. The Complete Chloroplast Genome of Amygdalus Mira (Rosaceae) a Threatened Wild Chinese Peach. *Con Gen Res,* 10 (4): 801–3. Open access (JCR: IF 0.973, Q3 Plant Sciences). Link
44. Marei EM* & Magdy M. 2017. Isolation and Characterization of Basil Mosaic Virus in Egypt. *Arch Phytopath Plant Prot,* 50, 13-14: 687-99. Closed access (Scimago: SJR 0.26, Q3 Agricultural and Biological Sciences). Link
45. Werner O*, Kockinger H, Magdy M & Ros RM. 2014. On the Systematic Position of *Tortella Arctica* and *Trichostomum Arcticum* (Bryophyta, Pottiaceae). *Nova Hedwigia* 98, 3–4: 273–93. Closed access (JCR: IF 1.135, Q3 Plant Sciences). Link

C1.4. Indexed in fourth Quartile journals (Q4)

46. Magdy M*, El-Sherbeny EA & Ramirez Sanchez A. 2022. The complete chloroplast genome of the Egyptian henbane (*Hyoscyamus muticus* L., Solanaceae). *Mito DNA Part B*, *7*(6), 1109-1111. Open access (JCR-2021: IF 0.61, Q4 Genetics & Heredity). Link
47. Magdy M, Appiah AS, Rizk SM, Elhifnawi HT, Karikari B, Ahiakpa JK & El-Dougdoug NK. 2021. Genome Sequence of an Okra Leaf Curl Virus from Egypt. *Microbiol Res Announ,* 10, 29: e00533-21. Open access (ESCI: Q4, Microbiology). Link
48. Magdy M & Ouyang B. 2020. The Complete Mitochondrial Genome of the Chiltepin Pepper (*Capsicum annuum* var. *glabriusculum*), the Wild Progenitor of *Capsicum annuum* L. *Mito DNA Part B,* 5(1): 683–84. Open access (JCR-2020: IF 0.658, Q4 Genetics & Heredity). Link

C1.5. Non-indexed journals

1. Abdelmoniem AM*, Mahrous MY, Fathi MM, Galal A & Magdy M. 2023. Productive traits and genetic differences of chickens segregating for naked neck and frizzle genes at high ambient temperature. *Egy Poult Sci J*, *43*(4). Link
2. Zoghly H, Rashed M & Magdy M.* 2023. Partial Gap-Filling of the Nile Tilapia *Oreochromis niloticus* Draft Genome. *Arab Uni J Agri Sci*, 31(1), 119-130. Link
3. Aya-Tu-Allah EM, Abdel-Tawab FM, Abodoma A, Magdy M & Elameen TM. 2022. Evaluation of salinity tolerance in some bread wheat recombinant inbred lines using microsatellites markers. *Egy J Gene Cyto*, *51*(2), 147-163. Link
4. Nabil R, Magdy M, Rashed M & Elsherbeny E. 2022. DNA Barcoding for Some Medicinal Plants in the El-Omayed Biosphere Reserve. *Arab Uni J Agri Sci*, *30*(2), 1-11. Link
5. Abdalla HA, Fiteha YG, Rashed MA, Ali R, Hammad AMA, Bream, ASM & Magdy M. 2022. Molecular Identification of Ladybird Beetles (Coccinella: Coccinellidae) Using DNA Barcodes. *J Sci Res Sci*, *39*(2), 179-193. Link
6. Ahiakpa JK, Karikari B, Magdy M, Munir S, Mumtaz MA, et al. 2021. Regulation of invertase and sucrose for improving tomato fruit flavor: A review. *Vegetable Research* 1: 10. Link
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C.2. Conferences, Workshops and meetings

C2.1 Oral presentations

1. Hassannezhad H, Magdy M, Werner O, Ros RM. 2025. Chloroplast Genome Assembly and Characterization of the Moss *Syntrichia princeps* (De Not.) Mitt. (Pottiaceae Family). Oral presentation in 10th EIDUM-EINDOC-CMN Doctoral Students Conference (23rd – 25th June), Murcia, Spain. Link

