SULAIMAN ALNAIMAT

Associate Professor in Molecular Microbiology

Experienced Associate Professor in Molecular Microbiology with over 10 years of teaching and research experience. Specialized in molecular microbiology with expertise in whole-genome sequencing, microbial taxonomy, and phylogenomic analysis. Research focuses on bioactive gene clusters, actinomycete diversity, and the characterization of extremophiles from desert rock varnish and arid environments

PERSONAL INFORMATION

NATIONALITY:
Jordanian

DATE OF BIRTH:
03/05/1981

PLACE OF BIRTH:
Ma'an, Jordan

PHONE:
00962772229392

ADDRESS:
Al - Hussein Bin Talal University, P.O. Box (20), Ma'an, Jordan

EMAIL:
s_alnaimat@ahu.edu.jo
sulaimanalnaimat2010@gmail.com

RESEARCH PROFILES

GOOGLE SCHOLAR:
https://scholar.google.com/citations?user=Z8Pxfo0AAAAJ&hl=en

ORCID ID:
https://orcid.org/0000-0002-1545-3198

RESEARCHGATE:
https://www.researchgate.net/profile/Sulaiman-Alnaimat

EDUCATION

University of New Hampshire, USA
2019 – 2020
Post-Doctoral Fellowship in Molecular Microbiology
[Focus: Taxonomy and polyphasic characterization of actinomycetes from rock varnish in arid environments. Funded by Fulbright Scholarship.]

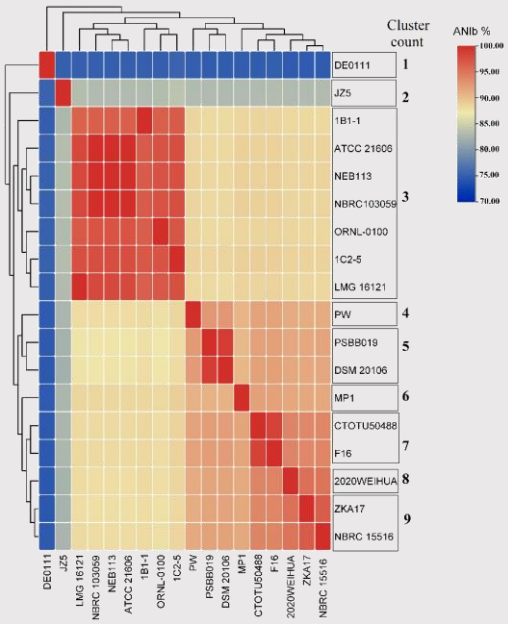
University of Sheffield, Sheffield, UK
2008 – 2011
PhD in Microbiology
A contribution to the study of biocontrol agents, apitherapy, and other potential alternatives to antibiotics.

University of Jordan, College of Science, Jordan
2006 – 2008
Master of Science (M.Sc.) in Biology
GPA: 3.23 out of 4.0 — Very Good

Mu'tah University, College of Science, Jordan
1999 – 2003
Bachelor of Science (B.Sc.) in Biology
Final Grade: 77.19% — Very Good

WORK EXPERIENCE

Sept. 2017-Now:
Associate Professor, Department Medical analysis & Biology Department, AHU
2024-2025:
Part-Time Lecturer at American University of Madaba (AUM), Jordan
Dec 2020-2022:
Director at The Center for Studies Consultations and Community Development.
2017-2018:
Vice dean of Princess Aisha Bint Al-Hussein College of Nursing & Health Sciences.
2017-2018:
Head of the Department of Medical Analysis, AHU, Jordan
2016-2017:
Head of the Biology department, AHU, Jordan.
2014-2016:
Vice dean of academic research, AHU, Jordan.
2014-2016:
Member of the Academic Research Council, AHU, Jordan.
2015-2016:
Editorial Board Member. Al-Hussein Bin Talal's Journal of Research.
2015-2017:
Member of the Science College Council, AHU.
2011-2017:
Assistant Professor, Biology Department, AHU
2003-2008:
Teacher of Biological Sciences, Ministry of Education, Jordan



