



Mohammed Nasser Mohammed Ali

PERSONAL INFO

- Mohammed Nasser Mohammed Ali
- February 27, 1987
- Irbid, Jordan
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- Jordanian
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- <https://www.researchgate.net/profile/Mohammed-Ali-291>

LANGUAGES

- ✓ Arabic: Mother Tongue
- ✓ English: Excellent
- ✓ Spanish: Good

SKILLS

- ✓ Teamwork
- ✓ Work ethic
- ✓ Time management
- ✓ Problem-Solving
- ✓ Team Leadership
- ✓ Creativity
- ✓ Communication
- ✓ Adaptability
- ✓ Teaching
- ✓ Innovation
- ✓ Microsoft Office
- ✓ Critical Thinking
- ✓ Laboratory Techniques
- ✓ Data Analysis

PROFESSIONAL SUMMARY

Dedicated microbiologist with a strong background in research and higher education teaching. Experienced in designing and leading research projects, developing effective pedagogical approaches, and fostering engaging learning environments. Proficient in educational technologies, collaborative work, and academic communication. Committed to advancing the field of microbiology through impactful research and student-centered education.

EDUCATION

Ph.D. Degree in Cellular and Molecular Microbiology
Universidade da Coruña, Spain | 2019 – 2024.

M.Sc. Degree in Microbiology
Osmania University, India | 2015 – 2017.

B.Sc. Degree in Biology
Al-Hussein Bin Talal University, Jordan | 2005 – 2010.

WORK EXPERIENCE

RESEARCHER

Microbiology Service at the *Instituto de Investigación Biomédica de A Coruña* (INIBIC) and *Complejo Hospitalario Universitario de La Coruña* (CHUAC), for up to 20 months in A Coruña, Spain.
2020 – 2023

- **Research design:** Designed research studies and experiments to investigate microbial pathogens
- **Sample collection:** Collected and processed samples for microbiological analysis.
- **Laboratory experiments:** Performed various laboratory experiments and tests to support research.
- **Report writing:** Prepared detailed reports on research findings for internal and external stakeholders.
- **Data analysis:** Analyzed data and interpreted results for publication in scientific journals.
- **Collaborated with team:** Worked closely with a team of researchers to achieve project goals.
- **Presentation:** Presented research findings at conferences and scientific meetings.

BIOLOGICAL SCIENCES TEACHER

The Ministry of Education, Jordan.

2011 – 2015

- Classroom instruction: Delivered lectures and practical sessions to students on various biological topics.
- Student assessment: Evaluated student performance through exams, projects, and presentations.
- Mentoring: Provided guidance and mentorship to students on academic and personal matters.
- Extracurricular activities: Organized and supervised extracurricular activities to enhance student learning and engagement.

RESEARCH & LABORATORY SKILLS

- Advanced expertise in whole genome sequencing (WGS).
- Comprehensive knowledge of antimicrobial susceptibility testing (AST).
- Proficient in Polymerase Chain Reaction (PCR) techniques.
- Skilled in protein, DNA, and RNA extraction and purification methods.
- Experienced in bacterial isolation and identification from clinical and environmental samples.
- Expertise in preparing various microbiological reagents, media, and chemical solutions.
- Experienced in experimental design, protocol optimization, and method development.
- In-depth experience in antibiotic resistance research and related methodologies.
- Proficient in statistical analysis and data interpretation.
- Expanding expertise in bioinformatics, focusing on computational tools, algorithms, and machine learning for high-throughput genomic and metagenomic data analysis in microbiological research.

COURSES AND CERTIFICATIONS

Practicing Academic Work in Universities and University

Colleges | Accreditation and Quality Assurance Center, Yarmouk University | **2025.**

Skills Gained: This course covered teaching and learning strategies, modern teaching methods, educational technology, and open-source e-learning platforms.

International Computer Driving License (ICDL) | Advanced Quality Assurance Systems (AQAS) | 2013.

Skills Gained: Successfully completed all seven modules, including concepts of information and communication, using the computer and managing files, word processing, spreadsheets, databases, presentations, web browsing, and communication.

The Professional Development Program for Teachers | Ministry of Education in collaboration with the Education Reform Support Program (ERSP) | 2012-2013.

Skills Gained: Completed a comprehensive training program focused on enhancing teaching methodologies and classroom management.

CONFERENCES

- **ASEICA 40th Anniversary Congress**, A Coruña, Spain, 16 November 2023.
- **Frontiers in Microbial Biotechnology**, Osmania University, Telangana State, India, 22 - 23 February 2017,
- **Research in Life Science and its Social Relevance**, Osmania University, Telangana State, India, 30 January 2017.

