



Ayoub Abdulaziz Al Othaim, Ph.D.

Associate professor & Consultant
College of Applied Medical Sciences, Majmaah University, SA

SUMMARY

Associate Professor of Medical Laboratory Sciences with extensive expertise in human microbiome ecology. Research focuses on the complex interplay between dietary interventions, gut microbiota composition, and their collective influence on metabolic risk factors and the pathogenesis of digestive diseases. Committed to advancing clinical diagnostics and therapeutic strategies through a deeper understanding of host-microbe interactions.

CONTACT

-  +966164042954
-  ay.alothaim@mu.edu.sa
-  [LinkedIn](#)
-  [Website](#)
-  Majmaah, Riyadh, Saudi Arabia

EDUCATION

2021: Doctor of Philosophy, Cell and Molecular Biology, University of Arkansas, Fayetteville, AR, USA.

2014: Master of Health Science, Medical Laboratory Sciences, Quinnipiac University, Hamden, CT, USA.

2011: Bachelor's Degree, Medical Laboratories, Qassim University, Qassim, Saudi Arabia.

WORK EXPERIENCE

2025 - Present: Associate professor, College of Applied Medical Sciences, Majmaah University, Majmaah, Saudi Arabia

2021 - 2025: Assistant professor, College of Applied Medical Sciences, Majmaah University, Majmaah, Saudi Arabia

2011: Teaching Assistant, College of Applied Medical Sciences, Majmaah University, Majmaah, Saudi Arabia.

2010 - 2011: Teacher and adviser in Orphans Care Center, Qassim, Saudi Arabia.

LICENSES & CERTIFICATIONS

2024 - Present: Consultant, Laboratory - Microbiology, Saudi Commission for Health Specialties.

2022 - 2024: Senior Specialist, Laboratory - Molecular Microbiology, Saudi Commission for Health Specialties.

2010 - 2021: Specialist, Laboratory - Microbiology, Saudi Commission for Health Specialties.



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LEADERSHIP EXPERIENCE

2023-2026: Head of the Faculty Affairs Unit, Deanship of Graduate Studies and Scientific Research, College of Applied Medical Sciences, Majmaah University.

2023: Director of the Cardiopulmonary Resuscitation (CPR) Center, College of Applied Medical Sciences, Majmaah University.

2022: Head of the Scientific Affairs Unit, Deanship of Graduate Studies and Scientific Research, College of Applied Medical Sciences, Majmaah University.


2022: Secretary of the Medical Laboratory Department Council, College of Applied Medical Sciences, Majmaah University.

2021: Head of the Laboratories and Equipment Unit, Deanship of Academic Affairs, College of Applied Medical Sciences, Majmaah University.

2021: Head of the Hospitals and Clinics Affairs Unit, Deanship of Clinical Affairs, College of Applied Medical Sciences, Majmaah University.

2021: Head of the International Classification Committee, College of Applied Medical Sciences, Majmaah University.

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2014: Master of Health Science, Medical Laboratory Sciences, Quinnipiac University, Hamden, CT, USA.

2011: Bachelor's Degree, Medical Laboratories, Qassim University, Qassim, Saudi Arabia.

PRACTICAL TRAINING

2008: Internship at Buraydah Central Hospital, Qassim, Saudi Arabia.

2009: Internship in a health care center, Qassim, Saudi Arabia.

AWARDS & SCHOLARSHIP

2011: Scholarship from Majmaah University for Graduate Studies, Master's and Doctoral degrees.



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CONFERENCES & WORKSHOPS

- **Presentations:**

2020: The 4th International Symposium on Phytochemicals in Medicine and Food, Xi'an, China.

2018: The 2018 South Central Branch of the American Society for Microbiology Annual Meeting, Jackson, MS, USA.

2020: 4th International Symposium on Phytochemicals in Medicine & Food, Xi'an, China.

- **Attendance:**

2026: Majmaah University Stroke Conference, Majmaah, Kingdom of Saudi Arabia

2024: Majmaah University Stroke Conference, Majmaah, Kingdom of Saudi Arabia

2023: Cardiopulmonary Resuscitation (CPR) for Trainers, Saudi Heart Association, Jeddah, Kingdom of Saudi Arabia

2021: Experimental Biology (EB) Meeting, virtually, USA.

2020: Treatment of Infectious Disease and Immunocompromised Patients, Harvard medical school, USA.


2019: Academic Leadership, Academic leadership Center, Washington, DC, USA.

