

الميكروبيولوجيا والمناعة

القسم العلمي:

أولاً الأبحاث المنشورة لأعضاء هيئة التدريس في الفترة من ١ يناير - ٣١ ديسمبر للعام 2024/2025

(١) الأبحاث المنشورة دولياً

| | Publication title | Journal name/ year | Authors from department | Authors from other departments, faculties, or universities and their affiliation | Journal quartile | Impact factor | Tick ✓ if it is an applied research |
|---|--|--|-----------------------------------|---|---------------------|------------------|--|
| 1 | Anticancer, antimicrobial and molecular docking analysis of newly synthesized iodoquinazoline derivatives | AMB 2025 | Khaled M. Aboshanab Bishr, Amr S | Jusoh, Siti AzmaAlshahri, MohammadY. Rahman, Khondaker Miraz Alafeefy, Ahmed M. | Q2 | 3.94 | ✓ |
| 2 | Genomic characterization and pre-clinical evaluation of a new polyvalent lytic Loughborough phage | Applied Microbiology and Biotechnology, 2025 | Sarra E. Saleh Khaled M.Aboshanab | Sherif, M.M., Abdelaziz, N.A., | Q1 | 4.3 | ✓ |
| 3 | D-optimal design model and biosynthetic pathway for gentamicin production by Micromonospora purpureochromogenes NRRL B-16094 | BMC Microbiology, 2025 | Khaled M. Aboshanab Bishr, Amr | Suliman, Muatha; S.;Tohamy, Sally T. K.; Alshahrani, Mohammad Y. | Q1 | 4.2 | ✓ |

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|---|--|---|---|---|---------------------|------------------|--|
| 4 | Recent insights on challenges encountered with phage therapy against gastrointestinal-associated infections | Gut Pathogens, 2025 | Khaled M. Aboshanab Masarra M Sakr | Youssef, R.A., Shebl, R.I., | Q1 | 4 | |
| 5 | Deciphering hygromycin B biosynthetic pathway and D-optimal design for production optimization | World Journal of Microbiology and Biotechnology | Khaled M. Aboshanab Amr Shaker Bishr., | Suliman, M., | Q1 | 4.2 | ✓ |
| 6 | Response Surface D-Optimal Design for Optimizing Fortimicins Production by Micromonospora olivasterospora and New Synergistic Fortimicin-A-Antibiotic Combinations | Current Microbiology 2025 | Khaled M. Aboshanab | Selim, H.M.R.M., Gomaa, F.A.M., Alshahrani, M.Y., | Q2 | 2.6 | ✓ |
| 7 | Evaluation of the taxonomic classification tools and visualizers for metagenomic analysis using the Oxford nanopore sequence database | Journal of Applied Genetics 2025 | Khaled M. Aboshanab | Bebawy, A.S., Saad, B.T., Saad, M.T., ... Alshahrani, M.Y., | Q3 | 1.9 | |
| 8 | Phage therapeutic delivery methods and clinical trials for combating clinically relevant pathogens | Therapeutic Delivery 2025 | Khaled M. Aboshanab | Selim, H.M.R.M., Gomaa, F.A.M., Alshahrani, M.Y., Morgan, R.N., | Q2 | 2.2 | |

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|----|---|--|---|---|---------------------|------------------|--|
| 9 | Solid-state fermentation of pristinamycin by Streptomyces pristinaespiralis NRRL ISP-5338 using D-optimal design | Bioprocess and Biosystems Engineering 2025 | Khaled M. Aboshanab Amr Shaker Bishr., | Suliman, Muath; Tohamy, Sally T. K. Tohamy S.T.K.; Alshahrani, Mohammad Y. Alshahrani M.Y.; | Q1 | 3.6 | √ |
| 10 | Evaluation of fortimicin antibiotic combinations against MDR Pseudomonas aeruginosa and resistome analysis of a whole genome sequenced pan-drug resistant isolate | BMC Microbiology 2024 | Khaled M. Aboshanab | Kamel, Noha A.; Tohamy, Sally T.; Alshahrani, Mohammad Y.; | Q1 | 4.2 | √ |
| 11 | Monoclonal antibodies: From magic bullet to precision weapon | Molecular Biomedicine 2024 | Elkhatib, Walid F. | Aboul-Ella, Hassan Gohar, Asmaa Ali, Aya Ahmed, Ismail, Lina M., Mahmoud, Adham Ezz El-Regal. | Q1 | 10.1 | |
| 12 | Benchmarking long-read aligners and SV callers for structural variation detection in Oxford nanopore sequencing data | Scientific Reports, 2024 | Khaled M. Aboshanab | Helal, A.A., Saad, B.T., Saad, M.T., Mosaad, G.S., | Q1 | 3.9 | |

