



GAMAL AMMAR (PH.D.)

ASSISTANT PROFESSOR OF BIOTECHNOLOGY

PERSONAL INFORMATION	<p>Full Name: Gamalaldin Ahmad Gaber Ammar</p> <p>Affiliations: Assistant Professor of Biotechnology</p> <p>Address: Alexandria, Egypt</p> <p>Mobile No.: (+2) 0111 322 0822</p> <p>E-mail: gamar@srtacity.sci.eg ; gamal.ammam@gmail.com</p> <p>Important links: www.linkedin.com/in/gamal-ammam http://srtacity.sci.eg/institutions/alcri/alcri-plant-production-department/</p> <p>Fields of Interests</p> <ul style="list-style-type: none"> ○ Gene Editing and CRISPR Cas9 ○ Molecular Biology ○ Genetic Engineering ○ Plant Tissue Culture ○ Abiotic Stress ○ Nanobiotechnology Applications in Biotechnology and Bio MOFS ○ Plant-Microbe Interactions ○ Protein Coding ○ Biofertilizer Production
EDUCATION	<p>Ph.D. in Biotechnology <i>Alexandria University, [10/03/2010 – 12/01/2017]</i></p> <p>MS.C. in Biotechnology <i>Alexandria University, [20/09/2006 – 15/07/2009]</i></p> <p>Post-Graduate Diploma in Biotechnology <i>Alexandria University, [20/09/2005 – 15/09/2006]</i></p> <p>BS.C. in Agricultural Sciences <i>Faculty of Agriculture, Al-Shatby, Alexandria University [20/09/2000 – 20/06/2005]</i></p>

	<p>Address: Alexandria (Egypt) Field(s) of study: Agriculture, forestry and fishery. Section of Studying in English Language, Ranked the First.</p>
<p>ACTIVITIES</p>	<p>Scientific Activities</p> <p>Assistant Professor, Researcher, and Lecturer of Biotechnology <i>PPD, ALCRI, SRTA</i> [26/07/2017 – Current] Main activities and responsibilities:</p> <ul style="list-style-type: none"> ➤ Responsible for leading and supervising the Plant Biotechnology Unit and group. ➤ Initiate, direct and execute scientific research and development that is critical to corporate strategies and ➤ image of the Plant Production Department (PPD). ➤ Investigate the feasibility of applying a wide variety of scientific principles and concepts to potential ➤ inventions, projects and problems. ➤ Investigate, create, and develop new methods and technologies for project advancement. <p>Visiting Assistant Professor of Biotechnology <i>Cornell University</i> [01/10/2019 – 30/06/2020] Address: 14850 Ithaca, New York (United States) City: Ithaca, New York Country: United States Name of unit or department: Cornell University, School of Integrative Plant Science, Plant transformation Facility</p> <ul style="list-style-type: none"> - Business or sector: Professional, scientific and technical activities <p>Assistant Researcher of Biotechnology <i>PPD, ALCRI, SRTA</i> [31/10/2013 – 25/07/2017] Main activities and responsibilities:</p> <ul style="list-style-type: none"> ➤ Initiate, direct and execute scientific research and development that is critical to corporate strategies and ➤ image of the Plant Production Department (PPD). ➤ Investigate the feasibility of applying a wide variety of scientific principles and concepts to potential ➤ inventions, projects and problems. ➤ Investigate, create, and develop new methods and technologies for project advancement. <p>Biotechnology Specialist <i>PPD, ALCRI, SRTA</i> [26/01/2010 – 30/10/2013] Main activities and responsibilities:</p> <ul style="list-style-type: none"> ➤ Establish the Plant Tissue Culture Laboratory, working on different ornamental, vegetable, and crop plants.

