



Safaa Mohamed Elsayed Mohamed Ali

Associate Professor

<p><b>PERSONAL INFORMATION</b></p>	<p>Full Name: Affiliations: Address: E-mail: Important links:</p>	<p>Safaa Mohamed Elsayed Mohamed Ali Nucleic Acid Research Department – GEBRI institute - City of scientific research and technological applications City of scientific research and technological applications <a href="mailto:Safaa.mohamedali@yahoo.com">Safaa.mohamedali@yahoo.com</a>, <a href="mailto:sali@srtacity.sci.eg">sali@srtacity.sci.eg</a> <a href="https://www.scopus.com/authid/detail.uri?authorId=57194337099">https://www.scopus.com/authid/detail.uri?authorId=57194337099</a></p>
<p><b>EDUCATION</b></p>	<ul style="list-style-type: none"> <li>● <b>Phd in Microbiology Science from Alexandria University. 2013</b> <ul style="list-style-type: none"> <li>○ <b>Department:</b> Microbiology Science.</li> <li>○ <b>Specialization:</b> Biotechnology (Enzyme production).</li> </ul> </li> <li>● <b>Master in Microbiology Science from Alexandria University. 2006</b> <ul style="list-style-type: none"> <li>○ <b>Department:</b> Microbiology Science.</li> <li>○ <b>Specialization:</b> Medical Microbiology.</li> </ul> </li> </ul>	
<p><b>ACTIVITIES</b></p>	<p><b>Scientific Activities</b></p> <ul style="list-style-type: none"> <li>● Attended CABI Online-platform webinar series <b>How to make the most out of CABI's scientific resources via the EKB!</b> For Faculty and Researchers organized in collaboration with the Egyptian Knowledge Bank. 27 September 2021.</li> <li>● Attended online workshop training entitled (Bioinformatics workshop { module 1, 2, 3, 4, 5, 6, 10 and 13, 14}, January - November 2021 organized by The Egyptian center of bioinformatics and genomics (ECBAG).</li> <li>● Attended the webinar of Shore Processes lab Held in Niof, Alexandria branch on 27th June 2021</li> <li>● Participation in online series Professional Writing of Grant Proposals: Session: (4) Preparing budget, Gantt chart &amp; project management, held on 13/6/2021, in collaboration with the Egyptian Knowledge Bank (EKB).</li> </ul>	

- Participation in online series Professional Writing of Grant Proposals: Session: (3) Preparing budget, Gantt chart & project management, held on 9/6/2021, in collaboration with the Egyptian Knowledge Bank (EKB).
- Participation in online series Professional Writing of Grant Proposals: Session: (2) Preparing budget, Gantt chart & project management, held on 30/8/2021, in collaboration with the Egyptian Knowledge Bank (EKB).
- Participation in online series Professional Writing of Grant Proposals: Session: (1) Preparing budget, Gantt chart & project management, held on 23/8/2021, in collaboration with the Egyptian Knowledge Bank (EKB).
- Attended online workshop training entitled (Linux {module 1}), 2021 organized by The Egyptian center of bioinformatics and genomics (ECBAG).
- Attended a webinar entitled: Enhance your research with Elsevier: SCival organized by National research center, Cairo, Egypt at 31 December, 2020.
- Instructor of the Molecular Biology techniques and their applications program 26<sup>th</sup> January-6<sup>th</sup> February 2020, At City for Scientific Research and Technology Applications. Alexandria, Egypt.
- Attended a workshop: From lab to industry 16<sup>th</sup> October 2019, At City for Scientific Research and Technology Applications. Alexandria, Egypt.
- Attended the 4<sup>th</sup> Annual conference of El Maamoura chest hospital, 21-22 March 2019, held at Azure hotel, Alexandria, Egypt.
- Attended a workshop entitled; Marine biotechnology for sustainable development, 25-26 December 2018, National institute of oceanography and fisheries, Alexandria, Egypt.
- Attended Conference (Bio Vision Alexandria 2018, 20-22 April) Bibliotheca Alexandria and sharing with poster.
- Participation with poster presentation at the 2nd international conference of Biotechnology and Environment, 28-30 March 2018, Alexandria, Egypt.
- Participation at the workshop of (Writing project proposals) 30Jan-1Feb 2018 at Faculty of Agriculture, Alexandria, Egypt.

