

CURRICULUM VITAE

PERSONAL INFORMATION:

Name: Zeyad Jalal El-Akawi (Jreisat)

Date of Birth: October / 1959

Place of Birth: Al-Fuhais – Jordan

Nationality: Jordanian

Marital Status: Married

Number of Children: Three

Languages: English, Russian and Arabic

Business Address: Department of Physiology and Biochemistry
Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan, 22110

Home Address: Al-Fuhais - Jordan; Postal Code 19152
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EDUCATION:

- **High School**, August 1977
Al-Fuhais - Jordan

- **Medical Doctor (M.D.)**, June 1984
Patrice Lumumba University
School of Medicine
Moscow - Russia

- **M.A.**, February 1994
Department of Biochemistry
School of Medicine and Biomedical Sciences
And School of Dental Medicine
State University of New York at Buffalo
140 Farber Hall
Buffalo, New York 14214, USA

- **Ph.D.**, September 1996
Department of Biochemistry
Roswell Park Cancer Institute
State University of New York at Buffalo
Elm and Carlton Streets
Buffalo, New York 14263, USA

QUALIFICATIONS:

Certificate in Russian language and literature, 1978
Jordan Medical Association Internship in General Medicine and Surgery, 1986
Jordan Medical Council Certificate in Basic Medical Sciences/Biochemistry, 13-11-1996
Jordan Ministry of Health License/Director of a Clinical Laboratory, 24-10-2001

APPOINTMENTS:

Clinical Internship: - Lousmaila Hospital
Amman-Jordan (1984/1985)

- Ministry of Health
Al-salt Hospital
Al-salt-Jordan (1985/1986)

General Practitioner: - Royal Medical Services
Amman – Jordan (1986 - 1988)

- School of Medicine Health Center
Jordan University of Science and Technology
Irbid - Jordan (1988 - 1991)

Teaching Assistant: - Department of Biochemistry
Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (1991)

- Department of Biochemistry
School of Medicine and Biomedical Sciences
And School of Dental Medicine
State University of New York at Buffalo
140 Farber Hall
Buffalo, New York 14214, USA (1992)

Assistant Professor: Department of Biochemistry and Molecular Biology
Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (20/10/1996-25/4/2006)

Associate Professor: Department of Biochemistry and Molecular Biology
Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (25/4/2006-28/7/2013)

Professor of Biochemistry and Molecular Biology:

Department of Physiology and Biochemistry
Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (28/7/2013 to present)

Head of the

Biochemistry Division: Department of Physiology and Biochemistry
Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (1/9/1997-1/9/1998)

Chairman: Department of Biochemistry and Molecular Biology
Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (1/9/1998 – 1/9/2002)

Assistant Dean: Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (1/9/2002 – 1/9/2003, 1/9/2004 – 1/9/2005)

Assistant Dean: Faculty of Medicine,
and Chairman: Department of Biochemistry and Molecular Biology, Faculty of Medicine
Jordan University of Science and Technology
Irbid – Jordan (1/9/2005 - 1/9/2006)

Vice Dean: Faculty of Medicine,
and Chairman: Department of Biochemistry and Molecular Biology, Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (1/9/2006 - 1/9/2007)

Vice Dean: Faculty of Medicine,
Jordan University of Science and Technology
Irbid - Jordan (1/9/2007 – 1/9/2011)

(I was appointed by the Dean many times to take responsibility and act as a Dean Faculty of medicine during his absence)

Acting Dean: Faculty of Medicine,
Jordan University of Science and Technology,
Irbid – Jordan.

(11-2010 to 12-2010, transition period to name a new dean)

Deputy Chief Executive Officer and Chairman of Tendering Committee:
King Abdullah the Second Teaching Hospital
Irbid-Jordan (2010-2013)

Dean: Faculty of Medicine
Al-Balqa' Applied University
Salt – Jordan (13/9/2015 to present time)

Deputy Head: Committee of The Medical and Pharmaceutical Sciences Section / Scientific Research Support Fund / Ministry of Higher Education and Research (6-2015 to present time).

