

<b>Name</b>	<b>Wafaa Ezz Elarab Ahmed</b>		
<b>Specialization</b>	Microbiology and immunology		
<b>Current Position</b>	Associate professor		
<b>Contact email (Official)</b>	weahmed@kfu.edu.sa		
<b>Alternate email</b>	Wafaezz2006@yahoo.com	<b>Phone:</b>	0534542902
<b>Academic Qualifications</b>	<b>Degree/year/university/country</b>	Ph D/ 2013 / Mansoura university/ Egypt	
	<b>Degree/year/university/country</b>	Associate professor/ 2020/ King Faisal university/ KSA	
<b>Teaching Experience</b>	<p><b>Wafaa E Soliman</b> has over 11 years of teaching experience as an Assistant and Associate Professor in the Department of Biomedical Sciences at King Faisal University and Delta University for Science and Technology. Her extensive academic career is marked by expertise in delivering curriculum components in General Microbiology, Biotechnology, Immunology, Physiology, and Pathophysiology."</p>		
<b>Courses Taught and Teaching in KFU</b>	<ul style="list-style-type: none"> <li>• General Microbiology</li> <li>• Biotechnology</li> <li>• Immunology</li> <li>• Physiology</li> <li>• Phathophysiology-1</li> <li>• Phathophysiology-2</li> </ul>		
<b>Research Interests</b>	<ul style="list-style-type: none"> <li>▪ Pharmaceutical Microbiology Techniques <ul style="list-style-type: none"> <li>- PCR</li> <li>- Real time pcr</li> <li>- ELISA reader</li> <li>- Stem cell</li> <li>- Bacterial biofilm</li> <li>- Quorum sensing</li> <li>- Isolation of DNA and RNA</li> <li>- Gel electrophoresis</li> <li>- Isolation, characterization and culture of bacteria and fungi</li> <li>- Gene cloning</li> <li>- Scanning Electron Microscope</li> </ul> </li> </ul>		

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**Research Grants  
Received**

Funding from Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia, for funding this research work through the project number (IFT20027)