- Attended a workshop on (SolariX the complete solution) 8<sup>th</sup> August 2017, At City for Scientific Research and Technology Applications.
- Attended a workshop entitled; Molecular Biology Techniques in immunology, 30Jan-2Feb 2017, held at the Medical Technology center, Alexandria, Egypt.
- Contribution and Organizing the workshop on Towards a Good Research Jan 4<sup>th</sup> ,2017, At City for Scientific Research and Technology Applications.
- Attended a workshop entitled; Basic and Applications of Epigenetics , 28-29 December2016, held at the Medical Technology center.
- Attended a workshop on Advanced Materials and its Applications 28<sup>th</sup> November 2016, At City for Scientific Research and Technology Applications.
- Participation at the international conference on Biotechnology and Environment 1-3 November 2016 at Faculty of Agriculture, Alexandria, Egypt.
- Attended a workshop entitled; From Applied Scientific Research to Entrepreneurship,25-26 May 2016, held at Faculty of Agriculture, Cairo, Egypt.
- Attended a workshop entitled; TWARDS A GOOD RESEARCH, 5<sup>th</sup> May 2016, held at the Medical Technology center.
- Participation with poster presentation at the 1<sup>st</sup> international conference of genetics and its role in life science development (Applications and future prospects), 19-22 April 2016 Alexandria, Egypt.
- Attended Conference (Bio Vision Alexandria 2016, 12-14 April) Bibliotheca Alexandria and sharing with poster .
- Attended a workshop on Research Ethics: Basics and Principles. Science 29<sup>th</sup> March 2016, At City for Scientific Research and Technology Applications.
- Participated and contributed to success of the workshop held at National institute of Oceanography & Fisheries and City of Scientific Research & Technological Applications, Alexandria on 8-9 June and 26-30 July 2015 under the auspices of council for Research Centers and Institutes (CRCI)- Ministry of Scientific Research
- Attended a workshop on Moringa, its food and medical importance 11<sup>th</sup> May 2015, At City for Scientific Research and Technology Applications.

- Attended a Nanotechnology and its Biological applications workshop, 20<sup>th</sup> April 2015, At City for Scientific Research and Technology Applications.
- Attended the 1<sup>st</sup> Mycotexins workshop modern detection of Mycotoxins in food and feed 10<sup>th</sup> February 2015, At City for Scientific Research and Technology Applications.
- Attended the Pharmaceutical Biotechnology conference by IGSR Biotechnology scientific society 24-25 December 2014
- Attended the 2<sup>nd</sup> International workshop on molecular therapeutics from 15-18 December 2014 at Faculty of Pharmacy, Alexandria university.
- Attended a workshop on Data analysis and modeling using Costat statistical software 1/12 /2014, At City for Scientific Research and Technology Applications.
- Attending the course of general chromatography & new technique of (HPTLC & MS) BY Peak scientific instruments, S.A.E, 9- 11-2014, At City for Scientific Research and Technology Applications.
- Attended the chemical safety and security training workshop sponsored by the united states departments of state 7-11 septamper, 2014, Alexandria Egypt.
- Attended the workshop on microbial identification for the 21<sup>th</sup> century, At City for Scientific Research and Technology Applications. 18/8/ 2014.
- Attended the international conference towards sustainable environment and participated in the discussion of the presented articles. Alexandria, Egypt , 11-12 August, 2014.
- Attended the workshop on Environmental friendly bio-products organized by Environmental department- city for scientific research and technology applications 24 June 2014.
- Attended the workshop on Bio-safety organized by Biomedical department- city for scientific research and technology applications 27 May 2014.
- Attended the workshop on Industrial Biotechnology organized by Bioprocess department- city for scientific research and technology applications 13 May 2014.