2. Magdy M*, Werner O. & Ros RM. 2024. Resilient Nature of Cosmopolitan Mosses in the Mediterranean Basin: Insights into Climate-Driven Molecular Adaptation. Oral presentation in *XX International Botanical Conference* (21st – 27th July), Madrid, Spain. Link
3. Magdy M. 2024. Macro & Micro Biodiversity Assessment: Evolutionary Dynamics Driven by Bioclimatic Variability. Oral presentation in *1ª Jornada De Investigación: Atraccion y Retención de Talento Investigador en la UMU (HRS4R ACCIÓN 23. Research Development Career*; 13th June, Murcia, Spain.
4. Rizk SM & Magdy M. 2023. Exploring the Surprising Biodiversity: Extremophilic Black Fungal Species from Archaeological Microhabitats in Desert Ecosystems. Oral presentation in IUBMB Focused Meeting on Extremophilic Fungi (19th – 22nd September), Ljubljana, Slovenia. Link
5. Soliman S & Magdy M. 2018. Lahun pyramid, more surprising treasures are revealed: fungal diversity analysis using amplicon-based metagenomic approach. Oral presentation at the *20th Congress of the International Society for Human and Animal Mycology* (30th June – 4th July), Amsterdam, Netherlands. Link
6. Mahmoud MAA, Tybussek T, Magdy M & Buettner A. 2018. Status update on malodor formation and accumulation sources in aquaculture. Oral presentation at the *AQUA 2018* (25th – 29th August), Montpellier, France. Proceeding published in: *Medical Mycology*, Volume 57, Issue 4, Page e6. Open access, (JCR-2018: IF 2.851, Q Mycology). Link
7. Rizk SM, Magdy M, Rashed MA, Urzi C, Werner O, Ros RM & Ramírez A. 2018. *Rock Inhabiting Fungi: Inhabiting Acts and Future Biotechnological Applications*. Oral presentation at the *XIV Congreso Internacional de Investigación Científica*, 24:196–197 (25th – 29th June), Santo Domingo, Dominican Republic.
8. Huwaidi A, Azmi N, Ikeno S, Magdy M & Syahir A. 2016. Mycosporine-like amino acids: molecular exploitation of additional radio-resistance mechanisms in *Deinococcus radiodurans* R1. Oral presentation at the *4th International Symposium on Applied Engineering and Sciences*, 4:5 (17th – 18th December), Kitakyushu, Japan.
9. Rizk SM, Magdy M, De Leo F, Rashed MA, Soliman KAA & Urzì C. 2016. Isolation of an extremophile *Pseudotaeniolina globosa* biovariant from Djosar pyramid, Egypt. Oral presentation at the *VI Meeting of the ISHAM Working Group on Black Yeasts* (15th – 17th September), Viterbo, Italy. Link
10. Werner, O, Pisa S, Magdy M, Nieto-Lugilde M & Ros RM. 2016. Everything is everywhere: briófitos cosmopolitas entre adaptación local y dispersión global. Oral presentation at the *V Congreso de La Sociedad Española de Biología Evolutiva*, 5:33 (18th – 21th January), Murcia, Spain. Link
11. Ros RM, Werner O, Magdy M, Nieto-Lugilde M, Pisa S & Rizk S. 2013. High genetic diversity of some cosmopolitan mosses in the Mediterranean Sierra Nevada mountains. Oral presentation in *XIV OPTIMA meeting*, 141 (9th – 15th September), Palermo, Italy. Link
12. Saeed AM, El-Baghdady KZ, Zakaria AE, El-Shatoury EH, Magdy M & Osman AM. 2016. Horizontal gene transfer of *trx*B in new selenite reducing bacteria *Zobellella denitrificans*. Oral presentation at the *11th International Conference on Nuclear Sciences and Applications*, 11:14 (20th – 24th February), Hurgada, Egypt. Link
13. Farag M & Magdy M. 2016. Molecular ecology unfold the effect of climate changes on plants phenotypic and genotypic plasticity. Oral presentation at the *4th International Conference of Genetic Engineering and Its Applications*, 4:10-11 (5th – 8th, October), Sharm El-Sheik, Egypt. Link
14. Chapuis I, Paiano MO, Aboal M, Sánchez Castillo P, Necchi Jr O, & Magdy M. 2013. Estudio Molecular y Morfológico de Las Poblaciones Íbero-Baleares Del Género *Batrachospermum* (Batrachospermales, Rhodophyta): Bases Para La Comprensión de Su Biodiversidad y Distribución. Oral presentation at the *XIX Simposio de Botánica Criptogámica*, Vol. 19. Banco Español de Algas (BEA), (25th – 27th June), Las Palmas de Gran Canaria, Spain. Link

