

YASSER GABER

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I am privileged to study/work/teach at prestigious universities, e.g. Lund Uni. Sweden, Groningen Uni. The Netherlands, Lincoln Uni., UK, Cairo Uni, Egypt, and Mutah Uni. Jordan. Therefore, I have excellent experience in teaching, research, and leadership skills. I received the Beni-Suef Uni Encouragement Award in 2017. My research interests are applied microbiology and biotechnology. I published in Q1 journals as the first author. The highest fund I have received is one million EGP. I have been selected as Vice Dean of the Faculty of Pharmacy at Mutah University for two consecutive years. I founded the ranking office at Beni-Suef University in 2015 and was the first director. I have also coordinated the application for ACPE accreditation at the Mutah University pharmacy faculty.

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Education

- May 2012 Doctor of Philosophy (Ph.D.) in Biotechnology, Lund University, Sweden
- March 2007 M.Sc. Microbiology, Faculty of Pharmacy, Cairo University, Egypt.
- May 1999 B.Sc. Pharmaceutical Sciences, *Excellent with Honor*, Cairo University.

Academic history

- October 2023- present; Professor of Microbiology, Faculty of Pharmacy, Mutah Uni, Jordan
- June 2023- Present; Professor of Microbiology and Immunology, Beni-Suef Uni. Egypt
- September 2018 – Present; Associate professor, Faculty of Pharmacy, Mutah University, Jordan
- February 2018 – 2023; Assistant professor, Faculty of Pharmacy Beni-Suef University, Egypt
- 2012 – 2018; Lecturer, Department of Microbiology, Beni-Suef University, Egypt
- 2007 – 2012; Assistant lecturer, Dept. of Microbiology, Beni-Suef University, Egypt
- 2001 – 2007; Demonstrator, Department of Microbiology, Beni-Suef University, Egypt

References:

- Prof. Tarif Shawky Farag: Former Beni-Suef University Vice-President: tarifag58@bsu.edu.eg, Tarifag58@yahoo.com, Tel: 00201006733540
- Prof. Dr. Rajni Hatti-Kaul Lund Uni., Sweden E-mail: Rajni-Hatti-kaul@biotek.lu.se, [Tel:0046708748540](tel:0046708748540)
- Prof. Ahmed Elgendy, Dean of LIRA, Beni-Suef University, Former Head of Microbiology Dept. Beni-Suef, ahmed.elgendy@pharm.bsu.edu.eg; [Tel:00201223476015](tel:00201223476015)

H-Index:

- Scopus-based H-index: 14, Scopus citations: 520

Leadership positions and committee memberships

- October 2023- Present, Assistant Professor of Scientific Research, Mutah University
- 19/9/2021 – 1/10/2022, **vice-dean**, faculty of pharmacy, Mutah University, Jordan, Decree is issued by Mutah University Board of Trustees.
- January 2020 – 19/9/2021, **Vice Dean, Faculty** of Pharmacy, Mutah University, Jordan, the decree is issued by the Mutah University Board of Trustees.
- September 2021- current Editorial board Mutah Lil-Buhuth wad-Dirasat Natural and Applied Sciences series. The President of Mutah University issued the decree.
- January 2020 – 2022, Team member and coordinator of national and international accreditation applications (ACPE) at the faculty of pharmacy, Mutah University
- December 2019 – 19/9/2021, Mutah University Committee for Ranking Issues, Dean of Scientific Research, Mutah University, Jordan, Decree is issued by the Mutah University President.
- December 2019 – Current Dean Assistant for Quality Assurance issues, Mutah University, Jordan
- February 2018 – October 2018 Membership in EYAS, Egyptian Young Academy of Sciences, ASRT, Egypt
- December 2017 - The Egyptian Organization for Standardization and Quality Control (EOS), Biotechnology Committee
- December 2015 – December 2017 Member of the Industry Development Council, Academy of Scientific Research and Technology, Egypt.
- September 2015 – Founder and first Director of the International Ranking Office, Beni-Suef University, Egypt
- December 2014 – September 2015, Vice-Director of QAAC - Quality Assurance and Accreditation Center for University Ranking Issues, Beni-Suef University, Egypt
- October 2014 – December 2014, Assistant Director for Training and Conferences Unit, Beni-Suef University, Egypt

- Beni-Suef University Strategic Planning Committee Member, Beni-Suef University, Egypt