- **EDUCATIONAL YOUTUBE CHANNELS & SCIENCE COMMUNICATION**

1. Ighris Faseelah Channel

A channel focused on concise scientific knowledge and academic skills enhancement for students and researchers. The name is inspired by a prophetic saying encouraging positive action and hope. Playlists include:

1. **Essential Resources for Postgraduate Students**
2. **Scientific Facts in Minutes**
3. **General Biology 101**
4. **Seminar Skills**
5. **EndNote Referencing Training**
6. **Using Generative AI in Academic Work**

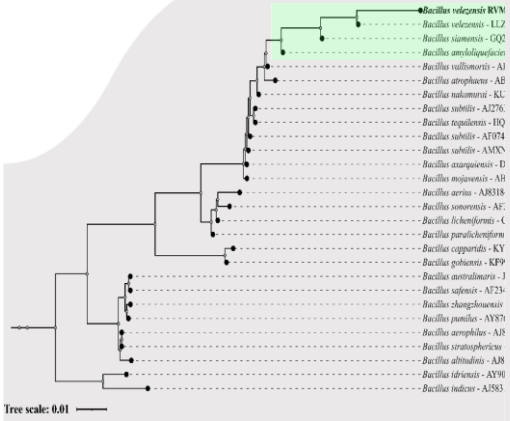
2. Dr. Sulaiman Alnaimat Channel

Dedicated to detailed university-level explanations of life sciences courses. Playlists include:

1. **Microbiology for Biological Sciences students**
2. **Microbiology for Nursing Students**
3. **Microbiology for Medical Laboratory Students**
4. **General Environmental Science**
5. **Virology Course**
6. **General Biology 102**
7. **Cancer Biology**
8. **General Biology Lab 103**

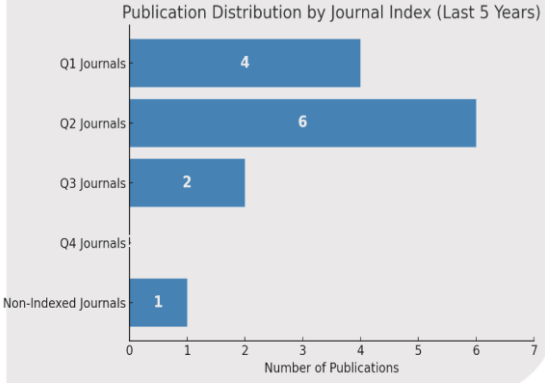
COURSES TAUGHT AND ACADEMIC ACTIVITIES

- **Courses taught:** General Microbiology, Medical Microbiology, Clinical Microbiology, Environmental Microbiology, Microbial Genetics, Microbial Biotechnology, Cancer Biology, General Biology 101, General Biology 102, Cell Biology, Molecular Biology, Practical Molecular Biology, General Virology, Practical Microbiology, Seminar, Practical Clinical Microbiology, and Marine Pollution.
- **An external examiner** for approximately 20 M.Sc. dissertations in the Biology department of Mu'tah University
- **Reviewer at:** Saudi Biological Journal, Jordan Journal of Biological Sciences (JJBS), Biodiversitas Journal of Biological Diversity, International Journal of Pharmaceutical Research, JMBFs, and International Journal of Biometeorology.
- **EndNote software** program trainer for AHU academic staff.
- **YouTube channel** (Science content in Arabic language) : https://bit.ly/3h4hY2R
- **Public lectures:** I delivered a series of engaging and informative public lectures, including the following titles:
    - **Developing Healthcare Through Artificial Intelligence: Prospects and Challenges**
    - **Tips and tricks for managing email more effectively in Microsoft Outlook**
    - **Using ChatGPT in Academia:** Harnessing the Power of AI for Research and Education
    - **Using Artificial Intelligence -** Language Models (ChatGPT) in the Daily Tasks of Municipality Employees
    - "**The Hidden World of Bacteria**: Unveiling the Microscopic Giants Among Us
    - **The Story of Antibiotics**: From Serendipitous Discoveries to the Battle Against Resistance
    - **Bacterial Self-Healing Concrete**: Building a Sustainable Future with Microbial Technology
    - **Viruses: Too Small but High Impact**: Exploring the Intricate World of Viral Infections
    - **Metagenomics in Medical Diagnosis**: Recent Developments and Future Perspectives
    - **Sites and Applications Benefiting Postgraduate Students**: Navigating the Digital Tools for Academic Success



