

# Curriculum vitae

## Prof. Omar Mohammad Atrooz

### Personal Data

Name : Omar M. Atrooz  
Date of birth : ١٠,٠٩,١٩٦٤  
Place of Birth: Dair Abu Said-Irbid  
Nationality : Jordanian  
Marital Status: Married



### Address:

#### a) Mailing Address:

Dep. of Biological Sciences, Mutah University. P.O.Box (٧), Zipe code ٦١٧١٠. Mutah-Jordan. Mobile (Phone): ٠٠٩٦٢٧٩٧١٢٧٢٣٧

b) E-mail : [omihandd@yahoo.com](mailto:omihandd@yahoo.com); [omar\\_atrooz@hotmail.com](mailto:omar_atrooz@hotmail.com); [omihandd@gmail.com](mailto:omihandd@gmail.com)

### Education:

**PhD** : Biochemistry & Biotechnology  
Moscow State Academy of Fine Chemical Technology  
١٩٩٥ – Moscow, Russia.

**BSc** : Medical Technology, Faculty of Medicine  
Jordan University of Science & Technology  
١٩٨٨-Irbid, Jordan.

### Academic Status:

- ٢٠١٨-٢٠١٩ Full-time Professor. Department of Medical Laboratory Sciences, Jordan University of Science and Technology (JUST) (Jordan)/Sabbatical leave.
- ٢٠١٥-٢٠١٦ Dean of Faculty of Pharmaceutical Sciences, Mutah University.
- ٢٠١٤-٢٠١٥ Dean of Faculty of Science, Mutah University.
- ٢٠١٣-٢٠١٥ Full-time Professor. Head of Medical Laboratory Sciences Department, Mutah University.
- ٢٠١١-٢٠١٢ Full-time Associate Professor. Faculty of medicine, Najran University/ Sabbatical leave.
- ٢٠٠٨-٢٠١١ Full-time Associate Professor. Department of Biological sciences, Mutah University.
- ٢٠٠٦-٢٠٠٨ Full-time Associate Professor. Collage of Health Sciences, Abha-Saudia Arabia/ Sabbatical leave.
- ٢٠٠٤-٢٠٠٦ Full-time Associate Professor. Department of Biological sciences, Mutah University.
- ٢٠٠٢-٢٠٠٤ Full-time Assistant professor. Princess Muna College of Nursing, Mutah

University.  
١٩٩٨-٢٠٠٢ Full-time Assistant professor. Department of Biological sciences, Mutah University.  
١٩٩٦-١٩٩٨ Full-time Assistant professor. Collage of Medical Sciences, Al-Isra University

### **Professional Experience:**

٢٠١٥-٢٠١٦ Dean of Faculty of Pharmaceutical Sciences, Mutah University.  
٢٠١٤-٢٠١٥ Dean of Faculty of Science, Mutah University.  
٢٠١٣-٢٠١٥ Head of Medical Laboratory Sciences Department, Mutah University.  
٢٠١١-٢٠١٢ Academic advisor of Clinical Laboratory Sciences Department, Najran University.  
٢٠٠٨-٢٠٠٩ Head of Department of Biological sciences, Mutah University.  
٢٠٠٦-٢٠٠٨ Head of Medical Laboratories Department, Collage of Health Sciences/Abha-Saudi Arabia.  
٢٠٠٢-٢٠٠٤ Assistant Dean/Princess Muna College of Nursing, Mutah University.  
١٩٩٦-١٩٩٨ Head of Medical Sciences Department, Al-Isra University.  
١٩٩٥-١٩٩٦ Head of the Quality Control & Research Department, Diamond Company/Jordan.

### **Courses Taught:**

- Biochemistry
- Hematology
- Immunology
- General Biology
- Biochemistry Lab.
- Medical Analysis
- Clinical Chemistry
- Advanced Immunology ( master)
- Advanced Biochemistry ( master)