	<ul style="list-style-type: none"> ➤ Introduce and select of drought, salinity and heat tolerant variants of wheat using Biotechnological tools ➤ and Molecular Markers applications. ➤ Plan and execute laboratory research. ➤ Identify, formulate and solve tissue culture problems. ➤ Produce meristem culture (producing disease free plant). ➤ Manage, schedule plant tissue culture staff. ➤ Develop goals and priorities, assign tissue culture tasks and projects. ➤ Counsel, train and coach tissue culture staff. ➤ Conception and leading experimental trial and tests in Research. ➤ Develop performance in biotechnology manipulation. ➤ Perform a variety of research laboratory tasks and experiments, making detailed observations, analyze ➤ data, interpret results, and write reports, summaries, and protocols regarding experiments. <p>Administrative Activities Organizer and team leader of the Workshop;” Linking Scientific Research to Industry”. SRTA-City, 2017.</p> <p>Extra-curriculum Activities General Intellectual Property Frame Certificate - (DL101AEG19S1) <i>World Intellectual Property Organization - WIPO</i> [01/04/2019 – 31/05/2019].</p>
<p>GRANTS & AWARDS</p>	<p>Grants</p> <p>Fulbright Postdoctoral Scholar <i>Cornell University</i> [01/10/2019 – 30/06/2020] Address: 14850 Ithaca, New York (United States) City: Ithaca, New York Country: United States Name of unit or department: Cornell University, School of Integrative Plant Science, Plant transformation Facility</p> <ul style="list-style-type: none"> ✓ Business or sector: Professional, scientific and technical activities ✓ Fulbright Postdoctoral Visiting Grant. Project title: "CRISPR/Cas9 Editing of Wheat for Increasing Yield". <p>Leaders in Innovation Programme Fellowship (LIF) <i>Royal Academy of Engineering</i> [02/03/2019 – 16/03/2019] Address: London (United Kingdom)</p> <ul style="list-style-type: none"> ➤ LIF Programme funded by the UK Government through Newton fund, and the Egyptian Government through the Science and Technology Development Fund (STDF).

	<p>Biotechnology Applications</p> <p>➤ <i>The Energy Research Institute (TERI), ITECH Programme</i> [03/12/2015 – 25/12/2015] Address: New Delhi (India), ITECH Programme, funded by the Indian Government.</p> <p>Projects</p> <ul style="list-style-type: none"> • PI, Egyptian Ministry of Scientific Research, Science and Technology Developing Fund (STDF) project titled: “Producing a Minimized or Bitterness Free Aftertaste Stevia Sweetener with Low Reb A ”. 2019.Project ID: 38342. “LEADERS IN INNOVATION FELLOWSHIPS” PROGRAMME, Newton Fund Programme Egypt 2017 / 2018. • Participant, Egyptian Ministry of Scientific Research, Science and Technology Developing Fund (STDF) project titled: “Transfer of Drought and Salt Tolerance Genes to the Egyptian Rice Cultivars for Reducing Water Demands and Increasing the Productivity”. From 2010 – 2015. <p>Honours and Awards</p> <ul style="list-style-type: none"> • Fulbright Postdoc Visiting Research Grant (2019/2020), Cornell University, USA. • Awarded the Bronze Medal, Leading the Egyptian team, International Biology Olympiad, Hanoi, Vietnam, 2017. • Ideal Student for the Faculty of Agriculture and Alexandria University for the academic year 2004/2005.
<p>LIST OF PUBLICATIONS</p>	<p>Publications</p> <ul style="list-style-type: none"> • Ammar, G. A., T.H. Taha, M.N. Barakat, M.H. El-Masry (2021). Evaluation of Three Bacterial Plasmids and Their Antagonistic Effect as Biocontrol Agents Against <i>Ralstonia solanacearum</i>. Sci. Rep. (In Press). • Shima M. Hassan, M. Ashour, N. Sakai, Li Zhang, and G. Ammar (2021). Evaluation of Novel Bioactive Compounds as a Biostimulant Derived from Seaweed Liquid Extract for Enhancing Cucumber Cucumis Sativus Growth in Greenhouse Towards Sustainable Agricultural Practice. Int. Jour. of Agri. Sust. (In press). • Ammar, G.; El-Masry, M.H.; Barakat, M.N. (2009). Towards Potato Tissue Culture and Transformation Techniques for Introducing Genes Related to Biocontrol of <i>Ralstonia solanacearum</i>. 1st International Conference on Biotechnology. Centre of Excellence in Biotechnology Research. King Saud University, Riyadh, Saudi Arabia. 16th to 18th of February 2009.