

## Curriculum Vitae

Hana D. Ali Alebous, Ph.D.

Associate Professor of  
*Developmental Biology and Embryology*  
June, 2018

### PERSONAL INFORMATION

Name: Hana D. Ali Alebous  
Place & Date of Birth: Amman/ Jordan, February 1, 1971.  
Nationality: Jordanian

### CONTACT INFORMATION

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Cell phone: 962-795318194

### ACADEMIC QUALIFICATIONS

**Ph.D. in Biology/Developmental Biology.** The University of Alabama (USA),  
2006. (GPA: 3.8)

Dissertation Title

*Localization of Inositol Biosynthesis in the Developing Brain of Wild Type  
and Curly Tail Mice.*

**B.Sc. in Biology.** Yarmouk University, 1993. (GPA: 76.4: Very Good)

**General Secondary School Certificate.** Amman, 1989.

### AREAS OF RESEARCH INTEREST

- Inositol Biosynthesis in Developing Brain
- Neural Tube Defects
- Maternal Health

### COURSES TAUGHT

BIO 99	Introduction to Biology (For pre-medical school), The University of Jordan
BIO 101	General Biology, The University of Jordan
BSC 108	Introduction Biology, The University of Alabama (USA)
BSC 109	Introduction Biology, The University of Alabama (USA)
BIO 111	Practical General Biology, The University of Jordan

BIO 142	General Biology II, Stillman College (USA)
BIO 231	Cell Biology, The University of Jordan
BIO 321	Biochemistry, The University of Jordan
BIO 362	Developmental Biology , The University of Jordan
BIO 448	Cell Physiology, Stillman College (USA)
BIO 491	Seminar, The University of Jordan
BIO 492	Research, The University of Jordan
BIO 763	Advanced Developmental Biology, The University of Jordan
3400105	Campus Life & Ethics
PHY 720	Anatomy and Physiology. The University of Jordan
BIO 432	Histology. The University of Jordan

## **EXPERIENCE**

### **May, 2016- Now**

Associate Professor, The University of Jordan

### **November, 2012- May, 2016**

Assistant Professor. The University of Jordan

### **May, 2010 - November, 2012**

Lecturer. The University of Jordan

### **January, 2010 - May, 2010**

Assistant Professor. Stillman College (USA)

### **September, 2007 – January, 2010**

Lecturer. The University of Jordan

### **January, 2015 - May, 2015**

Visiting Research Professor, The University of Alabama (USA)

### **August, 2004- August, 2006**

Research Assistant, The University of Alabama (USA)

### **August, 2003- August, 2004**

Teaching Assistant, The University of Alabama (USA)

### **July, 1996- December, 2001**

Science Pre-Service Field-Practice Trainer/ Advisor, Mu'tah University (Jordan)

### **May 1994- July 1996**

Lab Technician, College of Science, Mu'tah University, Jordan.

## **ADMINISTRATIVE EXPERIENCE**

**August, 2015 - Now**

Department Head, Biological Sciences, The University of Jordan.

## **TRAINING RECEIVED**

- Writing Proposals for Grants by the European Union. The University of Jordan, 2016.
- A Training Workshop on “Google Scholar.” The University of Jordan, 2016.
- Sessions in Principles of Safety in Science Instructional Labs. The University of Alabama (U.S.), 2015.
- Learning Outcomes (ILOs), Jordan, 2015.
- Workshop on Laboratory Equipments and Their Applications (Sponsored by Memmert), November, 2015.
- A Training Course on Advanced Statistical Analyses Using SPSS Software, The University of Jordan, 2014.
- A Training Program for Improving Faculty Members’ Academic Performance: Designing Study Plans, The University of Jordan, 2012.
- A Training Program for Improving Faculty Members’ Academic Performance: Teaching Design and Its Strategies, The University of Jordan, 2012.
- A Training Program for Improving Faculty Members’ Academic Performance: Effective University Teaching Skills, The University of Jordan, 2012.
- A Training Program for Improving Faculty Members’ Academic Performance: Exam Preparation and Learners’ Assessment, The University of Jordan, 2012.
- 10- A Training Program for Improving Faculty Members’ Academic Performance: Laws, Bylaws and Regulations of The University of Jordan, The University of Jordan, 2012.
- A Training Program for Improving Faculty Members’ Academic Performance: Academic Ethics, The University of Jordan, 2012.