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**Publications**

1. Bacteriuria and antibiotics resistance in ileal neobladders: prevalence and clinical significance, Ramadan Hassan, Hassan Abol-Enein, Esam Elsayy, Mohamed M. El-Sokary, Hany Kenawy and Wafaa. Ezz El-Arab.FROM, Egypt. *N. Egypt. J. Microbiol. Vol. 36, September, (2013).*
  2. LC-MS/MS based-comparative study of (S)-nicotine metabolism and plant cultures: parallels to its mammalian metabolic fate. Amira R. Khattaba, Abdel-Rahim S. Ibrahim, Souzan M. Ibrahim, Kamillia A. Abou El-Seoud, Wafaa E. Soliman c, Fathy K. El-Fiky *Bulletin of Faculty of Pharmacy, Cairo University (2015).* 53,93-99.
  3. Biosimulation of (s)-nicotine mammalian metabolism: cunninghamella elegans and streptomyces platensis-based microbial metabolic models, Amira R. Khattaba, Abdel-Rahim S. Ibrahim, Souzan M. Ibrahim, Kamillia A. Abou El-Seoud, Wafaa E. Soliman, Fathy K. El-Fiky. *Bulletin of Faculty of Pharmacy, Cairo University Vol. 46, March, (2015).*
  4. Characterization of Standard Urine Properties in Non complicated Orthotopic Ileal Neobladders: A Prospective Controlled Study. El-Assmy A, Mahmoud O, Kamal M, Soliman W, Ashamallah A, El-Wakeel N, Abol-Enein H. *Urology. (2016) Jul 11.* pii: S0090-4295(16)30379-X. doi: 10.1016/j.urology.2016.06.047.
  5. Role of probiotics in prevention of hospital acquired pneumonia in Egyptian children admitted to Pediatric Intensive Care Unit of Mansoura University Children's Hospital. Niveen El-Wakeel\*, Angi El-Wakeel, Mohamed El-Assmy Ghada Barakat, Wafaa Soliman (2016) *Vol. 10(31), pp. 1240-1247*, August DOI:10.5897/AJMR2016.8085 ISSN: 1996-0808.
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6. Adhesion of streptococcus mutans biofilm on the surface of indirect resin composites restorations. (2017) *Int. J. Adv. Res.* 5(3), 1217-1223.
  7. Antibiotic effect on planktonic and biofilm-producing staphylococci. Hassan A. M. Samaha<sup>1,2</sup>, Mohamed H. Al-Agamy<sup>1,3\*</sup>, Wafaa E. *Advances in Microbiology*, 2017, 7, 498-512
  8. Antimicrobial activity of essential oil of cotula cinerea against some pathogenic bacteria and fungal strains. (2017) M. F. Deginash, T. N. Gryazneva, F. K. El-Fiky, H. A. Moatawe, A. M. Beltagy and W. E. Soliman. *Vetrenary animal medicin and biotechnology journal*.
  9. Perturbation of quorum sensing in *Pseudomonas aeruginosa* by febuxostat. (2018) Hisham Abdel Monem Abbas, Wafaa Ezz Elarab Soliman, Moutaz Ahamed Shaldam. *Advances in Microbiology*, 2018, 8, 650-664.
  10. Catheter-associated urinary tract infections caused by quinolone-resistant bacteria isolated from assiut university hospitals. (2018) Osama F. E. Hassanein, Khaled M. Hassanein, Ahmed S. Ahmed, Wafaa E. Soliman and Gamal F. M. Gad. *Indian Journal of Applied Research* 8 (11).
  11. Prevalence of Rotavirus among hospitalized infants suffering from diarrhea in Minia, Egypt. (2018) Shimaa Salah Hassan, Reham Ali Ebrahim, Suzan Mohammed Ali and Wafaa E Ahmed *N. Egypt. J. Microbiol. Vol 51*
  12. Evaluation of Surface Roughness and Streptococcus mutans Adhesion to Bulk-Fill Resin Composites Polished with Different Systems. (2019) Wafaa E. Soliman, Ashraf I. Ali, Walid F. Elkhatib. *Advances in Microbiology* 9, 87-101.
  13. Telmisartan attenuates N-nitrosodiethylamine-induced hepatocellular carcinoma in mice by modulating the NF-Kb-TAK 1/2 axis in the context of PPAR $\gamma$  agonistic activity. (2019) Sameh Saber, Ahmed E. Khodir, Wafaa E. Soliman, Mohamed M Salma, Walied S. Abdo, Baraah Elsaheed, Karim Nader, Aya Abdelnasser, Nada Megahed, Mohamed Basuony, Ahmed Shawky, Maryam Mahmoud, Reham Medhat
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and Abdelrahman S. Eldin. Naunyn-Schmiedeberg, *Archives of pharmacology*.