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|----|--|---|---|--|---------------------|------------------|--|
| 13 | Whole genome sequence and LC-Mass for identifying antimicrobial metabolites of Bacillus licheniformis endophyte | AMB Express, 2024 | Aboshanab, Khaled M. Abbas, Ahmad M.; | Soliman, Nourhan K.; El tayeab, Wafaa N. El tayeab W.N.; Alshahrani, Mohammad Y.; | Q2 | 3.94 | |
| 14 | Colistin, doxycycline and Labetalol-meropenem combination are the most active against XDR-Carbapenem-resistant Acinetobacter baumannii: Role of a novel transferrable plasmid conferring carbapenem resistance | Diagnostic Microbiology and Infectious Disease 2024 | Aboshanab, Khaled M. | Selim, Heba Mohammed Refat M.; Gomaa, Fatma Alzahraa M.; Alshahrani, Mohammad Y.; Kamel, Noha A; | Q2 | 3.8 | <input checked="" type="checkbox"/> |
| 15 | Characterization of vitamin D3 biotransformation by the cell lysate of Actinomyces hyovaginalis CCASU-A11-2 | AMB Express, 2024 | Abbas, A.M., Elkhatib, W.F., Aboulwafa, M.M., Hassouna, N.A., Aboshanab, K.M. | - | Q2 | 3.94 | <input checked="" type="checkbox"/> |
| 16 | Optimized production and characterization of a thermostable cellulase from Streptomyces thermodiastaticus strain | AMB Express, 2024 | Elkhatib, W.F., Yassien, M.A., Hassouna, N.A. | Waheeb, M.S., | Q2 | 3.94 | <input checked="" type="checkbox"/> |

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|----|---|---|---|---|---------------------|------------------|--|
| 17 | Evaluation of clinically relevant serum proteins as biomarkers for monitoring COVID-19 severity, and end-organ damage among hospitalized unvaccinated patients | BMC Infectious Diseases 2024 | Aboshanab, K.M. Masarra M Sakr, | Elhommosani, M.R., Abbas, R.M., | Q1 | 3 | √ |
| 18 | Pandemic preparedness of Egyptian community pharmacists and potential facilitators to the successful implementation of a community pharmacy coronavirus disease 2019 referral service: A cross-sectional survey | International Journal of Pharmacy Practice,2024 | Elkhatib, W.F. | Bahlol, M., Alicperova, N., Dewey, R.S. | Q2 | 1.8 | |
| 19 | Multi-epitope peptide vaccines targeting dengue virus serotype 2 created via immunoinformatic analysis | Scientific Reports,2024 | Aboshanab, K.M. | Morgan, R.N., Ismail, N.S.M., Alshahrani, M.Y., | Q1 | 3.9 | √ |
| 20 | Monitoring the VDPV2 outbreak in Egypt during 2020–2021 highlights the crucial role of environmental surveillance and boosting immunization in combating Poliovirus | BMC Infectious Diseases, 2024 | Aboshanab, K.M. Elleboudy, N.S., | Shabana, M.R., Zaghloul, A.Y., El Shaarawy, T.H., | Q1 | 3 | √ |