INDEXED PUBLICATIONS (LAST 5 YEARS)

Category	Count	Journals
Q1 Journals	**4**	PLOS ONE (2025), EJGM (2024), Plants (2023), OMCL (2021)
Q2 Journals	**6**	Frontiers in Microbiology (2024), Biodiversitas (2024), Saudi Pharmaceutical Journal (2023), Applied Biochemistry and Biotechnology (2022), Genes (2021), Journal of Applied Pharmaceutical Science (2022)
Q3 Journals	**2**	Microbiology Resource Announcements (2025), Letters in Applied Microbiology (2022)
Q4 Journals	**0**	—
Non-Indexed Journals	**1**	Journal of Genomics (2022, PubMed only)



PUBLICATIONS (LAST 5 YEARS)

1. **Alnaimat, S. M.**, AbuShattal, S. S., & Dmour, S. M. **(2025)**. Genomic insights into the taxonomic status and bioactive gene cluster profiling of ***Bacillus velezensis*** RVMD2 isolated from desert rock varnish in Ma'an, Jordan. PLOS ONE. (Accepted on 30/01/2025; will be officially published soon). **(Q1)**

2. **Alnaimat, S. M.**, AbuShattal, S., & Dmour, S. **(2024)**. Comparative genomic characterization of *Cellulosimicrobium funkei* isolate RVMD1 from Ma'an desert rock varnish challenges *Cellulosimicrobium* systematics. Frontiers in Microbiology, 15, 1445943. https://doi.org/10.3389/fmicb.2024.1445943. **(Q2)**

3. **Alnaimat, S. M.**, AbuShattal, S., & Dmour, S. **(2025)**. Draft genome of halophilic *Salinicoccus roseus* H15 isolated from desert rock varnish in Ma'an, Jordan. Microbiology Resource Announcements, 0, e00928-24. https://doi.org/10.1128/mra.00928-24. **(Q3)**

4. AbuShattal, S., Alnasarat, H., **Alnaimat, S. M.**, & Eid, E. **(2024)**. The use of 18S rRNA for identification of the first record of Tadpole Shrimp ***Lepidurus apus*** (Linnaeus, 1758) from Jordan. Biodiversitas, 25, 1223–1229. **(Q2)**

5. Dmour, S. M., Saghir, S. A. M., AbuShattal, S., Qaralleh, H., **Alnaimat, S. M.**, Al-Jaafreh, A. M., Alsbou, E. M., Abdulghani, M. A., & Almajali, I. S. **(2024)**. Biological activities and chemical composition of essential oil isolated from **Artemisia herba-alba**. Electronic Journal of General Medicine, 21(1), em569. https://doi.org/10.29333/ejgm/14161 **(Q1)**

6. Saghir, S. A., **Alnaimat, S. M.**, Dmour, S. M., Al-Tarawni, A. H., Abdelnour, S. A., Ahmeda, A. F., ... & Lindequist, U. **(2023)**. The ameliorative effect of bergamot oil nano-emulsion in stressed...Saudi Pharmaceutical Journal. **(Q2)**

7. Abu-Zaitoon, Y. M., Al-Ramamneh, E. M., Al Tawaha, A. R., **Alnaimat, S. M.**, & Almomani, F. A. **(2023)**. Comparative coexpression analysis of indole synthase and tryptophan synthase A reveals the independent production of auxin via the cytosolic free indole. Plants, 12(8), 1687. **(Q1)**

8. Abu-Zaitoon, Y. M., Abu-Zaiton, A., Al Tawaha, A. R., **Alnaimat, S. M.**,... **(2022)**. Evidence from co-expression analysis for the involvement of amidase and INS in the tryptophan-independent pathway of IAA synthesis in Arabidopsis. Applied Biochemistry and Biotechnology, 194(10), 4673–4682. **(Q2)**