### **Committee Member:**

١. Dean of Faculty of Pharmaceutical Sciences, Mutah University.  
٢. Dean of Faculty of Science, Mutah University.  
٣. Head of Medical Laboratory Sciences Department, Mutah University.  
٤. Head of the Department of Biological Sciences/ Mutah University, ٢٠٠٩-٢٠١٠.  
٥. Head of the Department of Medical Laboratories/ Collage of Health Sciences/Abha- Saudi Arabia, ٢٠٠٨. (during sabbatical leave).  
٦. Member of the Faculty of Sciences Council/ Mutah University, ٢٠٠٥-٢٠٠٦.  
٧. Assistant Dean of Collage of Princess Muna for Nursing, ٢٠٠٢-٢٠٠٤.  
٨. Member of Collage of Princess Muna College of Nursing Council/ Mutah University, ٢٠٠٢-٢٠٠٤.  
٩. Member of Different Committees in the Department of Biological Sciences/ Mutah University, ١٩٩٩-٢٠٠٥.  
١٠. Member of Editorial Board of Mutah Magazine, ٢٠٠٠-٢٠٠١.  
١١. Supervisor for ٢٠ students in the Department of Biological Sciences/ Mutah University.

- ١٢. Member of Dissertation Committees of the master degree in the Department of Biological Sciences/ Mutah University.
- ١٣. Member of many Dissertation Committees of master degree in different universities (External Examiner).
- ١٤. Reviewer of the Academic Promotion of King Abdulaziz University.
- ١٥. Reviewer of Journal of Food Biochemistry.
- ١٦. Supervising the training medical laboratories students in various governmental and educational hospitals in Jordan and Saudi Arabia.

### **Research Interest:**

#### **١. Phyto-Biochemical Studies :**

Medicinal plants , Bioactive compound, Antioxidant activity, flavonoids content, polyphenolic content, reducing power, antihemolytic activity, antibacterial activity, antifungal activity.

#### **٢. Enzymological Studies:**

Extraction, Isolation, purification, enzyme kinetics, enzyme inhibition, enzyme immobilization, effects of heavy metals on antioxidant enzymes

#### **٣. Biochemical studies on Maillard Reaction Products.**

Formation, reducing power and antioxidant activities, purification of intermediate and final compounds.

#### **٤. Biochemical-Clinical studies:**

All hematological and biochemical parameters in all body fluids such as blood, urine, saliva,.....Also, include the interest in lactose intolerance and phenylketonuria studies

#### **٥. Nanoparticles (Green Technology) & Nanotechnology (Nanoliposomes):**

Formation of new models of nanoliposomes. Interaction of nanoliposomes with blood cells and body tissues. The study includes microscopic-nanoscope studies (Histo-Biochemical).

#### **٦. Industrial-Medicinal-Environmental Studies:**

The studies are concentrated on: Delactosed milk and whey, treatment of the waste products of whey industries, and on galacto-oligosaccharides.

### **Language Skills:**

Arabic Native  
 English Very good  
 Russian Very good

### **Editorial board and Reviewer of the following journals:**

American Journal of Food Technology  
 Asian Journal of Biochemistry  
 Asian Journal of Scientific Research  
 Asian Journal of Biological Sciences  
 American Journal of Biochemistry and Molecular Biology  
 Madridge Journal of Case Reports & Studies  
 Madridge Journal of Analytical Sciences and Instrumentation  
 Journal of Thermal Analysis and Calorimetry  
 Microbes and Infectious Diseases  
 SCIENCE DOMAIN international

## **Membership:**

Amnesty International

International Natural Product Sciences Taskforce (INPST)

Metabolomics Society

Biochemistry Professionals Social Network

Jordanian Association of Medical Sciences

The National Society for Phenylketonuria

The Science Advisory Board

International Professors Project

The Teaching Professors

China Pharma Biotech Professors Network

Environmental Science Student Group-International Professors Projects

## **Scientific Visits**

١. Scientific visit to Laboratory of Experimental Anticancer Therapy Hirsfeld Institute of Immunology and Experimental Therapy during the second semester, ١٠ February to ٢٢ May ٢٠١٧. Wroclaw, Poland.
٢. Scientific visit to the Department of Pharmacology and Immunotherapy, Veterinary Research Institute. ٤- ١٨ September ٢٠١٥, Brno, Czech Republic.
٣. Scientific visit to the Department of Lipid and Liposome, Faculty of Biotechnology, ١- ٢٤ September ٢٠٠٢, Wroclaw, Poland.

## **Honored courses:**

**Food for Thought** :a course of study offered by McGillX, an online learning initiative of McGill University through edX.

**Genomic Medicine Gets Personal**: a course of study offered by GeorgetownX, an online learning initiative of Georgetown University through edX.

