

Published research articles

1. Hadjer Rebai , Cherifa Lefaida , **Essam N. Sholkamy** , Hadel Elagamawi , Mohamed A.A. Abdelhamid , Seung Pil Pack , Hazim Khalifa and Allaoueddine Boudemagh **2026**. Isolation and Characterization of a Thermophilic *Streptomyces albidoflavus* KS5 strain Capable of Glyphosate Degradation. *Frontiers in Microbiology*, 2026 **(ISI, Q2)**
2. Ali M, **Sholkamy EN**, Alayyaf AA, AL-Muhanna MK, AS Alobaidi **2026**. Synthesis and Characterization of Chitosan Thiosemicarbazone Complexes with Nickel, Zinc, and Palladium: Enhanced Antimicrobial Efficacy and Potential Applications. *Journal of the Indian Chemical Society*, 102420 **(ISI, Q2)**
3. Ali I, Z Laid, MNI Bhuiyan, **Sholkamy EN**, M Locatelli GC–MS Analysis of *Pergularia tomentosa* Essential Oil: **2026** Determination of Antibacterial, Antifungal, and Anti-Inflammatory Activities. *Biomedical Chromatography* 40 (1), e70260. **(ISI, Q2)**
4. Humza M, MU Zafar Khan, **Sholkamy EN**, A Basit, B Iqbal, MN Anwar, ...**2025** Inhibitory activity studies of the detoxifying bacterial strain “*Lactobacillus brevis* 121A” against *Penicillium verrucosum* growth and Ochratoxin A yield. *Journal of Taibah University for Science* 19 (1), 2242632. **(ISI, Q2)**
5. Velmani S, **Sholkamy EN**, P Ruba, S Kanaga, V Balamurugan, **2025** ..Eco-friendly synthesis and biomedical potential of silver nanoparticles using *Pandanus dubius* extract. *Scientific Reports* 15 (1), 39940. **(ISI, Q2)**
6. Khalifa HO, A Oreiby, T Mohammed, MAA Abdelhamid, **EN Sholkamy**, ...**2025** Silver nanoparticles as next-generation antimicrobial agents: mechanisms, challenges, and innovations against multidrug-resistant bacteria. *Frontiers in cellular and infection microbiology* 15, 1599113. **(ISI, Q2)**

7. H Rebai, C Lefaida, **Sholkamy EN**, PT Pratheesh, AA Hassan, D Tazdait, ... **2025** Utilizing actinobacteria for glyphosate biodegradation: innovative solutions for sustainable agricultural soil remediation. *Brazilian Journal of Microbiology* 56 (2), 951-963
8. Ali, M., **Sholkamy, E.N.**, Alobaidi, A.S., Al-Muhanna, M.K. and Barakat, A., **(2023)**. Synthesis of Schiff Bases Based on Chitosan and Heterocyclic Moiety: Evaluation of Antimicrobial Activity. *ACS omega*, 8(49), pp.47304-47312. **(ISI, Q2)**
9. **Sholkamy, E. N.**, Palsamy, S., Raja, S. S. S., Alarjani, K. M., Alharbi, R. M., Abdel-Raouf, N., ... & Habila, M. A. **(2023)**. GC-MS Analysis and Bioactivity of *Streptomyces* sp. nkml Volatile Metabolites against some Phytopathogenic Fungi. *Brazilian Archives of Biology and Technology*, 66, e23220626. **(ISI, Q4)**
10. Yassin, M. T., Elgorban, A. M., Al-Askar, A. A., **Sholkamy, E. N.**, Ameen, F., & Maniah, K. **(2023)**. Synergistic anticandidal activities of greenly synthesized ZnO nanomaterials with commercial antifungal agents against candidal infections. *Micromachines*, 14(1), 209. **(ISI, Q2)**
11. Vinoth, M., Sivasankari, S., Ahamed, A. K. K., Alsamhary, K. I., Al-Enazi, N. M., Abdel-Raouf, N., ... & **Sholkamy, E. N. (2023)**. Bio-Characterization and Liquid Chromatography–Mass Spectrometry Analysis of Exopolysaccharides in Biofilm-Producing Cyanobacteria Isolated from Soil Crust: Exploring the Potential of Microalgal Biomolecules. *Biology*, 12(8), 1065. **(ISI, Q1)**
12. Islam, M. S., Al-Majid, A. M., Sholkamy, E. N., Barakat, A., Viale, M., Menichini, P., ... & Teleb, M. **(2023)**. Optimized spirooxindole-pyrazole hybrids targeting the p53-MDM2 interplay induce apoptosis and synergize with doxorubicin in A549 cells. *Scientific Reports*, 13(1), 7441. **(ISI, Q2)**
13. Yassin, M.T.; Elgorban, A.M.; Al-Askar, A.A.; **Essam Nageh Sholkamy**; Ameen, F.; Maniah, K. **(2023)** Synergistic Anticandidal Activities of Greenly Synthesized ZnO

