

Soha Farag Ibrahem

Professor at Environmental Biotechnology Department.

PERSONAL INFORMATION	Affiliations: Address: Mobile No.:	Soha Farag Ibrahem Professor at Environmental Biotechnology Department. City of Scientific Research and Technological Applications. New Borg El-Arab City. Alexandria-Egypt (00203) 4970754 & (002) 01226549584 sohafarag88@yahoo.com
EDUCATION	Professor Degree at 24-10-2018. Associate Professor Degree at 31-12- 2012. Ph.D. Degree from Alexandria University Faculty of Science, Department of biochemistry Science. (2007). The title is (Integrated Microbial Degradation System(s) for Hydrocarbon Polluted Sites). Master Degree from Alexandria University Faculty of Science, Department of biochemist Science. (2003). The title is (Microbial Treatment of heavy metal Containing Wastewater).	
ACTIVITIES	Conferences: 1. Attendance in the 4th Annual International Wikimedia Conference Bibliotheca Alexandria, 17-19 July 2008. Conference at bibliotheca Alexandria, Egypt.	
	Environm Alexandr Sahar A.	e in the 1st International Conference on Contemporary tental Issues in Arid and Semi-Aird Regions, at the Bibliotheca ia, Egypt, 25-27 October 2008. (Oral presentation). Zaki and Soha Farag (2008): Biodiversity Conservation from etal Polluted Sites in Egypt.
	Middle 1	ce in the 1st General Assembly Meeting of the North Africa and East Science centres Network (NAMES) at the Bibliotheca ia, Egypt, 2-3 November 2008.
	_	e in the 15th International Conference on Biological Sciences niversity, Egypt), 5-6 November 2008. (Oral presentation).

- 1- **Soha Farag**, Nadia A. Soliman, Yasser R. Abdel-Fattah, Gada-Al-Said (2008): Biodegradation of crude oil and hydrocarbons by Candida tropicalis strains isolated from Egypt.
- 2- Nadia A. Soliman, **Soha Farag**, Yasser R. Abdel-Fattah, Gada-Al-Said (2008): Application of response surface methodology for optimizing the crude oil degradation by Candida tropicalis isolate.
- 5. Attendance in the conference, Science Supercourse Day, at the Bibliotheca Alexandria on 5-6 January 2009.
- 6. Attendance in the conference, the second international conference of Ecology 15-16 November 2009.
- 7. Participate in the conference, The 2nd International Conference on Biological &Environmental Science. Al-Mansoura University, Egypt, 15-20 March 2010. (poster presentation)
 - **Soha Farag**, Yasser R. Abdel-Fattah and Nadia A. Soliman (2010): Optimization of immobilization conditions for petroleum oil biodegradation using wood chips and wax as carriers for Candida spp.
- 8. Attendance in the conference, BioVision Alexandria 2010 Conference, at the Bibliotheca Alexandria on 11-15 April 2010.
- 9. Participate in the conference, 14th International Biotechnology Symposium and Exhibition Biotechnology for the Sustainability of Human Society 14-18 September 2010 · Palacongressi, Rimini Italy. (Two poster presentation).
 - 1- Sahar Zaki and **Soha Farag** (2010): Isolation and molecular characterization of some copper biosorped strains.
- 2- **Soha Farag**, Yasser R. Abdel-Fattah and Nadia A. Soliman (2010): Optimization of immobilization conditions for petroleum oil biodegradation using wood chips and wax as carriers for Candida spp.
- 10. Participate in the conference, 5th Saudi Science Conference "A New Vision of the Role of Basic Science in Development" 16-18 April 2012. Makkah Saudi Arabia. (Two poster presentation).
 - 1- **Soha Farag**, Nadia A. Soliman and Yasser R. Abdel-Fattah (2012): Bioremediation of crude oil using oil degrading bacteria and its

