



CV of the Research Group Member (CO-IN)

Name	Nidal Mohammed Omar Zabermawi
University id	00012120
National / Igama Id	Saudi/ 1006656613
Researcher id	https://orcid.org/0000-0003-1216-7003 https://www.scopus.com/inward/authorDetails.url?authorID=57194944639&partnerID=MN8TOARS http://www.researcherid.com/rid/M-5743-2017
Academic Position	Assistant Professor
College/Center	Faculty of Sciences
Department	Biological Sciences
E-mail	nzabermawi@kau.edu.sa
Institution	King Abdulaziz University
Mobile	+966 505658458

GENERAL INFO

Address: Department of Biological Sciences, Faculty of Science, King Abdulaziz University, P. O. Box 80200, Jeddah 21589, Saudi Arabia.

Personal Data (Date and place of birth, family status):

Date of birth: 25\3\1976, Al Riyadh , Saudi Arabia

Family status: Married and have 5 children.

EDUCATION

- ❖ B.Sc. Microbiology, 1999, Department of Biological Sciences, Faculty of Science, King AbdulAziz University, Jeddah, Kingdom of Saudi Arabia.
- ❖ M.Sc. Microbiology (Microbial Fermentation) 2006, , Department of Biological Sciences, Faculty of Science, King AbdulAziz University, Jeddah, Kingdom of Saudi Arabia.

Thesis title: "Using Food Industrial Waste to Produce Anti-Biotic"



- ❖ Ph.D. Applied Microbiology & Biotechnology, 2014, Department of Biological Sciences, Faculty of Science, King AbdulAziz University, Jeddah, Kingdom of Saudi Arabia.

Thesis title: "Bioremediation of the Recalcitrant Atrazine - Contaminated Soil Using Some Bacterial Strains"

- ❖ Diploma of professional development in teaching and learning, 2019-1440, Center of Teaching & Learning Development, King Abdul Aziz University / Saudi Arabia

PRESENT POSITIONS

Assistant Professor of Applied microbiology & Biotechnology , Department of Biological Sciences, Faculty of Science, King AbdulAziz University, Jeddah, Kingdom of Saudi Arabia.

PREVIOUS POST

2009-2014 Lecturer of Microbiology, Department of Biological Sciences, Faculty of Science, King AbdulAziz University, Jeddah, Kingdom of Saudi Arabia.

ADMINISTRATIVE POST

- ❖ (1437- Currently) Head of Microbiology Program , Department of Biological Sciences, Faculty of Science, female section (Sulaymaniyah branch) King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia.
- ❖ Member of postgraduate committee unit, Department of Biological sciences Faculty of Science King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia. (1440-1443)
- ❖ Member of Accreditation committee, Department of Biological sciences Faculty of Science King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia. (1440-144)
- ❖ Member in committee (Studying candidates files) , Department of Biological sciences Faculty of Science King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia.(1440-1442)
- ❖ Member of the Research and Innovative Unit, Faculty of Science King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia. (1436-1439)
- ❖ Member of the Scientific Research Unit, Faculty of Science King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia. (1434-1435)



- ❖ Member in courses portfolio committee, Faculty of Science King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia. (1434-1435)

MEMBERSHIPS

Currently-(November,2016) Society of Microbiology.

EXPERIENCES

- 1) Bioremediation of wastewater (biological treatment of wastewater.
- 2) Microbial fermentation-power generator - bioactive compound-antibiotics.
- 3) Environmental impact of industrial and municipal wastewater on receiving water.
- 4) Manipulation of microorganisms (bacteria) in the biocontrol of different toxic environmental pollutants either in water or soil.
- 5) Environmental impact of pesticide and Herbicides in soil and on receiving water.
- 6) Bioremediation of pesticide-Contaminated Soil
- 7) Isolation and identification of environmental microorganisms (bacteria -Actinomycetes) using traditional & modern classification techniques.
 - X-Ray Diffraction
 - Confocal Microscopy
 - Scanning Electron Microscopy (SEM)
 - High Performance liquid Chromatography(HPLC)
 - Gas chromatography

