**Curriculum Vitae**

Hana D. Ali Alebous, Ph.D.

Associate Professor of

***Developmental Biology and Embryology***

*Jan, 2024*

**PERSONAL INFORMATION**

Name: Hana Dawood Alebous

Place & Date of Birth: Amman/ Jordan, February 1, 1971.

Nationality: Jordanian

**CONTACT INFORMATION**

E-mail: [h.alebous@ju.edu.jo](mailto:h.alebous@ju.edu.jo)

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

**COURSES TAUGHT**

3400105 Campus Life & Ethics, The University of Jordan

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

BIO432 Histology, 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

PHY 720 Anatomy and Physiology, The University of Jordan

BIO 763 [Advanced Developmental Biology](http://science.ju.edu.jo/Lists/Courses/Disp_Course.aspx?ID=290&dept=Biological%20Sciences%20&deptName=Biological%20Sciences%20&prog=), The University of Jordan

**EXPERIENCE**

**September, 2019- September 2020**

Sabbatical leave**,** spent in USA and Jordan

**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**

* **September, 2020 – Now**

Department Head, Biological Sciences, The University of Jordan.

* **May, 2015 – May, 2019**

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.
* A Training Workshop for Graduate Teaching Assistants. The University of Alabama (U.S.), 2003.
* 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
* Acquaintance with ABET Accreditation Standards: Practical Steps for the Implementation of Continuous Improvement, organized by AROQA, Amman, Jordan, December 2018.
* Technical Training and Coordination for Rapid Pathogen Detection and Analysis Workshop #2. Jordan LabNetwork Development. January 6th-10th, 2019.Amman, Jordan. Los Alamos National Laboratory
* “Teaching ethics - an applied perspective “ The University of Jordan 11/2019
* “Scientific research skills“ The University of Jordan 11/2019
* Collaborative Institutional Training Initiative (CITI) training program courses under requirements set by: Pennsylvania State University 2/2020. USA:
* Curriculum Group: Animal Care and Use (ACU)
* Course Learner Group: Researchers (NOT involved in survival surgery)
* Stage: Stage 1-Basic Course
* Curriculum Group: Initial Biosafety Training
* Course Learner Group: Yearly Biosafety Training
* Stage: Stage 1-Basic Course
* Curriculum Group: Good Laboratory Practice (GLP)
* Course Learner Group: Good Laboratory Practice (GLP)
* Stage: Stage 1-GLP
* Training course at Harvard University /Boston/USA, March 2020 “Environmental Health Risk Analysis and Applications”.
* Laboratory Safety and Laboratory Hazard Communication/ Environmental Health and Safety (EHS) Laboratory Safety Training Refresher. Pennsylvania State University 3/2020. USA

**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.
* Fellow for the 2019-2020 Cooperative Threat Reduction Biosciences Fellowship Program (CBFP).

**RESEARCH**

1. ***PUBLISHED***

Steele, E., **Alebous**, **H**., Macy Vickers & Johnson, M. 2021. Co‑culturing

experiments reveal the uptake of myo‑inositol phosphate synthase (EC 5.5.1.4) in

an inositol auxotroph of *Saccharomyces* *cerevisiae.* *Microbial Cell Factories*

*(2021) 20:138.*

**Alebous**, **H**., Erika M. Steele & Johnson, M. 2020. Expression of 1L-myo-Inositol -1-Phosphate Synthase (EC 5.5.1.4) is Deregulated in the Cerebellum of Curly Tail Mutant Mice. *Journal of Advances in Medicine and Medical Research,* 32(2): 85-93.

**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.**](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Alebous%20HD%22%5BAuthor%5D) & 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.**](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Alebous%20HD%22%5BAuthor%5D), [Cartee, R](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Cartee%20R%22%5BAuthor%5D)., [Vaccari, D](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Vaccari%20D%22%5BAuthor%5D)., [Wright, O](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Wright%20OA%22%5BAuthor%5D), [Ahmed, A](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ahmed%20A%22%5BAuthor%5D)., [Hood, R.](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Hood%20RD%22%5BAuthor%5D), & [Johnson, M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Johnson%20MD%22%5BAuthor%5D). 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.