14. Prevalence of methicillin-resistant coagulase-negative staphylococci among Egyptian patients after surgical interventions.(2020) Eman F Ahmed, Gamal FM Gad, Wafaa E Soliman, Riham S El-Asady, Ayman M Hasaneen and Sayed F Abdelwaha. *Tropical doctor journal* DOI: 10.1177/0049475520962740.
  15. Therapeutic Applications of Biostable Silver Nanoparticles Synthesized Using Peel Extract of *Benincasa hispida*: Antibacterial and Anticancer Activities.(2020) Wafaa E. Soliman, Salman Khan, Syed Mohd Danish Rizvi , Afrasim Moin, Heba S. Elsewedy , Amr S. Abulila and Tamer M. Shehata. *Nanomaterials* **10**, *1954*; doi:10.3390/nano10101954
  16. Myrrh Essential oil-Based Nanolipid Formulation for Enhancement of the Antihyperlipidemic Effect of Atorvastatin. (2020) Tamer M. Shehata, Hany Ezzat Khalil, Heba S.Elsewed and Wafaa E. Soliman. *Journal of Drug Delivery Science and Technology* <https://doi.org/10.1016/j.jddst.2020.102277>
  17. Enhancement of Curcumin Anti-Inflammatory Effect via Formulation into Myrrh Oil-Based Nanoemulgel (2021) Wafaa E. Soliman , Tamer M. Shehata , Maged E. Mohamed , Nancy S. Younis 4and Heba S. Elsewedy *Polymers* **2021**, *13*, *577*. <https://doi.org/10.3390/polym13040577>
  18. Xylitol Inhibits Growth and Blocks Virulence in *Serratia marcescens* (2021) Ahdab N. Khayyat , Wael A. H. Hegazy , Moataz A. Shaldam , Rasha Mosbah , Ahmad J. Almalki , Tarek S. Ibrahim , Maan T. Khayat , El-Sayed Khafagy , Wafaa E. Soliman and Hisham A. Abbas. *Microorganisms* **2021**, *9*, *1083*. <https://doi.org/10.3390/microorganisms9051083>
  19. Quality by design for development, optimization and characterization of Brucine ethosomal gel for skin cancer delivery (2021) Tamer A. Ismail, Tamer M. Shehata \*, Dalia I Mohamed, Heba. S Elsewedy, wafaa. E Soliman. *Molecules-1191471*
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20. Pancreatin-Cetyl Pyridinium Chloride Digestion and Decontamination Method; A Novel, Sensitive, Cost-Effective Method for Culturing Mycobacterium tuberculosis P Shinu, AB Nair, S Hussain, MA Morsy, WE Soliman *Microorganisms* 9 (10), 2025
  21. Geraniol isolated from lemon grass to mitigate doxorubicin-induced cardiotoxicity through Nrf2 and NF- $\kappa$ B signaling NS Younis, HS Elsewedy, WE Soliman, TM Shehata, ME Mohamed *Chemico-Biological Interactions* 347, 109599
  22. Repurposing of antidiabetics as Serratia marcescens virulence inhibitors WAH Hegazy, MT Khayat, TS Ibrahim, M Youns, R Mosbah, WE Soliman *Brazilian Journal of Microbiology* 52, 627-638
  23. Biogenic and biocompatible silver nanoparticles for an apoptotic anti-ovarian activity and as polydopamine-functionalized antibiotic carrier for an augmented antibiofilm activity MG Aboelmaati, SAA Gaber, WE Soliman, WF Elkhatib, AM Abdelhameed, *Colloids and Surfaces B: Biointerfaces* 206, 111935
  24. Phenotypic characterization of NKT-like cells and evaluation of specifically related cytokines for the prediction of unexplained recurrent miscarriage WS Khalaf, MRA Mahmoud, WF Elkhatib, HR Hashem, WE Soliman *Heliyon* 7 (11)
  25. Molecular Detection of Fluoroquinolone Resistance among Multidrug-, Extensively Drug-, and Pan-Drug-Resistant Campylobacter Species in Egypt ,AM Ammar, MI Abd El-Hamid, RMS El-Malt, DS Azab, S Albogami, *Antibiotics* 10 (11), 1342
  26. Enhancement of anti-inflammatory activity of optimized niosomal colchicine loaded into jojoba oil-based emulgel using response surface methodology HS Elsewedy, NS Younis, TM Shehata, ME Mohamed, WE Soliman *Gels* 8 (1), 16
  27. **Evaluating Antimicrobial Activity and Wound Healing Effect of Rod-Shaped Nanoparticles.** WE Soliman, HS Elsewedy, NS Younis, P Shinu, LE Elsayy WE Soliman, HS
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Elsewedy, NS Younis, P Shinu, LE Elsayy *Polymers* 2022, 14, 2637