Hyperlinks to personal websites and author profiles

- <https://publons.com/researcher/312002/yasser-gaber/>
- http://www.bsu.edu.eg/Content.aspx?side_id=190&cat_id=28
- <http://eg.linkedin.com/pub/yasser-gaber/25/291/851>
- https://www.researchgate.net/profile/Yasser_Gaber2
- <http://www.researcherid.com/rid/G-4577-2013>

Research projects, scholarships, and awards:

1. Invitation to attend the scientific research conference attended by H.E. The Egyptian President (2018)
2. Honoring from H.E. Jordanian Higher Education Minister (2020)
3. A PI of a grant of 18000 JOD, Mutah University, Jordan
4. Mutah University Award for “Best Course Portfolio Scientific Faculties” 2019.
5. May 2017, I won the University Encouragement Award from Beni-Suef University, Sixth Science Day, Beni-Suef University, Beni-Suef, Egypt.
6. December 2014, P.I. of the one million EGP funded project from the Academy of Scientific Research and Technology, Ministry of Scientific Research, Egypt
7. December 2013, Short-Term Postdoctoral Fellowship from the Egyptian Ministry of Higher Education
8. May 2010-June 2012, a scholarship from the European Union, Erasmus Mundus FFEEDB-program.
9. April 2008- April 2010, a two-year scholarship from The Egyptian Ministry of Higher Education.

Supervisions on master and PhD students (2014-2023)

Student; Degree; University; Role in Supervision

- 1- Nourhan Abdallah, PhD, Beni-Suef Uni., Main Supervisor, successfully finished.
- 2- Karim Abdelkader, Ph.D., Beni-Suef Uni, Co-supervisor, successfully finished.
- 3- Mariam Mohamed, Master, Beni-Suef Uni, Main Supervisor, successfully finished.
- 4- Mai Elmahdy, Master, Beni-Suef Uni, Main Supervisor, successfully finished.
- 5- Anas Abbas, Master, Beni-Suef Uni, Main Supervisor, successfully completed.
- 6- Alzahra Mohamed, Ph.D., Beni-Suef Uni, Co-supervisor, successfully finished.
- 7- Sara Salama, Master, Beni-Suef Uni, Main supervisor, successfully finished.
- 8- Assem Karaja, Master, Mutah University, Main supervisor, successfully finished.
- 9- Sakha Albotoush, Master, Mutah University, Main supervisor, ongoing
- 10- Hagar Mohamed, Master, Beni-Suef Uni, Main Supervisor, ongoing
- 11- Anas Abbas, Ph.D. Beni-Suef Uni, Main supervisor, ongoing

Teaching Experience

1. Advanced Biotechnology, Master’s Program, Faculty of Pharmacy, Mutah University, Jordan, 100%
2. Immunology and Vaccines, Faculty of Pharmacy, Mutah University, Jordan, 100%
3. Research Methodology, Master’s Program, Faculty of Pharmacy, Mutah University, Jordan, 100%
4. Pharmaceutical Biotechnology, Faculty of Pharmacy, Mutah University, Jordan, 100%
5. Pharmaceutical microbiology, Faculty of Pharmacy, Mutah University, Jordan, 100%
6. Biostatistics, Faculty of Pharmacy, Mutah University, Jordan, 100%
7. Microbiology I, Faculty of Pharmacy, Mutah University, Jordan, 100%
8. Pharmaceutical microbiology, Faculty of Pharmacy, Mutah University, Jordan, 100%
9. Pharmacoeconomics, Faculty of Pharmacy, Mutah University, Jordan, 100%
10. Epidemiology, Faculty of Pharmacy, Mutah University, Jordan, 100%
11. Basic Microbiology and Immunology, Faculty of Pharmacy, Beni-Suef University, Egypt, 50%
12. Parasitology, Faculty of Pharmacy, Beni-Suef University, Egypt, 50%
13. Cell Biology, Faculty of Pharmacy, Beni-Suef University, Egypt, 50%
14. Public Health, Faculty of Pharmacy, Beni-Suef University, Egypt, 50%
15. Medical Microbiology, Faculty of Pharmacy, Beni-Suef University, Egypt, 50%
16. Infectious Diseases, PharmD Program, Faculty of Pharmacy, Beni-Suef University, Egypt, 20%
17. Advanced Techniques in Microbiology, Postgraduate, Faculty of Pharmacy, Beni-Suef University, Egypt, 100%
18. Biotechnology, Postgraduate Program, Faculty of Pharmacy, Beni-Suef University, Egypt, 50%