- Actively participated in the 1st workshop on molecular therapeutics from March 3rd -6th, 2014 at biochemistry department, faculty of science, Alexandria university.
- Attended Conference (Bio Vision Alexandria 2014, April) Bibliotheca Alexandria.
- Attended the course of general chromatography & new technique of the HPTLC (HPTLC , MS) by peak scientific instruments, S.A.E , 4/3/2014.
- Attended the workshop on research Ethics by center of excellence for drug preclinical studies at city for scientific research and technology applications, 5<sup>th</sup> June 2013.
- Attended the congress and participated in the activities of world Asthma day celebration by Alexandria society of allergy summer meeting, May 30<sup>th</sup>, 2013 Sheraton-Alexandria.
- Attended and participated in the activities of the 1<sup>st</sup> international scientific conference for syndicate of medical laboratory specialists (The future of medical analysis in Egypt) May 2013- Bibliotheca Alexandria
- Attended a workshop on knowledge and culture of ISO, at City for Scientific Research and Technology Applications, 9<sup>th</sup> April 2013.
- Attended the 48<sup>th</sup> international congress Allergy & Immunology in collaboration with the French society Allergy & Immunology 20-22 February 2013, Alexandria by Alexandria society of allergy.
- Attended a workshop on Bio-Fuel production 3<sup>rd</sup> February 2013 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.
- Attended the International conference on (Challenges Facing Health) Held in Bibliotheca Alexandria, Egypt 7-8 November 2012.
- Attended the workshop on wastewater reuse in agriculture 6, November 2012, Arid land cultivation research institute, city for scientific research and technology applications.

- Attended and presented a lecture at a training workshop (Bioassays of Medicinal plants) 2<sup>nd</sup> -11<sup>th</sup> September , 2011, organized by Medical Biotechnology Department, GEBRI, city for scientific research and technology applications.
- Attended and presented a lecture at a training workshop (Adulteration and detection of meat and milk species – specific using molecular genetic technique) 9<sup>th</sup> -11<sup>th</sup> July , 2012, organized by Nucleic acid research Department, GEBRI, city for scientific research and technology applications.
- Attended and Participated in the 2<sup>nd</sup> international workshop on industrial biotechnology at conference center – Cairo Egypt {sharing with poster} (02-21 July, 2011)
- Attended Conference (Bio Vision Alexandria 2012, 22-25 April) Bibliotheca Alexandria and sharing with poster (Co-production of Thermostable Cellulase and Xylanase using Statistical Experiment Design and Access to bio-ethanol from agricultural waste).
- Participated on a theoretical and practical training on "AKTA Prime Plus For Protein Purification" using different application techniques of chromatography within the frame of STDF project entitled "Microbial production of extremozymes with outstanding properties for food, industrial and bio-energy applications" at City for Scientific Research and Technology Applications 2010.
- Participated in the activities of "Fermentas Molecular Biology" seminar in City for Scientific Research and Technology Applications (sharing in practical part as Lecturer),2010.
- Activity contribution in the work shop on advances in Molecular Biology at City for Scientific Research and Technology Applications at 14-16 March, 2010. Alexandria, Egypt.
- Activity participated on training on Molecular Biology including: DNA-Extraction, Electrophoresis, DNA-sequencing and PCR. From 18-22 July 2010 at City for Scientific Research and Technology Applications, Alexandria, Egypt.
- Attended Conference (Bio Vision Alexandria 2010 11-15 April) Bibliotheca Alexandria and sharing with poster (coproduction of cellulose and xylanase using statistical design).

- Attended workshop on your factory and the environment industrial wastewater and environmental laws at City for Scientific Research and Technology Applications at July, 2009, Alexandria, Egypt.
- Attended an intensive training course in (Biological fluids between routine laboratory investigations and new modern technology II)organized by Faculty of science –Alexandria university during 29 June-.4 July 2009.
- Attended the 1<sup>st</sup> general assembly meeting of the North Africa and Middle East Science centers network(NAMES) at the Bibliotheca Alexandrina on 2-3 November 2008.
- Has completed the WIPO National Workshop (STL):***INTELLECTUAL PROPERTY (IP) STRATEGY AND Successful Technology Licensing (STL)***.organized by the world intellectual organization (WIPO) in cooperation with [The Academy of Scientific Research and Technology (ASRT), The Egyptian Patent office (EGPO) and The Mubarak City for Scientific Research and Technology Applications at Alexandria, March 2008.
- Has completed the training program in: Diagnostic Medical Microbiology. Organized by Faculty of science –Alexandria university in November 2007.
- Medical Microbiology. Organized by Faculty of Medicine –Alexandria university during November 2004-May 2006.
- Sharing in the training course in the faculty of science and faculty of medicine atAlexandria University during master(2003- 2006).
- Has completed the training program of ICDL during academic master course at Alexandria University 2004.
- Has completed the training program of Noor El-aeslam for Clinical Pathology 2002.
- Has completed the training program in Quality Control and Food Analysis, organized by Arab Republic of Egypt Ministry and Technological Development Chemical Administration 2001.