- characteristics.
- 2- Sahar Zaki, M.F. El-Kady, **Soha Farag** and Desouky Abd-El-Haleem (2012): Utilization of biosynthesized nano-silver as anti-microbial agent and its application for water treatment.
- 11. Attendance in the conference, BioVision Alexandria 2012 Conference, at the Bibliotheca Alexandria on 22-25 April 2012.
- 12. Participate in the conference, The 11th international conference in chemistry and its role in development, Faculty of science, Mansoura University, 11-15/3/2013, Sharm El-Sheiikh.
 - M.F. El-Kady, Sahar Zaki, , <u>Soha Farag</u> and Desouky Abd-El-Haleem (2013): "Employment of some microbial biopolymers in absorbing basic yellow dye from aqueous solution" published at the 11th international conference in chemistry and its role in development, Faculty of science, Mansoura University, 11-15/3/2013, Sharm El-Sheiikh. "Poster"
- 13. Participate in the conference, International Science conference, 22-23 May, 2014 at Berlin Germany (Oral presentation)
 - Desouky Abd-El-Haleem, Marwa F. El-Kady, Sahar Zaki, <u>Soha Farag</u> (2014): Kinetic, Equilibrium and Thermodynamic Assessment of Basic Yellow Dye Biosorption Using Egyptian Isolated Microbial Biopolymers.
- 14. Attendance in the conference The 15th Arab International Conference on Materials Science 'Materials for Water Applications', Institute of Graduate Studies and Research, Alexandria, Egypt, 2-4 December, 2014.
- 15. Attendance in the conference "Pharmaceutical Biotechnology", Institute of Graduate Studies and Research, Alexandria, Egypt, 24-25 December, 2014.
- 16. Participate in the conference, First International Conference on Applied Chemistry (ICAC 2015) "Chemistry for Sustainable World" November 18-19, 2015, Jeddah, Saudi Arabia. "Two poster presentation"
 - <u>Soha Farag*</u>, Fatma Bekhit, and Ahmed M. Attia (2015): Bacterial Isolation, Optimization and Immobilization for Decolorization and Degradation of the Azo Dye (Basic Red 46).
 - <u>Soha Farag*</u>, Anwaar Arafa, Manal A. Mahdaly, Mai M. Badr (2015): Biodegradation of petroleum industry oily sludge by bacterial consortium and its application in land farming.
- 17. Attendance in the conference, BioVision Alexandria 2016 Conference, at

the Bibliotheca Alexandria on 12-14 April 2016.

Organizing committee for the workshop:

- 1- Workshop "Your Factory and the Environment Industrial wastewater and environmental laws" 6-7 July, 2009. Mubarak City for Scientific Research and Technology Applications, Alexandria, Egypt.
- 2- Workshop "Detection of Pathogenic Bacteria in Water and Food" 25-27 June, 2012. City for Scientific Research and Technology Applications, Alexandria, Egypt.

Workshop:

- 1- Active contribution to the training course in " المراجعات الداخلية لنظام أدارة الجودة لمعامل المعايرة والأختبار " طبقا للمواصفة العالمية ISO-17025:2005. 10 -13 September 2007, Mubarak City for Scientific Research and Technology Applications, Alexandria.
- 2- Active contribution to the training course in "Environmental Impact Assessment (EIA) for Sustainable Development Workshop". 9 -11 December, 2007. Alexandria University Faculty of Science.
- 3- Complete the WIPO National workshop "Successful Technology Licensing (STL), THE workshop was organized by Intellectual Property Organization (WIPO) in cooperation with the Academy of Science, the Egyptian Patent Office and Mubarak City for Scientific Research and Technology Applications. Alexandria, 10-13 March 2008.
- 4- Active contribution to the training course in "Molecular Biology: Theory and practice Workshop". 23 -27 March 2008, Alexandria University Faculty of Science.
- 5- Active contribution to the training course in "The Elemental Analysis using the ICP Instrument and its Applications". 26 -27 May 2009, Mubarak City for Scientific Research and Technology Applications, Alexandria.
- 6- Active contribution in the TOT workshop on HIV/AIDS. 25 -26 October 2009, Mubarak City for Scientific Research and Technology Applications, Alexandria.

