

## CURRICULUM VITAE

### PERSONAL DATA

<b>Name</b>	Mohammed Musa Yahya Alzahrani
<b>Nationality</b>	SAUDI
<b>Position</b>	Associate Professor, Department of biology , faculty of Science
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### EDUCATION

Year	Academic Degree	Institution
2017	<i>Doctor of Philosophy in Science - Cell biology, heredity and tissue .</i>	<i>Department of Zoology – College of Science - King Saud University</i>
2007	<i>Master of Science in Cell Biology, Genetics and Tissue</i>	<i>Department of Zoology – College of Science - King Saud University</i>
1998	<i>Bachelor of Biology .</i>	<i>Faculty of Education - Department of Biology King Faisal University</i>

### WORK EXPERIENCE

Period	Position	Address
1439- 1443	Assistant Professor <i>Cell Biology, Genetics and Tissue</i>	IMSIU University, College of Science, Department of biology ,Riyadh
1443- until now	Associate Professor <i>Cell Biology, Genetics and Tissue</i>	IMSIU University, College of Science, Department of biology, Riyadh
1442- until now	Vice Dean of the College of Science for Educational Affairs.	IMSIU University, College of Science
1434-1439	Teacher	the Administration of Education in Riyadh.
1419-1434	Teacher	the General Administration of Education in the Eastern Region

2003/2004	Assistant Supervisor in the General Administration of Education in the Eastern Region	Administration of Education in the Eastern Region
2010-2014	Teacher	the Kingdom of Bahrain for four years.
2010-2014	Educational trainer	in the Kingdom of Bahrain for one year during my work there

## RESEARCH INTERESTS

Studying the effect of plant extracts, chemical and nanocompounds on cancer cells, studying gene expression, and identifying Apoptosis pathways

## PUBLICATIONS

- Nael Abutah, Fahd A. Nasr, Mohammed Al-zharani, et al.** Effects of Hexane Root Extract of *Ferula hermonis* Boiss. on Human Breast and Colon Cancer Cells: An In Vitro and In Vivo Study **BioMed Research International 2019, 12**
- Mohammed Al-Zharani , Fahd A. Nasr , Nael Abutaha , Ali S. Alqahtani ,Omar M. Noman , Mohammed Mubarak and Muhammad A. Wadaan.** Apoptotic Induction and Anti-Migratory Effects of *Rhazya Stricta* Fruit Extracts on a Human BreastCancer Cell Line. **Molecules 2019, 24, 3968; doi:10.3390/molecules24213968**
- Ramzi A. Mothana 1, Fahd A. Nasr, Jamal M. Khaled, Mohammed Al-zharani.** Analysis of Chemical Composition and Assessment of Cytotoxic, Antimicrobial, and Antioxidant Activities of the Essential Oil of *Meriandra dianthera* Growing in Saudi Arabia. **Molecules 24 (1420-3049), 13**
- Mikhlid Almutairi Abdullah Mohammad Alhadeq Rafa Almeer Mohammed Almutairi Mohammed Alzahrani Abdelhabib Semlali.** Effect of the thymine-DNA glycosylase rs4135050 variant on Saudi smoker population. **Mol Genet Genomic Med, e590.**
- Nael Abutaha, Fahd A. Nasr, Al-Zahrani Mohammed, AbdelHabib Semlali.** *Calendula arvensis* L. as an anti-cancer agent against breast cancer cell lines **Molecular Biology Reports 46 (2), 2187-2196**
- Fahd A. Nasr, Nael Abutaha, Mohammad Al-Zahrani, Muhammad Farooq.** Anticancer potential of plant extracts from Riyadh (Saudi Arabia) on mda- mb-231 breast cancer cells. **Afr J Tradit Complement Altern Med, 15 (4): 46-53**
- Nael, ALZahrani Mohammed, AL-Mekhlafi Fahd, ALT Jameel, M Ashraf.** Acute and Subacute Toxicity of Ethyl Acetate Fraction of *Cochliobolus spicifer* (Nelson) isolated from *Phoenix dactylifera* (Linnaeus) on Balb/c Mice. **Research Journal of Biotechnology Vol 12, 4**

