

# Dhurgham Al-Fahad, PhD

## Assistant Professor

College of Science, University of Thi-Qar, Iraq

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## Education

### PhD in Cancer Cell Signalling

University of Reading, UK

2014 - 2017

Thesis: *Regulation of Focal Adhesions by PtdIns (4, 5) P2 and PtdIns (3, 4, 5) P3 in Cancer Cell Migration*

Supervisor: Prof. Phil Dash

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## Academic Appointments

- **Assistant Professor**  
College of Science, University of Thi-Qar, Iraq  
2020 – Present
  - **Head of the Department of Pharmaceutical Sciences**  
University of Thi-Qar, Iraq  
2019 – 2023
  - **Head of the Department of Pathological Analysis**  
University of Alyen  
2018 - 2019
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## Research Interests

- Cancer cell biology
  - Cell signaling pathways, focusing on protein kinases and their role in cancer progression
  - Identification and characterization of natural and synthetic compounds for cancer drug development
  - Elucidation of molecular mechanisms by which natural compounds regulate cancer-associated genes and pathways
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# Teaching Experience

## Courses Taught:

- Molecular Pharmacology
  - Cancer Pharmacology
  - Pharmaceutical Biotechnology
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## Publications

1. **Heterologous prime–boost strategies for COVID-19 vaccines**  
B Sapkota, B Saud, R Shrestha, D Al-Fahad, R Sah, S Shrestha, ...  
*Journal of Travel Medicine* 29 (3), taab191  
Cited by: 105, Year: 2022
2. **RhD blood type significantly influences susceptibility to contract COVID-19 among a study population in Iraq**  
KR Majeed, D Al-Fahad, HH Jalood, HA Hantosh, MK Ali, S Sakthivel, ...  
*F1000Research* 10 (38), 38  
Cited by: 19, Year: 2021
3. **Roles of endocytic processes and early endosomes on focal adhesion dynamics in MDA-MB-231 Cells**  
BF Alharbi, D Al-Fahad, PR Dash  
*Reports of Biochemistry & Molecular Biology* 10 (2), 145  
Cited by: 12, Year: 2021
4. **Virtual screening and molecular dynamics simulation of natural compounds as potential inhibitors of serine/threonine kinase 16 for anticancer drug discovery**  
D Al-Fahad, G Ropón-Palacios, DA Omoboyowa, G Singh, RB Patil  
*Molecular Diversity* 29 (2), 1525-1539  
Cited by: 11, Year: 2025
5. **Identification of potential inhibitors of HER2 targeting breast cancer—a structure-based drug design approach**  
G Singh, D Al-Fahad, MK Al-Zrkani, TK Chaudhuri, H Soni, S Tandon, ...  
*Journal of Biomolecular Structure and Dynamics* 42 (15), 8184-8201  
Cited by: 11, Year: 2024
6. **PtdIns (4, 5) P2 and PtdIns (3, 4, 5) P3 dynamics during focal adhesions assembly and disassembly in a cancer cell line**  
D Al-Fahad, S Alharethi, K MAWLOOD, P DASH  
*Turkish Journal of Biology* 44 (6), 381-392  
Cited by: 11, Year: 2020
7. **Investigating potential cancer therapeutics: insight into histone deacetylases (HDACs) inhibitions**  
B Ahmad, A Saeed, A Al-Amery, I Celik, I Ahmed, M Yaseen, IA Khan, ...  
*Pharmaceuticals* 17 (4), 444  
Cited by: 6, Year: 2024
8. **Nitric oxide may regulate focal adhesion turnover and cell migration in MDA-MB-231 breast cancer cells by modulating early endosome trafficking**  
D Al-Fahad, BF Alharbi, CI Bih, PR Dash

*Medical Journal of Cell Biology* 9 (2), 60-72

Cited by: 6, Year: 2021

9. **Elucidating novel antibacterial compounds from the NPASS database against the FimH lectin domain for the treatment of urinary tract infections: an in-silico study**

MK Al-Zrkani, RA Abdulkareem, D Al-Fahad, M Al Shouber, AMS Nasr, ...

