



DALIA GAMIL ASSEL

Researcher

PERSONAL INFORMATION	<p>Full Name: Dalia Gamil Aseel</p> <p>Affiliations: Plant Protection and Biomolecular Diagnosis Department, Arid Lands Cultivation Research Institute (ALCRI), City of Scientific Research and Technological Applications (SRTA-City), New Borg El-Arab, Alexandria, Egypt.</p> <p>Address: Universities and Research Center District, New Borg El-Arab, Alexandria, Egypt. P.O. Box:21934 ALEX.</p> <p>Mobile No.: 00201145045761</p> <p>E-mail: daliagamil52@gmail.com or daliagamil1983@gmail.com</p> <p>Important links: https://www.researchgate.net/profile/Dalia_Aseel</p>
EDUCATION	<ul style="list-style-type: none"> • P.hd. (2015) in Molecular Biology and Plant Pathology, Genetics Department, Faculty of Agriculture, Alexandria University. Thesis title: "Molecular characterization of Some Viruses Infecting Potatoes in North Egypt using Advanced Techniques". • M.Sc. (2010) in Molecular Biology and Plant Pathology, Genetics Department, Faculty of Agriculture, Alexandria University. Thesis title: "Molecular Genetically Studies on Cotton Leaf Curl Virus in Egypt". • B.Sc. (2004) in Genetics Department, Faculty of Agriculture, Alexandria University.
ACTIVITIES	<p>Scientific Activities</p> <p>Conferences</p> <ul style="list-style-type: none"> • The 3rd International Conference on Biological, Environmental Sciences & Applications (ICBESA-2020), For the paper titled (Poster): “Arbuscular Mycorrhizal Fungi Trigger Transcriptional Expression of Flavonoids and Chlorogenic Acid Biosynthetic Pathways Genes in Tomato against Tomato Mosaic Virus”, 6-8 Feb.

2020, Aswan, Egypt.

- The 20th International Research Conference on Plant Biotechnology and Productivity (ICPBP-2018), In oral and technical presentation, recognition and appreciation of research contributions to ICPBP: “Eco-Friendly Green Synthesis of Silver Nanoparticles Using Some Egyptian Plants against Some Plant Pathogenic Bacteria and Fungi”, 17-18 September 2018. ROME, Italy.
- The 20th International Research Conference on Plant Biotechnology and Productivity (ICPBP-2018), In oral and technical presentation, recognition and appreciation of research contributions to ICPBP: “Cloning, Expression and Protein Purification of AV1 Gene of Okra Leaf Curl Virus Egyptian Isolate and Genetic Diversity between Vector and Different Plant Hosts ”, 17-18 September 2018. ROME, Italy.
- Participation in the Virtual Event poster presentations for LabRoots 5th annual Genetics and Genomics, May 10-11, 2017 held at Labroots your Science Network.
- The First International Conference on Biological and Environmental Sciences & Applications (ICBESA-2017) for the paper (Poster) entitled: “Genotyping of the Potato Leaf Role Virus (PLRV) Infected Potato Plant in Egyptian Isolates and The Cytopathogenic Effects on Plant Cell Level”, 23-25 March 2017, Luxor, Egypt.
- The International Conference on Biotechnology and Enviroment. Faculty of Agriculture-Alexandria University, 1-3 November 2016, Egypt.
- The First International Conference of Genetics and Its Role In Life Science Development, for the paper (Poster) entitled: “Expression and Production of Polyclonal Antibodies for Coat Protein gene of Egyptian Potato Leafroll Virus (PLRV)”, 19-22 April 2016, Alexandria, Egypt.
- The Second International Conference On New Horizons in Basic and Applied science, for the paper (Poster) entitled: “Genotyping of Potato Virus Y Possible Isolates in Egyptian Potato Fields”, 1-6 August 2015, Hurghada, Egypt.

- The First International Conference "Food & Agriculture: New Approaches" 2-4 December 2013, National Research Center, Cairo, Egypt.
- Plant & Animal Genomes XVII Conference, Isolation, Cloning and Invitrotranscription of Coat Protein Gene of Egyptian Cotton Leaf Curl Virus (ECLCV),10-14 January 2009,Town and Country convention center, San Diego, CA.