19. Pharmaceutical Microbiology, Faculty of Pharmacy, Beni-Suef University, Egypt, 100%
20. Proteomics, Postgraduate School of Advanced Sciences, Beni-Suef University, Egypt, 100%
21. Proteomics and Enzymology, Postgraduate School of Advanced Sciences, Beni-Suef University, Egypt, 100%
22. Biotechnology, Faculty of Pharmacy, Beni-Suef University, Egypt, 50%
23. Basic Microbiology and Immunology, Faculty of Pharmacy, Nahda - Beni-Suef, Egypt, 50%
24. Parasitology, Faculty of Pharmacy, Nahda - Beni-Suef, Egypt, 100%
25. Basic Microbiology and Immunology, Faculty of Pharmacy, Fayoum University, Egypt, 50%

Conferences and workshops:

- I presented several posters, gave oral talks and actively participated in conferences, workshops, and events in Jordan, South Africa, Japan, Sweden, Egypt, Germany, Italy, Belgium, The Netherlands, and the United Kingdom

Membership in scientific societies

- American Society of Microbiology 2022 - Present
- SANE; Swedish Alumni Network in Egypt (**Swedish Institute and Swedish Embassy in Cairo**).
- The Netherlands Society for Biochemistry and Molecular Biology (NVBMB), 2012-2014
- European Federation of Biotechnology

Software developed:

- I designed free software, HPLC-EAT, for green chemistry applications.

Laboratory experience:

- November 2012-present, visiting researcher and then postdoctoral fellow, Groningen University, The Netherlands. I did enzymology and molecular biology research in the group of Professor Marco Fraaije.
- May 2008 – May 2012, Ph.D. student, Department of Biotechnology, Lund University, Sweden
I worked on a project to engineer enzymes via site-directed mutagenesis and rational design of enzymes.
- January 2001- April 2008, Teaching Assistant, Faculty of Pharmacy, Beni-Suef University, Egypt
I conducted clinical microbiology research, including isolating and identifying bacterial and yeast microorganisms, and performed antimicrobial susceptibility studies.

Workshops and Curriculum Development:

- May 2017: Teaching a two-day workshop entitled Structural Bioinformatics – Beni-Suef University
- 2014-present: Participated in teaching and developing NEW curricula such as proteomics biotechnology, basic microbiology, cell biology, parasitology, and others.

Courses, training, methodologies, and computer skills:

- I attended several courses and trainings organized by the following universities. Lund, Uppsala, Linnaeus, Groningen, Cairo, and Beni-Suef. Courses, methodologies, and computer skills.

Activities:

- Editor, Cogent Biology Journal, Taylor & Francis Online Publisher³
- Editor reviewer of Frontiers in Microbiology and Frontiers in Bioengineering and Biotechnology
- Reviewer of other journals (Biotechnology Reports, Elsevier; Beni-Suef Journal of applied sciences, Elsevier).
- 2008 – 2012, Attendance of Nobel Prize laureate lectures held at Lund University

Volunteering activities

1. I was able to provide the department of microbiology at Beni-Suef University with a recent PCR machine and a protein analysis machine for gel and western blot analysis in 2018 via one of the projects

2. Taking an important role in organizing the first department conference “Biotechnology for Emerging Economies” held in Beni-Suef, 7 April 2015, <http://microbsu.webs.com/bsu-be2015>
3. Member of the committee supervising the Beni-Suef University Research City project (October 2014 - present).
4. Participation in Beni-Suef University Research Plan 2015-2020. http://www.bsu.edu.eg/Content.aspx?section_id=462&cat_id=1
5. Member of Beni-Suef University Committee for mission affair
6. Member of the Beni-Suef University Committee for University Buildings Coding Project