TEACHING ACTIVITIES

Special and Elective Courses for the Under and Postgraduate Students at department of Biological Sciences, Faculty of Science, King Abdulaziz University, Saudi Arabia

- Bio130 General Microbiology-Home Economics Faculty
- Bio200 lab Safety
- Bio231 Genral Microbiology
- Bio331 Bacteriology
- Bio334 Principle of Microbial Taxonomy
- Bio371 Applied Microbiology



- Bio390 Field Training
- Bio437 Microbial pollution
- Bio639 Special topics in Microbiology (1)
- Bio640 Special topics in Microbiology (2)
- Bio695 Seminar
- Bio726 Advance Bacteriology

MAIN RESEARCH OR TECHNOLOGY TOPICS

- ❖ Studying and monitoring of environmental pollutants either organic (pesticides; crude oils.....etc.) or inorganic (e.g. heavy metals...etc) in aquatic environments and contaminated soils.
- ❖ Removal of such pollutants using indigenous and /or exogenous microorganisms in free-living or fixed treatment systems.
- ❖ Microbial fermentation-power generator - bioactive compound-antibiotics

SUPERVISION ON POSTGRDUATES

- M.SC (Main) Thesis title:
 - 1) Biological Treatment of Heavy Metals from industrial Polluted Effluen Using Some Cyanobacterial Species isolated from Red Sea -Jeddah
 - 2) Bioremediation of Industrial Phenol ContaminatedWastewater Using Bacterial Biofilters
 - 3) Biological Treatment of Fruit Juice Wastewater and Power Production using Microbial Fuel Cells (MFC)
 - 4) Molecular characrization of some microorganisms contaminating some dried fruits
 - 5) Bioremediations of crude oil-contaminated effluents using bacterial biofilters
 - 6) M.SC(Co.supervised) Thesis title:
Removal of some heavy metals from industrial wastewater by actinomycetes isolated from soil
- M.SC VIVA Thesis title:
Biodegradation of Petroleum Residues Present in Waste Water Stations in Jeddah

PUBLICATIONS AND JOURNALS



- 1) Zabermawi N. O, Bakran F. M, Jastaniah S. D, Noor S. O, Aly M. M. Biosorption of Chromium Ions by *Streptomyces Mutabilis* Isolated from Industrial Wastewater Treatment Plant. *Biosc.Biotech.Res.Comm.* 2021;14(2).
- 2) Najjar A.A, Alharbi D.S, Bohkari F.M, Bafeel S.O, El-Zohri M.H, Shafi M.E, Zabermawi N.M.et al. Potential of Endophytic Fungi to Reduce Calotropis Procera Leaves Toxicity in Jeddah, Saudi Arabia. *Pharmacophore.* 2021;12(2):71-78.<https://doi.org/>
- 3) Najjar A, Hassan EA, Zabermawi N, Saber SH, Bajrai LH, Almuhayawi MS, Abujamel TS, Almasaudi SB, Azhar LE, Moulay M, Harakeh S. Optimizing the catalytic activities of methanol and thermotolerant *Kocuria flava* lipases for biodiesel production from cooking oil wastes. *Sci Rep.* 2021 Jul 1;11(1):13659. doi: 10.1038/s41598-021-93023-z. PMID: 34211018; PMCID: PMC8249636.
- 4) Mohamed T. El-Saadony, Nidal M. Zabermawi, Nehal M. Zabermawi, Maryam A. Burollus, Manal E. Shafi, Mahmoud Alagawany, Nahed Yehia, Ahmed M. Askar, Sara A. Alsafy, Ahmed E. Noreldin, Asmaa F. Khafaga, Kuldeep Dhama, Shaaban S. Elnesr, Hamada A. M. Elwan, Alessandro Di Cerbo, Khaled A. El-Tarabily & Mohamed E. Abd El-Hack (2021) Nutritional Aspects and Health Benefits of Bioactive Plant Compounds against Infectious Diseases: A Review, *Food Reviews International*, DOI: [10.1080/87559129.2021.1944183](https://doi.org/10.1080/87559129.2021.1944183)
- 5) Mohamed T. El-Saadony, Ahmed M. Saad, Taha F. Taha, Azhar A. Najjar, Nidal M. Zabermawi, Maha M. Nader, Synan F. AbuQamar, Khaled A. El-Tarabily, Ali Salama, Selenium nanoparticles from *Lactobacillus paracasei* HM1 capable of antagonizing animal pathogenic fungi as a new source from human breast milk, *Saudi Journal of Biological Sciences*, 2021, ISSN 1319562X, <https://doi.org/10.1016/j.sjbs.2021.07.059>. (<https://www.sciencedirect.com/science/article/pii/S1319562X21006422>)
- 6) Ebtihal A. Motwali, Magda M. Aly, Huda A Qari, Reda H Amasha and Nidal M. Zabermawi (2021) Effect of Growth Conditions on Biosurfactant Production by *Pseudomonas balearica* Isolated From Oil Contaminated Sea Waters from Jeddah Saudi Arabia *Biosc.Biotech.res.Comm.* Vol 14 No (1) Jan-feb-march 2021 Pp
- 7) Mohamed E. Abd El-Hack , Mohamed T. El-Saadony , Manalh E. Shafi c , Nidal M. Zabermawi d , Muhammad Arif e , Gabera Elsaber Batiha f , g , Asmaa F.b Khafaga , Yasmina M. Abd El-Hakim i , Adham A. Al-Sagheer j . (2020) Antimicrobial and antioxidant properties of chitosan and its derivatives and their applications: A review *International Journal of Biological Macromolecules* V 164(Pages 2726-2744)ISSN 0141-8130, (<https://www.sciencedirect.com/science/article/pii/S0141813020342446>)