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|----|--|---|--------------------------------------|---|---------------------|------------------|---|
| 21 | Innovative approaches for mycotoxin detection in various food categories | AMB Express 2024 | Aboshanab, K.M. ELHousseiny, G.S. | Boshra, M.H., Farag, M.M.S., | Q2 | 3.94 | |
| 22 | Nanosponge hydrogel of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propanoate of Alcaligenes faecalis | Applied Microbiology and Biotechnology 2024 | Aboshanab, K.M. ELHousseiny, G.S. | El-Sayed, S.E., Abdelaziz, N.A., | Q1 | 4.3 | \checkmark |
| 23 | Combinatorial biosynthesis of novel aminoglycoside antibiotics via pathway engineering | AMB Express 2024 | Aboshanab, K.M., | Alshahrani, M.Y., Alafeefy, A. | Q2 | 3.94 | |
| 24 | Design, synthesis and biological evaluation of novel pyrazole-based compounds as potential chemotherapeutic agents | Future Medicinal Chemistry 2024 | Elleboudy, N.S | Jaballah, M.Y., Sharaky, M., M Abouzid, K.A., Shahin, M.I. | Q2 | 3.4 | \checkmark |

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|----|---|---|------------------------------------|---|---------------------|------------------|--|
| 25 | Biologically active metabolites of <i>Alcaligenes faecalis</i> : diversity, statistical optimization, and future perspectives | Future Science Oa, | Aboshanab, K.M. Housseiny, G.S. | El-Sayed, S.E., Abdelaziz, N.A., Alshahrani, M.Y., El- | Q2 | 2.1 | |
| 26 | Chemical composition and antimicrobial investigation of the essential oil isolated from <i>Montanoa bipinnatifida</i> (Kunth) K. Koch leaves | Journal of Essential Oil Bearing Plants 2024 | Abbas, A.M | El-Nashar, H.A.S Al-Qaaneh, A.M., Hafeez Kiani, B., Elhawary, E.A. | Q3 | 1.8 | √ |
| 27 | Green biologically synthesized metal nanoparticles: biological applications, optimizations and future prospects | Future Science Oa,2024 | Aboshanab, K.M. | Morgan, R.N., | Q2 | 2.1 | |
| 28 | Effectiveness of Pre-Transplant Screening for High-Priority Multidrug-Resistant Pathogens on Pre-Engraftment Infections After Hematopoietic Stem Cell Transplantation | Infection and Drug Resistance 2024 | Aboshanab, K.M | Kamel, N.A., Abdalla, M.S., Al Ali, A.,, El Borhamy, M.I. | Q2 | 2.9 | √ |

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|----|---|--|---------------------------------|--|------------------|---------------|-------------------------------------|
| 29 | Metagenomic nanopore sequencing for exploring the nature of antimicrobial metabolites of <i>Bacillus haynesii</i> | AMB Express,2024 | boshanabA .K.M | Eltokhy, M.A., Saad, B.T., Eltayeb, W.N., Ashour, M.S.E. | Q2 | 3.94 | √ |
| 30 | Central composite design for optimizing istamycin production by <i>Streptomyces tenjimariensis</i> | World Journal of Microbiology and Biotechnology 2024 | Aboshanab, K.M. | Gomaa, F.A.M., Selim, H.M.R.M., Alshahrani, M.Y. | Q2 | 4.77 | |
| 31 | Eco-friendly Strategies for Biological Synthesis of Green Nanoparticles with Promising Applications | Bionanoscience, 2024 | Elkhatib, W.F | El-Sayyad, G.S., Elfadil, D., Mosleh, M.A., El-Batal, A.I. | Q3 | 3.43 | |
| 32 | Electrospun cellulose nanofibers immobilized with anthocyanin extract for colorimetric determination of bacteria | International Journal of Biological Macromolecules, 2024 | Abu Zaid, A.S, Aboshanab, K.M.. | Hassan, N.F., Khattab, T.A., Fouda, M.M.G. | Q1 | 8.5 | |