LIST OF PUBLICATIONS

- **Nasser-Ali, M.**, Aja-Macaya, P., Conde-Pérez, K., Trigo-Tasende, N., Rumbo-Feal, S., Fernández-González, A., Bou, G., Poza, M., Vallejo, J.A., 2024. Emergence of Carbapenemase Genes in Gram-Negative Bacteria Isolated from the Wastewater Treatment Plant in A Coruña, Spain. *Antibiotics* (Basel) 13, 194. <https://doi.org/10.3390/antibiotics13020194>
- Conde-Pérez, K., Aja-Macaya, P., Buetas, E., Trigo-Tasende, N., **Nasser-Ali, M.**, Rumbo-Feal, S., Nión, P., Arribas, E.M.-D., Estévez, L.S., Otero-Alén, B., Noguera, J.F., Concha, Á., Pardiñas-López, S., Carda-Diéguez, M., Gómez-Randulfe, I., Martínez-Lago, N., Ladra, S., Aparicio, L.M.A., Bou, G., Mira, Á., Vallejo, J.A., Poza, M., 2024a. The multispecies microbial cluster of *Fusobacterium*, *Parvimonas*, *Bacteroides* and *Faecalibacterium* as a precision biomarker for colorectal cancer diagnosis. *Mol Oncol* 18, 1093–1122. <https://doi.org/10.1002/1878-0261.13604>
- Conde-Pérez, K., Buetas, E., Aja-Macaya, P., Martín-De Arribas, E., Iglesias-Corrás, I., Trigo-Tasende, N., **Nasser-Ali, M.**, Estévez, L.S., Rumbo-Feal, S., Otero-Alén, B., Noguera, J.F., Concha, Á., Pardiñas-López, S., Carda-Diéguez, M., Gómez-Randulfe, I., Martínez-Lago, N., Ladra, S., Aparicio, L.A., Bou, G., Mira, A., Vallejo, J.A., Poza, M., 2024b. *Parvimonas micra* can translocate from the subgingival sulcus of the human oral cavity to colorectal adenocarcinoma. *Mol Oncol* 18, 1143–1173. <https://doi.org/10.1002/1878-0261.13506>
- Lundy, L., Fatta-Kassinos, D., Slobodnik, J., Karaolia, P., Cirka, L., Kreuzinger, N., Castiglioni, S., Bijlsma, L., Dulio, V., Deviller, G., Lai, F.Y., Alygizakis, N., Barneo, M., Baz-Lomba, J.A., Béen, F., Cíchová, M., Conde-Pérez, K., Covaci, A., Donner, E., Ficek, A., Hassard, F., Hedström, A., Hernandez, F., Janská, V., Jellison, K., Hofman, J., Hill, K., Hong, P.-Y., Kasprzyk-Hordern, B., Kolarević, S., Krahulec, J., Lambropoulou, D., de Llanos, R., Mackuľak, T., Martínez-García, L., Martínez, F., Medema, G., Micsinai, A., Myrmel, M., **Nasser, M.**, Niederstätter, H., Nozal, L., Oberacher, H., Očenášková, V., Ogorzaly, L., Papadopoulos, D., Peinado, B., Pitkänen, T., Poza, M., Rumbo-Feal, S., Sánchez, M.B., Székely, A.J., Soltysova, A., Thomaidis, N.S., Vallejo, J., van Nuijs, A., Ware, V., Viklander, M., 2021. Making Waves: Collaboration in the time of SARS-CoV-2 - rapid development of an international co-operation and wastewater surveillance database to support public health decision-making. *Water Res* 199, 117167. <https://doi.org/10.1016/j.watres.2021.117167>

LIST OF PUBLICATIONS

- Trigo-Tasende, N., Vallejo, J.A., Rumbo-Feal, S., Conde-Pérez, K., **Nasser-Ali, M.**, Tarrío-Saavedra, J., Barbeito, I., Lamelo, F., Cao, R., Ladra, S., Bou, G., Poza, M., 2023a. Building-Scale Wastewater-Based Epidemiology for SARS-CoV-2 Surveillance at Nursing Homes in A Coruña, Spain. *Environments* 10, 189. <https://doi.org/10.3390/environments10110189>
- Trigo-Tasende, N., Vallejo, J.A., Rumbo-Feal, S., Conde-Pérez, K., Vaamonde, M., López-Oriona, Á., Barbeito, I., **Nasser-Ali, M.**, Reif, R., Rodiño-Janeiro, B.K., Fernández-Álvarez, E., Iglesias-Corrás, I., Freire, B., Tarrío-Saavedra, J., Tomás, L., Gallego-García, P., Posada, D., Bou, G., López-de-Ullibarri, I., Cao, R., Ladra, S., Poza, M., 2023b. Wastewater early warning system for SARS-CoV-2 outbreaks and variants in a Coruña, Spain. *Environ Sci Pollut Res Int* 30, 79315–79334. <https://doi.org/10.1007/s11356-023-27877-3>
- Vallejo, J., Rumbo-Feal, S., Conde, K., López-Oriona, Á., Tarrío, J., Reif, R., Ladra, S., Rodiño-Janeiro, B., **Nasser, M.**, Cid, A., Veiga, M., Acevedo, A., Lamora, C., Bou, G., Cao, R., Poza, M., 2020. Highly predictive regression model of active cases of COVID-19 in a population by screening wastewater viral load. <https://doi.org/10.21203/rs.3.rs-39911/v1>
- Vallejo, J.A., Trigo-Tasende, N., Rumbo-Feal, S., Conde-Pérez, K., López-Oriona, Á., Barbeito, I., Vaamonde, M., Tarrío-Saavedra, J., Reif, R., Ladra, S., Rodiño-Janeiro, B.K., **Nasser-Ali, M.**, Cid, Á., Veiga, M., Acevedo, A., Lamora, C., Bou, G., Cao, R., Poza, M., 2022. Modeling the number of people infected with SARS-COV-2 from wastewater viral load in Northwest Spain. *Sci Total Environ* 811, 152334. <https://doi.org/10.1016/j.scitotenv.2021.152334>