- Nanomaterials with Commercial Antifungal Agents against Candidal Infections. *Micromachines* 2023, 14, 209. **(ISI, Q2)**
14. Alharbi, R.M.; **Essam Nageh Sholkamy**; Alsamhary, K.I.; Abdel-Raouf, N.; Ibraheem, I.B.M. (2023) Optimization Study of the Capacity of *Chlorella vulgaris* as a Potential Bio-Remediator for the Bio-Adsorption of Arsenic (III) from Aquatic Environments. *Toxics* 2023, 11, 439. **(ISI, Q2)**
15. Al-Enazi, N.M.; Abdel-Raouf, N.; Alharbi, R.M.; **Essam Nageh Sholkamy** (2022) Metabolic Profiling of *Streptomyces* sp. Strain *ess_amH1* Isolated from *Apis mellifera yemintica*'s Gut Microbiome, and Its Anticancer Activity against Breast Cancer (MCF7) and Hepatocarcinoma (HepG2) Cell Lines, as Well as Antimicrobial Activity. *Appl. Sci.* 2022, 12, 12257. **((ISI, Q2, Impact factor: 2.838)**
16. Islam, M. S., Al-Majid, A. M., **Essam Nageh Sholkamy**, Yousuf, S., Ayaz, M., Nawaz, A., ... & Barakat, A. (2022). Synthesis, molecular docking and enzyme inhibitory approaches of some new chalcones engrafted pyrazole as potential antialzheimer, antidiabetic and antioxidant agents. *Journal of Molecular Structure*, 1269, 133843. **(ISI, Q2, Impact factor: 3.841)**
17. Thanuja, B., Parimalavalli, R., Vijayanand, S., **Essam Nageh Sholkamy**, Abdel-Raouf, N., Ibraheem, I. B. M., ... & Meansbo Hadish, K. (2022). Anticancer and Cytotoxicity Activity of Native and Modified Black Rice Flour on Colon Cancer Cell Lines. *Evidence-Based Complementary and Alternative Medicine*, 2022. **(ISI, Q3, Impact factor: 2.65)**
18. Abdel-Raouf, N., **Essam Nageh Sholkamy**, Bukhari, N., Al-Enazi, N. M., Alsamhary, K. I., Al-Khiat, S. H. A., & Ibraheem, I. B. M. (2022). Bioremoval capacity of Co^{+2} using *Phormidium tenue* and *Chlorella vulgaris* as biosorbents. *Environmental Research*, 204, 111630. **(ISI, Q1, Impact factor: 5.819)**