Workshops

- Attended a workshop: From Lab to Industry. Knowledge Technology Transfer (KTT). City of Scientific research and Technological Applications. October, 16th 2019.
- Attended a workshop of Arab Society for Plant Protection on “Invasive Pests” held in Alexandria, Egypt between 4-5 November 2018.
- Attended a workshop courses in “The Entrepreneurial Academic” at Academy of Scientific Research and Technology, Cairo, Egypt on 25th -26th July 2018.
- Attended a workshop in different Type of electronic microscope components and their importance in analyzing different samples in various scientific fields in professional way, Electronic Microscope Unit, Central Labs, Advanced Technology and New Materials Research Institute, City of Scientific research and Technological Applications. April 17-19th 2018.
- Participated in Dairy Industry in Egypt: Problems and Challenges. Food Technology Department, Arid Lands Cultivation Research Institute (ALCRI)City of Scientific research and Technological Applications, Workshop held on 19th April 2017.
- Participated in 1st Food Contamination Workshop of Food Contamination: Risk, Detection and Prevention. Arid Lands Cultivation Research Institute (ALCRI), City of Scientific research and Technological Applications (SRTA-City), 26th September 2016.

- Participated in a training workshop on Climate change and agriculture sectors: impacts, vulnerability and adaptation, organized by Alexandria Research Center for Adaptation (ARCA), 25/5/2016.
- Attended a workshop on The 1st Mycotoxins Workshop Modern Detection of Mycotoxins in Food and Feed. International Marketing Center (IMC), February 10th 2015.
- Attended a workshop on Hepatitis B Viral (HBV) in Egypt Symptoms, Molecular Diagnosis, Causes and Treatment, Genetic Engineering Research Institute (GEBRI), City for Scientific Research and Technology Applications, 11th June 2014.
- Attended a workshop on Research Ethics, Center of Excellence for Drug Preclinical Studies, City of Scientific research and Technological Applications (SRTA-City), 3 June 2013.
- Attended a workshop on knowledge and culture of ISO, in City for Scientific Research and Technology Applications (SRTA-City), 9th April 2013.
- Attended a workshop on Bio-Fuel production at City of Scientific Research and Technological Applications (SRTA-City) in City of Scientific research and Technological Applications (SRTA-City) in Cooperation with YONSEI University, 3rd February 2013.
- Attended the workshop on wastewater reuse in agriculture, Arid land cultivation research institute, City for Scientific Research and Technology Applications, 6 November 2012.

Projects

- Participant: Impacts of Climate Change on Occurrence and Distribution of The Pathogenic Seed-Borne Fungi of Wheat and Maize in Egypt. Egypt-UK Cooperation: Newton-Mosharafa Program: Researcher Links, STDF, Egypt in Association with University of Hertfordshire, UK (2018 until now).
- Participant: Biotechnological Approach To Search For Candidate Genes Associated With Nitrogen Use Efficiency (NUE) In Maize. Project code AGRV08 01ALEXREP (2009-2012).

- Participant: Sample-Sequencing Strategy For Structural Analysis of The Cotton Genome. US-Egypt S&T Research Grant, University of Georgia, Athens, GA (2004-2008).

Lecturer and Instructor

- Instructor in Summer School program in Molecular Biology and Plant Diseases (Detection, Preventing and Management), City of Scientific Research and Technological Applications (SRTA-City), 1th-12nd Septamper, 2019.
- Lecture and Instructor of practical work in Winter School program in Plant Pathology and Molecular Biology (Discover- Protection-Treatment), Plant Protection and Biomolecular Diagnosis Department, Arid Lands Cultivation Research Institute (ALCRI), City of Scientific Research and Technological Applications (SRTA-City), 27th Junuray to 7th Febraury 2019.
- Teaching of Attending the training program: Molecular Identification of Plants and Microbes as a Step for Gene Bank Development, Arid Land Cultivations Research Institute (ALCRI), City of Scientific Research and Technological Applications (SRTA-City), 11-28 October 2015.

Member of Editorial Board

- ES Journal of Microbiology.
- SciFed Journal of Mycology.
- Journal of Microbiology and Laboratory Science (JMLS).
- **Reviewer in National and International Journals**
- Bulletin of the National Research Centre (Springer Nature), 2020.
- Frontiers in Genetics (Frontiers Media S.A.), 2020.
- Industrial Crops & Products (ELSEVIER), 2019.
- SciFed Journal of Plant Physiology (SCIFED), 2017.

Memberships of Scientific Societies

- Scientific committee member in: The 3rd International Conference on Biological, Environmental Sciences & Applications (ICBESA-