**Aware of Confidence (TLC ١٠٠)**:EDRAAK

**Children's mental health (CMH ١٠٠)**:EDRAAK

**A successful CV (BA\_١٠٢)**:EDRAAK

## **Certificates and Workshops (Training )programs:**

**Using Advanced Mass Spectroscopy Technologies in Clinical and Forensic Applications.** Wednesday, ١st November ٢٠١٧, At InterContinental Amman / Ayla Hall. In cooperation between SCIEX and Taawon Company. Jordan.

**Quality and Accreditation Standards for Academic Programs** held in cooperation with the Scientific Association of Colleges of Science ٢٨ April ٢٠١٥. Qatar University, Qatar.

**Nanoscopy and Scientific Applications in Material and Biological Sciences.** Nanoscopy science Center; Faculty of Science, Kuwait University ٩-١٢ March, ٢٠١٥.

**UNESCO Ethics Teachers' Training Course** . ١٩-٢٣ October ٢٠١٤. The Hashemite University, Jordan.

**Guidance and supervision of the books** written on Life Sciences at the Ministry of Education ٢٠١٤.

**Writing competitive research projects:** ١٠ training hours, ٢٠١٢. Najran University. Saudi Arabia

**The use of technology in teaching** : ١٠ training hours, ٢٠١٢. Najran University. Saudi Arabia

**Systems of examinations and student assessment:** ١٠ training hours, ٢٠١٢. Najran University. Saudi Arabia

**Practical Workshop: How to write a successful scientific project.** Held in cooperation between The Higher Council For Science and Technology (HCST) and Development Center (Mutah University) and 24 February, 2010. Mutah University, Jordan.

**Certificate of permission for Mr. Omar Mohammad Atrooz to practice the profession of medical laboratory technician. Ministry of Health, 2018, Jordan.**

**Certificate: Mutah University Computer Driver License Course Reuirements (ICDL).** Offered by the Faculty of Development Center at Mutah University during 1<sup>th</sup> October 2008-12<sup>th</sup> January 2009. Jordan.

**Certificate: Statistical Packages For Social Sciences.** Offered by the Faculty of Development Center at Mutah University during 1<sup>st</sup> July-9<sup>th</sup> August 2009. Jordan.

**Certificate: MUIINTEL Course Reuirements (INTEL).** Offered by the Faculty of Development Center at Mutah University during 1<sup>st</sup> July-18<sup>th</sup> August 2009. Jordan.

### **Scientific Networking Sites:**

**Website:** <https://atroozbiochemistry.wordpress.com/>

**ResearchGate:** Prof. Omar M. Atrooz

[https://www.researchgate.net/profile/Prof\\_Omar\\_Atrooz?ev=hdr\\_xprf](https://www.researchgate.net/profile/Prof_Omar_Atrooz?ev=hdr_xprf)

**The Science Advisory Board website:** <https://www.scienceboard.net/>

**LinkedIn:** Prof. Omar Atrooz (<http://www.linkedin.com>)

**Researcher ID:** <http://www.researcherid.com/rid/F-9110-2014>

**ORCID:** Omar Atrooz (<http://orcid.org/0000-0003-610-0201>)

**Google Scholar Citation:** Prof. Omar M. Atrooz (<http://scholar.google.com/>)

**Scopus:** Scopus Author Identifier -(Atrooz Omar).

**Skilpages:** Omar Atrooz

**Instagram:** [www.instagram.com/omihandd](http://www.instagram.com/omihandd)

**Academia.edu:** [www.mutah.academia.edu/profOmarAtrooz](http://www.mutah.academia.edu/profOmarAtrooz)

**Blogs:** <https://atroozbiochemistry.blogspot.com/>

**Skype:** Omar Atrooz

**LiveDNA Profile:** <http://livedna.org/962,119.2>

**Mendeley:** <https://www.mendeley.com/impact/omar-atrooz/>

**Web site:** <https://wordpress.com/stats/day/atroozbiochemistry.wordpress.com>

**Web of science researchID:** <https://publons.com/researcher/9027800/omar-atrooz>

**Resarchgate ID:** [https://www.researchgate.net/profile/Prof\\_Omar\\_Atrooz](https://www.researchgate.net/profile/Prof_Omar_Atrooz)

