



YOUR NAME: RANYA ALY AMER

CURRENT POSITION: PROFESSOR OF ENVIRONMENTAL MICROBIOLOGY

PERSONAL INFORMATION	<p>Full Name: Ranya Aly Helmy Amer</p> <p>Affiliations: Professor of Environmental Biotechnology</p> <p>Address: 557 Horreya St. Gleem Alexandria</p> <p>Mobile No.: +20 100 1785633</p> <p>E-mail: ramer@srtacity.sci.eg</p> <p>Important links: https://www.linkedin.com/in/ranya-amer-10846936/ https://orcid.scopusfeedback.com/#/personal_details_result</p>
EDUCATION	<p>List your Degrees here... (start with the most recent)</p> <p>(Degree's Name & Year) – in BOLD</p> <ol style="list-style-type: none"> 1. Master in Business and Administration MBA from ESLSCA from 2018. 2. Academic degree of Full Professor September 2014. 3. Academic degree of Associate Professor 26th June 2009. 4. Ph.D. in Environmental Microbiology entitled "Regulation of Heavy Metal Homeostasis Genes in Halophilic Bacteria". Alexandria University, 2003. 5. M.Sc. in Microbiology, entitled "Studies on the Accumulation of Some Metals by the Gram-Negative Bacteria <i>Pseudomonas</i> sp." Alexandria University. 1997. 6. B.Sc. in Microbiology, grade "very good", Faculty of Science Alexandria University, 1993.
ACTIVITIES	<p>Scientific Activities</p> <p>PROJECTS:</p> <ol style="list-style-type: none"> 1. International Project Leader for "Ecotoxicological assessment for small-scale wastewater treatment in rural communities (AFROMONITOX). Swedish research grant (Network grant). 2020-2022. (55000 Euro.) 2. PI for "Industrial Waste Remediation: from Pollution to Energy (WIPER)" STDF funded, 2020-2022. (3000K LE) 3. PI for "International Post Graduate Studies in Environmental management and Sustainability for Mediterranean Countries (ENVIPRO-Med)" Funded by IRD from January 2020 December to 2023. (30,000 Euros) 4. PI for AfriAlliance-Action group: Socio Economic Approach for Integrated Water Management in Rural Areas (SoWat) Project coordinator - funded by Horizon2020. January 2019 to December 2021. 5. "Study of the Biodegradation of Organic Pollutants in Accordance to the Sediment Redox Potential of the Lake Mariout" Egyptian Coordinator -funded by the Academy of Science under Imhotep calls. 2017-2019.