Participation in national and international conferences

1. Oral talk entitled ‘Characterization of a chitinase from *Thermobifida fusca*’ in the international conference Science and Science Management for Sustainable Development, organized by Alexander von Humboldt and JSPS, National Research Center, 24-26 October, Cairo, Egypt
2. Biovision2016, Bibliotheca Alexandrina, 12-14 April, Alexandria, Egypt.
3. Participation in the 7th HOPE meeting with Nobel Laureates, sponsored by JSPS, Tokyo, **Japan**, March 2015. <http://www.jsps.go.jp/english/e-hope/>
4. Participation in the Africa Universities Summit sponsored by THE TIMES Higher Education and Johannesburg University, 30-31 July, South Africa. <http://www.cvent.com/events/the-africa-universities-summit/event-summary-e374eaf1963746bba072de79456ab02d.aspx>
5. Horizon 2020, Science with and for society, Brussels, **Belgium**, May 2014 <http://www.b2match.eu/science-society-2014/participants/191>
6. November 2013, poster presentation and attendance at a mini-symposium <http://www.biocatalysis.nl/Program.html>, Delft University, Delft, The **Netherlands**
7. September 2013, Industrial biotechnology: meeting the challenges, http://www.kilu.lu.se/industrial_biotechnology_2013/program/, Lund, Sweden. Two-posters presentation.
8. September 2013, 21st Annual GBB Symposium, Groningen, The Netherlands. (Poster presentation) <http://www.rug.nl/research/gbb/education/generalcourses/gbbsymposium/>
9. May 2012, Clean Water Through Biotechnology and Nanotechnology Conference, <http://www.kilu.lu.se/bionano2012>, Lund, Sweden.
10. April 2012, Catalyzing Bio-Economy - Biocatalysts for Industrial Biotechnology, Annual meeting of DECHEMA-VAAM Section Biotransformations, Frankfurt am Main, Germany. Poster presentation: Enzymatic asymmetric hydrolysis of racemic clopidogrel.
11. October 2011, Biotrans2011 conference, Sicilia, Italy. Poster presentation: Enzyme-catalyzed kinetic resolution of racemic clopidogrel.
12. September 2011, 11th Swedish Bioinformatics Workshop (SBW2011), Lund, Sweden. Oral Talk and poster presentation: Molecular modeling as a rational design tool for an esterase, <http://cbbp.thep.lu.se/sbw2011/abstalks.html>.
13. November 2010, First Swedish-Egyptian Biotechnology Workshop, Cairo, Egypt. Oral talk: Enzymatic synthesis of biosurfactants.
14. November 2010, Industrial Biotechnology-A platform for sustainable growth in Sweden, Lund, Sweden. Poster Presentation: Enzymatic synthesis of N-alkanoyl-N-methylglucamide surfactants: solvent-free production and environmental assessment. <http://www.greenchem.lu.se/seminars/>

Courses I have passed:

1. Protein Engineering of Cytochrome P450s, I gave an oral presentation (3 credits, Porf. Dick Janssen, Groningen Univ. The Netherlands)
2. Bacteria as Protein Factories (3 credits, Assoc. Porf. Claes von Wachenfeldt, Biology Dept. Lund Univ.)
3. Methods in Molecular Biology (15 credits, Assoc. Prof. Nora Asumees, Biology Dept. Lund Univ.)
4. Bioprocess Technology (7.5 credits, Porf. Olla Holst, Department of Biotechnology, Lund Univ.)
5. Biochemical reaction engineering (7.5 credits, Prof. Gunnar Liden, Chemical Engineering Dept. Lund Univ.)
6. Enzyme Technology (7.5 credits, Prof. Patrick Adlercreutz, Biotechnology Dept. Lund Univ.)
7. Green Chemistry and Biotechnology (7.5 credits, Prof. Eva Nordberg Karlsson, Lund Univ., Biotechnology Department)
8. Structural Bioinformatics (15 credits, Prof. Salam Al-karadaghi, Center for Molecular Protein Science, Lund Univ.)
9. Environmental Issues and Hazards in the Chemical Research Laboratory (2 credits, Prof. Ulf Henrik, Department of Organic Chemistry, Lund Univ.)
10. Pharmaceutical bioinformatics (7.5 credits, Dr. Maris Lapins, Pharmaceutical Biosciences, Uppsala Univ.)
11. English for Research Writing (8 credits, Dr. Rowena.Jansson, Linnaeus Univ.)
12. Research Ethics for Chemists (2 credits, Prof. Jonas Josefsson, Philosophy Institution, Lund Univ.)
13. Introductory Workshop for New Ph.D. Students at LTH (2 credits, Dr. Anders Ahlberg, Lund Univ.)
14. Scientific Information Management (3 credits, Alexandra Forsberg, Lund Univ.)