**Zoom meeting:**

<https://us01web.zoom.us/j/707204883?pwd=NHF0dDlDlVjBCRDdiTEVDbHZlL3Bodz09>

### **Citation Indices:**

**Web of Science ResearcherID (publons):** Citation 44; h-index 3, verified reviews 9

**Web of Science ResearcherID (publons):** [F-9110-2014](https://publons.com/researcher/F-9110-2014). publications: 28.

**Google Scholar:** Citations 418; h-index 8; i10-index 8

**Researcher ID:** Citations: 118; Recommendations: 44; Publication List: 37

**Scopus: Atrooz, Omar** Document: 17; Citation 113; h-index 6

**Mendeley: Omar Atrooz** Document: 17; Citation 113; h-index 6

### **Conferences:**

1. The 2<sup>nd</sup> International Conference on “Veterinary Biochemistry and Clinical Biochemistry: Advances and challenges in understanding the mechanism of

- diseases” in October ٢٤-٢٦, ٢٠١٩. Department of Biochemistry, Faculty of Veterinary Medicine of Ankara University in Turkey.
٢. **The ٥<sup>th</sup> International Conference on Biochemistry and Molecular Biology.** ١٥-١٧ March , ٢٠١٨ in Vienna, Austria at the Adagio Vienna City.
  ٣. **Health Informatics: Acritical Need in Jordan and Palastine( HiCure).** Scientific Day. ٢٩ October ٢٠١٧, Hashemite University, Jordan.
  ٤. **The International Dimention of Erasmus+ in Higher Education** ٢٠١٨. Monday, ٩<sup>th</sup> October ٢٠١٧. Le Royal Hotel, Amman, Jordan.
  ٥. **The Seventh Conference on Scientific Research in Jordan.** Saturday, ١٤-١١-٢٠١٥. Middle East University.
  ٦. **The Second National Erasmus Plus Conference** (Higher Education Cooperation Day), Monday, ٩<sup>th</sup> November ٢٠١٥. Jordan.
  ٧. **The First National Erasmus Plus Conference** (Higher Education Cooperation Day), Monday, ٨<sup>th</sup> December ٢٠١٤. Le Royal Hotel Amman, Jordan.
  ٨. **The ١<sup>st</sup>Annual Scientific Day/** Clinical Laboratory Sciences Department, Najran University, ١٢<sup>th</sup> February, ٢٠١٢.
  ٩. **Amphiphiles and Their Aggregates in Basic and Applied Science.** Wroclaw/Poland, May ٢٠٠٥.
  ١٠. **The ١<sup>st</sup> Conference/ The ٣<sup>rd</sup> Scientific day of faculty of Science and Arts.** Jordan University of Science and Technology, ٢٠٠٠. Irbid, Jordan.
  ١١. **The ١<sup>st</sup> Conference in Biochemistry and Its Applications (CIBAIA).** ٢-٣ November, ١٩٩٩, Yarmouk University, Irbid, Jordan.
  ١٢. **The ٨<sup>th</sup> Arab Conference of Clinical Biology/ The ١<sup>st</sup> Jordanian Conference of Medical Laboratory Science.** ٢٨ April- ١ May, ١٩٩٧. Royal Cultural Center, Amman –Jordan.
  ١٣. **The Fifth National Congress of Organ Respiratory Diseases.** ١٠-١٧ March, ١٩٩٥. Moscow, Russia.
  ١٤. **The ٣<sup>rd</sup> Liposome Research Day Conference.** June, ١٩٩٤. Vancouver, British Columbia, Canada,
  ١٥. **The VI Symposium in Biochemistry of Lipids.** October, ١٩٩٤. San-Petersburg, Russia.

## **Published Articles**

١. **Omar Mohammad Atrooz,** Nooh Khair AlKhamaisa, Ibrahim M. AlRawashdeh. Determination of the activity and kinetic parameters of polyphenol oxidase enzyme in crude extracts of some Jordanian plants. Journal of Applied Biology & Biotechnology Vol. ٨(٠٤), pp. ٦٩-٧٤, July-Aug, ٢٠٢٠.
٢. **Omar M. Atrooz,** Joanna Wietrzyk, Beata Filip-Psurska, Ibrahim Al-Rawashdeh, Manal Soub and Mohammad H. Abukhalil. Antiproliferative, Antioxidant, and Antibacterial Activities of Crude Plant Extracts of Asphodeline Luteal L. and Peganum Harmala L. World Journal of Pharmaceutical Research. ٢٠١٨;٧(١١): ١٤٨-١٦٧.
٣. **Reham D. Alghonmeen, Omar M. Atrooz and Mohammad H. Abukhalil.** Correlation of Prolactin with Thyroid Stimulating Hormone and Female Sex

Hormones in Infertile Women. International Journal of Advanced Research. ٢٠١٧; ٥(٢): ١٥٥١-١٥٥٧.