- 7- Active contribution in the Workshop "Detection of Pathogenic Bacteria in Water and Food" 25-27 June 2012, City for Scientific Research and Technology Applications, Alexandria.
- 8- Active contribution in the Workshop "Bio-Fuel Production" 3rd February, 2013, City of Scientific Research and Technological Applications in Cooperation with YONSEI University, Alexandria.
- 9- Active contribution to the training course in "Symposium on SurPASSElectrokinetic Analyzer". 30 April, 2014, National Research Center, Cairo, Egypt.
- 10-Active contribution in the Workshop "Industrial Biotechnology" 13 May, 2014, City of Scientific Research and Technology Applications, Alexandria.
- 11-Active contribution in the Workshop "Environmental Friendly Bio-products" 24 June, 2014, City of Scientific Research and Technology Applications, Alexandria.
- 12-Active contribution in the Workshop "Microbial Identification for the 21st Century" 18th august, 2014, City of Scientific Research and Technology Applications, Alexandria.
- 13-Active contribution to the training course in "Data analysis and modelling using CoStat statistical software" 1st December, 2014, City of Scientific Research and Technology Applications, Alexandria.
- 14-Active contribution in the Workshop "Nanotechnology and its Biological applications workshop " 20th April, 2015, City of Scientific Research and Technology Applications, Alexandria.
- 15- Active contribution in the Workshop "Moringa, its Food and Medical Importance" 11th May, 2015, City of Scientific Research and Technology Applications, Alexandria.
- 16-Active contribution in the Workshop "Research Ethics: Basics and Principles" 29th March, 2016, City of Scientific Research and Technology

- Applications, Alexandria.
- 17- Active contribution in the Workshop "Environment: Challenges & Solutions" 5th April, 2016, Bibliotheca Alexandria, Alexandria.
- 18-Active contribution in the Workshop "Contaminants in Water and Food " 28th March 2017, Hilton Alexandria king's Ranch, Alexandria.
- 19-Active contribution in the Workshop "SolariX the complete solution" 8th August 2017, City of Scientific Research and Technology Applications, Alexandria.

عضوية اللجان المتخصصة بالمدينة

- 1- عضو مجلس معهد الهندسة الوراثية والتكنولوجيا الحيوية لدورة 2011/2010.
 - 2- عضومجلس قسم التكنولوجيا الحيوية البيئية لدورتة من 2010 حتى 2020.
- 3- عضو في لجنة لجرد الدوريات الموجودة بمكتبة معهد بحوث الهندسة الوراثية 10/ 2010.
- 4- عضو فى لجنة قسم التكنولوجيا الحيوية البيئية لفحص أوراق ومستندات ورسائل الماجستير الخاصة بالمتقدمين لشغل وظائف باحث مساعد فى مجال القسم والمعلن عنها بتاريخ 1و 2011/3/2.
- 5- عضو في لجنة البت للمناقصة العامة رقم 3 بشأن توريد كيماويات معملية لمعهد بحوث الهندسة الور اثبة للعام المالي 2012/2011.
 - 6- عضو مجلس معهد الهندسة الوراثية والتكنولوجيا الحيوية لدوراتة من 2012 حتى 2020.
- 7- عضو في لجنة فتح المظاريف للمناقصة العامة رقم 18 لسنة 2013 والخاصة بتوريد كيماويات معملية لمعهد بحوث الهندسة الوراثية للعام المالي 2013/2012.
 - 8- عضو في لجنة لفحص الكيماويات الموجودة بالمخازن 11/ 2013.
- و- عضو في لجنة فتح المظاريف للمناقصة العامة لسنة 2014 والخاصة بتوريد بلاستيكات وزجاجيات لمعهد بحوث الهندسة الوراثية للعام المالي 2015/2014.
- 10- عضو في لجنة البت للمناقصة العامة لسنة 2015 والخاصة بتوريد مكملات للأجهزة العلمية لمعهد بحوث الهندسة الوراثية للعام المالي 2015/2014.
 - 11- عضو في لجنة الدورات التدريبية وورش العمل لعام 2016 /2017.

12- عضو في لجنة البت للمناقصة العامة للعام المالي 2016/ 2017 لتوريد بلاستيكات وزجاجيات وكيماويات ومستلزمات لمعهد بحوث الهندسة الوراثية قسم التكنولوجيا الحيوية البيئية.