	<ol style="list-style-type: none"> 6. “Electrochemically Enhanced & Controlled Bioremediation in Water (EL-ENCOBIO)- Egyptian partner - funded by ENVIMED France and MISTRALES, 2017 and 2019. 7. Influence of Water Pollution on Health Status of the Population in North Africa (H2OPOL) Egyptian partner -Funded by Belgium government. 2016-2018. 8. Cyanotoxins in the Nile Water: Combining Molecular and Analytical Tools to Evaluate their Significance. PI in STDF funded project in 2009-2014. (750,000 LE) 9. FP7 project "Unraveling and Exploiting Mediterranean Sea Microbial Diversity and Ecology for Xenobiotics and Pollutants clean up- ULIXES" Co-PI in the project funded by EU in 2011-2014. (3,000,000 Euro and the Egyptian share was 175,000 Euro) 10. Molecular Monitoring of Toxin Producing Cyanobacteria in the River Nile. Egyptian partner (PI) in the project funded from SIDA-MENA in the period of (2006-2008). (250,000 SEK) 11. Enhancing the Biodegradation of Oil Spills and Oil Refinery Byproducts Using Genetic Engineering of Indigenous Microorganisms. Co-PI in the project funded from National Strategy for Biotechnology and Genetic Engineering during the period of 11-08-1998 to 10-02-2004. 12. Microbial Production of a Biosurfactant Exhibiting Excellent Emulsification and Surface Active Properties. Cooperative researcher in the project funded from US-Egypt Partnership during the period of 2/3/2004 to 31/8/2006 <p>CONFERENCES: (last 5 years) (presenting and chairing sessions)</p> <ol style="list-style-type: none"> 1. The 20th African Water Association International Congress, Kampala, Uganda, 23-27 February 2020. 2. Chairing, presenting and member in the Scientific committee of “ChinAfrica Water Forum 7th” entitled “Risk Reduction Through Sustainable Water Management in Developing Countries” from 22 -27 July 2019, in Namibia. 3. International Water Association (IWA) entitled “River Basin Management” 09 to 11 Oct 2017, Skukuza Camp, Kruger National Park. South Africa. 4. Chairing person and Scientific committee of “ChinAfrica Water Forum 5th” entitled “Sustainable utilization of water resources in developing countries” 31 July to 2th August 2017, in Zimbabwe. 5. Chairing person and Scientific committee of “ChinAfrica Water Forum 4th” entitled “International symposium of sustainable utilization of water resources in developing countries” 1st to 3th August 2016, in Taiyuan, China 6. Keynote speaker in “Ecohydrology, 2015” Measuring, Modeling and Managing of the natural processes related to water flows, Social values of the linked ecosystem services. Organized by UNESCO. 21st to 23th September 2015. 7. “ISWA’15 World Congress”, 7 to 9 September 2015, Antwerp, Belgium 8. Chairing person at “ChinAfrica Water Forum 3th” 16th to 19th August 2015, in South Africa 9. Keynote speaker in “First International Congress Human-Health in the Environment at risks”, June 2015 in Gafsa, Tunisia. 10. The IAFOR North American Conference on Sustainability, Energy and the Environment. The paper entitled: Crude oil biodegradation by the indigenous bacterial consortium in Mediterranean Sea: isolation, identification and in-situ biodegradation. September 11-14, 2014, Providence. USA. 11. 17th International Conference on Petroleum, Mineral Resources and Development”. The paper entitled: Biodegradation of crude oil by using indigenous bacterial consortium
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	<p>isolated from contaminated area in Egyptian Mediterranean ecosystem. 9-11 February. 2014. Egyptian Petroleum Research Institute, Cairo. Egypt</p> <p>12. MedRem-2014 “Microbial Resources Management for Polluted Marine Environments and Bioremediation”. The paper entitled: Biodegradation of crude oil by using indigenous bacterial consortium isolated from contaminated area in Egyptian Mediterranean ecosystem. 16-18 January 2014, Hammamet, Tunisia.</p> <p>ORGANIZING SCIENTIFIC EVENTS:</p> <ol style="list-style-type: none"> 1. ChinAfrica Water Forum No. 6. “Sustainable Development of Water Resources in Developing Countries”. Sharm El Sheikh, Egypt. 23-25 July 2018 2. International Conference on Environmental Pollution, Risk Assessment and Remediation, 18-20 April 2018 in Mahdia Palace, Mahdia –Tunisia 3. Workshop “Environment: Challenges and Solutions” 5th April 2016. Organized by ENMRI, SRTA-City. 4. Member in the Scientific organization of “Ecohydrology, 2015” Measuring, Modeling and Managing of the natural processes related to water flows, Social values of the linked ecosystem services. Organized by UNESCO. 21st to 23th September 2015. 5. Workshop of “Bioassay of Medicinal Plants” giving lecture and responsible for some practical sessions. City for Scientific Research and Technology Applications (SRTA-City). 2nd – 11th September 2012, Alexandria. Egypt. 6. "Detection of Pathogenic Bacteria in Water and Foods". City for Scientific Research and Technology Applications (SRTA-City). 25-27 June 2012, Alexandria. Egypt 7. “Quality and Environmental Management Workshop” from 4 to 8 August 2010 at Mubarak City, Alexandria. Egypt. 8. Your Factory and the Environment “Industrial Wastewater and Environmental Laws” from 6 to 7 July, Alexandria, Egypt. <p>Administrative Activities</p> <ol style="list-style-type: none"> 1. Chairperson of Department of Biological Sciences, Faculty of Science, Beirut Arab University (BAU), Lebanon September 2019 – August 2020. 2. Acting dean ENMRI - SRTA-City, Alexandria, Egypt, July 2009- August 2019. 3. Vice- Manager of Central Lab for Scientific Services Environmental Assessment SRTA-City, October 2010 – 2019. <p>Extra-curriculum Activities</p> <p>MANAGEMENT AND TRAINING COURSES</p> <ol style="list-style-type: none"> 1. Climate1x: Climate Change: The Science an online learning initiative of The University of British Columbia, December 2016. 2. Training of the Trainers by Dr. Claudia Groß, held at DAAD Cairo Office on Wednesday, 20th of October 2014. 3. Leading in Times of Change by Dr. Sonja Drewes, held at DAAD Cairo Office on Wednesday, 25th of June 2014.
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4. **“Managing Conflicts using Constructive Negotiation Techniques”** by Dr. Claudia Groß, held at DAAD Cairo Office on 12th of June 2014.
5. **Strategic Thinking, Planning & Managing** by Rutgers University. From 20th to 24th June 2010, Cairo, Egypt.
6. **How to Lead a Science Park.** Organized by Mubarak City and World Technopolis Association. 15-16 February, 2009.

