

استاذ دكتور في علم وظائف الاعضاء

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□ GENERAL INFORMATION

□ EDUCATION

Degree	Area of Study	Year	Institution	Location
Ph.D.	Human and Animal Physiology	2002	Moldova State University	Republic of Moldova
	Preparatory year for studying Biology and Language	1998	Moldova State University	Republic of Moldova
B.Sc.	Biological Sciences	1992	Yarmouk University	Jordan

□ TITLES OF THESES

Ph.D. thesis: Evaluating the effect of *Nigella III* on the Adrenal Cortex, pancreas and reproductive in alloxan-induced diabetic rats.

□ EMPLOYMENT RECORD

2022 – 2024 **Full professor**, Department of Biology, Al al-Bayt University, Jordan
2020 - 2022 **Chair**, Department of Biological Science, Al al-Bayt University, Jordan.
2018 - 2020 **Associate professor**, Department of Biology, Al al-Bayt University, Jordan.
2017 – 2018 **Associate professor**, Department of Biology, University of Jordan.
2014 – 2017 **Associate professor**, Department of Biology, Al al-Bayt University, Jordan.
2011 – 2014: **Assistant Professor**, Department of Biology, Al al-Bayt University, Jordan.
2009 – 2011: **Assistant Professor**, Department of Biology, Al-Hussein Bin Talal University, Jordan.
2004 – 2009: **Assistant Professor**, Department of Biology, Taif University, Saudi Arabia.
2002 – 2004: **part time**, Department of Genetic Engineering & faculty of pharmacy, Philadelphia

□ TEACHING EXPERIENCE

I am teaching the following courses:

Graduate Courses

- Advance Human Physiology
- Advanced Endocrinology
- Biotechnology

Undergraduate Courses

- 1- Animal Physiology
- 3- Endocrinology
- 4- Zoology
- 5- Animal Biotechnology

□ RESEARCH INTERESTS

Research Fields

- Mechanism of alloxan and streptozotocin induced diabetes.
- Hypertension related with Angiotensin Converting Enzyme
- Stress hormones
- Physiological state of pancreas
- hormones
- Medicinal plant extraction.

Research Techniques

- Induction of diabetes, physiological analysis, Biochemical and Hematological analysis, Radioimmunoassay, Immunohistochemistry, ECG, Plant extraction,

Research Grants

Project	Grant	Sponsoring agency	Duration
antidiabetic activity of <i>Asafetida</i> in normal and alloxanic diabetic rats.	50,000 SR	Taif University. Saudi Arabia	2008
Effect of selected medicinal plants on Physiological State of Pancreas in Diabetic Rats.	1050 JD	Al-Hussein Bin Talal Jordan	2010
Evaluation of the effect of virgin olive oil and Metformin on proliferation of skin derived stem cells in the case of normoxia and hypoxia.	8000 €	Leipzig University Germany	2011
Evaluating the different medicinal extracts on blood glucose, liver and kidney functions in diabetic rats. (I am shared with Dr.Nizar Muhidat)	3500 JD	Jordan University of Science and Technology	2013
Scholarship and financial support for master's students from Al al-Bayt University . (4 students)	2000	Al al-Bayt University	2014-2016
Hypoglycemic, Hypolipidimic and Protective Effects of <i>Arbutus andrachne</i> Extract in Streptozotocin Induced Diabetic Rats(I am shared with Dr.Mahmoud abu-Samak)	12000 JD	Faculty of Pharmacy, Applied Science University	2018

The use of <i>salvia Rosmarinus Artemesia Herba alba</i> and <i>Anabasis Syriaca</i> in treating induced Diabetes Type 1 in rats.(I am shared with Dr.Baha Trad)	10000 JD	Yarmouk University Jordan	2021
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□ SOME OF PUBLICATIONS IN PEER REVIEWED JOURNALS