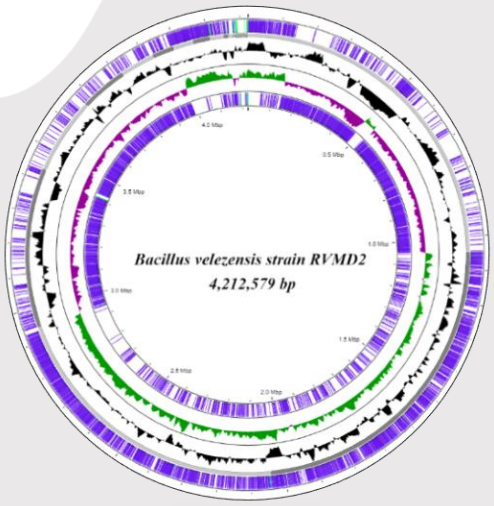
9. Ennis, N. J., Dharumadurai, D., Sevigny, J. L., Wilmot, R., **Alnaimat, S. M.**, Bryce, J. G., Thomas, W. K., & Tisa, L. S. **(2022)**. Draft genome sequences of 11 Geodermatophilaceae strains isolated from building stones from New England and ..... Journal of Genomics, 10, 69–77. **(PubMed)**

10. Alkubati, S. A., Saghir, S. A. M., Alhariri, A., Al-Areefi, M., Al-Sayaghi, K. M., Alsabri, M., **Alnaimat, S. M.**, & Albagawi, B. S. **(2022)**. Prevalence of antibiotic-resistant bacteria in intensive care units at Hodeida City, Yemen. Journal of Applied Pharmaceutical Science, 12(9), 139–145. **(Q2)**

11. Al-Karablieh, N., Al-Horani, F. A., **Alnaimat, S. M.**, & Abu Zarga, M. H. **(2022)**. Prevalence of *Vibrio coralliilyticus* in stony coral **Porites** sp. in the Gulf of Aqaba, Jordan. Letters in Applied Microbiology, 75(2), 460–469. **(Q3)**

12. Al-Awaida, W., Al Hourani, B. J., Swedan, S., Nimer, R., Alzoughool, F., Al-Ameer, H. J., ... **Alnaimat, S. M.**, ... & Hadi, N. R. **(2021)**. Correlates of SARS-CoV-2 variants on deaths, case incidence and case fatality ratio among the continents. Genes, 12(7), 1061. **(Q2)**

13. Saghir, S. A. M., Al-Gabri, N. A., Ali, A. A., Al-Attar, A.-S. R., Al-Sobarry, M., Al-Shargi, O. Y. A., **Alnaimat, S. M. (2021)**. Ameliorative effect of thymoquinone-loaded PLGA nanoparticles on chronic lung injury induced by lipopolysaccharide in rats. Oxidative Medicine and Cellular Longevity, 5511523. **(Q1)**



RESEARCH & TECHNICAL SKILLS

- **Whole-Genome Sequencing & Annotation**
  (e.g., *Genomic insights into Bacillus velezensis*, *Cellulosimicrobium funkei characterization*)
- **Comparative & Phylogenomic Analysis**
  (e.g., *Comparative genomic characterization*, *Taxonomic placement of microbial isolates*)
- **Microbial Isolation & Identification**
  (e.g., *Isolation of Bacillus sp. with antagonistic potential*, *Vibrio coralliilyticus in corals*)
- **Molecular Techniques (PCR, 16S rRNA, Metagenomics)**
  (e.g., *18S rRNA for Tadpole Shrimp identification*, *Metagenomic analysis in desert varnish*)
- **Bioinformatics & Computational Analysis**
  (e.g., *Antibacterial gene cluster profiling*, *Genome mining for secondary metabolites*)
- **Antibiotic Resistance & Antimicrobial Screening**
  (e.g., *Antibiotic-resistant bacteria in ICU*, *Mycelium inhibition of MRSA*)
- **Natural Product Evaluation (Apitherapy, Essential Oils)**
  (e.g., *Therapeutic use of honey and essential oils*, *Bergamot oil nano-emulsion*, *Artemisia herba-alba*)
- **Environmental & Desert Microbiology**
  (e.g., *Rock varnish microbiota*, *Desert-derived microbial diversity*)

PUBLICATIONS (2012-2019)

14. Abu-zaitoon, Y., Tawaha, A., **Alnaimat, S.**, Al-rawashdeh, I., Abu-zaiton, A., and Khalifat, A. (**2019**). Investigation of The Potential Role of Aldehyde Oxidase in Indole-3-acetic Acid Synthesis of Developing Rice Grains. Plant Cell Biotechnology and Molecular Biology, 20(1-2), 6–13.

