

**Curriculum Vitae of**  
**Walid Al-Zyoud, PhD**

[walid.alzyoud@gju.edu.jo](mailto:walid.alzyoud@gju.edu.jo)

**Personal Information**

**Name:** WALID ADNAN M. AL-ZYOUND  
**School:** School of Applied Medical Sciences  
**Department:** Biomedical Engineering  
**Major:** Medical Sciences  
**Specialty:** Pathology/Medical Sciences  
**University:** German Jordanian University



**Academic Qualifications**

Degree	Major	Date	Institution/Country
Ph.D.	Pathology/Medical Sciences	2015	The University of New South Wales/School of Medicine (Australia)
MSc.	Biotechnology	2009	Yarmouk University (Jordan)
BSc.	Biotechnology & Genetic Engineering	2003	Jordan University of Science & Technology (Jordan)

**Title of M.Sc.**

**Thesis:**

Generation and Characterization of Glu 29 Arg Mutant Drosophila Dihydrofolate Reductase and Analysis of Methotrexate Resistance

**Title of Ph.D.**

**Dissertation:**

Mechanism of DNA Binding of an Unusual Bacterial Transcription Regulator.

**Experience**

*List of academic ranks awarded:*

Rank	Date Awarded	Awarding Institution	Country	Duration in Rank
Associate Professor	16/02/2020	German Jordanian University	Jordan	2020- present
Assistant Professor	14/2/2016	German Jordanian University	Jordan	2016-2020

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List of industrial experience:

Job Title	Employer	Country	Dates From	To
Medical Biotechnologist	Central Laboratories Directorate-Jordan Ministry of Health	Jordan	1/10/2004	1/6/2006
Medical representative	IPSEN/ Petra Drug Store	Jordan	1/7/2006	1/9/2008
Product Manager	(Arcomex) Company for medical diagnostics manufacturing.	Jordan	1/9/2008	1/8/2010
Medical Technologist	King Hussein Cancer Centre (KHCC) CAP-Accredited	Jordan	8/2010	8/2011

List of awards, honors, and fellowships awarded:

Title	Awarding Institution/Agency	Date
One-year fellowship Award	University of California San Diego & JUST- USA	1/10/2018
Paper of the month	Hult Prize-USA	1/12/2017
Conference Travel Award	The University of New South Wales/Australia	2015
Patent# JO P 2020 171	The University of New South Wales/Australia	2014
Viral RNA Extraction Kit (JOCOV-19) for COVID-19	Jordan Ministry of Industry & Trading	2020

**Teaching**

List of all courses taught:

Course No.	Course Title
BE459	Biotechnology and Bioprocess Engineering
BM211	Anatomy and Physiology
BM213	Anatomy and Physiology Lab
BM227	Bioorganic Chemistry for BM
BM229	Bioorganic Chemistry Lab for BM
PCE282	Microbiology Lab
VISR799 C	Master Thesis
BM331	Biomaterials
BM333	Biomaterials Lab
BM334	Principle of Tissue Engineering
PCE5333	Hazardous Waste and Risk Management

Substantial student projects supervised and/or co-supervised:

Project Title	Funding Agency	Awards
Design and implementation of a Bioreactor	GJU	Publication
Gut Microbial community of phenylketonuria patients pilot study on Jordan children	GJU	Publication
Oral microbial community in the mouth of smokers	GJU	
Mucus study during ventilation and anesthesia	GJU	
Troubleshooting and introduction to industry 4.0	GJU	
Prevalence of color blindness in Jordan	GJU	

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Anti-bacterial and anti-fungal activity of the medicinal plants `Haloxylon scoparium` and `Traganum nudatum` and the algae `Ulva lactuca` . GJU

Dissolving of plastic bags made of polyethylene GJU

Develeopment of xenograft polycaprolactone composite scaffolds for bone tissue GJU