- 13- عضو في لجنة التسجيلات العلمية والدراسات العليا 2018-2020.
- 14- عضو في لجنة نقل المعرفة التكنولوجية من 2019 الى الوقت الحالي.
- 15- عضو في لجنة تطوير وأدارة المشاريع البحثية من 2019 الى الوقت الحالي.
- 16- عضو في لجنة عمل محطة لأعادة تدوير مياة الصرف الخاصة بالمدينة 2019.

17- رئيس لجنة لأعداد كراسة الشروط والمواصفات تمهيدا لتنفيذ مشروع عمل محطة لأعادة تدوير مياة الصرف الخاصة بالمدينة 2020 .

GRANTS & AWARDS

- 1. Principle investigator at the project entitled: Studies on Oil Bioremediation and Application of Different Techniques for Improvement Oil Removal. Supported by STDF (2011 extended to 2016), number (1196)...... Finished.
- 2. Collaborator at the project entitled: A Field Portable Toxicity Tester Using Bacterial Bioluminescence. Supported by STDF (2012-2017).....Finished
- 3. Collaborator at the project entitled: Disinfiction, deodorizing and improvement of water and treated wastewater quality using biosynthesized nanosized silver. Supported by STDF (2011-2014).... Finished.
- 4. Collaborator at the project entitled: 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. Supported by STDF (2009 extended to 2015)......Finished.
- 5. Collaborator at the project entitled: Purification of water and wastewater by natural biodegradable bioflocculants. Supported by STDF (2009-2013)...... Finished
- 6. Collaborator at the project entitled: Enhancing the biodegradation of oil spills and oil refinery by products using genetic engineering of indigenous microorganisms (Program for National Strategy for Genetic Engineering and Biotechnology fund, GBENV-002-002-003) supported by National Academy of Science with 560,000 EP (1999 till 2004). A second phase extension has been

financially supported by the funds provided from National Academy of Science with 300,000 Egyptian Pounds......Finished.

7. Internal project: from City for Scientific Research and Technology Applications.

Biological Treatment of Wastewater Contaminated by Chromium. (2008-2009)... Finished.

LIST OF PUBLICATIONS

- H. Hussein, H. Moawad, <u>S. Farag</u> (2004): Isolation and characterization of Pseudomonas resistant to heavy metals contaminants. Arab.J. biotech., Vol 7, No 1 Jan. (2004): 13-22.
- H. Hussein, <u>S. Farag</u>, K. Kandial, H. Moawad (2004): Biosorption of heavy metals from waste water using *Pseudomonas* sp. Electronic journal of Biotechnology: 0717-3458.
- H. Hussein, **S. Farag**, K. Kandial, H. Moawad (2005): Tolerance and uptake of heavy metals by *Pseudomonas*. Biochemistry, 40, pp. 955-961.
- <u>Soha Farag</u>, Sahar Zaki (2010): Identification of bacterial strains from tannery effluent and reduction of hexavalent chromium. Journal of Environmental Biology, 31, pp. 877-882.
- Sahar Zaki, <u>Soha Farag</u> (2010): Isolation and molecular characterization of some copper biosorped strains. The International Journal of Environmental Science and Technology (IJEST) Int. J. Environ. Sci. Tech., 7 (3), pp. 553-560.
- M.F. Elkady, <u>Soha Farag</u>, Sahar Zaki, Gadallah Abu-Elreesh, Desouky Abd-El-Haleem (2011): *Bacillus mojavensis* Strain 32A, a Bioflocculant-Producing Bacterium Isolated From an Egyptian Salt Production Pond. Bioresource Technology, 102, pp. 8143-8151.
- Gadallah Abu-Elreesh, Sahar Zaki, <u>Soha Farag</u>, Marwa El-Kady and Desouky Abd-El-Haleem (2011): Exobiopolymer from polyhydroxyalkanoate-producing transgenic yeast. African Journal of Biotechnology, 10(34), pp. 6558-6563, 11 July.
- <u>Soha Farag</u>, Nadia A. Soliman (2011): Biodegradation of Crude Petroleum Oil and Environmental Pollutants by *Candida tropicalis* Strain. Braz. Arch. Biol. Technol. 54(4), pp. 821-830
- S. Zaki; <u>S. Farag</u>; G. Abu-Elreesh; M. Elkady; M. Nosier; *D. Abd-El-Haleem (2011): Characterization of bioflocculants produced by bacteria isolated from crude petroleum oil. Int. J. Environ. Sci. Tech., 8 (4), pp. 831-840, September.
- Sahar A. Zaki, Marwa F. Elkady, <u>Soha Farag</u>, and Desouky A.M. Abd-El-Haleem (2012): Determination of the effective origin source for nanosilver