Activities during 2001-2012, Beni-Suef, Egypt:

1. Faculty Development Leadership Program (FDLP) courses held at Beni-Suef University for promoting skills in: Leadership, Scientific Research, Effective Teaching, and Effective Communication
2. 2000-2001, Pre-Master courses, Cairo University, Cairo, Egypt
3. Advanced courses in statistics, microbiology, immunology, and Genetics

Laboratory and software skills

- Genomics analysis via online webtools
- Bioinformatics tools for protein engineering, such as homology modeling, molecular dynamic simulations, and ligand-receptor docking
- Molecular biology techniques: PCR, ligation, transformation, DNA extraction, and sequencing
- Background about Isothermal Titration Calorimetry, Supercritical Carbon Dioxide, Fermentation Processes, LC-MS, Protein purification and Characterization
- 3DM-information system (Paid protein engineering database)
I worked on 3DM database systems of alpha-beta hydrolases and glycoside transferases.
- YASARA Structure Package (Molecular Modeling software)
- Online databases: Expassy Bioinformatic Resource Portal, UniProt, NCBI and others

Reviewing and editorial activities

- Industrial & Engineering Chemistry Research: American Chemical Society
- Journal of Chemical Technology & Biotechnology: Wiley
- Pest Management Science: Wiley
- Journal of Pharmaceutical Health Services: Wiley
- Physiology and Molecular Biology of Plants: Springer
- Applied Biochemistry and Biotechnology: Springer
- Beni-Suef University Journal of Basic: Springer
- Frontiers in Bioengineering and Biotechnology Frontiers
- Pathogens: MDPI
- Diversity: MDPI
- Microorganisms: MDPI

- All Life: Taylor & Francis
- Cogent Biology: Taylor & Francis
- Biotechnology Reports: Elsevier

Skills

- Strategic planning
- Scientific Research
- Team worker
- Academic mentoring
- Accreditation
- University Ranking
- Microbiology
- Pharmacy Education
- ACPE accreditation
- THE Times Ranking
- Q.S. ranking
- Leadership
- Time management
- Scientific Writing
- Scientific thinking
- Molecular Biology
- Microbial drug resistance

Publications list:

1. N Al-Alami, N AbdelAllah, **Y Gaber**, K Shatanawi. Monitoring the microbiological quality of dialysis water: a case study in selected hemodialysis units in Amman, Jordan before and during COVID-19 pandemic *Desalination and Water Treatment* 284, 72-80. 2023
2. Sayed M, **Gaber, Y.**, Junghus F, Martín EV, Pyo SH, Hatti-Kaul R. Oxidation of 5-hydroxymethylfurfural with a novel aryl alcohol oxidase from *Mycobacterium* sp. MS1601. *Microbial Biotechnology*. 2022. [**IF 6.8**]
3. Abdelkader K, Gutiérrez D, Tamés-Caunedo H, Ruas-Madiedo P, Safaan A, Khairalla AS, **Gaber, Y.** et al. Engineering a Lysin with Intrinsic Antibacterial Activity (LysMK34) by Cecropin A Fusion Enhances Its Antibacterial Properties against *Acinetobacter baumannii*. *Applied and Environmental Microbiology*. 2022;88(1):e01515-21. [Q1 microbiology, ASM publisher]
4. M.E. Rashed, A.M. Abbas, E. El-Gebaly, N.H. AbdelAllah, **Y. Gaber**, Evaluation of the antibody levels against bcg and polysaccharides meningococcal vaccines when combined, co-administrated or administrated at different intervals in murine model, *Journal of microbiology, biotechnology and food sciences*, 12 (2022) e5669-e5669.
5. Magdy MM, Gaber, Y., Sebak M, Azmy AF, AbdelGhani S. Different metabolic pathways involved in anthracene biodegradation by *Brevibacillus*, *Pseudomonas* and *Methylocystis* Species. *Beni-Suef University Journal of Basic and Applied Sciences*. 2022;11(1):1-11.
6. Abbas AM, Rashed ME, El-Gebaly E, AbdelAllah NH, **Gaber, Y.** Comparative evaluation of the humoral immune interaction when BCG and conjugated meningococcal vaccines combined or co-administrated in mice. *Comparative Immunology, Microbiology and Infectious Diseases*. 2022;84:101778. [Q1 WoS]
7. Salama S, Habib MH, Hatti-Kaul R, **Gaber, Y.** Reviewing a plethora of oxidative-type reactions catalyzed by whole cells of *Streptomyces* species. *RSC advances*. 2022;12(12):6974-7001.
8. Abdelkader K, Gutiérrez D, Latka A, Boeckeaerts D, Drulis-Kawa Z, Criel B, **Gaber, Y.**, et al. The Specific Capsule Depolymerase of Phage PMK34 Sensitizes *Acinetobacter baumannii* to Serum Killing. *Antibiotics*. 2022;11(5):677.