28. Novel formulation of fusidic acid incorporated into a myrrh-oil-based nanoemulgel for the enhancement of skin bacterial infection treatment MM Almostafa, HS Elsewedy, TM Shehata, WE Soliman *Gels* 8 (4), 245
29. Shea butter potentiates the anti-bacterial activity of fusidic acid incorporated into solid lipid nanoparticle HS Elsewedy, TM Shehata, WE Soliman *Polymers* 14 (12), 2436
30. Hypolipidemic activity of olive oil-based nanostructured lipid carrier containing atorvastatin HS Elsewedy, TM Shehata, MM Almostafa, WE Soliman *Nanomaterials* 12 (13), 2160
31. Tea Tree Oil Nanoemulsion-Based Hydrogel Vehicle for Enhancing Topical Delivery of Neomycin HS Elsewedy, TM Shehata, WE Soliman *Life* 12 (7), 1011
32. Pharmacological Features of 18 $\beta$ -Glycyrrhetic Acid: A Pentacyclic Triterpenoid of Therapeutic Potential P Shinu, GL Gupta, M Sharma, S Khan, M Goyal, AB Nair, M Kumar, *Plants* 12 (5), 1086
33. A century of “Camel Research”: a bibliometric analysis M Kandeel, MA Morsy, A El-Lateef, M Hany, M Marzok, HS El-Beltagi, *Frontiers in Veterinary Science* 10, 1157667
34. Date Palm Extract (Phoenix dactylifera) Encapsulated into Palm Oil Nanolipid Carrier for Prospective Antibacterial Influence: Elsewedy, Heba S; Shehata, Tamer M; Alqahtani, Nashi K; Khalil, Hany Ezzat; Soliman, Wafaa E, *Plants* 2023, 12(21), 3670
35. Enhancing the Topical Antibacterial Activity of Fusidic Acid via Embedding into Cinnamon Oil Nano-Lipid Carrier: Heba S. Elsewedy, Tamer M. Shehata, Shaymaa M. Genedy, Khuzama M. Siddiq, Bushra Y. Asiri, Rehab A. Alshammari, Sarah I. Bukhari, Adeola T. Kola-Mustapha, Heba A. Ramadan and Wafaa E. Soliman *Gels* 2024, 10, 268.

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**The 20<sup>th</sup> international conference of the Egyptian society for medical microbiology** in collaboration with medical microbiology and immunology department, faculty of medicine, Mansoura University 27<sup>th</sup> -28<sup>th</sup> Feb 2014

**Organizer in ICI<sup>14</sup> 14th international conference on information development economic prosperity and good governance.** Delta University for science & technology 7-8 November 2015.

**German-Egyptian Network for Innovation and Development (GENID)** that has been funded by the Alexander von Humboldt Foundation during the period 22.-23.02.2017 at InterContinental **Citystars in Cairo.**

**The Middle East and North Africa Regional Consultation on Open Educational Resources (OER)** which held on February 27-28, 2017 in **Doha, Qatar.** co.organized by UNESCO and Commonwealth

I have an interview meeting on the home page of the Middle East & North Africa Regional Consultation for the 2nd World OER Congress (video-lecture.com)

**The 2<sup>nd</sup> World Open Educational Resources (OER) Congress** is scheduled to be held in **Ljubljana, Slovenia**, on 18–20 September 2017, co.organized by UNESCO, Commonwealth and the Government of Slovenia.

**Nosocomial infections; the challenge of emerging and remerging infection** on 31<sup>st</sup> March 2018  
Hilton- Deramland  
(oral presentation)

**University and drug industry forum (challenge and collaboration prospective) 25- September 2018 Egypt.**

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**6<sup>TH</sup> Damietta pharmaceutical science conference  
as lecturer in infection control workshop (27-29  
September 2018)**

**The 26<sup>th</sup> international conference of the Egyptian  
society for infection control (APIC/Egypt  
chapter)- the 7<sup>th</sup> conference of the eastern  
Mediterranean regional network for infection  
control (EMRNIC) “let’s partner to prevent  
infections” November- 2018.**