TECHNICAL TRAINING COURSES

1. **“Risk Assessment Training and Experience (RATE)”** organized by EPA and BibAlex. 8-11 May 2015.
2. **“Training of trainers on cultivation and development of *Jatropha Curcas*”**, 20-22 May 2013. SRTA-City, Alexandria, Egypt.
3. **“Bio-fuel production”**. Held at City for Scientific Research and Technology Applications. 3th February 2013
2. **“Wastewater reuse in Agriculture”** workshop Parallel to the Annual International Conference of the High Institute of Public Health-Alexandria University. 6 November 2012.
3. **“Bioinformatics: Tools, Resources and Applications”** by EMBO Courses & Workshops from 13- 24 June 2011 Tangiers, Morocco.
4. **“Introduction to Proteomics & Biomarker Discovery.”** 12-13th December 2010. Convention center. Faculty of Medicine. Alexandria university
5. **“TOT workshop on HIV/AIDs”** held in Mubarak City for Scientific research and Technology. 25-26, 2009. Alexandria, Egypt.
6. **Successful Technology Licensing (STL).** Organized by The World Intellectual Property Organization (WIPO), during the period of 10-13 March, 2008
7. **Environmental Impact Assessment (EIA) for Sustainable Development.** Faculty of Science, Alexandria University Faculty. 9th-11th December, 2007.
8. **Internal Auditing in Quality Management for Analysis and Calibration Laboratories according to ISO-17025:2005.** Engineering and Quality Experts (EQE). 10th- 13th September 2007.
9. **Understandings of Quality Management for Analysis and Calibration Laboratories According to ISO-17025.** Engineering and Quality Experts (EQE). 3th- 27th September 2005.
10. **Analysis of Research.** Medical Technology Center, Medical Research Institute, University of Alexandria. 9th-10th July 2007.
11. **Diagnostic Medical Microbiology.** Faculty of Science, Alexandria University. 25th-27th November, 2007

TEACHING:

1. Teaching at Beirut Arab University (BAU) of the academic year 2019/2020, 15 credit hours per week (undergraduate and post-graduate).
2. Teaching grade 4 Industrial Microbiology and Applied Chemistry (IMAC) department, 2017-2019.
3. Teaching “Environmental Biotechnology” course for Master degree students, Faculty of Science- Alexandria University for years 2009 and 2014.
4. Teaching “Microbiological Techniques” course for Post-graduate students Faculty of Agriculture- Alexandria University in 2010
5. Lecture in Real time PCR and its application for gene quantification in the Workshop of “From Gene to Protein” from 16-20 July 2005.

	<ol style="list-style-type: none"> Lecture about Real time PCR as type of PCR in the workshop of “Polymerase Chain Reaction and its Application” from 7-11 August 2004. Conducting teaching in Molecular Biology and Microbiology workshops, at Mubarak City, Alexandria, Egypt. Different techniques for molecular biology in the workshop of Polymerase chain reaction (PCR) applications and gene sequencing from 6-10th September 2003.
GRANTS & AWARDS	<ol style="list-style-type: none"> Water Economics at UNESCO-IHE in 17th September to 28nd September 2018, Delft, Netherlands Hazardous Waste Management by Dr. Maarten Seibel, held by UNESCO-IHE, 28th August to 12nd September 2015, Netherlands. Project Management, Human Resources Management, Strategic Management and Leadership in Egypt offered within UNILEAD Egypt Program 2013/14 from October 2013 to October, Egypt, organized by DAAD and Oldenburg University Germany. International Visitor Leadership Program (IVLP) on “Water Resources Protection in the US” Organized by US Department of State Bureau of Educational and Cultural Affairs in the USA from 23rd September to 1st October 2013. The Risk Assessment Training and Experience (RATE) Program, The 1st Regional Training Course on Risk Assessment May 8-11, 2015, Alexandria Egypt. <p>Awards</p> <ul style="list-style-type: none"> Achievement award from SRTA-City for the accreditation of ISOL17025 for Central lab (2014). Award for distinguished publication from SRTA-City in 2015.
LIST OF PUBLICATIONS	<p>For the last 10 years</p> <ol style="list-style-type: none"> Sherif A. Abu El-Magd, Ranya A. Amer, Ashraf Embaby. (2020). Multi-criteria decision-making for the analysis of flash floods: A case study of Awlad Toq-Sherq, Southeast Sohag, Egypt. Journal of African Earth Sciences. 162: 103709. AA Saad, RA Amer, EH Tayeb, N Nady, RG Mohamed (2020). Unmodified Rice Straw for The Lead Removal Approach from Synthetic Lead Solution. Alexandria Science Exchange Journal, 41: 43-52. Ebtesam El-Bestawy, Jamal Saber, Ranya Amer, Lama Aljdibi (2019). Treatability of pharmaceutical effluents using free-living bacteria in a batch mode. Desalination and Water Treatment. 152: 316–327. Tarek H. Taha, M. A. Abu-Saied, Elsayed M. Elnaggar, Ranya A. Amer, A. E. Mansy, Gamal M. Elkady (2019). Using starchy waste as a promising raw material for bioethanol production with consequence purification using chitosan/sodium alginate polymeric membrane. Journal of Bioscience and Applied Research. 5(2):154-166. M. A. Abu-Saied, Tarek H. Taha, Elsayed M. Elnaggar, Ranya A. Amer, A. E. Mansy, Gamal M. Elkady (2018). Green production of bio-ethanol from cellulosic fiber waste and its separation using polyacrylonitrile-co-poly methyl acrylate membrane. Cellulose. 25: 6621–6644. Ashgan A. Abougabal; Ranya Amer; Ahmed Abdel-Megeed; Magda Hider. (2018). Isolation, Identification and Molecular Characterization of Cadmium Resistant Bacteria Isolated from Polluted Drainage Water. Alexandria Science Exchange Journal. 39:354-361.

