



جامعة دمنهور



كلية الزراعة

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Education and Academic Qualification:

- **B.Sc. Agric. Sc. (2001):** Agricultural Production Dept., Faculty of Agriculture, Damansour Branch, Alexandria University, Egypt with general mention "Very good with honor".
- **M.Sc. in Genetics,** Faculty of Agriculture, Damansour Branch, Alexandria University, Egypt.
Title: "Genetic Instabilities in Maize Plant Tissue Culture".
- **Ph.D. in Genetics,** Faculty of Agriculture, Damansour University, Egypt.
Title: "Genetic analysis and identification of molecular markers linked to Fusarium ear rot resistance genes in maize"

Employment History

- **Demonstrator (2002- 2008):** Genetic Division, Plant Pathology Dept., Faculty of Agriculture, Damansour Branch, Alexandria University, Egypt.
- **Assistant Lecturer (2008- 2010):** Genetic Division, Plant Pathology Dept., Faculty of Agriculture, Damansour Branch, Alexandria University, Egypt.
- **Assistant Lecturer (2010- 2014):** Genetic Division, Plant Pathology Dept., Faculty of Agriculture, Damansour University, Egypt.
- **Lecturer (2014- 2022):** Genetic Division, Plant Pathology Dept., Faculty of Agriculture, Damansour University, Egypt.
- **Assistant Professor (2022- present):** Genetic Division, Plant Pathology Dept., Faculty of Agriculture, Damansour University, Egypt.

Scientific Activities & Research Interests

- Plant Biotechnology and Molecular Biology
- Plant tissue culture techniques.
- Molecular marker techniques



- QTL analysis and Application of molecular marker in plant breeding (breeding for resistance to plant diseases).
- Molecular Plant Pathology (Plant-Microbe Interaction)
- Defense system in plants
- Plant response to biotic and abiotic stresses
- Differential display & qRT-PCR application.
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Teaching Experience

Undergraduate students, Faculty of Agriculture, Damanhour University

- Principles of genetics (2015- present)
- Population & Quantitative Genetics (2015- present)
- Microbial Genetics (2015- present)
- Introduction to Biotechnology (2020- 2023)
- Molecular Plant Breeding (2021- 2023)

Postgraduate students

- Genetic Techniques, Cytogenetics, Advanced Cytogenetics, Quantitative Genetics, Advanced Quantitative, Ecological Genetics, Cytology, Biochemical genetics, Microbial genetics

Languages

- **Arabic:** fluent, written and spoken (Native tongue).
- **English:** Very good, written and spoken (TOEFL ITP).

Computer Skills

- Word, Excel, access, PowerPoint (ICDL v.4)
- Statistical programs such as SAS, STATISTICA, Minitab, GraphPad Prism, Phylogeny, Past, MEGA, BioEdit and Map manager (QTX).

Conferences & Symposiums

- BioVision Alexandria 2014, 7th Biennial International BioVision Alexandria conference “New Life Sciences: The Next Decade”. Bibliotheca Alexandrina, 7-9 April 2014, Alexandria, Egypt.
- The First International Conference of Genetics and Its Role in Life Science Development “Application and Future Prospects”, ICG 2016. 19-22 April 2016. Alexandria University, Alexandria, Egypt.
- The 7th International Conference (Plant Microbial Biotechnology and Their Role in the development of Society. 19-20 April, 2017, Botany Department, Faculty of Science, Tanat University, Tanta, Egypt.



- The First Conference of Agricultural Economics, Agricultural Extension and Rural Development Department: Agriculture Development in New Lands (Reality - Challenges - Solutions - Hope), Faculty of Agriculture, Damanhour University, Egypt. 25 February, 2019.
- The 3rd Student Scientific Conference, Faculty of Agriculture, Damanhour University, Egypt. August, 2019.
- 3rd International Plant Genetics & Genomics Symposium (IPGG). 1-3 November, 2021, Department of Genetics, Faculty of Agriculture, Assiut University.