1. ***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**.“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., Arar, S.& 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. 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**

1. 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 50th 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

1. ***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
* Operational Plan for The Faculty of Science
* Students graduation ceremony committee
* The Evaluation Committee for The College’s Scientific Day

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

* Student Discipline Committee
* Special Investigation Committee
* Member, Higher Committee for International Accreditation
* University Model School Council
* Committee of the Pre-Medical for Medicine and Dentistry Students.
* Charity committee member

**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 26th-28th 2017, Amman-Jordan.
* 8th Conference for Scientific Research 11/2017. Amman/ Jordan
* ” Biorhythms and its Role in Sustainable Development”, Speaker . 2nd international conference “Sports and sustainable development”. Hashemite University, Amman-Jordan, 22/8/2019.

**JOURNAL REVIEWER FOR**

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

**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.
* CTR Biosciences Fellowship Program, 2019-2020 CBFP Orientation Session in Dubai, October, 2019: CTR Biosciences Fellowship Program, Fellowship Scope of Work (SOW)
* CTR Biosciences Fellowship Program, 2019-2020 CBFP Orientation Session in Dubai, October, 2019: CTR Biosciences Fellowship Program, Accomplished, Ongoing , and Future Research
* CTR Biosciences Fellowship Program, 2019-2020 CBFP Closeout Meeting Session via the Zoom Communications Platform, 20 – 21 August, 2020: Virology Diagnostic Methods of Chicken Embryos Inoculation, Harvest and Cell Culture

**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
* Member, Association of Jordanian Women Academics
* Member, The All Partners Access Network (APAN)
* Fellow for the 2019-2020 Cooperative Threat Reduction Biosciences Fellowship Program (CBFP).

**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 theInternational Federation for Spina Bifida and Hydrocephalus (USA)
* Supervising Students Initiatives (e.g., *Kiswah*) The University of Jordan, Jordan
* Jordan Future Scientists Fair
* A Member of the Committee for KG- 12 Grades Science Curricula, The National Center for Curriculum Development, Amman, Jordan.
* A member of the Committee for Raising Master's Program Admission Capacity, Accreditation and quality assurance commission for higher education institutions Amman, Jordan.
* A member of the Committee for Accreditation  for Biology Department at The American University, Jordan, Accreditation and quality assurance commission for higher education institutions Amman, Jordan.
* Dissertation Examiner “The Potential Effect of Flavonoids Against Colorectal Cancer”.
* Theses Examiner “The Ameliorating Effect of Caffeic Acid against the CCl4 Induced Cytotoxicity on Liver and Kidney of Albino Rats : Histological and Biochemical Study.”.
* Theses Examiner “Effect of Trans-Resveratrol Against the Cytotoxicity of (-)-Nicotine on the Liver, Duodenum and Jejunum of Male Albino Rats: Histological and Biochemical Study.”.
* Theses Examiner “Comparative gene expression profile of different types of keratinocytes stem cells' colonies isolated from human skin epidermis”.
* Theses Examiner “Ameliorating Effect of Resveratrol on Cigarette and Narghile Smoking Cytotoxicity in The Respiratory System of Albino Mouse: Histological and Biochemical Study.”.
* Theses Examiner “Ameliorating Effects of Resveratrol on Cigarette and Narghile Smoking Cytotoxicity in the Digestive System of Albino Mouse: Histological and Biochemical Study.”.
* A Member of the Committee for KG- 11 Grades Science Curricula, The National Center for Curriculum Development, Amman, Jordan.
* A Member of the Committee for KG- 10 Grades Science Curricula, The National Center for Curriculum Development, Amman, Jordan.
* Online Community Consultant for CRDF Global community site on DTRA’s APAN site titled “Middle East Bioscience Fellowship Program”
* “Alumnus Mentor” for CRDF Global
* Alumnus Mentor” for CRDF Global, speaker in closeout meeting Amman –Jordan June 2022
* Theses Examiner “Comparing the Ameliorative Effect of *Boswellia sacra* Oil, Date Fruit *Phoenix dactylifera* Past Stimulated by BIOPTRON Light and Ultrasound on Woung Healing in *Rattus album*.”.

**REFEREES**

* Prof. Dr. Abdelrahim A. Hunaiti

Email: [hunaiti2001@yahoo.com](mailto:hunaiti2001@yahoo.com)

* Prof. Dr. Ekhleif Y. Tarawneh

Email: ek\_tarawneh@yahoo.com

* Prof. Dr. Shtaywy S. Abdalla

Email: [shtaywy@ju.edu.jo](mailto:shtaywy@ju.edu.jo)

* Prof. Dr. Shaher M. Momani

Email: [s.momani@ju.edu.jo](mailto:s.momani@ju.edu.jo)

* Prof. Dr. Sami Mahmood

Email: [s.mahmood@ju.edu.jo](mailto:s.mahmood@ju.edu.jo)