7. Marwa M Abu-Serie, Nermine Nasser, Abeer Abdel Wahab, Rehab Shehawy, Harrison Pienaar, Nahed Baddour and **Ranya Amer** (2018). In vivo assessment of the hepatotoxicity of a new Nostoc isolate from the Nile River: Nostoc sp. Strain NRI. **Toxicon**. 143: 81-89.
8. Nagah M Hassanin, Osama M Awad, Sourya El-Fiki, Reda A I Abou-Shanab, Ahmed R A Abou-Shanab, **Ranya A Amer** (2017). Association between exposure to pesticides and disorder on hematological parameters and kidney function in male agricultural workers. **Environmental Science and Pollution Research**. April, 2017. <https://doi.org/10.1007/s11356-017-8958-9>.
9. Abdelfattah S Saad, Magdy A Massoud, **Ranya A Amer** and Mohamed A Ghorab. (2017). Assessment of the Physico-chemical Characteristics and Water Quality Analysis of Mariout Lake, Southern of Alexandria, Egypt. **Journal of Environmental & Analytical Toxicology**. 7(1): 1-19.
10. Ghada F. Helaly, Sherine Shawky, **Ranya Amer**, Ola Abdel-kader, Gamal El-Sawaf, Mohammed A. El Kholy. (2016). Expression of *AcrAB* Efflux Pump and Role of Mefloquine as Efflux Pump Inhibitor in MDR E. coli. **American Journal of Infectious Diseases and Microbiology**, 4 (1): 6-13.
11. Ayman H. Mansee, Manal M.R. Montasser, **Ranya A. Amer** (2015). Pesticides Bioremediation Potentials of Bacterial Isolates of Contaminated Spot. **International Journal of Chemistry**, 36(2): 1822-1830.
12. R. Bargiela, F. Mapelli, D. Rojo, B. Chouaia, J. Tornés, S. Borin, M. Richter, M. V. Del Pozo, S. Cappello, C. Gertler, M. Genovese, R. Denaro, M. Martínez-Martínez, S. Fodelianakis, **Ranya A. Amer**, D. Bigazzi, X. Han, J. Chen, T. N. Chernikova, O. V. Golyshina, M. Mahjoubi, A. Jaouani, F. Benzha, M. Magagnini, E. Hussein, F. Al-Horani, A. Cherif, M. Blaghen, Y. R. Abdel-Fattah, N. Kalogerakis, C. Barbas, H. I. Malkawi, P. N. Golyshin, M. M. Yakimov, D. Daffonchio & M. Ferrer (2015). Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature. **Nature Scientific Reports**. 5:11651DOI: 10.1038/srep11651
13. C. Gertler, R. Bargiela, F. Mapelli, Xifang Han, J. Chen, T. Hai, **Ranya A. Amer**, M. Mahjoubi, H. Malkawi, M. Magagnini, A. Cherif, Y. R. Abdel-Fattah, N. Kalogerakis, D. Daffonchio, M. Ferrer, P. N. Golyshin. 2015. Conversion of Uric Acid into Ammonium in Oil-Degrading Marine Microbial Communities: a Possible Role of Halomonads. **Microbial Ecology**. Volume 70, Issue 3, pp 724-740.
14. **Ranya A. Amer**, Francesca Mapelli, Hamada M. El Gendi, Marta Barbato, Doaa A. Goda, Anna Corsini, Lucia Cavalca, Marco Fusi, Sara Borin, Daniele Daffonchio and Yasser R. Abdel-Fattah (2015), Bacterial Diversity and Bioremediation Potential of the Highly Contaminated Marine Sediments at El-Max District (Egypt, Mediterranean Sea), **BioMed Research International**, Vol. 2015, Article ID 981829, 17 pages.
15. S. Fodelianakis, E. Antoniou, F. Mapelli, M. Magagnini, M. Nikolopoulou, R. Marascob, M. Barbato, A. Tsiola, I. Tsikopoulou, L. Giaccaglia, M. Mahjoubi, A. Jaouani, **R. Amer**, E. Hussein, F.A. Al-Horani, F. Benzha, M. Blaghen, H.I. Malkawi, Y. Abdel-Fattah, A. Cherif, D. Daffonchio N. Kalogerakis. (2015) Allochthonous bioaugmentation in ex situ treatment of crude oil-polluted sediments in the presence of an effective degrading indigenous microbiome. **J. Hazardous Materials**. 287:78-86.
16. **Ranya Amer**, Nour Sh. El-Gendy, Tarek Taha, Soha Farag and Yasser Abdel Fattah (2014). Biodegradation of crude oil and its kinetics using indigenous bacterial consortium isolated from contaminated area in Egyptian Mediterranean ecosystem. **Jökull Journal**. 64(4): 42-58.
17. **Ranya Amer**, Mona Osman, Howaida Hassan, Hanan Ghazlan and Soraya Sabry. (2014) Adsorption of Ni(II) by *Exiguobacterium* sp. 27 and Polyaniline Nanoparticles. **International Journal of Environmental Research**. 8 (3), 601-612.
18. **Ranya A. Amer**, Abeer Abdel Wahab, Sahar M.F. Fathy, Osama M. Salama, Maha A El Demellawy (2014). Characterization of Blue Green Algae Isolated from Egyptian Rice field