*Journal of Biomolecular Structure and Dynamics* 41 (9), 3914-3925

Cited by: 5, Year: 2023

10. **A comparative study to visualize PtdIns (4, 5) P2 and PtdIns (3, 4, 5) P3 in MDA-MB-231 breast cancer cell line**

D Al-Fahad, B Al-Harbi, Y Abbas, F Al-Yaseen

*Reports of Biochemistry & Molecular Biology* 10 (4), 518

Cited by: 5, Year: 2022

11. **The possible role of PtdIns (4, 5) P2 and PtdIns (3, 4, 5) P3 at the leading and trailing edges of the breast cancer cell line**

D Al-Fahad

*Iberoamerican Journal of Medicine* 3 (1), 26-32

Cited by: 5, Year: 2021

12. **Blood types and their relationship with COVID-19 among a study population in Iraq**

D Al-Fahad, S Vaiyapuri

*University of Reading*

Cited by: 5, Year: 2020

13. **An in-silico approach to target multiple proteins involved in anti-microbial resistance using natural compounds produced by wild mushrooms**

G Singh, MA Hossain, D Al-Fahad, V Gupta, S Tandon, H Soni, ...

*Biochemistry and Biophysics Reports* 40, 101854

Cited by: 4, Year: 2024

14. **Regulation of focal adhesion dynamics and cell migration by PLC/PI3K-mediated metabolism of PtdIns (4, 5) P2 in a breast cancer cell line**

D Al-Fahad, F Alyaseen, A Al-Amery, CI Bin

*Reports of Biochemistry & Molecular Biology* 11 (2), 270

Cited by: 3, Year: 2022

15. **Identification of potent bioactive compounds from Terminalia chebula (Retz.) targeting multiple receptors of SARS-CoV-2 through in silico approach: king of Ayurveda against ...**

KS Naik, MD Sahithya, CS Kumar, D Al-Fahad, M Srinath

*Eur J Pharm Med Res* 8 (12), 209-217

Cited by: 3, Year: 2021

16. **Regulation of focal adhesions by PtdIns (4, 5) P2 and PtdIns (3, 4, 5) P3 in cancer cell migration**

D Al-Fahad

*University of Reading*

Cited by: 3, Year: 2018

17. **Surveillance of Antimicrobial Resistance in Iraq: A Comprehensive Data Collection Approach**

DK Al-Fahad, JA Alpofead, MA Chawsheen, AA Al-Naqshbandi, AT Abas

*ARO - The Scientific Journal of Koya University* 12 (2), 179-193

Cited by: 2, Year: 2024

18. **The role of Akt/Rab5A signalling in regulating cell migration of MDA-MB-231 breast cancer cell line**  
M Chayan, D Al-Fahad, M Al-Bedhawi  
*Archives of Razi Institute* 78 (1), 427  
Cited by: 2, Year: 2023
19. **The cytokines responses against Parvovirus B19 in miscarriage women and the susceptibility of their RhD blood type to contract Parvovirus B19 in South of Iraq**  
D Al-Fahad, K Majeed, A Al-Naqshbandi, A Al-Amery, BF Alharbi  
*Reports of Biochemistry & Molecular Biology* 10 (3), 462  
Cited by: 2, Year: 2021
20. **Chroman-Schiff base derivatives as potential Anti-Tubercular Agents: In silico studies, Synthesis, and Biological evaluation**  
S Mujeeb, K Singh, MK Al-Zrkani, D Al-Fahad, SM Hasan, M Al Shouber, ...  
*Bioorganic Chemistry* 157, 108249  
Cited by: 1, Year: 2025
21. **Evaluation of the role of MAP4K4 in focal adhesion dynamics and regulation of cell migration of breast cancer cell line MDA-MB-231**  
D Al-Fahad, M Al-Bedhawi, H Ateya  
*Archives of Razi Institute* 78 (1), 261  
Cited by: 1, Year: 2023
22. **Presence of CRISPR CAS-Like Sequences as a Proposed Mechanism for Horizontal Genetic Exchanges between *Trichomonas vaginalis* and Its Associated Virus: A Comparative Genomic ...**  
A Kenarkoohi, A Abdoli, A Rostamzad, M Rashnavadi, R Naserifar, J Abdi, ...  
*BioMed Research International* 2023 (1), 8069559  
Cited by: 1, Year: 2023
23. **Kinetic Changes of PtdIns (3, 4, 5) P3 within Fast and Slow Turnover Rates of Focal Adhesion**  
D Al-Fahad, F Alyaseen, A Al-Amery, G Singh, M Srinath, HM Rehman, ...  
*Reports of Biochemistry & Molecular Biology* 11 (2), 262  
Cited by: 1, Year: 2022
24. **Cloning and force expression of TMEM121 protein couldn't increase the proliferation activity of human breast cancer cell line MDA**  
MAA Al-Bedhawi, DK Al-Fahad, KR Mawlood  
*Biochemical & Cellular Archives* 20 (2)  
Cited by: 1, Year: 2020
25. **Antioxidant Potential of *Curculigo pilosa* Rhizome Extracts in Hydrogen Peroxide Induced Oxidation In Vivo**