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|----|---|-------------------------|---|--|------------------|---------------|-------------------------------------|
| 33 | Scaling up production of cephalosporin C by Acremonium chrysogenum W42-I in a fermenter using submerged fermentation. | AMB Express. 2024 | Asmaa A. Ibrahim, Ghadir S. El-Housseiny, Khaled M. Aboshanab, Mahmoud A. Yassien, Nadia A. Hassouna. | Ansgar Startmann, | Q2 | 3.94 | √ |
| 34 | Optimized production and characterization of a thermostable cellulase from Streptomyces thermodiastaticus strain. | AMB Express. 2024 | Mery S. Waheeb1 , Walid F. Elkhatib, Mahmoud A. Yassien and Nadia A. Hassouna. | -- | Q2 | 3.94 | √ |
| 35 | Production of highly cytotoxic and low immunogenic L-asparaginase from Stenotrophomonas maltophilia EMCC2297 | AMB Express 2024 | Mohammad M. Aboulwafa-Sarra E. Saleh | -Nada A. Abdelrazek, - Marwa M. Raafat, -Amal E. Ali | Q2 | 3.94 | √ |
| 36 | Hematological, inflammatory and serological responses among COVID-19 patients admitted to intensive care unit | Future Science OA, 2024 | Sarra E. Saleh Khaled Aboshanab | Mirette A.Morgan -Azza H.Salamoni -Mohammad Y. Alshahrani | Q2 | 2.5 | √ |

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|----|---|-------------------------------|--|--|------------------|---------------|-------------------------------------|
| 37 | Screening and characterization of soil bacteria for lignin and textile dye effluent bioremediation and optimization using response surface methodology | Scientific reports 2025 | Sarah Milad, Sarra E.Saleh, Mohammad M. Aboulwafa. and Nadia A. Hassouna | - | Q1 | 4.08 | |
| 38 | In vitro, genomic characterizat on and pre-clinical evaluation of a new thermostable lytic Obolenskivirus phage formulated as a hydrogel against carbapenem-resistant Acinetobacter baumannii | Scientific reports 2025 | Sarra E. Saleh &Khaled M. Aboshanab | Mahmoud M. Sherif , Neveen A. Abdelaziz, MohammadY. Alshahrani. | Q1 | 4.08 | √ |
| 39 | In vitro and preclinical evaluation of the antifungal activity of 6-methoxy-1 H-indole-2-carboxylic acid produced by <i>Bacillus toyonensis</i> strain OQ071612 formulated as nanosponge hydrogel | Microbial Cell Factories 2025 | Ghadir S. El-Housseiny & Khaled M. Aboshanab | Sayed E. El-Sayed & Neveen A. Abdelaziz | Q1 | 5.09 | √ |

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|----|--|---------------------------------------|--|--|------------------|---------------|-------------------------------------|
| 40 | Recent insights on phage therapy against multidrug-resistant <i>Acinetobacter baumannii</i> | AMB Express - March 2025 | Ann A. Elshamy, Khaled M. Aboshanab | Sandra K. Kamal, Mariam T. Mahmoud, Aya M. Elhasany, Aya A. Shady, Sherok A. Mohamed, Hasna A. Abd-Elmaaboud, Nour E. El-Awady, Rana A. Mohamed, Sara A. El-Mirghany, Sarraa W. El-Hady Mohamed M. Abd-ElRahman | Q2 | 3.94 | √ |
| 41 | Deciphering the nature and statistical optimization of antimicrobial metabolites of two endophytic bacilli | AMB Express Jan 2025 | Khaled M Aboshanab, Ghadir S El-Housseiny | Raghda S Isleem, Ahmed M Eid, Saad El-Din Hassan, | Q2 | 3.94 | |
| 42 | Statistical and neural network modeling of β -glucanase production by <i>Streptomyces albogriseolus</i> (PQ002238), and immobilization on chitosan-coated magnetic microparticles. | Bioresources and Bioprocessing (2025) | Nadia Abdelhalim Hassouna Mahmoud Abdulmegead Yassin Ghadir Saeed El-Housseiny Nourhan Hesham Elshami | | Q1 | 5.1 | √ |

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|----|--|------------------------|---|--|------------------|---------------|-------------------------------------|
| 43 | A novel thermostable lytic phage vB_EF_Enf3_CCASU-2024-3 against clinical Enterococcus faecium and Enterococcus faecalis | AMB Express 2025Apr 26 | Hassouna NA, Aboshanab KM, Bishr AS, Amr RM | Saad BT, Alshahrani MY | Q2 | 3.94 | √ |
| 44 | Unlocking Reishi's secrets: nutritional and medicinal traits of Ganoderma lucidum isolated from tree bark in Egypt | AMB Express 2025 | Mahmoud A. Yassein Mona H. El-Gayar | Ramy M. Shady, Eman El-Gebaly, Hatem S. Abbass | Q2 | 3.94 | √ |