	<p>2020) 6-8 Feb. 2020, Aswan, Egypt.</p> <ul style="list-style-type: none"> • Member: Arab Society for Fungal Conversation (2018 until now). • Member: Society of Plant Pathology (2018 until now). • Member: Arab Society for Plant Protection (2018 until now). • Member: The Egyptian Society for the Biological Control of Pests (2016 until now). <p>Administrative Activities</p> <ul style="list-style-type: none"> ▪ Participation as a member in Institute Council for the Arid Lands Cultivation Research Institute (ALCRI), 2017/2018. ▪ Member and Secretary in Department Council of the Plant Protection and Biomolecular Diagnosis Department, Arid Lands Cultivation Research Institute (ALCRI), City of Scientific Research and Technological Applications (SRTA-City), for the year 2018/2019. ▪ Member of some technical committees for the year 2018 and 2019. <p>Extra-curriculum Activities</p> <ul style="list-style-type: none"> • Researcher (2016) in Plant Protection and Biomolecular Diagnosis Department, Arid Lands Cultivation Research Institute (ALCRI), City of Scientific Research and Technological Applications (SRTA-City). • Assisstant Researcher (2012-2015) in Plant Protection and Biomolecular Diagnosis Department, Arid Lands Cultivation Research Institute (ALCRI). City of Scientific Research and Technological Applications (SRTA-City). • Lab specialites (2010-2012) in laboratory of Plant Protection and Biomolecular Diagnosis Department, Arid Lands Cultivation Research Institute (ALCRI). City of Scientific Research and Technological Applications (SRTA-City).
<p>GRANTS & AWARDS</p>	<p>Grant:</p> <ul style="list-style-type: none"> • Scholarship of M.Sc. (2006-2009), advent from Academy of Scientific Research and Technology. All the practical part of M.Sc. thesis takes place in Nucleic Acid Research Department, Genetic Engineering and Biotechnology Institute, City of Scientific Research

	<p>and Technological Applications (SRTA-City). Alexandria, Egypt.</p> <p>Awards:</p> <ul style="list-style-type: none"> • Best Paper Award for the paper (Poster) entitled: “Genotyping of the Potato Leaf Roll Virus (PLRV) Infected Potato Plant in Egyptian Isolates and The Cytopathogenic Effects on Plant Cell Level”, 23-25 March 2017, Luxor, Egypt. • Best Paper Award Session (IV): Advanced Research in Plant and Microbial Biotechnology, for the paper (Poster) entitled: “Genotyping of Potato Virus Y Possible Isolates in Egyptian Potato Fields”, 1-6 August 2015, Hurghada, Egypt.
<p>LIST OF PUBLICATIONS</p>	<p style="text-align: center;"><u>Research Articles</u></p> <ol style="list-style-type: none"> 1. The Effect of Cyst Nematode (<i>Globodera rostochiensis</i>) Isolate DDH1 on Gene Expression in Systemic Leaves of Potato Plant. Journal of Microbiology, Biotechnology and Food Sciences (2020). 2. Horticulture Performance and Genetic Diversity Based on RAPD Marker for some Egyptian Mandarin Cultivars. Journal of ecology of Health & Environment (2020), Vol:8 (2);1-11. 3. <i>Rhizophagus irregularis</i> and <i>Rhizoctonia solani</i> Differentially Elicit Systemic Transcriptional Expression of Polyphenol Biosynthetic Pathways Genes in Sunflower, Biomolecules (2020), Vol:10; 379. 4. Detection and identification of a new isolate of <i>Grapevine fanleaf Virus</i> naturally infecting Grapevine plants in Egypt using qReal Time-PCR. Novel Research in Microbiology Journal (2019), Vol: 3(6); 493-501. 5. Molecular, serological and biological characterizations of <i>potato leaf roll virus</i> in infected potato plants in Egypt, its effects on plant organelles. Novel Research in Microbiology Journal (2019), Vol: 3(4); 453-463. 6. In Vitro Conservation of The Unique <i>Dillenia Indica</i> Grown In Egypt Under Minimal-Growth Conditions. Egyptian Journal of Agricultural Research (2019), Vol: 97(1); 249-265. 7. Evaluation of Some Defensin Genes Against ToMV in Different Tomato Cultivars Using Pathogenesis Related Protein Genes. Journal of Microbiology, Biotechnology and Food Sciences (2019), Vol:9 (1); 29-

33.