**Knowledge, skill, ability in pharmacy & toxicology  
1<sup>st</sup> conference (1<sup>st</sup> KSAPT) 4<sup>TH</sup> April 2019 in  
alkhober Saudi Arabia**

**The annual conference of SPS entitle (SIPHA Saudi  
international pharmaceutical science meeting  
science meeting &workshop ) held on January 3-5,  
2023**

**Member in Egyptian Society for Medical Microbiology  
Founded 1991**

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**Training course entitled “Self-Evaluation for High  
Education institutes” during the period 15-2- to 17-2-2016 From national authority  
for quality assurance and accreditation of education**

**Workshops /  
Seminars attended**

**"Stem cells basics, isolation& characterization"  
Which held from14 till 16 August 2016 in medical  
experimental research center, faculty of Medicin, Mansoura University**

**“Course specification and course description workshop”  
(4 hours) at Delta University for science & technology 12-4-2016**

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“Endnote- x7 workshop” at Delta University for science & technology 16-1-2017.

“Molecular biology techniques in immunology” which held at medical technology center from (30<sup>th</sup> January to 02<sup>nd</sup> February), 2017.

“Communication and rhetorical technique” workshop provided from DAAD Kairo Akademie for one day 21-2-2017  
MOODLE workshop at Delta University for science & technology 3 – October 2018.

Teaching strategies and effective learning From national authority for quality assurance and accreditation of education 24-25/2/2018

PCR workshop at Delta University for science technology 3 – November 2018.

Cell press awareness workshop at Delta University for science & technology 27 - November 2018

“let’s partner to prevent infections” at the 26<sup>th</sup> international conference of the Egyptian society for infection control (APIC/Egypt chapter)- the 7<sup>th</sup> conference of the eastern Mediterranean regional network for infection control (EMRNIC) November- 2018

Attending training program titled “Preparation of Self-Study Report "SSR” on Feb 9, 2019, KFU University.

Attending training program titled “Faculty members role in community Engagement system” on Feb 16, 2019, KFU University.

Training program entitled "quantitative data analysis using SPSS statistical program" held on 18 April 2019 in King Faisal University

Training program entitled "How to Search in Springer Link" held on 30 April 2019 in King Faisal University

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Attending training program titled “21st Century Skills – What University Instructors can do to Prepare Tomorrow’s Workforce” on August 25, 2019, KFU University.

[Integrating Information Technology with the Science of Survey Research Methodologies](#) Conducting Small and Large-Scale Academic Applied Research as one of the activities of the Second Enrichment Program for Faculty Members held on August 21, 2019, KFU University

Attending training program titled “Forging Student Leaders for KSA's 2030” on August 26, 2019, KFU University.

Attending training program titled “Teaching and Learning in the Modern Era” on August 28, 2019, KFU University.

[How to write a scientific paper](#) which held in Delta university for science and technology 2-11-2016

[Mean and application quality assurance of in higher education institute](#) which held in Delta university for science and technology 24-5-2017

[Ethics of scientific research](#) which held in Delta university for science and technology 25-7-2017

[Immune disorders and immunomodulator drug](#) which held Dakhahlia pharmacists syndicate 12-10-2018

[Covid19 impact on mental health and depression](#) held on 8 December 2020 Dubai (webinar course)

[How pandemic is changing pharmacy practice.](#) Held on 8 December 2020 Dubai (webinar course)

[Hypertension management guidelines and the urgency of blood pressure control](#) held on 26 November 2020 Dubai (webinar course)

Attending training workshop titled “Endnote” on January 21, 2020, KFU University.

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Attending training workshop titled “Key Performance Indicators and Benchmarking for Program Accreditation” on November 16, 2019, KFU University.

Attending training program titled "Artificial intelligence in scientific research" on Feb 6, 2020, KFU University

Attending training program titled “Publishing Researches in High Impact Factors Journals (Medical Colleges)” on Feb 15, 2020, KFU University.