15. **Alnaimat, S.**, Abu Shattal, S., Althunibat, O., Alsbou, E., and Amasha, R. (**2017**). Iron (II) and other Heavy-metal Tolerance in Bacteria Isolated from Rock Varnish in the Arid Region of Al-Jafer Basin, Jordan. Biodiversitas .18 (3): 1250-1257.

16. **Alnaimat, S.,** Aladaileh, S., Abu Shattal, S., Al-asoufi, A., Nassarat, H., and Abu-Zaitoon. Y. (**2017**). Isolation and Molecular Characterization of a Newly Isolated Strain of *Bacillus* sp. HMB8, with a distinct Antagonistic Potential against *Listeria monocytogenes* and some other Food Spoilage Pathogens. Jordan Journal of Biological Sciences. 10(2): 135-143.

17. **Alnaimat, S.,** Alharbi, N. S., Alharbi, S. A., Salmen, S. H., Chinnathambi, A., Al-Johny, B. O., & Wainwright, M. (**2015**). Mycelium of fungi isolated from mouldy foods inhibits *Staphylococcus aureus* including MRSA–A rationale for the re-introduction of mycotherapy? Saudi journal of biological sciences, 22(5), 600-603.

18. **Alnaimat, S.**, Wainwright, M., Jaber, S. and Amash, R. (**2015**). Mechanism of the Antibacterial Action of (*Leptospermum scoparium*) Oil on Methicillin-resistant *Staphylococcus aureus* (MRSA)and *E. coli.* Paper presented at The 2nd Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-2), Antalya- TURKEY. 22-25 April, 2015.

19. **Alnaimat, S.**, Wainwright, M., Aladaileh, SH. (**2013**). An initial *in vitro* investigation into the potential therapeutic use of *Lucilia sericata* maggot to control superficial fungal infections. Jordan Journal of Biological Sciences. 6:137-42.

20. **Alnaimat, S.,** Wainwright, M. and Al'Abri, K. (**2012**). Antibacterial potential of honey from different origins: a comparison with manuka honey. The Journal of Microbiology, Biotechnology and Food Sciences 1(5): 1328-1338.

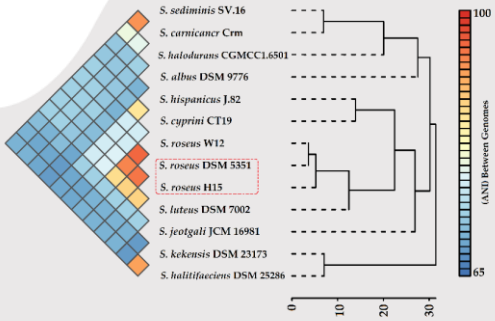
21. Alharbi, S. A., Mashat, B. H., Al-Harbi, N. A., Wainwright, M., Aloufi, A. S. and **Alnaimat, S.** (**2012**). Bismuth- inhibitory effects on bacteria and stimulation of fungal growth *in vitro*. Saudi Journal of Biological Sciences.19(2):147-150.

TEACHING PHILOSOPHY:

I am passionate about science communication and strive to make complex topics accessible to students by connecting them to real-world issues. I emphasize the stories behind each scientific term or concept and link them to the challenges faced by our communities. I am a strong advocate for evidence-based science and actively counter pseudoscience in the classroom. I aim to inspire students by introducing recent advances in the field, using current research papers as part of each course.

In addition to scientific knowledge, I teach students valuable skills such as presentation skills and poster creation, helping them effectively communicate their research findings. I also introduce them to the practical use of AI tools, guiding them on how to leverage technology effectively in their studies and research.