- 8) Al-Ghamdi M, Zabermawi NM, Albureikan MO, Alamshany Z and Aly MM(2020) In-vitro Evaluation of the Antimicrobial Activities of Chitosan and Chitosan-PVP Linked Nanocomposite Films against Some Multidrug Resistant Bacteria. *Prensa Med Argent*, S2:019.
- 9) Samah O. Noor., Azhar A. Najjar, Sharifah M. Alshehri, Nidal M. Zabermawi, Mohamed Morsi M.

Ahmed Assessment of the Level of Bacterial Contamination of Some Public Swimming Pools in Jeddah City. *Advances in Environmental Biology*, 14(1): 1-6. DOI:10.22587/aeb.2020.14.1.1
- 10) Alwabli, Afaf & Alattas, Sana & Alhebshi, Alawiah & Zabermawi, Nidal & Alkenani, Naser & Al-ghmady, Khalid & Qadri, Ishtiaq. (2019). Molecular docking analysis of netropsin and novobiocin with the viral protein targets HABD, MTD and RCD. *Bioinformation*. 15. 233-239. 10.6026/97320630015233
- 11) Alwabli AS, Alattas SG, Alhebshi AM, Zabermawi NM, Kaneez F, Azhar EI, Alkenani N, Al-ghmady K, Qadri I. Pharmacological Modulation of Flavivirus Methyltransferase Activity of Dengue Virus (DEV). *Indian J of Pharmaceutical Education and Research*. 2019;53(3 Suppl 2):s432-s436.
- 12) Afaf S. Alwabli, Alattas, Sana & Alhebshi, Alawiah & Zabermawi, Nidal & Fatima Kaneez ,Alkenani, Naser & Al-ghmady, Khalid & Qadri, Ishtiaq. (2019).Methyltransferase Activity of Dengue RNA Virus by Using Purified Protein. *Int Journal Drug Dev & Res* 11: 16-20
- 13) Afaf S. Alwabli, Alattas, Sana & Alhebshi, Alawiah & Zabermawi, Nidal ,Alkenani, Naser , Al-ghmady, Khalid & Qadri, Ishtiaq. (2019). Gene Expression Profiling Unravels Functions related with Pathogenesis of Dengue Infection. *Proceedings of Research World International Conference*, Pune, India, 24 th -25 th February 2019
- 14) Fatima M. Bakran , Magda M. Aly & NIDAL M. ZABERMAWI " Removal of Some Heavy Metals from Industrial Wastewater by Actinomycetes Isolated From Contaminated Soil." *IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)* 14.5 (2019): 58-69.