



**FACULTY FULL NAME:** Sarah Abdulaziz Almuhanha

**POSITION:** Assistant professor

### Personal Data

Nationality | Saudi

Date of Birth | September,27,1983

Department | Clinical Laboratory Science Department

Official IAU Email | Salmuhanna@iau.edu.sa

Office Phone No. |

### Language Proficiency

Language	Read	Write	Speak
Arabic	X	X	X
English	X	X	X
Others			

### Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
June 27/2020	Doctor of Philosophy(phD)	Western Michigan University	Kalamazoo, MI United State of America
December 13/2014	Master of Science (M.S.)	Western Michigan University	Kalamazoo, MI United State of America
October 10/2005	Bachelor of Science	King Faisal University	Dammam, Saudi Arabia

### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	MOLECULAR GENETIC ANALYSIS OF THE ROLE OF M-LINE PROTEINS IN THICK FILAMENT ASSEMBLY AND ATTACHMENT IN <i>C. ELEGANS</i>
Master	GENERATION AND USE OF MONOCLONAL ANTIBODIES TO IDENTIFY SUBPOPULATIONS OF POST-THAW STALLION SPERM



Fellowship	
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### Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
Assistant professor	Department of Clinical Laboratory Science, College of Applied Medical Sciences	Imam Abdulrahman Bin Faisal University, Saudi Arabia (IAU)	2020-present
Lecturer	Department of Clinical Laboratory Science, College of Applied Medical Sciences	Imam Abdulrahman Bin Faisal University, Saudi Arabia (IAU)	2014-2020
Teaching Assistant	Department of Biological Science	Western Michigan University (WMU)	2017-2020
Teaching Assistant	Department of Medical Laboratory Technology, College of Applied Medical Sciences	King Faisal University Dammam, Saudi Arabia	2009-2011

### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date

### Scientific Achievements

#### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
	Todd Barkman & Sarah Almuhanha	A Collaborative Classroom Investigation of the Evolution of SABATH Methyltransferase	MBE-Oxford press 16 March 2022



		Substrate Preference Shifts over 120 My of Flowering Plant History	

### Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
	Sarah Almuhanha and Hoppe	A candidate genes approach to identify kinases that activate the UNC-82 protein kinase in muscle	Midwest <i>C.elegans</i> meeting
	Sarah Almuhanha , schiller and Hoppe	The AMPK-related kinase UNC-82 mediates interaction of myosin A with paramyosin in striated muscle	Midwest <i>C.elegans</i> meeting

### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
	Amnah Saleh Al-Taweel and Sarah Almuhanha	UNC-82 protein kinase role in straight muscle.	2021
	Batool Alawad and Sarah Almuhanha	CRISPR/Cas9 technology in molecular medicine	2022

### Current Researches

#	Research Title	Name of Investigator(s)



## Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	Midwest <i>C.elegans</i> meeting	University of Michigan 2019	Poster
2	Midwest <i>C.elegans</i> meeting	Eastern Michigan University 2018	Poster
3	Midwest <i>C.elegans</i> meeting	Van Andel Institute 2017	Poster
4	Midwest <i>C.elegans</i> meeting	Van Andel Institute 2016	Participant
5	Advances In Blood Transfusion	King Fahad Hospital of the University 1 <sup>st</sup> February 2006	Participant
6	Molecular Genetics In Medicine	King Fahad Hospital of the University 21 <sup>st</sup> December 2005	Participant
7	The future of Medical Laboratory Technology :Expectations & Challenges	King Fahad Hospital of the University 27 & 28 April 2005	Participant
8	Trends In Microbiology	King Fahad Hospital of the University 24 & 25 March 2004	Participant
9	Medical Ethics Present and Expectations	King Fahad Hospital of the University 11 March 2003	Participant

## Membership of Scientific and Professional Societies and Organizations

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## Teaching Activities

### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Microbiology practices		2009
	Histopathology Technique	MSML 221	2009 (lecture/lab)
	Diagnostic Histotechnology and Cytology Rotation	MSML 413	2009 (lecture/lab)
	Molecular and Cellular Biology Laboratory	CLS 1610	2017-2020 (Lecture)



Medical Genetics	CLS 225	2021-2022 (Lecture)
Clinical chemistry rotation	CLS 422	(Lecture)

### Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

Histopathology Technique MSML 221 This course covers basic concepts of Histopathology by focusing on the basic techniques
Diagnostic Histotechnology and Cytology Rotation MSML 413 This course covers advance Histopathology techniques and Cytology.
Molecular and Cellular Biology Laboratory BIOS 1610- This course covers basic concepts of molecular and cellular biology by focusing on components of organisms from atoms to cells and the roles they play within the organism
An introductory course in which the principles of genetics are explored at cellular and chromosomal level. Patterns of inheritance and probabilities, cancer etiology, prenatal diagnosis, gene therapy, genetic counseling and ethical issues are also explored.

### Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Pathology of Disease	CLS 702	15%
2			

### Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	The course in Pathology of diseases provides an introduction to the mechanisms of disease and to the morphology and clinical characteristics of a broad spectrum of disease entities.
2	

### Course Coordination

#	Course Title and Code	Coordinati on	Co- coordination	Undergr ad.	Postgrad .	From	To
	Medical Genetics 225	20%		√		2021	2022

### Guest/Invited Lectures for Undergraduate Students



#	Activity/Course Title and Code	Subject	College and University or Program	Date

### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
	CLS students (all level)	80	2021	2022

### Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date

### Ongoing Research Supervision

#	Degree Type	Title	Institution	Date

### Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

#### Administrative Responsibilities

#	From	To	Position	Organization

#### Committee Membership

#	From	To	Position	Organization
	2009-2010		member	Curriculum committee



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### Scientific Consultations

#	From	To	Institute	Full-time or Part-time

### Volunteer Work

#	From	To	Type of Volunteer	Organization

### Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Lab techniques s related to producing monoclonal antibodies and cell culture.
2	Lab techniques related to gene editing and development genetics such as CRISPR and PCR

Last Update

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