19. Subbagounder Marimuthu, Chinnusamy Karthic, Ashraf A Mostafa, Nouf Mohammed Al-Enazi, Neveen Abdel-Raouf, **Essam Nageh Sholkamy (2020)**. Antifungal activity of *Streptomyces* sp. SLR03 against tea fungal plant pathogen *Pestalotiopsis theae*. KSU-Sc. 32(8) 3258-3264 <https://doi.org/10.1016/j.jksus.2020.08.027> (ISI, Q2, Impact factor: 3.819)
20. **Essam Nageh Sholkamy**, P Muthukrishnan, Neveen Abdel-Raouf, X Nandhini, Ibraheem BI Ibraheem, Ashraf A Mostafa (2020). Antimicrobial and antinematocidal metabolites from *Streptomyces cuspidosporus* strain SA4 against selected pathogenic bacteria, fungi and nematode. Saudi Journal of Biological Science. Volume 27, Issue 12, December 2020, Pages 3208-3220 <https://doi.org/10.1016/j.sjbs.2020.08.043> (ISI, Q2, Impact factor: 2.82)
21. Muthukrishnan P., Chithra Devi D, Ashraf A. Mostafa, Khawla Ibrahim Alsamhary, Neveen Abdel-Raouf, **Essam Nageh Sholkamy (2020)** Antimicrobial efficacy of *Nocardiosis* sp. MK_MSt033 against selected multidrug resistant clinical microbial pathogens, Journal of Infection and Public Health, 13 (10) 1522-1532 <https://doi.org/10.1016/j.jiph.2020.06.025> (ISI, Q2, Impact factor: 2.44)
22. Abd Alhameed, R., Almarhoon, Z., **Essam N. Sholkamy**, Ali Khan, S., Ul-Haq, Z., Sharma, A., G de la Torre, B., Albericio, F. and El-Faham, A., (2020). Novel 4, 6-Disubstituted s-Triazin-2-yl Amino Acid Derivatives as Promising Antifungal Agents. Journal of Fungi, 6(4), p.237. (ISI, Q1, Impact factor: 4.621)
23. Muthusamy Sanjivkumar, Kanagaraj Vijayalakshmi, Tamilselvan Silambarasan, **Essam N Sholkamy**, Grasian Immanuel (2020). Biosynthesis, statistical optimization and molecular modeling of chitinase from crab shell wastes by a mangrove associated actinobacterium *Streptomyces olivaceus* (MSU3) using Box-Behnken design and its antifungal effects. Bioresource Technology Reports. 11, 100493. <https://doi.org/10.1016/j.biteb.2020.100493> (ISI, Q2, Impact factor: 2.01)