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القسم العلمي:

(٢) الأبحاث المنشورة محليا

| | Publication title | Journal name/year | Authors from the department | Authors from other departments, faculties, or universities and their affiliation | Impact factor | Tick ✓ if it is an applied research |
|----|---|---|--|--|---------------|-------------------------------------|
| 1. | Extremely low frequency electromagnetic field (ELF-EMF) as a promising tool for treatment against multi-drug resistant bacteria | Archives of Pharmaceutical Sciences 2024 | Sarra E. Saleh-Mohammad Aboulwafa | Mohamed Hosny -Mostafa Elnakib | - | ✓ |
| 2. | Evaluation of the antibacterial, antibiofilm, and cytotoxic activities of <i>Peltophorum africanum</i> leaf methanolic extract | Archives of pharmaceutical sciences 2024 | Yomna N Elkholy, Masarra M Sakr | Sherif R. Abdel-All | - | ✓ |
| 3. | Endophytic bacteria as a source of novel bioactive compounds | Archives of Pharmaceutical Sciences 2024 | Khaled M. Aboshanab, Ghadir S. El Housseiny | Raghda S. Isleema, Ahmed M. Eidb, Saad El-Din Hassanb, | - | ✓ |
| 4. | Selenium oxyanions from harmful environmental pollutants to beneficial selenium nanoparticles | Archives of Pharmaceutical Sciences Ain Shams University/2025 | Alaa A. Hamouda; Nooran S. Elleboudy; Mohammad M. Aboulwafa; Nadia A. Hassouna | - | - | |

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القسم العلمي:

(٣) عدد الأبحاث المنشورة لكل عضو هيئة تدريس

| عدد الأبحاث المنشورة | | عضو هيئة التدريس | |
|----------------------|-------|-----------------------------|-----|
| محليا | دوليا | | |
| 1 | 7 | ا.د/ نادية عبد الحليم حسونة | ١. |
| | ٤ | ا.د/ محمود عبد المجيد يس | ٢. |
| ٢ | 3 | ا.د/ محمد مبروك أبو الوفا | ٣. |
| | ٦ | ا.د/ وليد فيصل الخطيب | ٤. |
| ١ | 32 | ا.د/ خالد محمد أنور أبو شنب | ٥. |
| ١ | ٥ | ام.د/ سارة إبراهيم صالح | ٦. |
| 1 | 7 | ام.د/ غدير سعيد الحسيني | ٧. |
| 1 | 2 | ام.د/ نوران شريف اللبودي | ٨. |
| | ٣ | د/ احمد عباس | ٩. |
| | ١ | د/ احمد سعيد أبو زيد | ١٠. |
| ١ | ٢ | د/ مسرة محمد أبو السعود صقر | ١١. |
| ١ | | د/ اليمنى ناجي | ١٢. |
| | 5 | د/ عمرو شاكر | ١٣. |
| | ١ | د/ منى هشام الجيار | ١٤. |
| | 1 | د/آن ايمن الشامي | ١٥. |

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| 44 | إجمالي عدد الأبحاث المنشورة دولياً |
| 4 | إجمالي عدد الأبحاث المنشورة محلياً |
| 17 | إجمالي عدد الأبحاث المنشورة في دوريات Q1 |

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| 24 | إجمالي عدد الأبحاث المنشورة في دوريات Q2 |
| 3 | إجمالي عدد الأبحاث المنشورة في دوريات Q3 |
| - | إجمالي عدد الأبحاث المنشورة في دوريات Q4 |
| 43 | إجمالي عدد الأبحاث المشتركة |
| 31 | إجمالي عدد الأبحاث التطبيقية |
| 3.86 | متوسط معامل التأثير للأبحاث الدولية |
| --- | عدد المشروعات البحثية الممولة |
| --- | إجمالي حجم التمويل للمشروعات البحثية بالجنية المصري |
| --- | إجمالي عدد الجوائز الحاصل عليها أعضاء هيئة التدريس |
| --- | إجمالي عدد براءات الاختراع الحاصل عليها أعضاء هيئة التدريس |

القائم بأعمال رئيس القسم

أ.م.د/ سارة إبراهيم صالح