### Administrative Activities

List your Administrative Activities here...

(Activity Title, Description & Date)

### Extra-curriculum Activities

## PROJECTS

#### 1. Enzyme production Project:

**Project Title:** Bioprocess Development for the Biotechnological Production of Protease, Amylase and Lipase with Outstanding Characteristics for detergent and food industries"

**Location:** Bioprocess department- GEBRI- SRTA city

#### 2. Environmental study (biodegradation) Project:

**Project Title:** Innovative Approach of Bioremediation of the Oil Spills Contaminating Gulf of Aqaba and the Surrounding Region Using Naturally Isolated Oil-Degrading Bacterial Consortia: Pilot Study

**Location:** Bioprocess department- GEBRI- SRTA city

#### 3. Enzyme production Project:

**Project Title:** Studies on thermostable esterase(s) from *Geobacillus* spp. Novel thermostable esterase with dual activities, and typical thermostable carboxyl esterase, cloning, over- expression, applying of directed evolution and gene shuffling to produce new variant(s) with unique properties.

**Location:** Bioprocess department- GEBRI- SRTA city

#### 4. Enzyme production Project:

**Project Title:** Microbial production of extremozymes with outstanding properties for food, industrial and bio-energy applications.

**Location:** Bioprocess department- GEBRI- SRTA city

#### 5. Bioethanol production Project:

**Project Title:** Bioconversion of ethanol from agriculture wastes

**Location:** Bioprocess department- GEBRI- SRTA city (cooperation between City for Scientific Research and Technology Applications at Alexandria and national research center)

#### 6. production Project:

**Project Title:** Bioprocess development for production of thermostable alkaline protease enzyme on a pilot scale to use in detergent..

**Location:** Bioprocess department- GEBRI- SRTA city (cooperation between

	<p>GEBRI- SRTA city and Technology Centre (STC), National strategy for Genetic Engineering and Biotechnology)</p> <p><b>WORK AT SCIENTIFIC UNIT</b></p> <p><b>Sequencer unit :</b>  <b>Location:</b> The City for Scientific Research and Technology Applications at Alexandria  Date: 1/1/2011- 1/4/2013.  Experience gained from working within the unit: Different techniques of molecular biology, Bioinformatics using different genetics programs. Use of a genetic analysis (3130) and analysis by entering data for the different samples in the data bank. Some experience in administrative matters as a result of the work at SRTA city.</p> <p><b>GMO unit</b>  <b>Location:</b> The City for Scientific Research and Technology Applications at Alexandria  Date: 2016- 15-3-2021.  <b>Experience gained from working within the unit</b>  Different techniques of molecular biology, which includes (how to detect the genetically modified organisms)</p>
<p><b>GRANTS &amp; AWARDS</b></p>	<p><a href="#">List your Grants here... (start with the most recent)</a>  (Grant's Name – Date – Location)</p> <hr/> <p><b>Awards</b>  <a href="#">List your Awards here... (start with the most recent)</a>  (Award's Name – Date – Location)</p>
<p><b>LIST OF PUBLICATIONS</b></p>	<p>- Tamer, T. M., Eweida, B. Y., Omer, A. M., Soliman, H. M., <b>Ali, S. M.</b>, Zaatot, A. A., Mohy-Eldin, M. S. (2021). Removal of Oil Spills by Novel Amphiphilic Chitosan-g-Octanal Schiff Base Polymer Developed by Click Grafting Technique. Journal of Saudi Chemical Society, 101369.</p>