- A Training Workshop for Newly-appointed Faculty Members, The University of Jordan, 2008
- McGraw Hill Biology Symposium with Dr. Robert J. Brooker, 2008. Amman, Jordan.
- Sessions in Principles of Safety in Science Instructional Labs. The University of Alabama (U.S.), 2005.
- Measurement and Evaluation in Teacher Training. Amman, June 2000.
- Improving Guidance and Counseling at Jordanian Schools, Irbid, Jordan. 2000.
- A Training Visit to Vienna (Austria). Addressed Effective Teaching Methods of Science. 1999.
- Attended and Participated in Workshops, Lectures, and Seminars in “Improving Teacher Education Program at Jordanian Universities (ITEJUP)”, Sponsored by Public Jordanian Universities and the European Union (EU). 1996 - 1999.
- Science Teaching Using No-Cost and Low-Cost Teaching Materials. Amman, Jordan. 1997.
- E-Learning Resources 22-23/2/2017. The University of Jordan
- Developing Faculty Members' Homepages. The University of Jordan
- Using Search Engines for Academic Purposes. The University of Jordan
- Learning Outcomes Identification: A Requirement for ABET Accreditation. The University of Jordan
- The Social Committee
- Operational Plan for The Faculty of Science

## **SKILLS**

Competent in Using the English Language (TOEFL, GRE, IELTS)

Competent in Using Computer (MS Word, Excel, PowerPoint, SPSS)

## **SCHOLARSHIPS**

- The University of Alabama Teaching Graduate Scholarship 2003, 2004, USA.
- The University of Alabama Research Graduate Scholarship 2004, 2005, 2006, USA.

- Full Scholarship for Pursuing Higher Education in U.K., Mu'tah University and European Union.
- Scientific visit to The University of Alabama, USA, January 2015-May 2015.

## RESEARCH

### A. PUBLISHED

**Alebous, H.**, Hudeb, A., Sober, S., Gray, R., & Johnson, M. 2016. Assessing Effects of *Equisetum Ramosissimum* Extract on Hematological and Serum Biochemical Parameters in Pregnant Sprague-Dawley Rats. *African Journal of Traditional Complementary and Alternative Medicines*, 13 (3): 16-21.

**Alebous, H.**, Hudaib, M., Hudeb, A., Sober, S., Gray, R., & Johnson, M. 2016. Chemical Composition of Essential Oil from *Equisetum ramosissimum*. *European Journal of Medicinal Plants*, 13 (2): 1 -5.

**Alebous, H.**, Ma'aita, M.E., & Alkhazaleh F.A. 2014. Folic acid and neural tube defects: are Jordanian pregnant women aware? *Clinical and Experimental Obstetrics & Gynecology* XLI (6): 647-653.

Asassfeh, S., **Alebous, H.**, Khwaileh, F., & Al-Zoubi, Z. 2014. Student Faculty Evaluation (SFE) at Jordanian Universities: A Student Perspective. *Educational Studies*, 40 (2): 121-143.

Asassfeh, S. & **Alebous, H.** 2013. Student Evaluation of Faculty Members: Faculty Members' Perspective. *Journal of Institutional Research in South East Asia*, 11 (2): 68-94.

**Alebous, H.** & Hasan, A. 2012. Prevalence of congenital hydrocephalus in the Hashemite kingdom of Jordan: A hospital-based study. *Scientific Research*, 4(10): 789-91.

**Alebous, H.**, Cartee, R., Vaccari, D., Wright, O, Ahmed, A., Hood, R., & Johnson, M. 2009. Developmental control of inositol phosphate biosynthesis is altered in the brain of both curly and phenotypically normal straight tail mutant mice. *Birth Defects Research Part A: Clinical and Molecular Teratology*. 85(10):822-7.

## **B. ONGOING**

**Alebous, H.** & Johnson, M. “Aberrant DNA Methylation Uncovers Regulatory Sequence, Implicating Potential Epigenetic Control of Inositol Phosphate Biosynthesis in Brains of Curly tail Mutant Mice.”

**Alebous, H.** & Johnson, M. “Expression of 1L-myo-Inositol -1-Phosphate Synthase (EC 5.5.1.4) is Deregulated in the Cerebellum of Curly Tail Mutant Mice”

**Alebous, H.**, Hudeb, A., Sober, S., Gray, R., & Johnson, M. “Effect of Maternal Oral Gavage of *Equisetum ramosissimum* Extract on Neural Tube Development in Sprague-Dawley Rats. A Light Microscopic Study”

**Alebous, H.**, Hudeb, A. & Sober, S. “Is maternal *myo*-inositol concentration is associated with the risk of offspring with neural tube defect in Jordanian pregnancies?”

Steele, E., **Alebous, H.** & Johnson, M. Inositol regulates the compartmentalization of 1L-myo- inositol-1 phosphate synthase (EC 5.5.1.4) in membranes of *Saccharomyces cerevisiae*.

Steele, E., **Alebous, H.** & Johnson, M. Spatial Domains for Inositol Phosphate Biosynthesis Extend to Organelles and to Extracellular Vesicles in *Saccharomyces cerevisiae*

## **RESEARCH GRANTS**

- ✓ Serum myo-Inositol Levels in Jordanian Pregnancies with a Neural Tube Defect Fetus and Infants with Neural Tube Defect and Their Mothers.  
Name of Institution: The University of Jordan.
- ✓ Defining mechanisms regulating inositol responsive neural tube defects.  
Name of Agency: National Institutes of Health.