Training Courses

- **Blended e-learning skills:** in E-learning and Management Center – Damanhour University, Egypt, 6-8 August 2018.
- **Adopting an Academic Program:** Faculty and Leadership Development Center (FLDC), Damanhour University, Egypt, 5-6 September 2018.
- **Managing Research Teams (on line):** Faculty and Leadership Development Center (FLDC), Damanhour University, Egypt, 22-23 February 2021.
- **(Electronic) Curriculum Design (on line):** Faculty and Leadership Development Center (FLDC), Damanhour University, Egypt, 24-25 February 2021.
- **Intellectual Property Rights (on line):** Faculty and Leadership Development Center (FLDC), Damanhour University, Egypt, 6-7 September 2021.
- **(Electronic) Exams and Student Evaluation Systems:** Faculty and Leadership Development Center (FLDC), Damanhour University, Egypt, 8-9 September 2021.

Workshops

- Workshop on **"Quality and Its Concepts"**, Faculty of Agriculture, Damanhour University, Egypt.
- CABI Online-platform webinar series **"Navigation of International Publication": (1) Research Stage**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Thursday, August 6, 2020.
- CABI Online-platform webinar series **"Navigation of International Publication": (2) Manuscript Writing**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Sunday, August 9, 2020.
- CABI Online-platform webinar series **"Navigation of International Publication": (3) Submission and Review**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Thursday, August 13, 2020.
- CABI Online-platform webinar series **"CABI Scientific Resources via EKB": General Session**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Sunday, August 30, 2020.



- CABI Online-platform webinar series “**Writing of Agricultural Grant Proposal**”: **(1) Call selection and proposal alignment**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Sunday, September 13, 2020.
- CABI Online-platform webinar series “**Writing Agricultural Grant Proposal**”: **(2) Writing compelling research section**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Thursday, September 17, 2020.
- CABI Online-platform webinar series “**Writing Agricultural Grant Proposal**”: **(3) Preparing budget, Gantt chart & project management**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Sunday, September 20, 2020.
- CABI Online-platform webinar series “**Writing Agricultural Grant Proposal**”: **(4) Submission, review, contracting & getting funded**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Thursday, September 24, 2020.
- CABI Online-platform webinar series, **Professional Poster Presentations: (1) Professional writing of the title and abstract**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Thursday, October 8, 2020.
- CABI Online-platform webinar series, **Professional Poster Presentations: (2) Professional preparation of the Poster**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Thursday, October 15, 2020.
- CABI Online-platform webinar series, **Professional Poster Presentations: (3) Professional presentation of the Poster**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Thursday, October 22, 2020.
- CABI Online-platform webinar series, **Professional Peer-review (V2): (1) Professional Co-authors' Peer-review**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Sunday, December 20, 2020.
- CABI Online-platform webinar series, **Professional Peer-review (V2): (2) Professional post-submission peer-review**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Thursday, December 24, 2020.
- CABI Online-platform webinar series, **Professional Peer-review (V2): (3) Professional responses to reviewers**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Sunday, December 27, 2020.
- CABI Online-platform webinar series “**Professional Scientific Experiments (V1)**”: **(1) Smart Selection of Research Point**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Monday, January 4, 2021.
- CABI Online-platform webinar series “**Professional Scientific Experiments (V1)**”: **(2) Smart Experimental Designs**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Monday, January 11, 2021.
- CABI Online-platform webinar series “**Professional Scientific Experiments (V1)**”: **(3) Smart Data Analysis and Visualization**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Monday, January 18, 2021.