9. S. Mahmoud, Y. Gaber, R.A. Khattab, W. Bakeer, T. Dishisha, M.A. Ramadan, The inhibitory effect of dextranases from *Bacillus velezensis* and *Pseudomonas stutzeri* on *Streptococcus mutans* biofilm, *Iranian Journal of Microbiology*, 14 (2022).
10. Maebed, A.Z.M., **Gaber Y.**, Bakeer, W. and Dishisha, T., 2021. Microbial etiologies of ventilator-associated pneumonia (VAP) in intensive care unit of Beni-Suef University's Hospital. *Beni-Suef University Journal of Basic and Applied Sciences*, 10(1), pp.1-10.
11. AbdelAllah, N.H., **Gaber, Y.**, AbdelGhani, S., Rashed, M.E. and Azmy, A.F., 2021. Chitosan and alginate salt as biomaterials are potential natural adjuvants for killed cholera vaccine. *Journal of Biomedical Materials Research Part A*.
12. Alhadrami, H.A., Sayed, A.M., Hassan, H.M., Youssif, K.A., **Gaber, Y.**, Moatasim, Y., Kutkat, O., Mostafa, A., Ali, M.A., Rateb, M.E. and Abdelmohsen, U.R., 2021. Cnicin as an Anti-SARS-CoV-2: An Integrated In Silico and In Vitro Approach for the Rapid Identification of Potential COVID-19 Therapeutics. *Antibiotics*, 10(5), p.542.
13. Alhadrami, H. A., Sayed, A. M., El-Gendy, A. O., Shamikh, Y. I., **Gaber, Y.**, Bakeer, W., ... & Hozzein, W. N. (2021). A metabolomic approach to target antimalarial metabolites in the *Artemisia annua* fungal endophytes. *Scientific reports*, 11(1), 1-11. (IF 4)
14. El-khatib L, Al-dalain S., Al-Matarneh R, Al-Bustanji S, Al-Dmour M, Al-Amarin Y and **Gaber, Y.** Prevalence of multi-drug resistant *Acinetobacter baumannii* (MDRAB) in Amman Jordan during 2018, *Infect Disord Drug Targets*. 2020, 22(1), 105-111.
15. **Gaber, Y.**, Rashad, B., Hussein, R., Abdelgawad, M., Ali, N. S., Dishisha, T., & Várnai, A. (2020). Heterologous expression of lytic polysaccharide monoxygenases (LPMOs). *Biotechnology Advances*, 107583-107583. (IF 14.22)
16. Shamikh YI, El Shamy AA, **Gaber, Y.**, Abdelmohsen UR, Madkour HA, Horn H, Hassan HM, Elmaidomy AH, Alkhalifah DH, Hozzein WN. (2020). Actinomycetes from the Red Sea Sponge *Coscinoderma mathewsi*: Isolation, Diversity, and Potential for Bioactive Compounds Discovery. *Microorganisms*. 2020 May;8(5):783. (IF 4.1)
17. Abdelkader, K., D. Gutiérrez, D. Grimon, P. Ruas-Madiedo, C. Lood, R. Lavigne, A. Safaan, A. S. Khairalla, **Y. Gaber**, T. Dishisha and Y. Briers (2020). "Lysin LysMK34 of *Acinetobacter baumannii* bacteriophage PMK34 has a turgor pressure-dependent intrinsic antibacterial activity and reverts colistin resistance." *Applied and Environmental Microbiology*: AEM.01311-01320. (IF 4.016)
18. AbdelAllah, N.H., Gaber, Y., Rashed, M.E., Azmy, A.F., Abou-Taleb, H.A. and AbdelGhani, S., 2020. Alginate-coated chitosan nanoparticles act as effective adjuvant for hepatitis A vaccine in mice. *International journal of biological macromolecules*, 152, pp.904-912. (IF 4.78)
19. Elmahdy M., Azmy A. F., El-Gebaly E., Safaan A., **Gaber, Y.** (2020) A comparative proteomic study of *Thermobifida cellulositytica* TB100T secretome grown on Carboxymethylcellulose and Rice Straw. *The Open Biotechnology Journal*
20. Ali, M. S., Hussein, R. M., **Gaber, Y.**, Hammam, O. A., & Kandeil, M. A. (2019). Modulation of JNK-1/ β -catenin signaling by *Lactobacillus casei*, inulin and their combination in 1, 2- dimethylhydrazine-induced colon cancer in mice. *RSC Advances*, 9(50), 29368-29383. (IF 3.09).
21. Abdel-Aleem, H., Dishisha, T., Saafan, A., AbouKhadra, A.A. and **Gaber, Y.** (2019). Biocementation of soil by calcite/aragonite precipitation using *Pseudomonas azotoformans* and *Citrobacter freundii* derived enzymes. *RSC Advances*, 9(31), pp.17601-17611. (IF 3.09).
22. S. Salama, T. Dishisha, M.H. Habib, A.Z. Abdelazem, W. Bakeer, M. Abdel-Latif, **Gaber, Y.**, Enantioselective sulfoxidation using *Streptomyces glaucescens* GLA. 0, *RSC advances*, 10 (2020) 32335-32344.
23. Zidan, A.F., Aboukhadra, A.A. & **Gaber, Y.** (2019). Enhancement of resilient modulus of cohesive soil using an enzymatic preparation. *J. Cent. South Univ.* 26: 2596. Doi: 10.1007/s11771-019-4197-1 (IF 0.97)
24. **Gaber, Y.**, Rashad, B., & Fathy, E. (2019). Biological 3D Structural Databases. In *Essentials of Bioinformatics*, Volume I (pp. 47-73). Springer, Cham. [Book chapter], DOI:10.1007/978-3-030- 02634-9_4