٤. Tariq H. Shloul, **Omar M. Atrooz**, Mohammad H. Abukhalil. Influence of pH, Temperature and Various Heavy Metals on  $\beta$ -galactosidase Activity in the Crude Extract of *Pleurotus ostreatus*. Journal of Applied Biotechnology. ٢٠١٧; ٥(١): ٢٩-٤٢.

٥. **Omar M. Atrooz**. Characterization and Effects of  $\beta$ -Galactosidase in the Crude Extracts of *Cuminum cyminum* and *Curcuma longa* in Preparation of Delactosed Milk and Whey. Journal of Applied Biotechnology. ٢٠١٧; ٥(١): ١-١٣.

٦. **Omar M. Atrooz**, Manar A. Al-Btoush, Ibrahim M. Al-Rawashdeh. Heavy Metals Effect on the Activity and Kinetics of Peroxidase Enzyme in Crude Extracts of *Rosmarinus officinalis* and *Eruca sativa*. International Journal of Biochemistry Research & Review. ٢٠١٦; ١٥(١): ١-٨.

٧. **Omar M. Atrooz**, Mohammad H. Abukhalil, Ibrahim M. AlRawashdeh. Characterization of  $\beta$ -galactosidase in the Crude Plant Extract of *Artemisia judaica* L. in Presence and Absence of Some Heavy Metals. American Journal of Life Sciences. ٢٠١٦; ٤(٥): ٩٩-١٠٥.

٨. Mahmoud Abu-Samak , Ahmad Abu-Zaiton , Ahmad Al-Jaberi , Ahmad Sundookah , **Omar Atrooz** , Khalid M. Abu khadra , Rula Kuzaie and Wamidh H. Talib. 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. ٢٠١٤; ٤(٣): ٧٩٧-٨٠٦.

٩. **Omar M. Atrooz**. The Effects of *Cuminum cyminum* L. and *Carum carvi* L. Seed Extracts on Human Erythrocyte Hemolysis. International Journal of Biology. ٢٠١٣; ٥(٢): ٥٧-٦٣.

١٠. **Omar M. Atrooz**. Formation of Highly Antioxidative Liposomes from Crude Acetone Extracts of *Canna indica*, *Cucumis melo* and *Prunus armeniaca*. Asian Journal of Biochemistry. ٢٠١٢; ٧(٤): ٢١٨-٢٢٥.

١١. **Omar M. Atrooz**. Some Properties of the Polyphenol Oxidase from *Cyclamen persicum*. Bulletin of Faculty of Agriculture-University of Cairo. ٢٠٠٩; ٦٠: ٤٠٨-٤١٤.

١٢. **Omar M. Atrooz**. The Antioxidant Activity and Polyphenolic Contents of Different Plant Seeds Extracts. Pakistan Journal of Biological Sciences. ٢٠٠٩, ١-٦.