8. **ALZahrani Mohammed, Nael Abutaha, Nasr Fahd, D Hafedh.** Evaluation of Medicinal Plant Extracts against LOVO and MDA-MB-231 Adenocarcinoma Cell Lines **Research Journal of Biotechnology Vol 12, 1**
9. **Mohammad M. Hailat and Ramadan Al-Shdefat Muqtader Mohammed\*, Mansour S. Alnafisah, Md. Khalid Anwer\*, Farhat Fatima, Bjad K. Almutairy, Saad M. Alshahrani, Abdullah S. Alshetaili, Ahmed Alalaiwe, Mohamed H. Fayed, Ahmad Z. Alanazi, Mohammed Al Zahrani .** Chitosan surface modified PLGA nanoparticles loaded with brigatinib for the treatment of non-small cell lung cancer . **Journal of Polymer Engineering - De Gruyter 39 (10), 8**
10. **Mohamed Habib Oueslati , Nael Abutaha , Faraj Al-Ghamdi , Imededdine Arbi Nehdi , Fahd A. Nasr , Lamjed Mansour , Mohammed AL-Zharani , Abdel Halim Harrath.** Analysis of the chemical composition and in vitro cytotoxic activities of the essential oil of the aerial parts of *Lavandula atriplicifolia* Benth. **Journal of King Saud University – Science , 32 (2020) 1476–1481**
11. **Nael Abutaha, Mohammed Al-zharani, Amin A. Al-Doaiss, Almohannad Baabbad, Ahmed Mfreh Al-malki, and Hafedh Dekhil .** Anticancer, antioxidant, and acute toxicity studies of a Saudi polyherbal formulation, PHF5 . **Open Chemistry 2020; 18: 1–10.**
12. **Mohamed M. Abdel-Daim & Fatma I. Abo El-Ela & Fatima K. Alshahrani & May Bin-Jumah & Mohammed Al-Zharani & Bader Almutairi & Mohamed S. Alyousif & Simona Bungau & Lotfi Aleya & Saad Alkahtani.** Protective effects of thymoquinone against acrylamide-induced liver, kidney and brain oxidative damage in rats. **Environmental Science and Pollution Research**
13. **Ali Alamer & Daoud Ali & Saud Alarifi & Abdullah Alkahtane & Mohammed AL-Zharani & Mohamed M. Abdel-Daim & Gadah Albasher & Rafa Almeer & Nouf K. Al-Sultan & Abdulaziz Almalik & Ali H Alhasan & Christos Stournaras & Saquib Hasnain & Saad Alkahtani.** Bismuth oxide nanoparticles induce oxidative stress and apoptosis in human breast cancer cells. **Environmental Science and Pollution Research**
14. **Mohammed Al-zharani & Ashraf Ahmed Qurtam & Walid Mohamed Daoush & Mohamed Hassan Eisa & Nada Hamad Aljarba & Saad Alkahtani & Fahd A. Nasr.** Antitumor effect of copper nanoparticles on human breast and colon malignancies. **Environmental Science and Pollution Research**
15. **Ahmed M. Shuikan, Wael N. Hozzein, Mohammed M. Alzharani, Maram N. Sandouka, Sulaiman A. Al Yousef, Sulaiman A. Alharbi and Eman Damra.** Enhancement and Identification of Microbial Secondary Metabolites. Approximate number of identified natural metabolites.
16. **Mohammad Tabish & Aisha Khatoon & Saad Alkahtani & Abdullah Alkahtane & Jawahir Alghamdi & Syed Anees Ahmed & Snober S Mir & Gadah Albasher & Rafa Almeer & Nouf K. Al-Sultan & Nada H. Aljarba & Wedad Saeed Al-Qahtani & Mohammed AL-Zharani & Amit Kumar Nayak & Md Saquib Hasnain.** Approaches for prevention and environmental management of novel COVID-19. **Environmental Science and Pollution Research.**
17. **Amal Amagnouje , Hamza Mechchate , Imane Es-safi , Amal A. Alotaibi , Omar M. Noman , Fahd A. Nasr , Mohammed Al-zharani , Pierfrancesco Cerruti , Anna Calarco , Hinde EL Fatemi , Andriy Grafov and Dalila Boust. Anxiolytic, Antidepressant-Like Properties and Impact on the Memory of the Hydro-Ethanollic Extract of *Origanum majorana* L. on Mice.**  
**Applied Sciences.**