## **COMMITTEES**

A. Dept. of Biological Sciences, The University of Jordan

- ✓ Social Committee
- ✓ Cultural Committee
- ✓ The Program Outline and Syllabi Committee

- ✓ Scientific Research Committee
- ✓ Graduate Studies Committee
- ✓ Freshman Course Committee
- ✓ Planning Committee for Celebrating The University of Jordan's 50<sup>th</sup> Anniversary
- ✓ Academic Advisor for Graduate Students
- ✓ International Accreditation Committee
- ✓ Committee for Preparing Written Assessment for Lab Supervisors' Appointment
- ✓ Head, Graduate Students Comprehensive Exam Committee
- ✓ Head, PhD Candidates Competency Exam Committee
- ✓ Faculty Members Promotion Committee
- ✓ Course Grades' Approval Committee

### ***B. College of Science, The University of Jordan***

- ✓ Graduate Studies Committee
- ✓ Program Outline and Syllabi Committee
- ✓ Student Discipline Committee
- ✓ Animal Laboratory Supervision Committee
- ✓ Student Elections Committee
- ✓ The Planning Committee for The College's Scientific Day
- ✓ Committee for Setting Standards for Candidate Faculty Members' Work at Tabuk University
- ✓ Committee for Sample Analysis and Pricing
- ✓ Committee for maximum-limit control on students' research sample analysis
- ✓ Evaluation of School Students' Scientific Projects Sponsored by "Ebtekar" Association for Innovation Development.
- ✓ Special Investigation Committee

### ***C. The University of Jordan***

- ✓ Student Discipline Committee
- ✓ Special Investigation Committee
- ✓ Member, Higher Committee for International Accreditation
- ✓ University Model School Council
- ✓ اللجنة التحضيرية للطب و طب الاسنان

## **CONFERENCES**

- The International Conference for Natural Products and Drugs, September 2015, The University of Jordan.
- Advances in Cancer Research: From the Laboratory to Clinic (An AACR International conference), March, 16-19, 2008. Dead Sea, Jordan.

- The Seventh International Congress of The Jordanian Society for Fertility and Genetics, April 26<sup>th</sup>-28<sup>th</sup> 2017, Amman-Jordan.
- 8<sup>th</sup> Conference for Scientific Research 11/2017. Amman/ Jordan

### **JOURNAL REVIEWER FOR**

- ✓ British Journal of Medicine and Medical Research
- ✓ Annual research and Review in Biology
- ✓ International Journal of Tropical Disease and Health

### **PRESENTATIONS**

- ✓ Yarmouk University, Jordan: Inositol Biosynthesis and neural tube formation.
- ✓ Al Balqa' Applied University, Jordan: Inositol Biosynthesis and Spina Bifida.
- ✓ Jordan University of Science and Technology, Jordan: Inositol Biosynthesis and neural tube defects.
- ✓ Stillman College, USA: Inositol Biosynthesis in the Developing Brain.
- ✓ The University of Alabama, USA: Localization of Inositol Biosynthesis in the Developing Brain of Wild Type and Curly Tail Mice.

### **AFFILIATIONS**

- Member, Center for Sustainable Service and Volunteerism "Providing Support for the Elderly in Tuscaloosa County", USA.
- Member, Spina Bifida (SB) Professionals ListServ, USA.
- Cerebral Palsy Foundation, Jordan.
- Two-way Arabic-English Interlocutor, Tuscaloosa County Schools, Alabama (USA), August, 2005 - August, 2006.
- International Graduate Students' Ambassador for the Graduate School of Alabama The University of Alabama (USA), October, 2003- August, 2006.



- Member, Environment Committee. Mu'tah University /Jordan, 1995-2001.
- Head of Environment Committee, Mu'tah University (Jordan), 1996- 1997
- Head of Jordan Future Scientists Fair Committee, Amman-Jordan ,2017
- Member, Jordan Future Scientists Fair Committee, Amman-Jordan ,2016
- Member, The Jordanian Society for Fertility and Genetics

### COMMUNITY SERVICE

- Teaching Courses for Libyan University Instructors and Laboratory Technicians on Chromatography, The University of Jordan, 2013.
- Exam Development for the Civil Service Bureau, Jordan, 2015.
- Cooperation with the International Federation for Spina Bifida and Hydrocephalus (USA)
- Supervising Students Initiatives (e.g., *Kiswah*) The University of Jordan, Jordan
- Jordan Future Scientists Fair
- Theses / Dissertation Examiner

### REFEREES

- ✓ Prof. Dr. Abdelrahim A. Hunaiti  
Email: hunaiti2001@yahoo.com
- ✓ Prof. Dr. Ekhleif Y. Tarawneh  
Email: ek\_tarawneh@yahoo.com
- ✓ Prof. Dr. Shtaywy S. Abdalla  
Email: shtaywy@ju.edu.jo
- ✓ Prof. Dr. Shaher M. Momani  
Email: s.momani@ju.edu.jo
- ✓ Prof. Dr. Sami Mahmood  
Email: s.mahmood@ju.edu.jo

