

# RESUME

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**NAME:** MALEK ZIHLIF

**DATE OF BIRTH:** 15 NOV 1977

**NATIONALITY:** JORDANIAN

**ADDRESS:** 52 B TABARIA STREET  
JABAL AL-HUSSEIN

**TEL:** MOB: 0796356766  
HOM: 06-5664956

**EMAIL:** m.zihlif@ju.edu.jo

## TERIATARY EDUCATION

2002 - 2006      **DOCTOR OF PHILOSOPHY OF MOLECULAR  
PHARMACOLOGY (PhD)**  
Department of Pharmacology and Physiology  
School of Medical Science  
Faculty of Medicine  
University of New South Wales

2001 - 2002      **M.S.c IN BIOPHARMACEUTICAL**  
School of biotechnology and bimolecular science  
Faculty of life Science  
University of New South Wales  
Sydney, Australia

1995 - 2000      **B.S.c IN PHARMACEUTICAL SCIENCE**  
Faculty of Pharmacy  
University of Jordan  
Amman, Jordan

## **OTHER QUALIFICATIONS / MEMBERSHIPS**

Nov 2003      **MEMBER OF AUSBIOTECH**  
Australia's Biotechnology Organisation

March 2003      **RADDIATION SAFETY CERTIFICATE**  
Risk Management Unit  
University of New South Wales

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Sydney, Australia

Jan 2004

**BIOLOGICAL SAFETY AND INFECTION CONTROL  
CERTIFICATE**

Risk Management Unit  
University of New South Wales  
Sydney, Australia

**RESEARCH EXPERIENCE**

1. PhD project: Effect of topoisomerase II poisons and transcription template inhibitors on global gene expression in human malignant cells.
2. Master degree project: Bisintercalating threading cytotoxins: Evidence for Bifunctional reaction amongst 9-aminoacridine-4-carboxamide dimers with piperidine sidechain using covalently closed circular DNA and agarose gel electrophoresis.

**WORK EXPERIENCE**

Sep 2013

**Associated professor of pharmacology**

Department Pharmacology  
Faculty of Medicine  
University of Jordan  
Amman, Jordan

Feb 2009- Sep 2013

**Assistant professor of pharmacology**

Department Pharmacology  
Faculty of Medicine  
University of Jordan  
Amman, Jordan

Sep 2008 – Jan 2009

**Assistant professor of pharmacology**

Faculty of Pharmacy  
Applied Sciences University  
Amman, Jordan

Aug 2007- Current

**Research fellow**

School of Pharmacy  
University of science

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Penang, Malaysia

Jan 2007- 2008

**Assistant professor of pharmacology**

Department Pharmacy  
Faculty of Pharmacy  
AL-Zytoonah University  
Amman, Jordan

March 2003- Aug2005

**Teaching assistant**

School of Medical Science  
Faculty of Medicine  
University of New South Wales

### **Current grants:**

Investigate the effect of salvia species implanted in Jordan on the expression of Vascular endothelial growth factor and Hypoxia-Inducible Factor-1 $\alpha$  genes.

Investigating the association between the a disintegrin and metalloproteinase 33 gene (ADAM33) and asthma in selected Jordanian population.

Gene Expression Alterations in Chronic Hypoxic MCF7 Breast Cancer Cell Line.

The three axes of breast cancer cell invasion: androgen receptor-integrins-proteases.

### **PUBLICATIONS**

He Z, Bu X, Eleftheriou A, **Zihlif M**, Qing Z, Stewart BW, Wakelin LP. DNA threading bis(9-aminoacridine-4-carboxamides): effects of piperidine sidechains on DNA binding, cytotoxicity and cell cycle arrest. *Bioorganic & Medicinal Chemistry* 2008 Apr 15;16(8):4390-400.

**Zihlif M**, Catchpoole DR, Stewart BW, Wakelin LP. Effects of DNA threading bis(9-aminoacridine-4-carboxamides) on global gene expression. *Cancer Genomics Proteomics* 2009 Nov-Dec;6(6):317-23.

**Zihlif M**, Catchpoole DR, Stewart BW, Wakelin LP. Effects of DNA minor groove binding agents on global gene expression. *Cancer Genomics Proteomics*. 2010 Nov-Dec;7(6):323-30.