	<p>with Potential Anti Hepatitis C Active Components. African Journal of Biotechnology. 13(9):1086-1086.</p> <p>19. Ranya Amer and Yasser Abel-Fattah. (2014). Hydrocarbonoclastic marine bacteria in Mediterranean Sea, El-Max, Egypt: isolation, identification and site characterization. Jökull Journal. 46(4): 223-249.</p> <p>20. Ranya Amer, Howaida Hassan, Hanan Ghozlan and Soraya Sabry. (2013). Nickel biosorption by alkalitolerant <i>Exiguobacterium</i> sp. 27 isolated from lake Mariout, Egypt. Life Science Journal 10(4): 1338-1347. http://www.lifesciencesite.com.</p> <p>21. Ebtesam El-Bestawy, Fahad Al-Fassi, Ranya Amer and Reham Aburokba. (2013). Biological Treatment of Leather-Tanning Industrial Wastewater Using Free Living Bacteria. Advances in Life Science and Technology. 12: 46-65.</p> <p>22. Ranya Amer, Rehab Shehawy, Saraa Saad El-Dien, Marwa Abu Serie and Kamel Shaker (2013). Characterization of a cyanobacterial community including a microcystin-producing Nostoc strain in a freshwater river". Advances in Microbiology. (3) 38-46.</p> <p>23. Ranya Amer, Safinaz Aly Mady, Hoda H. Yusef, Soraya Sabry (2013). Determination of decimal reduction time (D-value) of chemical agents used in hospitals for killing airborne isolated bacteria. African J. Microbiology Research, 7(26):3321-3330.</p> <p>24. Ebtesam El. Bestawy, Shacker Helmy, Hany Hussien, Mohamed Fahmy and Ranya Amer (2013). Bioremediation of heavy metal-contaminated effluent using optimized activated sludge bacteria. Applied Water Science 3:181–192</p> <p>25. Abuo Gababble Ashgan, Amer Ranya, Abd Elsalam Hassan, Teama El Sayed. (2011) Isolation, phylogenetic analysis and screening of biosurfactants producing by locally isolated bacteria. Alexandria Science Exchange Journal. 32:182-192.</p> <p>26. Ranya A. Amer, Beatriz Diez and Rehab M. El-Shehawy. (2009) Diversity of hepatotoxic cyanobacteria in the Nile Delta, Egypt. Journal of Environmental Monitoring, 11(1): 126-133.</p> <p>27. Amer, R. (2008). Newly isolated <i>Pandoraea</i> sp. capable of phenol biodegradation. Research Journal of Microbiology. 3:622-629.</p>
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