1. Awwad, S., Abu-Zaiton, A., Issa, R., Mohammad, B., Abu-Samak, M. The effect of excessive coffee consumption, in relation to diterpenes levels of medium-roasted coffee, on non-high-density lipoprotein cholesterol level in healthy men. *Pharmacia*, 2023, 70(1), pp. 49–59
<https://doi.org/10.3897/pharmacia.70.e90495>
2. Doa'a Al-U'datt, Carole Tranchant, Ahmed Al-Dwairi, Mohammad Alqudah, Othman Al-Shboul, Roddy Hiram, Bruce Allen, Saied Jaradat, Jenan Alqbelat, **Ahmed S. Abu-zaiton**(2022). Implications of enigmatic transglutaminase 2 (TG2) in cardiac diseases and therapeutic developments, *Biochemical Pharmacology*, Volume 201, 2022, 115104, (**Impact Factor 6.1, Q1**)
<https://doi.org/10.1016/j.bcp.2022.115104>.
3. **Ahmed Abu-zaiton**, Sohail Alsohaili, Abdulrahim Aljamal, Ayah Algaramseh, Maha Habash , Yousef Abu- zaitoon , Mahmoud Abu-Samak.(2022). Physiological and Biochemical Changes in Diabetic Rats Treated with Combined Extracts of *Artemisia herba-alba* and *Anabasis syriaca*. *International Journal of pharmacology (ISI)*
[DOI: 10.3923/ijp.2022.1084.1092](https://doi.org/10.3923/ijp.2022.1084.1092)
4. Abdulrahim Aljamal , Mahmoud Al-Shawabkeh, **Ahmed Abu-Zaiton**, Sabah Mohammad Khaleel, Rana Ahmad Almuher and Hazem Altalafha.(2022). Effect of Green Coffee and Orlistat on Obese Individuals, *International Journal of pharmacology (ISI)* [DOI: 10.3923/ijp.2022.864.868](https://doi.org/10.3923/ijp.2022.864.868)
5. Zakiah Almohawes , Attalla El-Kottb , Kareem Morsy , Ali Shati , Ayman El-Kenawy , Heba Khalifa , Fahmy Elsaid , Abd-El-Karim Abd-Lateif , **Ahmed Abu-Zaiton** , Eman Ebealy , Mohamed Abdel-Daim , Reham A. Ghanem, and Eman Abd-Ellag.(2022). Salidroside inhibits insulin resistance and hepatic steatosis by down regulating miR-21 and subsequent activation of AMPK and up regulation of PPAR α in the liver and muscles of high fat diet-fed rats. *Archive of Physiology and Biochemistry*.(**ISI, Scopus**)
<https://doi.org/10.1080/13813455.2021.2024578>
6. Yousef Abu-Zaitoon, **Ahmed Abu-zaiton**, Abdel Rahman Al Tawaha, Khalid Fandi, and Sulaiman Alnaimat.(2022). Evidence from co-expression analysis

for the involvement of amidase and INS in the tryptophan-independent pathway of IAA synthesis. *Applied Biochemistry and Biotechnology* (Springer. Impact factor 3.1 Q2)