2013: Lymphoma & Myeloma 2013 an international congress on hematologic malignancies, New York, NY, USA.

2011: Quality and Academic Accreditation, Majmaah University, Majmaah, Saudi Arabia.

2010: Total Quality Management, Technical and Vocational Training Corporation, Qassim, Saudi Arabia.

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PUBLICATION

Othaim, A. A., Alasiri, G., & Alfahed, A. (2024). Therapeutic, clinicopathological, and molecular correlates of PRKACA expression in gastrointestinal cancers. *Pharmaceuticals*, 17(10), 1263.

<https://doi.org/10.3390/ph17101263>

Othaim, A. A., Aloyuni, S., Ismail, A., Veluchamy, A., Alshehri, B., Abdelhadi, A., Vijayakumar, R., & Manikandan, P. (2024). Metallo- β -lactamases producing *Pseudomonas aeruginosa* and the molecular mechanism of drug resistance variants. *Journal of King Saud University - Science*, 36(9), 103399.

<https://doi.org/10.1016/j.jksus.2024.103399>

Manikandan, P., Aloyuni, S., **Othaim, A. A.,** Ismail, A., Veluchamy, A., Alshehri, B., Abdelhadi, A., & Vijayakumar, R. (2024). Prevalence and antimicrobial mechanism of carbapenem-resistant *Klebsiella pneumoniae* and its molecular properties. *Journal of King Saud University - Science*, 36(8), 103284.

<https://doi.org/10.1016/j.jksus.2024.103284>

Chauhan, P., Pramodh, S., Hussain, A., ElSORI, D., Lakhanpal, S., Kumar, R., Alsaweed, M., Iqbal, D., Pandey, P., Othaim, A. A., & Khan, F. (2024).

Understanding the role of miRNAs in cervical cancer pathogenesis and therapeutic responses. *Frontiers in Cell and Developmental Biology*, 12.

<https://doi.org/10.3389/fcell.2024.1397945>

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PUBLICATION

Joseph, J. T., Shobana, C. S., Sekhar, D., Suresh, S., Poothenchery, S., Selvam, K. P., Aloyuni, S. A., **Othaim, A. A.**, Alshehri, B., Abdel-Hadi, A., Ismail, A., & Manikandan, P. (2024). Exploration of *Cladosporium uredinicola* GRDBF21 and *Bipolaris maydis* GRDBF23 in biodegradation of the organophosphorus pesticide chlorpyrifos. *Journal of King Saud University - Science*, 36(7), 103252. <https://doi.org/10.1016/j.jksus.2024.103252>

Nelson, V. K., Jha, N. K., Nuli, M. V., Gupta, S., Kanna, S., Gahtani, R. M., Hani, U., Singh, A. K., Abomughaid, M. M., Abomughayedh, A. M., Almutary, A. G., Iqbal, D., **Othaim, A. A.**, Begum, S. S., Ahmad, F., Mishra, P. C., Jha, S. K., & Ojha, S. (2024). Unveiling the impact of aging on BBB and Alzheimer's disease: Factors and therapeutic implications. *Ageing Research Reviews*, 98, 102224. <https://doi.org/10.1016/j.arr.2024.102224>

Almalki, S. G., Alsaweed, M., Albadrani, H. M., Alqurashi, Y. E., Bazuhair, M. A., Ahmed, H. H., Ahmad, P., Alfahed, A., **Othaim, A. A.**, & Iqbal, D. (2023). A molecular informatics and in-vitro approach to evaluate the HMG-CoA reductase inhibitory efficacy of monoterpenes, carvacrol and geraniol. *Journal of Taibah University for Science*, 18(1). <https://doi.org/10.1080/16583655.2023.2297456>

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Othaim, A. A., Al-Hawary, S. I. S., Alsaab, H. O., Almalki, S. G., Najm, M. a. A., HJazi, A., Alsalamy, A., Almulla, A. F., & Alizadeh, H. (2023). Common variants in toll-like receptor family genes and risk of gastric cancer: a systematic review and meta-analysis. *Frontiers in Genetics*, 14.

<https://doi.org/10.3389/fgene.2023.1280051>

Othaim, A. A. (2023). Probiotic Lactobacillus strains isolated from date waste and wastewater for the kidney stone, intestinal oxalate-degradation and antioxidant activity. *Journal of King Saud University - Science*, 35(8), 102888.