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**Zihlif M**, Beano H, Barouqa M, Shwaiki S, Naffa R. Some insights into the cellular responses against doxorubicin and actinomycin D. *Jordan Medical Journal*.2011, 45(4): 323-330.

Mustafa MS, El-Abadelah MM, **Zihlif MA**, Naffa RG, Mubarak MS.Synthesis, and antitumor activity of some N1-(coumarin-7-yl) amidrazones and related congeners. *Molecules*. 2012 16(5), 4305-431

Awad ED, El-Abadelah MM, Matar S, **Zihlif MA**, Naffa RG, Al-Momani EQ, Mubarak MS. Synthesis and Biological Activity of Some 3-(4-(Substituted)-piperazin-1-yl)cinnolines. *Molecules*. 2011 Dec 28;17(1):227-39.

**Zihlif M**, Afifi F, Muhtaseb R, Al-Khatib S, Abaza I, Naffa R. Screening the Antiangiogenic Activity of Medicinal Plants Grown and Sold in Jordan. 2012 Feb;78(3):297-30.

Marwa N. Abu-Aisheh , Mohammad S. Mustafa , Mustafa M. El-Abadelah , Randa G. Naffa , Said I. Ismail , **Malek A. Zihlif**, Mutasem O. Taha, Mohammad S. Mubarak. Synthesis and biological activity assays of some new N1-(flavon-7-yl) amidrazone derivatives and related congeners. *European Journal of Medicinal Chemistry*. 2012 Aug;54:65-74.

**Zihlif M**, Mahmoud I , Ghanem M, Zreikat M , Alrabadi N, Imraish A, Odeh A, Abbas M, Ismail S. Thymoquinone efficiently inhibits the survival of EBV infected B cells and alters EBV gene expression. *Integrative Cancer Therapies*. 2012 Oct 21. (ahead of print)

**Zihlif M**, Imraish A, Irshaid Y. Frequency of single nucleotide polymorphisms and duplication of CYP2D6 in the Jordanian population. *Genetic Testing and Molecular Biomarkers*. 2012 Oct;16(10):1201-5

S. AbuHammad and **Zihlif M**. Gene expression alterations in doxorubicin resistant MCF7 breast cancer cell line. *Genomics*. *Genomics* 101 (2013) 213 – 220

Abbas MA, Taha MO, **Zihlif MA**, Disi AM. . $\beta$ -Caryophyllene causes regression of endometrial implants in a rat model of endometriosis without affecting fertility. *Eur J Pharmacol*. 2013 Jan 23;702(1-3):12-19.

**Zihlif M**, Mahafza T, Obeidat NM, Froukh T, Shaban M, Al-Akhras FM, Zihlif N, Naffa R.Frequency of genetic polymorphisms of ADAM33 and their association with allergic rhinitis among Jordanians. *Gene*. 2013 Sep 10.

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**Zihlif M**, Afifi F, Abu-Dahab R, Abdul Majid AM, Somrain H, Saleh MM, Nassar ZD, Naffa R. The antiangiogenic activities of ethanolic crude extracts of four salvia species. BMC Complement Altern Med. 2013 Dec 13;13(1):358

H Zalloum, R Tayyem, Y Bustanji, **M Zihlif**, M Mohammad, TA Rjai, Discovery of new human epidermal growth factor receptor-2 (HER2) inhibitors for potential use as anticancer agents via ligand-based pharmacophore modeling. Journal of Molecular Graphics and Modelling, 2015, 61, 61-84.

EA Sharieh, AS Awidi, M Ahram, **MA Zihlif**. Alteration of gene expression in MDA-MB-453 breast cancer cell line in response to continuous exposure to Trastuzumab. Gene in press

H Feda'H, **MA Zihlif**. Gene expression alterations in chronic hypoxic MCF7 breast cancer cell line. Genomics 2014, 104 (6), 477-481

**M Zihlif**, N Zihlif, NM Obeidat, T Mahafza, T Froukh, MT Ghanim, Association etween ADAM33 Polymorphisms and Susceptibility with Adult and Childhood Asthma Among Jordanians. Genetic testing and molecular biomarkers 2015,18 (11), 767-774

AY Habashneh, MM El - Abadelah, **MA Zihlif**, A Imraish, MO Taha. Synthesis and Antitumor Activities of Some New N1 - (Flavon - 6 - yl) amidrazone Derivatives Archiv der Pharmazie , 2014, 347 (6), 415-422

MM Abadleh, MM El-Abadelah, SS Sabri, HH Mohammed, **MA Zihlif**, Synthesis and Antitumor Activity of Some N2-(Thien-3-yl) amidrazones Zeitschrift für Naturforschung B , 2014, 69 (7), 811-816.