<https://doi.org/10.1007/s12010-022-04047-8>

7. **Ahmed Abu-zaiton (2019)** .Evaluating the Effect of *Mentha piperita* Extract on Lipid Profile and Blood Glucose Level of Lead- induced Toxicity Rats. *Journal of Chemical and Pharmaceutical Sciences*.12 (2):35-38. <https://doi.org/10.30558/jchps.20191202002>
8. **Ahmed Abu-zaiton (2019)**. Assessment of Hematological Finding of Patients with Thalassemia in the North of Jordan. *International Journal of Advanced Biotechnology and Research*, 10(1):736-740. <http://www.bipublication.com>
9. **Ahmed Abu-zaiton**, Mahmoud Abu-samak, Sawsan Oran, Israa Yousef, Yousef Abu-zaitoon, Ayah Algaramseh(2019). Hypoglycemic, Hypolipidemic and Protective Effects of *Arbutus andrachne* extract in Streptozotocin Induced Diabetic Rats. *Research Journal of Biological Sciences*. 14 (3-6): 56-60. <http://dx.doi.org/10.36478/rjbsci.2019.56.60>
10. **Ahmed Abu-zaiton(2019)**. Hypolipidemic and Antioxidant Effect of Essential Oil of *Varthemia iphionoides* in Streptozotocin-induced Diabetic Rats. *Journal of Chemical and Pharmaceutical Sciences*.12 (2):51-54. <https://doi.org/10.30558/jchps.20191202006>
11. Yousef M. Abu-zaitoun, Abdel Rahman Altwaha , Sulaiman Alnaimat , Abraham Al-Rwashdeh, **Ahmed Abu-zaiton** AND Ahmad Khalifat , **2019** . Investigation of the Potential Role of Aldehyde Oxidase in Indole-3-Acetic Acid Synthesis of Development Rice Grains. *Plant Cell Biotechnology and Molecular Biology* 20(1&2):6–13 (**Scopus**)
12. Walid Abu Rayyan, Ibrahim Al-majali, Zainab Zakaria, **Ahmed Abu-zaiton**, Wael Abu-Dayyih. **2019**. Specific Purification of Alcohol Dehydrogenase from *Saccharomyces cerevisiae*; Qualitative and Quantitative characterization. *International Journal of Biology, Pharmacy and Allied Sciences*, 8(12): 2337-2349.(**ISI**) <https://doi.org/10.31032/ijbpas/2019/8.12.4888>
13. **Ahmed Abu-zaiton**, Sohail Alsohaili, Yousef Abu-zaitoon, Baha Trad and Ammar Wardat. **2018**. Anti-hyperglycemic Effect and Liver Enzymes Activity of *Varthemia iphionoides* Essential Oil in Diabetic Rats. *International Journal*

14. **Ahmed Abu-Zaiton**, Ahed J Alkhatib .Suha K Ababneh, Faisal Kanaan, 2016. Physiological Interactions of Calcium and Vitamin D in Colon. European Scientific Journal August 2016 edition vol.12, No.24 ISSN: 1857 – 7881
15. **Ahmed Abu-Zaiton**, Muhammad Alu'datt, and Wafa Mohamed Ali.2015. Evaluating the Effect of *Foeniculum vulgare* Extract on Enzymes Related with Blood Pressure and Diabetes (In Vitro Study). International Conference on Nanotechnology, Biology & Medical Sciences (NBMS-15) Nov. 30-Dec. 1, 2015 Istanbul (Turkey).
16. Nizar Mhaidat, **Ahmed S. Abu-zaiton**, Karem H. Alzoubi, Wael Al zoubi and Rami Alaz.2015. Antihyperglycemic properties of *Foeniculum Vulgare* Extract in Ztreptozotocin-induced Diabetic in Rats. International journal of Pharmacology.11 (1):72-75. <https://doi.org/10.3923/ijp.2015.72.75>
- 17.Mahmoud Abu-samak, **Ahmed Abu-zaiton**, Ahmed Al-Jaberi,Ahmad Abu Sandookah. Omar Atrooz, Khalid M.Abu Khadra, Rula Kuzaie and Wamidh h.Talib.2014. Morning Salivary Cortisol Associates with Elevated Serum Leptin Levels in Jordanian Young Men with Olive Pollen Induced Allergic Rhinitis. British Journal of Medicine & Medical Research 4(3):797-806 <https://doi.org/10.9734/bjmmr/2014/5418>
- 18.**Ahmed Abu-zaiton** .2014. Effect of Metformin on proliferation of skin derived stem cells in the case of normoxia and hypoxia. Journal of Biological Sciences. 14(2):149-153. DOI:10.3923/jbs.2014.149.153
- 19.Ahed Al-khatib and **Ahmed Abu-zaiton**. 2013. The Prevalence of Helicbacter Pylori among Patients Complaining from Abdominal Pain. European Scientific Journal. Vol.9 No.30:358-363
- 20.**Ahmed Abu-zaiton** and Abdualah Al-Fawwaz. 2013. Prevalence of Diabetes, Obesity, Hypertension and Behavioral Risk Factors among Students of Al-albayt University. World Journal of Medical Sciences. 9(1): 49-54. DOI:10.5829/idosi.wjms.2013.9.175127
- 21.**Ahmed Abu-zaiton**. 2013. Evaluating the Effect of *Silybum marianum* Extract on Blood Glucose, Liver and Kidney Functions in Diabetic Rats. Advanced Studies in Biology.5 (10): 447 – 454. <http://dx.doi.org/10.12988/asb.2013.3936>