- particles produced by *Escherichia Coli* strain S78 and its application as antimicrobial agent. Materials Research Bulletin.47, 4286-4290.
- Sahar A. Zaki, Marwa F. Elkady, <u>Soha Farag</u>, and Desouky A.M. Abd-El-Haleem (2013): Characterization and flocculation properties of a carbohydrate bioflocculant from a newly isolated *Bacillus velezensis* 40B. Journal of Environmental Biology, Vol. 34, 51-58, January 2013.
- <u>Soha Farag</u>, Sahar Zaki, M.F. Elkady, and Desouky Abd-El-Haleem (2014): Production and Characteristics of A Bioflocculant Produced By Pseudomonas SP. STRAIN 38A. Journal of Advances in Biology. 4(1), 286-295.
- Ranya Amer, Nour Sh. El-Gendy, Tarek Taha, <u>Soha Farag</u> and Yasser Abdel Fattah (2014): Biodegardation of crude oil and its kinetics using indigenous bacterial consortium isolated from contaminated area in Egyptian Mediterranean ecosystem. Jokull Journal. 64 (4), 42-58.
- Anwaar Arafa, <u>Soha Farag*</u>, Manal A. Mahdaly, Mai M. Badr (2016): Biodegradation of Petroleum Industry Oily Sludge by Bacterial Consortium and Its Application in Land Farming. Pakistan Journal of Biotechnology Vol. 13 No. 1, 1 - 11.
- <u>Soha Farag*</u>, Fatma Bekhit, and Ahmed M. Attia (2016): Bacterial Isolation, Optimization and Immobilization for Decolorization and Degradation of the Azo Dye (Basic Red 46). Research Journal of Pharmaceutical, Biological and Chemical Sciences. 7(4), 1323-1335.
- <u>Soha Farag</u>, Nadia A. Soliman, Yasser R. Abdel-Fattah (2016): Optimization of Immobilization Conditions for Petroleum Oil Biodegradation by Candida tropicalis AQ1 using Wood Chips and Wax. Res J Pharm Biol Chem Sci. 7(5), 200-210.
- M. F. Elkady, <u>Soha Farag*</u> and Ahmed M. Haddad (2016): Evaluation of Novel Synthesized Magnetic Bacterial Bio-composite Material for Lead Bioremediation. Journal of Pure and Applied Microbiology, Vol. 10(4), p. 3201-3212.
- Marwa Elkady, Sahar Zaki, <u>Soha Farag</u> and Desouky Abd-El-Haleem (2017): Bioflocculation of Basic Dye onto Isolated Microbial Biopolymers. Chemical and Biochemical Engineering Quarterly, CABEQ Vol. 31, 209–224.

- Soha Farag*, Nadia A. Soliman, Yasser R. Abdel-Fattah (2018): Statistical optimization of crude oil bio-degradation by a local marine bacterium isolate *Pseudomonas* sp. sp48, Journal of Genetic Engineering and Biotechnology, Vol. 16, pp. 409–420.
- <u>Soha Farag*</u>, Nadia A. Soliman, Yasser R. Abdel-Fattah (2018): Enhancement of Crude Oil Biodegradation by Immobilized Bacterial Consortium in Small Batch and Continuous Bioreactor Modes. Egyptian Journal of Chemistry. Vol. 61, No. 6, pp. 1019 1030.
- Soha Farag*, Anwar Arafa, Marwa F. Elkady, Mai M. Badr, Magda M. Abdel Aty (2018): Evaluation of Biosynthesized Magnetite Nanoparticles for COD Reduction from Paper Recycling Plant Wastewater. Research Journal of Chemistry and Environment, Vol. 22, No 10, pp. 13-23.