**Malek Zihlif**, Nathir M. Obeidat Nadwa Zihlif, Tareq Mahafza, Tawfiq Froukh, Marcel T Ghanim, Hamza beano, Fatima M AL-Akhras, Randa Naffa Association between Gasdermin A and Gasdermin B polymorphisms and susceptibility to adult and childhood asthma amongst Jordanians. Genetic testing and molecular biomarkers in press.

Haider N. Sultani<sup>1</sup>, Rasha A. ghazal<sup>1</sup>, Alaa M. Hayallah<sup>2</sup>, Loay K. Abdulrahman<sup>1</sup>, Khaled Abu-Hammour<sup>1</sup>, Shatha AbuHammad<sup>4</sup>, Mutasem O. Taha<sup>3</sup>, **Malek A. Zihlif<sup>4</sup>** **INHIBITORY EFFECTS OF NEW 1,3-DIETHYL-8-MERCAPTO XANTHINE DERIVATIVES IN HUMAN MCF7 AND K562 CANCER CELL LINES.** Journal of Heterocyclic Chemistry in press

Al-zagameem, MM El-Abadelah, **MA Zihlif**, RG Naffa, ML Al-Smadi. Synthesis and Bioassay of Novel Substituted Pyrano [2, 3-f] cinnoline-2-ones AS Journal of Heterocyclic Chemistry 2015 in press

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## **CONFRENCES AND PRESENTATION**

Effects of Bisintercalating DNA Threading Agents on Global Gene Expression  
Presented at the 16th EORTC, NCI, AACR Symposium on Molecular Targets and Cancer Therapeutics. Geneva, Switzerland, Sep, 2004.

Effects of Bisintercalating DNA Threading Agents on Global Gene Expression.  
Presented at the Australian Health and Medical Research Congress (AHMRC), second congress. Sydney, Australia, Nov, 2004.

Biosurfactant Derived from Palm Olein - Characterisation by MALDI-TOF-MS and implications.  
Presented at School of Biotechnology and Biomolecular Sciences Annual Conference, University of New South Wales, Sydney, Australia, xxx 2002 (co-other).

Participated in the Second International Clinical Pharmacy Conference, Opportunities and Challenges, Amman, Jordan, April 1999.

Effect of topoisomerase II poisons and transcription template inhibitors on global gene expression in human malignant cells.  
Presented at the Oncology Research Unit meeting, Children's hospital at westmead, Sydney, Australia, March, 2005.

DNA intercalating Agents as Transcription Template Poisons  
Presented at the Oncology Research Unit meeting, Prince of Wales hospital, Sydney, Australia, March, 2005.

Transcription template poisons.  
Presented at the Cancer drug development laboratory meeting, School of Medical science, University of New South Wales, Sydney, Australia, Dec, 2003.

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## **EXTRACULLUCULAR**

- Excellent computer user. My knowledge extend to include the following computer packages:

MS-WORD, MS-EXCEL, MS-POWER POINT, Internet explorer.

- My hobbies vary to include soccer, volleyball, swimming.
- Professional user of the visual aids, such as overhead projectors, power point presentations.

## **ACADEMIC REFEREES**

Dr Laurence Wakelin  
Associate Professor  
School of Medical Science  
Faculty of Medicine  
University of New South Wales  
[l.wakelin@unsw.aedu.au](mailto:l.wakelin@unsw.aedu.au)  
(02) 9385-2563

Dr. Stephen Mahler  
Senior Lecturer  
School of biotechnology and  
bimolecular science  
Faculty of science  
University of New South Wales  
[s.mahler@unsw.edu.au](mailto:s.mahler@unsw.edu.au)  
(02) 9385-3899