18. Hamza Mechchate , Imane Es-safi , Amal Amaghnoije , Smahane Boukhira , Amal A. Alotaibi , Mohammed Al-zharani, Fahd A. Nasr , Omar M. Noman , Raffaele Conte, El Hamsas El Youbi Amal ,Hicham Bekkari and Dalila BoustaAntioxidant, Anti-Inflammatory and Antidiabetic Proprieties of LC-MS/MS Identified Polyphenols from Coriander Seeds.
19. Mohammed Al-Zharani. The effect of acetyl-cysteine and carnitine on post-thaw sperm characteristics of the sand gazelle (*Gazella subgutturosa marica*).
20. Nael M. Abutaha , Muhammad F. Farooq , Mohammed AL-Zharani , Amal Alotaibi , Mary Anne W. Cordero , Asmatanzeem Bepari , Saud Alarifi. Cytotoxic activity and toxicity study of HF8, a poly-herbal formulation.
21. Ibrahim O. Barnawi, Fahd A. Nasr, Omar M. Noman, Ali S. Alqahtani, Mohammed Al-zharani, Amal A. Alotaibi, Haytham M. Daradka, Abdullah A. Al-Mishari, Waleed A Alobaid, Abdulaziz Alqahtani, Rasheed N. Herqash. Induction of apoptosis and cell cycle arrest by chloroform fraction of *Juniperus phoenicea* and chemical constituents analysis.
22. Mohammed Al-Zharani \*, Fahd A. Nasr , Ali S. Alqahtani , Mary Anne W. Cordero , Amal A. Alotaibi \*, Asmatanzeem Bepari , Saud Alarifi , Ali Daoud , Ibrahim O. Barnawi and Haytham M. Daradka. In Vitro Cytotoxic Evaluation and Apoptotic Effects of *Datura innoxia* Grown in Saudi Arabia and Phytochemical Analysis.
23. Omar M. Noman\*, Fahd A. Nasr\*, Ali S. Alqahtani, Mohammed Al-zharani, Mary Anne W. Cordero, Amal A. Alotaibi, Asmatanzeem Bepari, Saud Alarifi, Ali Daoud. Comparative study of antioxidant and anticancer activities and HPTLC quantification of rutin in white radish (*Raphanus sativus* L.) leaves and root extracts grown in Saudi Arabia.
24. Sultan A. M. Saghir, Naif A. Al-Gabri , Abdelmoniem A. Ali,3 Al-Sayed R. Al-Attar, Mosa'd Al-Sobarry, Omar Y. A. Al-shargi, Amal Alotaibi, Mohammed Al-zharani, Fahd A. Nasr , Nader Al-Balagi, Mahfoudh A. M. Abdulghani, Sulaiman M. Alnaimat, Osama Y. Althunibat , and Ayman M. Mahmoud. Ameliorative Effect of Thymoquinone-Loaded PLGA Nanoparticles on Chronic Lung Injury Induced by Repetitive Intratracheal Instillation of Lipopolysaccharide in Rats.
25. Saad Alkahtani , Saud Alarifi, Gadah Albasher, Mohammed Al-Zharani, Nada H. Aljarba, Mohammed H. Almarzoug,1 Norah M. Alhoshani, Norah S. AL-Johani, Hani Alotheid , and Abdullah A. Alkahtane. Poly Lactic-Co-Glycolic Acid- (PLGA-) Loaded Nanoformulation of Cisplatin as a Therapeutic Approach for Breast Cancers.
26. Mohamed Bouhrim , Hayat Ouassou , Salima Boutahiri , Nour Elhouda Daoudi , Hamza Mechchate ,\* , Bernard Gressier , Bruno Eto , Hamada Imtara , Amal A. Alotaibi , Mohammed Al-zharani , Abderrahim Ziyat , Hassane Mekhfi , Abdelkhaleq Legssyer , Mohammed Aziz and Mohamed Bnouham. *Opuntia dillenii* (Ker Gawl.) Haw., Seeds Oil Antidiabetic Potential Using In Vivo, In Vitro, In Situ, and Ex Vivo Approaches to Reveal Its Underlying Mechanism of Action.
27. Saad Alkahtani , Saud Alarifi , Abdullah A. Alkahtane a, Gadah Albasher , Mohammed AL-Zharani , Norah M. Alhoshani a, Norah S. AL-Johani , Nada H. Aljarba , Md Saquib Hasnain. Pyrroloquinoline quinone alleviates oxidative damage induced by high glucose in HepG2 cells.
28. Ahmed Almalki & Nael Abutaha & Amin A. Al-Doaiss & Al-Zahrani Mohammed & Muhammad A. Wadaan. Cytotoxicity, in vivo toxicity, and chemical composition of the hexane extract of *Plectranthus amboinicus* (Lour.) Spreng