22. Muhammad H. Alu'datt , Khalil Ereifej , **Ahmed Abu-Zaiton** , Mohammad Alrababah , Ali Almajwal , Taha Rababah, and Wade Yang. 2012. Anti-oxidant, Anti-diabetic and Anti-hypertensive effects of extracted phenolic and hydrolyzed peptides from barley protein fractions. International Journal of Food Properties, 15(4):781–795, (**Scopus Q2**)
[DOI: 10.1080/10942912.2010.503357](https://doi.org/10.1080/10942912.2010.503357).
23. Wesam Al Khateeb, Emad Hussein, Lolita Qouta, Muhammad Alu'datt, **Ahmed Abu-zaiton**. 2012. In vitro propagation and characterization of phenolic content along with antioxidant and antimicrobial activities of Cichorium pumilum Jacq. Plant Cell Tiss Organ Cult. 110:103-110 .(**springer Q1**)
[DOI 10.1007/s11240-012-0134-9](https://doi.org/10.1007/s11240-012-0134-9).

□ CONFERENCES AND SCIENTIFIC MEETINGS

- **The 24th meeting of the Moldovan Society of Biochemistry and Molecular Biology.** April 7-8, 1999, Chisinau. Moldova State University .Republic Of Moldova. Oral presentation.
- **The 6th International Scientific Conference.** October 12-14, 2000, Chisinau. University of Medicine and Pharmacy, Chisinau. Republic of Moldova. Oral presentation.
- **International Conference of Biotechnology.** April 7-9, 2009, Taibah University, AlMedina Al-Monawarah. Saudi Arabia. Oral presentation.
- **Methods of assessment and evaluation/Ethics of higher education teaching/modern methods in higher education teaching:** 12.09.2010 (Al –Hussein Bin Talal University, Jordan).
- **International Conference on Medical, Biological and Pharmaceutical Sciences (ICMBPS'2012).** March 17-18, 2012 Bangkok (Thailand). Session chair.
- **International Conference on Nanotechnology ,Biology and Medical Sciences (CRMT-15) .** Nov.30-Dec. 1, 2015. Istanbul (Turkey).
- **International Conference on Emerging Trends in Materials Science, Technology and Engineering (ICMSTE2K21)-** 04.03.2021 to 06.03.2021, India, [online](#)
- **The Tenth Conference on Scientific Research in Jordan,** November,27,2021. Al-Ahliyya Amman University, Jordan.

Preparation of exams and analysis of their results/Modern methods in higher education teaching: 10.11.2009 (Al-Hussein Bin Talal University, Jordan).

Leadership skills: 1-2.02.2007 (Taif University, Saudi Arabia).

- **Statistics:** 22-29.11, 1.012.2006 (Taif University, Saudi Arabia).

□ SUPERVISION OF DOCTORATE THESES

- Effect of Cinnamon Extract on the Adipokines-Inflammatory Pathway and Insulin Resistance in an Obese/Diabetic Model of Male Albino Rats. Sultan Al-Rwis(2016).
- Effect of Alpha lipoic acid Extract on the Adipokines-Inflammatory Pathway and Insulin Resistance in an Obese/Diabetic Model of Male Albino Rats. Worood Abu Aloosh (2016).