8. Arbuscular Mycorrhizal Fungi Trigger Transcriptional Expression of Flavonoids and Chlorogenic Acid Biosynthetic Pathways Genes in Tomato against *Tomato Mosaic Virus*. *Scientific Reports* (2019), Vol: (9); 9692.
9. Biological and Molecular Characterisation of an Isolate of *Sweet Potato Feathery Mottle Virus* From Sweet Potato. *Bioscience Research* (2019), Vol:16 (2); 1515-1527.
10. Biosynthesis and Characterization of Silver Nanoparticles Produced by Plant Extracts and Its Antimicrobial Activity. *South Asian Journal of Research in Microbiology* (2019), Vol:۳(1); 1-14.
11. Improvement of nitrogen use efficiency in maize using molecular and physiological approaches. *Symbiosis* (2019), Vol:۷۷ (۳).
12. Identification and Purification of *Cowpea Mosaic Virus* Comovirus Isolated From Infected Cowpea (*Vigna Unguiculata* L.) In Northern Egypt (2019), *IJAER*; Vol :4 (4); 206-212.
13. Cloning, Expression and Protein Purification of AV1 Gene of *Okra Leaf Curl Virus* Egyptian Isolate and Genetic Diversity between Whitefly and Different Plant Hosts. *World Academy of Science, Engineering and Technology, International Journal of Biotechnology and Bioengineering* (2018), Vol:12 (10).
14. Molecular and Physiological Detection of Cyst Nematodes on Potato During Plant Nematode Interactions. *Alexandria Science Exchange Journal* (2018), Vol:39 (3); 478-481.
15. Antifungal potential and defense gene induction in maize against *Rhizoctonia* root rot by seed extract of *Ammi visnaga* (L.) Lam. *Phytopathologia Mediterranea* (2018), Vol: 57 (1):73-88.
16. Evaluation of Extreme Resistance Genes of *Potato Virus X* (Rx1 and Rx2) in Different Potato Genotypes. *Journal of Plant Diseases and Protection* (2018), Vol: 125; 251–257.
17. Evaluation of genetic diversity in wild populations of *Peganum harmala* L., a medicinal plant. *Journal of Genetic Engineering and Biotechnology* (2018), Vol: 16; 143–151.

18. Expression and production of polyclonal antibodies for the coat protein gene of Egyptian *potato leaf roll virus* (2017). *Wulfenia Journal*, Vol: 24 (9); 88- 99.
19. The Comparison of Antibodies Raised Against PLRV with Two Different Approaches (Viral Particles Purification and Recombinant Production of CP), *Journal of Plant Pathology & Microbiology* (2017), Vol: 8: 407.
20. Characterization of *Citrus tristeza virus* (CTV) Isolated from Dakahlia Governorate, Egypt. *International Journal of Virology* (2017), Vol: 13 (1): 53-61.
21. Two Isolates of *Potato Virus Y* (PVY) and the Response of Different Potato Cultivars Against the Viral Infection, *Journal of Virology & Antiviral Research* (2015), Vol: 4:4.
22. Molecular and Serological Studies for Detection and Identification of *Cotton Leaf Curl Virus* in Cotton Plant (*G. barbadense* L.) in Egypt, *British Microbiology Research Journal* (2015), Vol: 9 (3); 1-9.
23. Two Novel Mycoviruses Related to Geminivirus Isolated from The Soil-Borne Fungi *Macrophomina phaseolina* (tassi) goid. and *Mucor racemosus* Bull, *Agriculture and Environmental Biotechnology Journal* (2014), Vol: 27(6); 4222-4226.

Books

- **Dalia Gamil Aseel:** Molecular Genetical Studies on *Cotton Leaf Curl Virus* in Egypt (2018). LAMBERT Academic Publishing, ISBN: 978-613-8-38657-5, Project ID: # 173299.
- **Dalia Gamil Aseel:** Genotyping of *Potato Leaf Roll Virus* (PLRV) in Egyptian Isolates (2017). LAMBERT Academic Publishing, ISBN: 978-620-2-01802-9, Project ID: # 162959.
- **Dalia Gamil Aseel:** Molecular Characterization of Some Viruses Infecting Potatoes (2017). LAMBERT Academic Publishing, ISBN: 978-3-659-90992-4, Project ID: # 164286.

Book Chapter

- **Younes M Rashad, Dalia G. Aseel and Saad M Hammad: Phenolic Compounds against Fungal and Viral Plant Diseases (2020).** In *Plant Phenolics in Sustainable Agriculture*, Springer Publishing.

Gene Bank Records

- **Accession number (2019): MK058439**, *Ralstonia* sp. , 16S rRNA gene, partial sequence.
- **Accession number (2019): MK058440**, *Pectobacterium* sp. , 16S rRNA gene, partial sequence.
- **Accession number (2019): MK058441**, *Fusarium* sp. , ITS gene, partial sequence.
- **Accession number (2016): EU515240**, *Cotton leaf curl virus*, CP gene, partial sequence.
- **Accession number (2016): EU515241**, *Okra leaf curl virus*, CP gene, partial sequence.
- **Accession number (2015): KR002116**, *Potato leafroll virus*, CP gene, partial sequence.
- **Accession number (2015): KR002117**, *Potato leafroll virus*, CP gene, partial sequence.
- **Accession number (2015): KR002118**, *Potato leafroll virus*, CP gene, partial sequence.
- **Accession number (2015): KR002119**, *Potato leafroll virus*, MP gene, partial sequence.
- **Accession number (2009): FJ441604**, *Cotton leaf curl virus*, AV1 gene, partial sequence.
- **Accession number (2009): FJ441605**, *Okra leaf curl virus*, AV1 gene, partial sequence.