C.2.2 Posters

15. Calvo Torralbo A, Santamaria Gozalo L, Pérez-Ortega S, Werner O, Magdy M, Ros RM, Muñoz Fuente J. 2025. Evaluación de Marcadores Genético y Algoritmos Para la Delimitación de Especies en el Género de Musgos *Grimmia*. Oral presentation in 10th EIDUM-EINDOC-CMN Doctoral Students Conference (23rd – 25th June), Murcia, Spain. Link
16. Magdy M*, Werner O. & Ros RM. 2024. Functional Landscape Genomics: Insights into Moss Heat Stress Adaptation and Ecological Distribution. Poster in *XX International Botanical Conference* (21st – 27th July), Madrid, Spain. Link
17. Ros RM, Werner O, Muñoz J, Rizk SM, Zumel D & Magdy M. 2023. Sex ratio shifts in the moss genus Ceratodon: implications for environmental adaptation in the populations of the Iberian Peninsula. Poster in *XVII OPTIMA MEETING* (20th – 23rd September), Erice, Italy. Link
18. Magdy M, Mahmoud MAA & Salah F. 2018. Inter-tissue relative expression of transferrin reveals the potential of *Tilapia zillii* as a bioindicator for water pollution. Poster at the *AQUA 2018* (25th – 29th August), Montpellier, France. Link
19. Magdy M, Rizk SM & Ramirez A. 2018. *De novo* Assembly Pipeline for Comparative Plastomics in Plants. Poster at the *XIV Congreso Internacional de Investigación Científica*, 24:143-44 (25th – 29th June), Santo Domingo, Dominican Republic.
20. De la Cruz-Martínez E, Magdy M, Werner O & Ros RM. 2016. Genetic diversity is related to landscape diversity in *Funaria hygrometrica*. Poster in *XV OPTIMA MEETING* (6th – 11th June), Montpellier, France. International. Link
21. Fawzia S, Goda A-SA, Nazmi H & Magdy M. 2016. Application of breeding methods to produce genetically improved farmed Nile tilapia, *Oreochromis niloticus*. Poster at the *3rd International Conference on Aquaculture and Fisheries*, 7:74 (29th September – 01st October), London, UK. Link
22. Elhifnawy HT, Rashed MA, Atta AH & Magdy M. 2016. Population structure of the redbelly Tilapia among closed and open freshwater systems of Egypt. Poster at the *4th International Conference of Genetic Engineering and Its Applications*, 4:29-30 (5th – 8th, October), Sharm El-Sheik, Egypt. Link
23. Rizk SM, Magdy M, De Leo F, Rashed MA, Soliman KAA & Urzì C. 2016. Microbial survey and molecular identification of bacteria and fungi isolated from of Djosar pyramid the most ancient heritage pyramid in Egypt. Poster at *the 4th International Conference of Genetic Engineering and Its Applications*, 4:31-32 (5th – 8th, October), Sharm El-Sheik, Egypt. Link
24. Magdy M, Salah F, Ramirez AS & Rashed MA. 2015. Molecular identification of newly reported *Posthodiplostomum* sp. from *Oreochromis niloticus* in Nile River, Egypt. Poster at the *XI International Interdisciplinary Scientific Research* Congress, 24:196–197 (10th – 14th June), Santo Domingo, Dominican Republic.
25. Magdy M, Ros RM & Werner O. 2010. The genetic structure of the *Funaria hygrometrica* Hedw. populations in Sierra Nevada (Spain) using the sequence-related amplified polymorphism (SRAP) technique. Poster at the *3rd Physcomitrella Genome Workshop,* (13th – 15th September), Freiburg, Germany.

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