25. Khadra, A. A., Zidan, A. F., & **Gaber, Y.** (2019). Ground Improvement Technique Using Geogrid Reinforcement with Additives (experimental study). *Life Science Journal*, 16(4).
26. AbouKhadra, A., Zidan, A. F., & **Gaber, Y.** (2018). Experimental evaluation of strength characteristics of different Egyptian soils using enzymatic stabilizers. *Cogent Engineering*, 5(1), 1-11.
27. **Gaber, Y.**, and Ismail M., (2017) Cross-linked Enzyme Aggregates of Pig Liver Esterase Evaluated in Kinetic Resolution of Racemic Clopidogrel. *Biotechnology*, 16, 123-129
28. **Gaber, Y.**, (2016) In-silico smart library design to engineer a xylose-tolerant hexokinase variant. *African J. Biotechnol.* 15(21), 910-916.
29. **Gaber, Y.**, Mekasha S., Vaaje-Kolstad G., Vincent GH Eijsink V.G.H., Fraaije M.W., (2016) Characterization of a Chitinase from the Cellulolytic Actinomycete *Thermobifida fusca*. *Bioch. et Bioph. Acta (BBA)-Proteins and Proteomics* 1864, 1253–1259 (IF 3.016).
30. Sayed, M., **Gaber, Y.**, Bornadel, A., and Pyo S., (2016) Multi-steps Green Process for Synthesis of Six-Membered Functional Cyclic Carbonate from Trimethylolpropane by Lipase Catalyzed Methacrylation and Carbonation, and Thermal Cyclization. *Biotechnol. Prog.* 32 , 83-88 (IF 2.167).
31. **Gaber, Y.**, Ismail M., Bisagni S., Takwa M., and Hatti-Kaul R., (2015) Rational mutagenesis of pig liver esterase (PLE-1) to resolve racemic clopidogrel. *J. Mol. Catal. B. Enzym.* 122, 156-162. (IF 2.189)
32. Ferrari A., **Gaber, Y.**, Fraaije, M.W., (2014). Fast, sensitive, and easy colorimetric assay for chitinase and cellulase activity detection. *Biotechnol. Biofuels* 7:37, (IF, 6.444)
33. **Gaber, Y.**, Åkerman, C.O., M., Hatti-Kaul, R., (2014) Environmentally evaluated HPLC-ELSD method to monitor enzymatic synthesis of a non-ionic surfactant. *Chem. Cent. J.* 8:33 (IF, 2.552)
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