24. **Essam Nageh Sholkamy**, Maged S. Ahmad, Manal M Yaser, Ashraf A Mostafa (2020) Antimicrobial quercetin 3-O-glucoside derivative isolated from *Streptomyces antibioticus* strain *ess_amA8*. *Journal of King Saud University – Science*, 32 (3) 1838-1844. <https://doi.org/10.1016/j.jksus.2020.01.026> (ISI, Q2, Impact factor: 3.819)
25. Saied M. Solimana, Jörg H. Albering, **Essam N. Sholkamy**; Ayman El-Faham (2020) Simple Approaches for the Synthesis of AgNPs in Solution and Solid Phase Using Modified Methoxypolyethylene Glycol and Evaluation of Their Antimicrobial Activity, *International Journal of Nanomedicine*, 15: 2353–2362. doi: [10.2147/IJN.S244678](https://doi.org/10.2147/IJN.S244678) (ISI, Q2, Impact factor: 4.3)
26. Al Rasheed, Hessa, Kholood Dahlous, Anamika Sharma, **Essam Nageh Sholkamy**, Ayman El-Faham, Beatriz G. de la Torre, and Fernando Albericio. (2020). "Barbiturate-and Thiobarbiturate-Based s-Triazine Hydrazone Derivatives with Promising Antiproliferative Activities." *ACS Omega* <https://doi.org/10.1021/acsomega.0c00468> (ISI, Q2, Impact factor: 2.87)
27. Al-Rasheed, Hessa H., Kholood A. Dahlous, **Essam N. Sholkamy**, Sameh M. Osman, Omar H. Abd-Elkader, and Ayman El-Faham. (2020) "Chitosan-S-triazinyl-bis (2-aminomethylpyridine) and Chitosan-S-triazinyl-bis (8-oxyquinoline) Derivatives: New Reagents for Silver Nanoparticle Preparation and Their Effect of Antimicrobial Evaluation." *Journal of Chemistry*, 2020 |Article ID 9590120 | 8 pages | <https://doi.org/10.1155/2020/9590120> (ISI, Q3, Impact factor: 1.79)
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31. Saied Soliman; Zainab Almarhoon; **Essam N. Sholkamy**; Ayman El-Faham (2019) Bis-pyrazolyl-s-triazine Ni(II) pincer complexes as selective Gram positive antibacterial agents; synthesis, structural and antimicrobial studies. *Journal of Molecular Structure.* Volume 1195, 5 November 2019, Pages 315-322. <https://doi.org/10.1016/j.molstruc.2019.05.103> (**ISI, Q3, Impact factor: 2.462**)
32. **Essam Nageh Sholkamy**, Maged Sayed Ahmad, Manal Mohamed Yasser (2019) Antimicrobiological activities of bio-synthesized silver Nano-stars by *Saccharopolyspora hirsuta*. *Saudi Journal of Biological Sciences*, volume 26, Issue 1, January 2019, Pages 195-200. <https://doi.org/10.1016/j.sjbs.2018.02.020> (**ISI, Q1, Impact factor: 2.82**)
33. Hessa H. Al-Rasheed, **Essam N. Sholkamy**, Monirah Al Alshaikh, Mohammed R. H. Siddiqui, Ahmed S. Al-Obaidi and Ayman El-Faham (2018) Synthesis, Characterization and Antimicrobial Studies of Novel Series of 2,4-bis(hydrazino)-6-substituted-1,3,5-Triazine and Their Schiff Base Derivatives. *Journal of Chemistry* Volume 2018, Article ID 8507567, 13 pages. <https://doi.org/10.1155/2018/8507567> (**ISI, Q3, Impact factor: 1.96**)

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<https://doi.org/10.1155/2015/789178> (ISI, Q3, Impact factor: 1.98)
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47. Ashraf A. Mostafa, A.N. Al-Rahmah, Ahmed Abdel-Megeed, **Essam N. Sholkamy**, Abdullah A. Al-Arfaj and Mohamed S. El-shikh (2012). Fungitoxic Properties of Some Plant Extracts Against Tomato Phytopathogenic Fungi. *Journal Of Pure And Applied Microbiology*, Vol. 6(4), p. 1889-1898. **(ISI, Q4, Impact factor: 0.073)**
48. **Essam N. Sholkamy**, A. Abdel-Megeed, Elnakieb, A.A. Fatma and A. Al-Arfaj (2012). Biodiesel Production and Biotechnological Applications from Microalgae Isolated from Water System of Riyadh, Saudi Arabia. *Journal Of Pure And Applied Microbiology*, Vol. 6(4), p. 1653-1662. **(ISI, Q4, Impact factor: 0.073)**
49. **Essam N. Sholkamy**; El-Komy, H. Abdullah A. Al-Arfaj, Ahmed Abdel-Megeed, Ashraf A. Mostafa (2012). Potential role of *Nostoc muscorum* and *Nostoc rivulare* as biofertilizers for the enhancement of maize growth under different doses of n-fertilizer. *African Journal of Microbiology Research*, Vol. 6(48), pp. 7435-7448 **(ISI, Q4, Impact factor: 0.539)**
50. **Essam N. Sholkamy**, Fadl-Allah EM, El-komy HM, Al-Harbi NA. (2011). in Vitro Creation of Artificial Nitrogen Fixing Cyanobacterium (*Nostoc muscorum*) association with Wheat. *African Journal of Microbiology Research*, 5(3): 302-310. **(ISI, Q4, Impact factor: 0.539)**
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