Sabah Al-Zahrani BSc, MSc

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EDUCATION:

2021 MSc. Collage of Science, Biochemistry, King Saud University, Saudi Arabia.

M.Sc. Thesis Title: "Screening of natural anticancer products via

targeting ATM/Chk2 and ATR/Chk1 signaling pathway on different colon cancer cell lines"

Jun 2014- Jul-2016 American English Language program Columbia University

2009 BSc. Collage of Science, Biochemistry, King Saud University, Saudi Arabia.

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POSITIONS AND EMPLOYMENT:

2012- Present Demonstrator, Biochemistry Department, College of Science, KSU
 2006-2012 Research Assistance, Zoology Department, KSU& Genetics
 Department, KFSHRC.

2005-2006 Research Trainee, Genetics Department, KFSHRC

TECHNICAL TRAINING:

2006-2007 Volunteer Research Assistant for three month in in Neurogenetics Unit and Laboratory, headed by Dr. Namik Kaya, KFSHRC, Genetics Department.

Molecular Biology Techniques

- DNA and RNA isolation and purification from whole blood, different cell lines and tissue samples.
- Determination of the quantity and quality of RNA, DNA and proteins in various cell and tissue types.
- Primer design and optimization.
- Cell culture.
- Cell line treatment.
- PCR preparation and product purification.
- Imaging (Typhoon and UV imager).
- Gel Electrophoresis (Agarose).
- Preparing and sequencing samples of DNA (ABI 3100, MegaBase).
- Sequence analysis (ChromasPro, Lasergene 6.0).
- · cDNA Synthesis.

Microbiology Technique:

- Minimum inhibitory concentration assay
- Bacterial inhibition's assay

Computer Skills:

• **Software**: ChromasPro, Lasergene 6.0, GraphPad Prism 9.0 Microsoft Office Professional.

VOLANTEERING EXPERIENCE:

As a technician working at Zoology Department, College of Science, KSU, in the following courses:

- Zoo 551 Advanced Genetics
- **Zoo 556** Advanced Cytogenetics
- Zoo 331 Physiology-1
- Zoo 553 Molecular Biology

TEACHING EXPERIENCE:

As a demonstrator working at Biochemistry Department, College of Science, KSU, I have taught and gave lectures on practical training to the students taking following courses:

- BCH 361 Molecular Biology
- BCH 302 General Biochemistry-2
- BCH 445 Nutritional Biochemistry
- BCH 447 Practical Metabolism
- BCH 472 Biochemistry of Biological Fluids
- BCH 497 Research and Seminar
- BCH 220 Blood Biochemistry

PUBLICATIONS:

RESEARCH ARTICLES PUBLISHED IN PEER REVIEWED JOURNALS:

Sabah Ahmed Al-Zahrani¹, Ramesa Shafi Bhat*, Mona Awad Al-Onazi, Mona S. Alwhibi, Dina. A. Soliman, Nora Abdullah Aljebrin, Leenah Saleh Al-Suhaibani, and Sooad Al Daihan. Anticancer potential of biogenic silvernanoparticles using the stem extract of Commiphora gileadensis against human colon cancer cells. Green Processing and Synthesis 2022; 11: 435–444. (https://doi.org/10.1515/gps-2022-0042)

Sabah Ahmed Al-Zahrani¹, Ramesa Shafi Bhat, Sarah A. Al Rashed, Amer Mahmood, Ahmed Al Fahad, Ghadah Alamro, Jamilah Almusallam, Roua Al Subki, Raha Orfali and Sooad Al Daihan. Green-synthesized silver nanoparticles with aqueous extract of green algae *Chaetomorpha ligustica* and its anticancer potential. Green Processing and Synthesis 2021; 10: 711–721. (https://doi.org/10.1515/gps-2021-0067).

Arwa Althomali¹, Maha H. Daghestani, Fatimah Basil Almukaynizi, **Sabah Ahmed Al-Zahrani**, Manal A. Awad, Nada M. Merghani, Wadha I. Bukhari, Eiman M. Ibrahim, Sherifah M. Alzahrani, Nouf Altowair, Afaf S. AL-Ghamdi, Asma M. AlQahtani, Rasha Ramadan, and Ramesa Shafi Bhat*. Anti-colon cancer activities of green-synthesized Moringa oleifera—AgNPs against human colon cancer cells. Green Processing and Synthesis 2022; 11: 1–10. (https://doi.org/10.1515/gps-2022-0052).

Hussah M. Alobaid¹, Maha H. Daghestani, Nawal M. AL-Malahi, **Sabah A. Alzahrani**, Lina M. Hassen, and Dina M. Metwally*. Exploring the effect of silver nanoparticles on gene expression in colon cancer cell line HCT116. Green Processing and Synthesis 2022; 11: 1108–1117. (https://doi.org/10.1515/gps-2022-0094).

Hanan A. Bin Saeed¹, Maha H. Daghestani¹, Khushboo Ambreen², Mazin H. Daghestani³, **Sabah A. Al-Zahrani⁴**, Hussah Alobaid¹, Nawal M. AL-Malahi¹. Low Dose of Green Synthesized Silver Nanoparticles is Sufficient to Cause Strong Cytotoxicity via its Cytotoxic Efficiency and Modulatory Effects on the Expression of *PIK3CA* and *KRAS*Oncogenes, in Lung and Cervical Cancer Cells Journal of Cluster Science 2022;11. (https://doi.or10.1007/s10876-022-02395-3).

Nuha Sulaiman Alduraihem ¹, Ramesa Shafi Bhat ²*, **Sabah Ahmed Al-Zahrani** ², Doaa M. Elnagar ¹, Hussah M. Alobaid ¹ and Maha H. Daghestani ¹,*

Anticancer and Antimicrobial Activity of Silver Nanoparticles Synthesized from Pods of *Acacia nilotica*. *Processes* 2023, *11*, 301. (https://doi.org/10.3390/pr11020301)

Maha H Daghestani^{1*}, Arjumand Warsy², Mazin H Daghestani³, Ali N Alodaib⁴, Abdelmoneim Eldali5, Nadia A Al-Eisa¹ and **Sabah Al-Zhrani²**. The Gln27Glu Polymorphism in β2-Adrenergic receptor gene is linked to hypertriglyceridemia, hyperinsulinemia and hyperleptinemia in Saudis. Lipids in Health and Disease. 2010 Aug 25;9:90. (https://doi: 10.1186/1476-511X-9-90).

PARTICIPATION IN RESEARCH:

- 2006-2007 The change of insulin receptor gene in polycystic ovaries in Saudi women.
- 2006-2007 The link in beta Adrenergic gene in obesity among Saudis.
- 2007-2008 The change of 3 non-associated protein gene in Saudi diabetics.
- 2008-2009 The relationship between the change of Leptin gene and obesity in Saudi children.

- 2012-2013 Genetic association between the HLA-G 14-bp insertion/deletion polymorphism and the recurrent spontaneous abortions in Saudi Arabian women.
- 2012-2013 The relationship between cytokine gene polymorphism and unexplained recurrent spontaneous abortion in Saudi females.
- 2020-2021 Anti-colon-cancer activities of biogenic Moringa oleifera-AgNPs through molecular pathway analysis in human colon-cancer cells HCT116 and SW480.

PROGRAM OF CREATIVITY AND TALENT IN MOLECULAR BIOTECHNOLOGY:

2011 Technician

2010 Technician

LANGUAGES:

Arabic, English