- Marwa H.Gouda, **Safaa M. Ali**, Sarah Samir Othman, SamiaA.AbdAl-Aziz, Marwa M. Abu-Serie, NohaA. Elsokary, NohaA. Elessawy. (2021). Novel scaffold based grapheme oxide doped electrospun iota carrageenan/polyvinyl alcohol for wound healing and pathogen reduction: in-vitro and in-vivo study. Scientific Reports. 11: 20456 | <https://doi.org/10.1038/s41598-021-00069-0>
- Ahmed Mohamed Omer, BasantYossry Eweida, Tamer MahmoudTamer, Hesham M.A. Soliman, **Safaa Mohamed Ali**, AhmedAmin Zaatot and Mohamed Samir Mohy-Eldin. Removal of oil spills by novel developed amphiphilic chitosan-g-citronellal Schiff base polymer. Scientific reports. 11Article number: 19879.
- Ahmed E. A. Khalaf, Samia A. Abd Al-Aziz, **Safaa M. Ali**, Adel A. Mohdaly, Mostafa M. Rady, Ali Majrashi, Esmat F. Ali and Ahmed A. M. Yassein. 2021. Morphological Formation, Fatty Acid Profile, and Molecular Identification of Some Landraces of Ethiopian Brassica as a Promising Crop to Support Breeding Programs. Plants. 10, 1431. <https://doi.org/10.3390/plants10071431>.
- Sarah Samir Othman, **Safaa Mohamed Ali** (2021). Antimicrobial and Histological Data Effect of Silybum marianum and Suaeda vermiculata Against Doxorubicin Induced Toxicity in Male Rats. Asian Pacific Journal of Cancer Prevention. 22: 1761-1766.
- Samia Abd Allah Abdal-Aziz and **Safaa M. Ali**. 2021. Molecular Characterization and Differentiation of Proteases Isolated from Different Aspergillus Fungal Species. Online journal of biological science. 21 (1): 69-119.
- Aman A. Sorour, **Safaa M. Ali**, Moustafa Y. El-Naggar and Zakia A. Olama. 2020. Isolation and optimization of cellulase production by Aspergillus penicillioides 12 ASZ using experimental design. Ecology, Environment and Conservation. S71-S77.
- Lamiaa A. Al-Madboly, **Safaa M. Ali**, Esmail M. El Fakharany, Amany E. Ragab, Eman G. Khedr and Khaled M. Elokely. 2020. Stress-Based Production, and Characterization of Glutathione Peroxidase and Glutathione S-Transferase

Enzymes From *Lactobacillus plantarum*. *Frontiers in Bioengineering and Biotechnology*. 8: 1-16.

- Noha A Elessawy, Marwa H Gouda, Marwa F Elkady, Safaa M Ali, M Gouda, Mohamed S Mohy Eldin. 2020. Ultra-fast removal of cadmium and lead from wastewater using high-efficient adsorbent derived from plastic waste: statistical modeling, kinetic and isotherm studies. *Desalination and water treatment*. 173: 394-408

- Sarah Samir Othman, **Safaa Mohamed Ali**, Nehal M. El- Deeb. 2020. Protective Effect of *Silybum marianum* Extract against Doxorubicin Induced Toxicity in Male Rats. *PSM Biological Research*. 5: 14-21.

- Noha A. Elessawy , M. H. Gouda , **Safaa M. Ali**, M. Salerno and M. S. Mohy Eldin. 2020. Effective Elimination of Contaminant Antibiotics Using High-Surface-Area Magnetic-Functionalized Graphene Nanocomposites Developed from PlasticWaste. *Materials*. doi:10.3390/ma13071517

- Noha A. Elessawya, Eman M. El-Sayed, **Safaa Ali**, Marwa F. Elkady, Mohamed Elnoubye and Hesham A. Hamad. 2020. One-pot green synthesis of magnetic fullerene nanocomposite for adsorption characteristics. *Journal of Water Process Engineering*. <https://doi.org/10.1016/j.jwpe.2019.101047>.

- Waleed K. Alkhafaje, **Safaa M. Ali** and Zakia A. Olama. 2020. Molecular characterization of *Staphylococcus* Sp. Isolated from Different Types of Cheese. *Asian journal of microbiology, biotechnology and environmental science*.

- Sarah Samir Othman, **Safaa Mohamed Ali** and Nehal M. El-Deeb. 2019. *Suaeda vermiculata* Extract as Protective Agent Against Doxorubicin Induced Toxicity in Rats. *Global Journal of Biotechnology & Biochemistry* 14 (2): 17-20.