<https://doi.org/10.1016/j.jksus.2023.102888>

Sharahili, A. Y., Mir, S. A., ALDosari, S., Manzar, M. D., Alshehri, B., **Othaim, A. A.**, Alghofaili, F., Madkhali, Y., Albenasy, K. S., & Alotaibi, J. S. (2023). Correlation of HbA1c Level with Lipid Profile in Type 2 Diabetes Mellitus Patients Visiting a Primary Healthcare Center in Jeddah City, Saudi Arabia: A Retrospective Cross-Sectional Study. *Diseases*, 11(4), 154.

<https://doi.org/10.3390/diseases11040154>

Alfahed, A., Ebili, H. O., Almoammar, N. E., Alasiri, G., AlKhamees, O. A., Aldali, J. A., **Othaim, A. A.**, Hakami, Z. H., Abdulwahed, A. M., & Waggiallah, H. A. (2023).

Prognostic values of gene copy number alterations in prostate cancer. *Genes*, 14(5), 956.

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Mir, S. A., Madkhali, Y., Firoz, A., **Othaim, A. A.**, Alturaiki, W., Almalki, S. G., Algarni, A., & Alsagaby, S. A. (2023). Inhibitory Potential of the *Ocimum sanctum* Phytochemicals on Bruton's Tyrosine Kinase, a Well-Known Drug Target for Treatment of Chronic Lymphocytic Leukemia: An In Silico Investigation. *Molecules*, 28(8), 3287.

<https://doi.org/10.3390/molecules28083287>

Bano, N., Iqbal, D., **Othaim, A. A.**, Kamal, M., Albadrani, H. M., Algehainy, N. A., Alyenbaawi, H., Alghofaili, F., Amir, M., & Roohi, N. (2023). Antibacterial efficacy of synthesized silver nanoparticles of *Microbacterium proteolyticum* LA2(R) and *Streptomyces rochei* LA2(O) against biofilm forming meningitis causing microbes. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-30215-9>

Mythili, A., Shobana, C. S., Krizsán, K., Hassan, A. S., Sangeetha, A. B., Homa, M., Papp, T., Alharbi, R. A., **Othaim, A. A.**, Baazeem, A., Selvam, K. P., Kannaiyan, M., Vágvölgyi, C., Kredics, L., & Manikandan, P. (2022). Molecular identification, phylogeny and antifungal susceptibilities of dematiaceous fungi isolated from human keratomycosis. *Journal of Infection and Public Health*, 16(1), 25–33.

<https://doi.org/10.1016/j.jiph.2022.11.018>

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Manikandan, P., Al-Baradie, R., Abdelhadi, A., **Othaim, A. A.**, Vijayakumar, R., Ibrahim, R., Aldosari, S., Alhussain, A., Kannaiyan, M., Binsaleh, N. K., Binroshod, N., Veluchamy, A., & Al-Gahtany, K. A. (2022). Neuroprotective effect of endophytic fungal antioxidant polyphenols on cerebral ischemic stroke-induced Albino rats; memory impairments, brain damage, and upregulation of metabolic proteins. *Journal of King Saud University - Science*, 35(1), 102433.

<https://doi.org/10.1016/j.jksus.2022.102433>

Mir, S. A., Alaidarous, M., Alshehri, B., Dukhyil, A. a. B., Banawas, S., Madkhali, Y., Alsagaby, S. A., & **Othaim, A. A.** (2022). Immunoinformatics-Based identification of B and T cell epitopes in RNA-Dependent RNA polymerase of SARS-COV-2. *Vaccines*, 10(10), 1660.

<https://doi.org/10.3390/vaccines10101660>

Bhavaniramy, S., Sibiya, **Othaim, A. A. A. S.**, Othaim, A. A., Ramar, V., Veluchamy, A., Manikandan, P., & Vaseeharan, B. (2022). Evaluating the structural and immune mechanism of Interleukin-6 for the investigation of goat milk peptides as potential treatments for COVID-19. *Journal of King Saud University - Science*, 34(4), 101924.

<https://doi.org/10.1016/j.jksus.2022.101924>

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Othaim, A. A., Marasini, D., & Carbonero, F. (2021).
Impact of cranberry juice consumption on gut and
vaginal microbiota in postmenopausal women. *Food
Frontiers*, 2(3), 282–293.
<https://doi.org/10.1002/fft2.76>

Othaim, A. A., Marasini, D., & Carbonero, F. (2020).
Impact of increasing concentration of tart and sweet
cherries juices concentrates on healthy mice gut
microbiota. *Food Frontiers*, 1(3), 224–233.
<https://doi.org/10.1002/fft2.46>

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