29. Mohammed Waleed Arafah , Bader Almutairi , Mohammed Al-Zharani , Abdullah A. Alkahtane , Fatimah O. Al-Otibi , Daoud Ali , Wadha M. Alghamdi , Ibtesam S. Alanazi , Nada H. Aljarba , Norah M. Alhoshani , Norah S. AL-Johani , Nora Alkeraishan , Alhanof Alhenaky , Saud Alarifi , Saad Alkahtani. The protective effect of Ammi visnaga extract against human hepatic cancer.
30. Faisal K. Algethami, Mohamed R. Elamin, Babiker Y. Abdulkhair, Mohammed Al-Zharani, Nagib A. S. Qarah, and Mashael A. Alghamdi. Fast fabrication of bismuth oxyiodide/carbon-nanofibers composites for efficient anti-proliferation of liver and breast cancer cells.
31. Ashraf Ahmed Qurtam ,†, Hamza Mechchate ,†, Imane Es-safi ,\*, Mohammed Al-zharani , Fahd A. Nasr , Omar M. Noman , Mohammed Aleissa , Hamada Imtara , Abdulmalik M. Aleissa , Mohamed Bouhrim and Ali S. Alqahtani. Citrus Flavanone Narirutin, In Vitro and In Silico Mechanistic Antidiabetic Potential.
32. Mohammed Al-Zharani , Mohammed S. Al-Eissa 1, Hassan A. Rudayni , Daoud Ali , Saud Alarifi , Radhakrishnan Surendrakumar and Akbar Idhayadhulla. Larvicidal Activity of Geranylacetone Derivatives against Culex quinquefasciatus Larvae and Investigation of Environmental Toxicity and Non-Target Aquatic Species.
33. Fahd A Nasr , Ali S Alqahtani, Amal A Alotaibi , Omar M Noman , Mohammed Al-zharani , Mary Anne W Cordero , Asmatanzeem Bepari , Saud Alarifi , Daoud Ali, Wajhul Qamar. Assessment Of Anti-Proliferative And Apoptotic Activities Of Centaurothamnus maximus And Gc-MS Analysis Of Bioactive Fraction.
34. Mohammed Al-Zharani , Mohammed S. Al-Eissa , Hassan A. Rudayni , Daoud ali, Saad Alkahtani, Radhakrishnan Surendrakumar, and Akbar Idhayadhulla. Pyrazolo[3,4-b]pyridin-3(2H)-one Derivatives: Synthesis and their Investigation of Mosquito Larvicidal Activity.
35. Mohammed Al-Zharani, Mohammed S. Al-Eissa, Hassan A. Rudayni, Daoudali, Saud Alarifi, Radhakrishnan Surendrakumar, Akbar Idhayadhulla. Mosquito larvicidal activity of pyrrolidine-2,4-dione derivatives: An investigation against Culex quinquefasciatus and molecular docking studies.
36. Khadija El Ouahdani , Imane Es-safi ,\*, Hamza Mechchate , Mohammed Al-zahrani , Ashraf Ahmed Qurtam , Mohammed Aleissa , Amina Bari and Dalila Bousta. Khadija El Ouahdani , Imane Es-safi ,\*, Hamza Mechchate , Mohammed Al-zahrani , Ashraf Ahmed Qurtam , Mohammed Aleissa , Amina Bari and Dalila Bousta.
37. Fatima zahrae Radi , Mohamed Bouhrim , Hamza Mechchate , Mohammed Al-zahrani , Ashraf Ahmed Qurtam , Abdulmalik M. Aleissa , Aziz Drioiche , Nadia Handaq and Touriya Zair. Phytochemical Analysis, Antimicrobial and Antioxidant Properties of Thymus zygis L. and Thymus willdenowii Boiss. Essential Oils.
38. Hemangi Ranade , Priya Paliwal , Anis Ahmad Chaudhary , Sakshi Piplani , Hassan Ahmed Rudayni , Mohammed Al-Zharani , Ravi Ranjan Niraj and Manali Datta. Predicting Diagnostic Potential of Cathepsin in Epithelial Ovarian Cancer: A Design Validated by Computational, Biophysical and Electrochemical Data.
39. Rashid Waseem , Anas Shamsi , Taj Mohammad , Md. Imtaiyaz Hassan , Syed Naqui Kazim , Anis Ahmad Chaudhary , Hassan Ahmed Rudayni , Mohammed Al-Zharani , Faizan Ahmad and Asimul Islam. FNDC5/Irisin: Physiology and Pathophysiology.