- **Safaa M. Ali** and Nadia A. Soliman. 2019. New source of cellulase production using a metagenomic technique .*Novel Research in Microbiology Journal*. 3 (6).

- Bassma H. Elwakil, **Safaa M. Ali**, Soad F. Hafez, Adnan A. Bekhit, Moustafa Y. El-Naggar and Zakia A. Olama. 2019. Resistance prevalence profile of *Klebsiella pneumoniae* in the Intensive Care Units of AlShatby Pediatric Hospital, Alexandria, Egypt. *Novel Research in Microbiology Journal*, 3(6).

- Waleed K. Alkhafaje, **Safaa M. Ali** and Zakia A. Olama. 2019. Isolation and molecular differentiation of MDR bacteria isolated from dairy products. *Pollution Research*. 38 (4): 109-115.
- Nazly Hassan , **Safaa M Ali**, Asmaa Ebrahim and Hala El-Adawi. 2019. Performance evaluation and optimization of *Camellia sinensis* extract as green corrosion inhibitor for mild steel in acidic medium. *Mater. Res. Express* 6 <https://doi.org/10.1088/2053-1591/ab2376>
- Noha A. Elessawy, Marwa H. Gouda, Marwa F. Elkady, **Safaa M. Ali**, M. Gouda and Mohamed S. Mohy Eldin. 2019. Ultra-fast removal of cadmium and lead from wastewater using high-efficient adsorbent derived from plastic waste: statistical modeling, kinetic and isotherm studies. *Desalination and Water Treatment*. doi: 10.5004/dwt.2019.24809.
- Sahar W.M. Hassan, **Safaa M. Ali** and Mennatallah M. AlMisherfi. 2018. Isolation and Molecular Characterization of Some Marine *Aeromonas* phages: Protective Effects for Nile tilapia Infected with *Aeromonas hydrophila*. *Journal of Pure and Applied Microbiology*. 12 (3): 1175-1185.
- Sahar W. M. Hassan<sup>1</sup>, Hala H. Abd El Latif and **Safaa M. Ali**. 2018. Production of Cold-Active Lipase by Free and Immobilized Marine *Bacillus cereus* HSS: Application in Wastewater Treatment. *Frontiers in Microbiology*. *Frontier in microbiology*. volum 9 2377.
- **Safaa M. Ali**, Sana H. Omar and Nadia A. Soliman.2018. Statistical Optimization for Thermostable Xylanase production by *Geobacillus stearothermophilus* NASA267 and access to Sugar Production from some Agricultural Waste. *Research Journal of Biotechnology*
- Noha A. El Essawya, **Safaa M. Ali**, Hassan A. Farag, Abdelaziz H. Konsowa, Mohamed Elnouby, Hesham A. Hamad. 2017. Green synthesis of graphene from recycled PET bottle wastes for use in the adsorption of dyes in aqueous solution. *Ecotoxicology and Environmental Safety* (145) 57–68.
- Lamiaa A. Al-Madboly, Eman G. Kheder, **Safaa M. Ali**. 2016. Optimization of reduced glutathione production by *Lactobacillus plantarum* isolate using Plaket-Burman and Box-Benken designs. *Frontiers in Microbiology*.

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|  | <p>-<b>Ali S.</b>, N. Soliman, S. Abdel-Rahman. 2015. Isolation and Molecular Differentiation of <i>Brucella</i> Isolates in Some Foods in Egypt. Australian Journal of Basic and Applied Sciences, 9: 103-109.</p> <p>- <b>Safaa M. Ali</b>, Sana H. Omar and Nadia A. Soliman. 2013. Co-Production of Cellulase and Xylanase Enzymes By Thermophilic <i>Bacillus subtilis</i> 276NS. International Journal of Biotechnology for Wellness Industries, 2, 65-74.</p> <p>- <b>Safaa M. Ali</b>, Zakia A. Olama, Nadia A. Suliman, Nashwa A. Khadr. 2009. Studies on resistant <i>Klebsiella</i> spp. Producing CTX-M Type Extended Spectrum <math>\beta</math>-Lactamase Which cause Urinary Tract Infection. Magazine of Biotechnology Research.</p> |
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