Production of Biodiesel from the green marine macroalgae Ulva lactuca. GJU

Cleaning Validation of Siemens Healthcare CT Tables GJU

**Masters theses and Ph.D. dissertations supervised or co-supervised:**

Thesis/Dissertation Title	Student Name	Degree	Date
The impact of locally designed magnifying reading glasses on reading speed in children with low vision. (full supervision)	Duaa Yousef Al-Yousef	MSc	5/2018

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**Research**

*List of selected published journal papers:*

Paper Title	Authors	Journal	Citation (vol., pp.)
Binding of transcription factor GabR to DNA requires recognition of DNA shape at a location distinct from its cognate binding site	Walid A. Al-Zyoud, Robert MG. Hynson, Lorraine A. Ganuelas, Adelle CF. Coster, Anthony P. Duff, Matthew AB. Baker, Alastair G. Stewart, Eleni Giannoulatou, Joshua WK. Ho, Katharina Gaus, Dali Liu, Lawrence K. Lee, and Till Bocking	Nucleic Acids Research	2016 Vol. 44, No. 3 1411-1420
Mutational Sensitivity of D614G in spike protein of SARS-CoV-2 in Jordan	Walid Al-Zyoud & Hazem Haddad	Biochemistry and Biophysics Reports	Accepted on 22-12-2020 (In press)
miRNA target prediction might explain the reduced transmission of SARS-CoV-2 in Jordan, Middle East	Hazem Haddad & Walid Al-Zyoud	Non-coding RNA research	Volume 5, Issue 3, September 2020, Pages 135-143
Salivary Microbiome and Cigarette Smoking: <i>A First of its Kind Investigation in Jordan</i>	Walid Al-Zyoud, Rima Hajjo, Ahmed Abu-Siniyeh & Sarah Hajjaj	Int. J. Environ. Res. Public Health	Int. J. Environ. Res. Public Health 2020, 17(1), 256
Culturable gut bacteria lack Escherichia coli in children with phenylketonuria	W.Al-Zyoud, A.Nasereddin, H.Aljarajrah & M.Saket	New Microbes and New Infections	Volume 32, November 2019, 100616
Histological and functional renal alterations caused by synanceia verrucosa venom in mice	Mohammad Wahsha, Haya Al-Tarawneh, Maroof Khalaf, Tariq Al-Najjar, & Walid Al-Zyoud <sup>4</sup>	Fresenius Environmental Bulletin	Volume 28 - No. 7/2019 pages 5294-5300
Utilizing Upper Arm Images in Determining Body Mass Index and Nutritional Status	Sami F. Al-Mashaqbah, Walid Al-Zyoud & Awad Al-Zaben	Engineering, Technology & Applied Science Research	Vol. 9, No. 4, 2019, 4392-4396

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Effects of toxic elements on leaf morphology of halophila stipulacea grow in mine dump sediments in southeast Jordan	Mohammad Wahsha, Eman Al-Absi, Claudio Bini, Anmar Bani Yassen, Walid Al-Zyoud, & Raid Al-Jawasreh.	EQA - Environmental quality / Qualité de l'Environnement / Qualità ambientale	21 (2016) 33-40
Stability Study of Etoricoxib a Selective Cyclooxygenase-2 Inhibitor by a New Single and Rapid Reversed Phase HPLC Method	Muhammad Alzweiri, Mariam Sallam, Walid Al-Zyoud , & Khaled Aiedeh	Symmetry	Symmetry 2018, 10(7), 288
Perceptions of Chemical Safety in Laboratories	Walid Al-Zyoud , Alshaimaa M. Qunies, Ayana U. C. Walters & Nigel K. Jalsa	Safety	2019, 5, 21; doi:10.3390/safety5020021