□ SUPERVISION OF MASTER THESES

- Effect of Lead Toxicity on Hematological Parameters, Calcium and Behavior in Rat Treated with Mentha Piperita Extract. Yousef Khasalea (2016).
- Assessment of Vitamin D and Calcium supplementation on Diabetic Albino Rats. (Supervisor).student: Fatima Soluman salem(2015) .
- Evaluating the effect of F.volgar on liver and kidney functions in diabetic rats. Student: Faraj Khamees (2014).
- Evaluating the effect of *Foeneculum V.* on enzymes related to Diabetes and Hypertension. (Supervisor). Student: Wafa Mohamed Ali (2013).

□ MEMBERSHIP IN COMMITTEES OF MASTER THESES

- **Internal Examiner** in the M.Sc. thesis committee at Al-alBayt University. Thesis title: Evaluation of radioprotective effect of certain leaves extracts of Inula viscosa on y-irradiated male albino mice. Student: Worood Abu-Alloush. Date of defense 5.12.2011.
- **External Examiner** in the M.Sc. thesis committee at Yarmouk University. Thesis title: Prevalence and evaluation of vitamin B₁₂ deficiency among healthy Libyan people in Zliten Governorate. Student: Karima Edawib. Date of defense: 12.12.2012.
- **Internal Examiner** in the M.Sc. thesis committee at Al-alBayt University. Thesis title: Effect of Thymus capitatus on some biological parameters and histological changes of pancreas in diabetic rats. Student: Fayez Handam. Date of defense 1.2. 2013.
- **Extrenal Examiner** in the M.Sc. thesis committee at Yarmouk University.student:Ali Talafhe.2018
- **Extrenal Examiner** in the M.Sc. thesis committee at Yarmouk University.student:Moad Megdadi.2018
- **Extrenal Examiner** in the M.Sc. thesis committee at Petra University.student. Ameera Abu-dhair. 2019.
- **Internal Examiner** in the M.Sc. thesis committee at Al-alBayt University. Esra Abu Al hayja.2018.
- **Internal Examiner** in the M.Sc. thesis committee at Al-alBayt University. Hussei al shraa.2016.
- **Internal Examiner** in the M.Sc. thesis committee at Al-alBayt University. Haider Mahdi.2015.
- **Internal Examiner** in the M.Sc. thesis committee at Yarmouk University. Lena Tahat.2022.
- **Internal Examiner** in the M.Sc. thesis committee at Yarmouk University. Mosab Al on.2021.

□ INTERNATIONAL SCIENTIFIC SOCIETIES

- Member of the Saudi Society for Biology.
- Member in the Arab Scientists Organization.
- Arab Science and Technology Foundation (ASTF).
- **Reviewer** for many international journals.

□ COMMITEES IN THE UNIVERSITY

- Chair, Department of Biology (2020 – Till now)
- Representative of the Department of Biology in the Faculty Council (2012-2013).
- Member of the Study Plan Committee (2011 – 2012).
- Member of the Faculty Website Committee (2012 – 2013).
- Member of the Faculty Seminars and Conferences Committee (2011 – 2013).
- Member of the Higher Education Committee in the department (2011 – 2013).

□ ACADEMIC REFERENCES

1. **Prof. Abed Alrahim Al-hiniti**

Faculty of science. University of Jordan

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Phone 96253903333

2. **Prof. Basim Abdullah**

Professor of Nutrition, The University of Jordan.

Email: basem@ju.edu.jo

Phone 00962- 777845903

3. **Prof. Mohammad Al - Uodat**

Professor of Food Chemistry, Jordan University of Science and Technology.

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<https://www.aabu.edu.jo/EN/collegesandinstitutes/Science/Departments/Biological/Pages/ProfessorDetails.aspx?ItemId=2785>