١٣. **Omar M. Atrooz**. The effects of Maillard reaction products on apple and potato polyphenol oxidase and their antioxidant activity. *International Journal of Food Science and Technology* ٢٠٠٨, ٤٣, ٤٩٠-٤٩٤.
١٤. **Omar M. Atrooz**, Moayed A. Al-Sabayleh and Soud Y. Al-Abbadi. Studies on Physical and Chemical Analysis of Various Honey Samples and Their Antioxidant Activities. *Journal of Biological Sciences*. ٢٠٠٨, ٨(٨), ١٣٣٨-١٣٤٢.
١٥. **Omar M. Atrooz**, Ayed A. Omary, Wael A. Khamas, Abd Al-Qader J. Al-Shaikhly & Mohammed M. Salim. The effects of alcoholic extract of *Arbutus andrachne* on some biochemical parameters and visceral organs in rats. *International Journal of Food Science and Technology* ٢٠٠٧, ٤٢(٩), ١٠٤٦-١٠٥١
١٦. **Omar M. Atrooz**. The Incorporation Effects of Methanolic Extracts of Some Plant Seeds on the Stability of Phosphatidylcholine Liposomes. *Pakistan Journal of Biological Sciences*. ٢٠٠٧, ١٠(١٠), ١٦٤٣-١٦٤٨.
١٧. **Omar Atrooz**, Moh'd Harb and Mazen Al-Qato. The Polyphenolic Contents and Antioxidant Activity of Extracts of Different Plant Seeds. *Mutah Lil-Buhuth Wad-Dirasat*. ٢٠٠٧; ٢٢(٢): ١١-٢٣.
١٨. Mozafari M.R. and Mortazavi S.M. *Nanoliposomes: From Fundamentals to Recent Developments*. ٢٠٠٧. Trafford Publishing Co. Ltd., UK. ISBN ١-٤١٢٠-٥٥٤٥. Part of this book. Chapter ٢: Liposome-Cell Interactions in Vitro. Pp ٥١-٦٤. By S.M. Mortazavi, **O.M. Atrooz** and M.R. Mozafari.
١٩. **Omar M. Atrouse**, Sawsan A. Oran & Soud Y. Al-Abbadi. Chemical analysis and identification of pollen grains from different Jordanian honey samples. *International Journal of Food Science and Technology*. ٢٠٠٤, ٣٩, ٤١٣-٤١٧.
٢٠. **Omar Moh'd Atrouse**. The Effects of Liposome Composition and Temperature on the Stability of Liposomes and the Interaction of liposomes with Human Neutrophils. *Pakistan Journal of Biological Sciences*. ٢٠٠٢; ٥(٩): ٩٤٨-٩٥١.
٢١. Jumah Shakhaneh and **Omar Atrouse**. Teucrium polium Inhibits Nerve Conduction and Carrageenan Induced Inflammation in the Rat Skin. *Turk J Med Sci*. ٢٠٠١; ٣١: ١٥-٢١.
٢٢. **Omar Atrouse** and Suleiman Tashtoush. A New Approach for Measuring the Osmotic Fragility of Red Blood Cells of Smokers and Diabetic Patients. *Mutah Lil-Buhuth Wad-Dirasat*. ٢٠٠١; ١٦(٤): ٣١-٤٠.



٢٣. Selischeva, A.A., **Atruz, O.M.**, Sorokoumova, G.M., (...), Vasilenko, I.A., Chuchalin, A.G.. Effects of liposomes of different phospholipid composition on the induction of respiratory burst in human blood monocytes and alveolar macrophages. *Membrane and Cell Biology*. ٢٠٠١  
١٤(٥), pp. ٦٣٧-٦٤٧.
٢٤. **Omer M. Atrouse**. The Effects of Cigarette Smoke on Some Hematological Parameters in Human .Mutah Lil-Buhuth Wad-Dirasat. ٢٠٠٠; ١٥ (٣): ٥٣-٦٥.
٢٥. **Omer M. Atrouse** & Mazen K. Qato. Analysis of phospholipids composition of erythrocytes extracted from cigarette smokers. *Abhath Al-Yarmouk*. ٢٠٠٠; ٩: ١٢٥-١٣٢
٢٦. **Atruz, O.M.**, Selishcheva, A.A., Sorokoumova, G.M., Vasilenko, I.A. Induction of oxygen burst in human blood monocytes by liposomes of various composition. *Bulletin of Experimental Biology and Medicine*. ١٩٩٨; ١٢٦(٧), pp. ٦٩٧-٦٩٩.
٢٧. **Atruz, O.M.**, Selishcheva, A.A., Sorokoumova, G.M., Vasilenko, I.A. Oxygen burst in human blood monocytes induced by liposomes with the various lipid composition | [Induktsiia kislородnogo vzryva v monotsitakh krovi cheloveka liposomami razlichnogo lipidnogo sostava.]. *Biulleten' eksperimental'noi biologii i meditsiny*. ١٩٩٨; ١٢٦(٧), pp. ٦٣-٦٥.
٢٨. **Atruz, O.M.**, Selishcheva, A.A., Sorokoumova, G.M. *et al.* Interaction of alveolar macrophages from pulmonary patients and healthy subjects with liposomes. *Bull Exp Biol Med* ١٢٤, ١٠٧٨-١٠٨٠ (١٩٩٧).  
<https://doi.org/10.1007/BF02440666>

## References:

### **Prof. Marwan S. Mousa**

Vice Presedent of Mutah Univeresity  
Humboldt Ambassador Scientist  
President of the Jordanian Club of Humboldt Fellows  
President of the Jordanian Physics Society  
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### **Prof. Dr. Aymen I. Zreikat, Professor,**

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**Prof. Joanna Wietrzyk**

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