I believe in fostering an interactive, student-centered learning environment where students are encouraged to think critically and engage with course materials. My teaching approach combines theoretical knowledge with practical experiences, such as laboratory sessions and fieldwork, to enhance comprehension and application. I work to instill in my students the understanding that science and knowledge are key drivers of community development and solutions to pressing problems.



ACADEMIC REFEREES

1. Prof. Louis S. Tisa

- Professor of Microbiology & Genetics
- Department of Molecular, Cellular, and Biomedical Sciences
  University of New Hampshire
  46 College Rd, Durham, NH 03824, USA
- Email: Louis.Tisa@unh.edu
- Phone: +1 (603) 862-2442

2. Prof. Atef Ali Al-Kharabsheh

- Professor of Hydrology & Water Resources Department of Water Resources and Environmental Management
- President: Al-Hussein Bin Talal, University, P.O. Box 20, Ma'an 71111, Jordan
- Email: ahu@ahu.ahu.jo
- Phone: +962 797608000

3. Prof. Hani Al-Nawafleh

- Secretary General, Jordanian Nursing Council, Al Jahra St., Amman, Jordan
- Email:hnawafleh@hotmail.com
- Phone: 00962799500048

4. Prof. Osama Y. Althunibat

- Professor of Biomedical Sciences, Al-Hussein Bin Talal University, P.O. Box 20, Ma'an 71111, Jordan
- Email: Osama.y.althunibat@ahu.edu.jo
- Phone: +962 7 7069 2169

GRANTS AWARDED

1. **Whole Genome Sequencing-Based Taxonomic Classification of Putative Novel Bacterial Species**.
   - **Funding Source:** Deanship of Scientific Research, AHU – Fund Grant #05/2022
   - **Duration:** June 2022 – Present
   - **Role:** Principal Investigator (PI)
   - **Amount:** 12,000 JOD

2. **Taxonomy and Polyphasic Characterization of Actinomycetes from Rock Varnish, Al-Jafer Basin**.
   - **Funding Source:** Fulbright Visiting Scholar Program
   - **Duration:** September 2019 – May 2020
   - **Role:** Sole Principal Investigator
   - **Amount:** $44,000 USD

3. **Phylogenetic Diversity of Microbial Communities in Al-Jafer Basin Rock Varnish**
   - **Funding Source:** Deanship of Scientific Research, AHU – Fund Grant #18/2014
   - **Duration:** October 2014 – October 2018
   - **Role:** Principal Investigator (PI)
   - **Amount:** $32,000 USD

4. **Literacy Development for Grades 1–3 in Ayl District Schools**
   - **Funding Source:** UNDP – Ajyal Cultural Association, Jordan
   - **Year:** 2016
   - **Role:** Principal Investigator (PI)
   - **Amount:** $28,000 USD

WORKSHOPS & TRAINING COURSES

1. **IAEA Fellowship Program**
   Development of e-Learning Materials, Bangkok, Thailand
   Period: May – June 2019

2. **Erasmus Mundus PEACE I – Teaching Staff Exchange**
   Staffordshire University, UK
   Period: 13 May – 11 June 2016

3. **DIES ProGRANT – Proposal Writing for Research Grants**
   University of Cologne, Germany
   Period: March – September 2015

SOCIAL ACTIVITIES & MEMBERSHIPS

- Member, Community Health Committee – Ayl District (2025–Present)
- President, Ayl Charitable Society – Ma'an, Jordan (2021–Present)
- Member of the Administrative Board, Union of Charitable Societies – Ma'an City, Jordan (2025–2028)
- Member, Local Advisory Council – Ayl AL-Jadeah Municipality (2023–Present)
- Member, National Plan Subcommittee on Drug-Resistant Microbes (2022–Present)
- Member, Middle East Molecular Biology Sources (MEMBS) – Since 2016
- Member, Global Soil Biodiversity Initiative (GBSI) – Since 2015
- Member, Jordanian Society for Microbial Biodiversity – Since 2012
- Member, Royal Society of Chemistry – Since 2011