- CABI Online-platform webinar series “**Professional Manuscript Writing (V1)**”: **(1) Introduction, Objective, Materials & Methods**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Monday, January 25, 2021.
- CABI Online-platform webinar series “**Professional Manuscript Writing (V1)**”: **(2) Results and Discussions**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Monday, February 1, 2021.
- CABI Online-platform webinar series “**Professional Manuscript Writing (V1)**”: **(3) Conclusions, Abstract, Title & References**. Organized in collaboration with the Egyptian Knowledge Bank (EKB) on Monday, February 8, 2021.
- Workshop on: **Tissue Culture Technology from Science to Applications**. Faculty of Science (girls), Al-Azhar University, Egypt on Tuesday, July 13, 2021.
- Online webinar “**Proteomics: An Effective Approach in the Diagnosis and Control of Plant Diseases**”. Future Scientists Academy on Thursday, December 30, 2021.

Publication

- 1- **Bayoumi, S.R.**, Abdel-Rahman, M.M., Milad, S.I. and Barakat, M.N. 2013. Genetic analysis of resistance to Fusarium ear rot in two maize populations. J. Agric. & Env. Sci. Alex. Univ., Egypt.
- 2- M.M. Abdel-Rahman, **S.R. Bayoumi** and M.N. Barakat (2016) Identification of molecular markers linked to Fusarium ear rot genes in maize plants Zea mays L, Biotechnology & Biotechnological Equipment, 30: 4, 692-699.
- 3- EL-Argawy, E., I.A. Adss, **S.R. Bayoumi** (2017). Differential expression of induced resistance genes by abscisic acid (ABA) against potato early blight disease. Potato Journal, 44 (1), 16-27.
- 4- Ghareeb, R.Y, I.A. Adss, **S.R. Bayoumi** and D. E. El-Habashy (2019). The nematicidal potentiality of some algal extracts and their role in enhancement the tomato defense genes against root knot – nematodes. Egyptian Journal of Biological Pest Control, 29: 1-10.
- 5- Abou-Shaara, H.F. and **S.R. Bayoumi** (2020). Using Mitochondrial DNA Similarity Percentages to Analyze the Maternal Source of Hybrid Bees from Two Honey Bee Subspecies. Scientific Papers: Animal Science and Biotechnologies, 52 (2): 32-40.
- 6- Abou-Shaara, H.F., K. S.A. Eid and **S.R. Bayoumi** (2020). Insights into the mtDNA of the Egyptian honey bees, Apis mellifera lamarckii using different analytical tools. J. ent. Res., 44 (4): 575-580
- 7- Adss, I.A, G.M. Amer, **S.R. Bayoumi** and A. R. Eid (2021). Effect of Abscisic Acid, Salicylic Acid, Potassium Silicate, and Trichoderma harzianum As Biocontrol Agent to Induce the Tomato Resistance Against Early Blight Disease



Caused by *Alternaria solani*. ALEXANDRIA SCIENCE EXCHANGE JOURNAL, 42(3): 773-788.

- 8- Abou-Shaara, H.F. and **S.R. Bayoumi** (2021). Genetic variations and relationships between deformed wing virus strains infesting honey bees based on structural proteins. *Biologia*, 76:3865-3873.
- 9- **Bayoumy, S.R.**, A.R. Eid and G.M. Amer (2021). Induction of defense responses in faba bean plants against chocolate spot disease caused by *Botrytis fabae* using chitosan. *J. Agric. & Env. Sci. (Damanshour University)*, 20(3): 32-63.
- 10- **Bayoumi, S.R.**, I.A. Adss, M.H. Ghazlan and A.R. Eid (2021). Differential Gene Expression of Two Potato Cultivars in Response To Infection With *Ralstonia Solanacearum*. *Journal of the Advances in Agricultural Researches (JAAR)*, 26 (4) :424-439.
- 11- Eid, A.R., **S.R. Bayoumi**, E. El-Argawy and M.H. Ghazlan. The Role of Thaxtomin A and Necrosis Protein in Virulence of *Streptomyces scabies* that Cause Potato Common Scab Disease. ALEXANDRIA SCIENCE EXCHANGE JOURNAL, 43(2), 289-299.