40. V. Kumara, S. S. Lakhawat , S. Kumar , A. A. Chaudharyc , H. A. Rudayni , M. Al-Zahrani, U. K. Gilhotrad. Rapid biogenic fabrication of silver nanoparticles using Ziziphus nummularia under optimised conditions and evaluation of their antimicrobial synergy.
41. Norah S. AL-Johani , Mohammed Al-Zharani , Bader Almutairi , Nada H. Aljarba , Norah M. Alhoshani , Nora Alkeraishan , Saud Alarifi , Daoud Ali , Saad Alkahtani. Protective effect of coenzyme-10 and piperine against cyclophosphamide-induced cytotoxicity in human cancer HuH-7 cells.
42. Hamzah A. Alghamdi , Mohammed Al-Zharani , Nada H. Aljarba , Abdullah A. Alghamdi , Abdulrahman A. Alghamdi , Badr A. Aldahmash , Doaa M. Elnagar , Saad Alkahtani. Efficacy of ivermectin against colon cancer induced by dimethylhydrazine in male wistar rats.
43. Mohammed S Aleissa, AL-Zharani Mohammed, Md Saquib Hasnain, Saad Alkahtani. Screening, molecular simulation & in silico kinetics of virtually designed covid-19 main protease inhibitors.
44. Norah M. Alhoshani, Mohammed Al-Zharani, Bader Almutairi, Nada H. Aljarba, Norah S. AL-Johani, Nora Alkeraishan, Abdullah A. AlKahtane, Saud Alarifi, Daoud Ali, Saad Alkahtani. Antioxidant and anti-inflammatory activities of lycopene against 5-fluorouracil-induced cytotoxicity in Caco2 cells.
45. Mohammed S. Aleissa , Mohammed Al-Zharani , Lina M. Alneghery , Md Saquib Hasnain , Bader Almutairi , Daoud Ali, Saud Alarifi , and Saad Alkahtani. Lagerstroemia speciosa Ameliorated Blood Pressure in LNAME Induced Hypertension in Experimental Rats through NO/Cgmp and Oxidative Stress Modulation.
46. Norah S. AL-Johani , Mohammed Al-Zharani , Nada H. Aljarba , Norah M. Alhoshani , Nora Alkeraishan , and Saad Alkahtani. Antioxidant and Anti-Inflammatory Activities of Coenzyme-Q10 and Piperine against Cyclophosphamide-Induced Cytotoxicity in HuH-7 Cells.
47. Mohammed Al-Zharani, Hamzah A. Alghamdi, Badr A. Aldahmash, Doaa M. Elnagar, Norah M. Alhoshani, Norah S. AL-Johani, Nora Alkeraishan, Alhanof Alhenaky, Nada H. Aljarbad, Abeer Alahmarie, Saad Alkahtanib. Ivermectin ameliorate the toxic effect of dimethylhydrazine in male Wistar rats.
48. Zahoor Ahmad Parray, Faizan Ahmad, Anis Ahmad Chaudhary, Hassan Ahmad Rudayni, Mohammed Al-Zharani, Md Hassan, Asimul Islam. Size dependent interplay of volume exclusion versus soft interactions: cytochrome c in macromolecular crowded environment.
49. Mohammed S. Aleissa , Mohammed AL-Zharani, Lina M. Alneghery, Md Saquib Hasnain, Bader Almutairi, Daoud Ali, Saud Alarifi, Saad Alkahtani. Comparative study of the anti-diabetic effect of mucilage and seed extract of Abelmoschus esculentus against streptozotocin-induced.
50. Lionel Loubaki , Mahmoud Rouabhia , Mohammed Al Zahrani , Abdullah Al Amri and Abdelhabib Semlali. Oxidative Stress and Autophagy Mediate Anti-Cancer Properties of Cannabis Derivatives in Human Oral Cancer Cells,
51. Mohammed S. Aleissa , Mohammed AL -Zharani , Lina M. Alneghery , Abdulmalik M. Aleissa. Berberine enhances the sensitivity of radiotherapy in ovarian cancer cell line (SKOV-3) .
52. Mohammed Al-Zharani , Nael Abutaha. Phytochemical screening and GC-MS chemical profiling of an innovative anti-cancer herbal formula (PHF6) .

53. Naima Mammate , Fatima Ezzahra El oumari , Hamada Imtara , Salim Belchkar , Ghita Benjelloun Touimi , Mohammed Al-Zharani , Hassan A. Rudayni , Ashraf Ahmed Qurtam , Mohammed S. Aleissa , Fahd A. Nasr , Omar M. Noman and Tarik Sqalli Houssaini. Anti-Struvite, Antimicrobial, and Anti-Inflammatory Activities of Aqueous and Ethanolic Extracts of *Saussurea costus* (Falc) Lipsch Asteraceae.
54. Mohammed Al - Zhrani , Mohammed Mubarak , Hassan Ahmed Rudayni , Mohammed Al – eissa. Effect of the Nutritional Supplement Synertox? on Lead - Induced Toxicity in Male Albino Rats.
55. Marie-Claude Lampron , Isabelle Paré , Mohammed Al-Zharani , Abdelhabib Semlali and Lionel Loubaki. Cannabinoid Mixture Affects the Fate and Functions of B Cells through the Modulation of the Caspase and MAP Kinase Pathways.