*List of published conference papers:*

Paper Title	Authors	Conference	Place	Date	Citation (vol., pp.)
Streamline development of propellant-free topical pharmaceutical foam: Efficient quality by design strategy of a potential sunscreen foam	Esraa Albarahmieh, Razan Al Ziadat, Munib Saket, Mohammad Khanfar, Walid Al-Zyoud	Proceedings of the 1st International Congress on Engineering Technologies: EngiTek 2020, 16-18 June 2020, Irbid, Jordan	Jordan	6/2020	Page 167 CRC Press
Bioreactor for Biopharmaceutical Production: Simple Controlled Environment Design	Walid Al-Zyoud, Rayan Bater, Talal Awad, Omar Yasin & Awad Al-Zabenz	2018 IEEE 4th Middle East Conference on Biomedical Engineering (MECBME)	Tunisia	2/2018	IEEE Proceedings 2018
Frequency Detection Of Hand Tremors Using Customized Accelerometer	Akeel Al-Kazwini, Ahmad Halilah, Aeshah Hendi, Ibrahim Al-Saeed, Abdullah Al-Azamat, Walid Al-Zyoud	2021 IEEE National Biomedical Engineering Conference (NBEC)	Malaysia	11/2021	IEEE Proceedings 112-116

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*List of other publications (books, book chapters, reports, design projects, etc):*

Publication Title	Authors	Publisher	Citation (vol., pp.)
Conflict of Interest in Research at Universities: A pioneer investigation in Jordan	Walid Al-Zyoud, Sara Mansour, Feryal Elayan, Noor Homs, Hane Ajeilat & Rana Dajani	EPH - International Journal of Educational Research	Volume-3   Issue-9   Sept, 2019

*List of grants and funded research projects:*

Project Title	Funding Agency	Amount of Fund	Dates From	To
Human Oral Microbiota Study in Tobacco and Hookah Young Jordanian Smokers as Dentists Prediction Indicator to Oral Diseases or Cancer	GJU	29,692 JOD	31/3/2016	1/10/2019
Monitoring of coral fish parasites and diseases, an effective tool for coastal environmental health assessment	Scientific Research Fund (SRF)	29,100 JOD	15/11/2017	15/11/2019
Genomics studies to design coronavirus vaccine design for Jordanian population	GJU	67,000 JOD	30/08/2020	---

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**Administrative Service at GJU**

*List of administrative positions hold at GJU:*

Position Title	Major Achievements	Dates	
		From	To
Head of Biomedical Engineering Department	Study plan major revisions for national accreditation	9/1/2017	9/1/2018
Head of Biomedical Engineering Department & Vice Dean	Full Jordanian academic accreditation. Biomedical Engineering students of GJU got the first rank in the governmental examination for graduates quality	9/1/2018	9/1/2019
Head of Biomedical Engineering Department & Vice Dean	Starting preparation for establishing a MSc program in biomedical & health informatics	9/1/2019	22/9/2020
Acting Dean	Academic German Accreditation file preparation Approved newly founded MSc program in Pharmaceutical & Chemical Engineering	22/09/2020	22/09/2021

*List of committees served (ie. department, school, university, conference committees, etc):*

Committee	Duties	Dates	
		From	To
Department council	Managing the education process in the department	1/9/2017	---
School council	Managing the education process in the school	1/9/2018	---
University safety committee	Assuring the complete fulfilment of the safety requirements at GJU	30\08\2020	---
University Corona committee	Managing the pandemic response of GJU to COVID-19	30\08\2020	---

**Community Service**

*Information on non-academic activities performed at GJU (industry relations and links, clubs, training courses, etc):*

Activity	School	Dates	
		From	To
Certified Quality Consultant ISO 9001-2015	SAMS	11/9/2017	3/8/2018
BME students club counsellor	SAMS	1/11/2019	present

*Information on activities directed to the Jordanian community performed (training courses, membership of editorial boards, etc):*

Activity	Served Party	Dates	
		From	To
E-Health Awareness	E-Health Association- Jordan	1/10/2018	present
Academic Consultant	Nassak Academy (Aesthetics)	1/04/2022	present