"Scientific research language, Problems and solutions"  
For Ladies ON Feb 2, 2020, KFU University.

Teaching Writing Digitally held on August 18, 2020,  
KFU University.

Third Enrichment Program (Online)

Program Specification and Report training program held  
on Oct 13, 2020 under supervision Deanship of Development & Quality Assurance  
KFU University.

Research Smarter with Web of Science and Journal  
Citation Workshop. Reports Held on Mar 25, 2021 under supervision Deanship of  
library affairs KFU University.

Enhancing the use of the Science Direct database in  
, 2021 under supervision Deanship of 3 scientific research Workshop Held on Mar 2  
library affairs KFU University.

ورشة عمل تدريبية بعنوان كيفية استخدام برنامج مايكروسوفت تيمز  
والتعرف على مميزاته التي اقيمت بتاريخ ٢٠٢١/٢/٢٥ تحت رعاية عمادة تقنية المعلومات بجامعة الملك  
فيصل

ورشة عمل تدريبية بعنوان نظام الخدمات التعليمية (بانر) لأعضاء هيئة  
التدريس والطلاب التي اقيمت بتاريخ ٢٠٢١/٣/١ تحت رعاية عمادة تقنية المعلومات بجامعة الملك فيصل

ورشة عمل تدريبية بعنوان أمن المعلومات وكيفية حماية بياناتك  
الشخصية التي اقيمت بتاريخ ٢٠٢١/٣/١٦ تحت رعاية عمادة تقنية  
المعلومات بجامعة الملك فيصل

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Research writing and Editing Skills training program. Held on Mar 09, 2021 under supervision Deanship of Development and Quality Assurance KFU University.

Skills of Classroom Questions in Light of E- Learning training program. Held on Mar 10, 2021 under supervision Deanship of Development and Quality Assurance KFU University.

Interpersonal and Communication skills with students training program. Held on Mar 15, 2021 under supervision Deanship of Development and Quality Assurance KFU University.

Using research skills in teaching assessment: design health research. Held on Oct 3, 2021 under supervision Deanship of Development and Quality Assurance KFU University.

Making exam according to comprehensive quality. Held on Nov 23, 2021 under supervision Deanship of Development and Quality Assurance KFU University.

Modern technology for data collection (congetiform) –development and scientific research series. Held on Feb 15-16, 2022 under supervision Deanship of Development and Quality Assurance KFU University.

Integrative curriculum of education- teaching and learning series. Held on March 1-2, 2022 under supervision Deanship of Development and Quality Assurance KFU University.

Aligning your Research with Supplementary Tools: Endnote, Mendley, Adobe Illustrator. Held on September 8-9, 2022 under supervision Deanship of Development and Quality Assurance KFU University.

Ethics of dealing with experimental animals. Held on Nov 12, 2022 under supervision Deanship of Development and Quality Assurance KFU

Data tools, research images and references. Held on Oct 1, 2022 under supervision Deanship of Development and Quality Assurance KFU

Contemporary trends in teaching and assessments. Held on Sep 18-19 2022 supervision Deanship of Development and Quality Assurance KF

Teaching unwitting& unintended learning outcomes “hidden curriculum at higher education with”SOCCS& SOLVE” approach Held on March 20-21 May, 2023 supervision Deanship of Development and Quality Assurance KFU

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[Principle and application of enzyme linked immunoassay in disease diagnosis.](#)  
Held on March 1-2 May, 2023 supervision Deanship of Development and Quality Assurance KFU

[Bioinformatics and artificial intelligence application.](#) Held on Sep 26-27 May, 2024 supervision Deanship of Development and Quality Assurance KFU

[Chat GPT the perfect use](#) Held on Sep 15-16 May, 2024 supervision Deanship of Development and Quality Assurance KFU

[Innovation: from idea to product.](#) Held on April 21-22, 2024 supervision Deanship of Development and Quality Assurance KFU

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