Joint Appointment: Department of Medical Laboratory Sciences,
Faculty of Medicine
Jordan University of Science and Technology
Irbid - Jordan (1997-2000)

Joint Appointment: Department of Medical Laboratory Sciences,
Faculty of Allied Health Sciences
Jordan University of Science and Technology
Irbid - Jordan (2000 - 14/4/2014)

Supervisor in Clinical Biochemistry Laboratory: Ministry of Health, Medical Laboratories
Princess Basma Teaching Hospital
Irbid - Jordan (1997 - 2001)

TEACHING EXPERIENCE:

Undergraduate Courses:

- Biochemistry for Medical, Dental, Nursing, Pharmacy, and Medical Laboratory Sciences students.
- Molecular Biology and Human Genetics for, Medical, and Medical Laboratory Sciences students.
- Clinical Chemistry for Pharmacy students.
- Clinical Chemistry for Medical Laboratory Sciences students.
- Biochemistry Laboratory for Medical, Dental, Nursing, Pharmacy, and Medical Laboratory Sciences Students.
- Clinical Chemistry Laboratory for Medical Laboratory Sciences students.
- Cardiovascular System (CVS), Biochemistry part
- Urino-Genital system (UGS), Biochemistry and Human Genetics parts
- Musculoskeletal and Integumentary System (MSS), Biochemistry and Human Genetics parts
- Gastrointestinal Tract System (GITS), Biochemistry part

Postgraduate Courses Master Degree Level:

- Advanced Medical Biochemistry
- Advanced Molecular Biology
- Advanced Clinical Chemistry
- Advanced Topics in Clinical Chemistry
- Advanced Techniques in Clinical Chemistry
- Pathogenesis
- Special Topics in Genetics
- Special Topics in Clinical Chemistry
- Advanced Biochemistry
- Special Topics in Molecular Biology
- Advanced Topics in Metabolism
- Teaching Skills
- Special Topics in Biochemistry

SUPERVISED WORK:

- Advisor, Partnerships for Health Reform Project by Mazhar Salim Al-Zoubi, titled: **Health Workers Motivation Studies, October 1999 to July 2000.**

MASTER THESIS ADVISOR:

- Master thesis project by Fatin K. Al-Hindawi, titled: **Determination of Alpha-1 Antitrypsin Blood level & Phenotypes in Breast, Lung & Prostate Cancer Patients.** Graduated, May 2002.
- Master thesis project by Nisreen Abdel-latif Nimer, titled: **The Relationship Between Blood Lipids Profile, Antioxidants Vitamins and Acne.** Graduated, May 2003.
- Master thesis project by, Aymen M. Abu Awad, titled: **Diagnostic Value of Alpha-1 Antitrypsin and Neopterin as Tumor Markers in Lung and Prostate Cancer.** Graduated, Aug 2003.
- Master thesis project by, Dima Hakam Sawalha, titled: **Alpha-1 Antitrypsin Genotypes in Breast Cancer Patients.** Graduated, May 2004.
- Master thesis project by, Khadijeh Jali Salameh Al-Namarnah, titled: **Genotype-Phenotype analysis of sickle/ β -thalassemia in North of Jordan.** Graduated, May 2004.
- Master thesis project by, Mohammed Kamal Mahmoud Alrousan, titled: **Alpha-1 Antitrypsin genotypes in Bladder and Colon cancer tissue.** Graduated, June 2004.
- Master thesis project by, Yousef Mahmoud Yousef Aljawarneh, titled: **Prognostic value of alpha-1 antitrypsin in newly diagnosed acute myocardial infarction patients, in correlation with other cardiac markers: (CPK, CK-MB, Myoglobin and TnT) in diabetic and non-diabetic patients.** Graduated, June 2005.
- Master thesis project by, Maysoon A. Garabeh, titled: **Use of Molecular Biology Methods in The Identification of Burkholderia Cepacia Complex in Jordanian Cystic Fibrosis Patients.** Graduated, June 2005.
- Master thesis project by, Dana Hattab, titled: **The Frequency of Human Leukocyte Antigen (HLA) Alleles DQA1*0501- DQB1*0201 Genotype among Jordanian Celiac Disease Patients and Their First Degree Relatives.** Graduated, January 2007.
- Master thesis project by, Ahmad Saleh Mansour, titled: **Association of celiac disease with CTL4 +49 A/G and TNF α 308 G/A polymorphisms in Jordanian patients.** Graduated, December 2007.

MASTER THESIS COADVISOR:

- Master thesis project by, Amani Abed Alkarim Elayan, titled: **The Correlation Between Increased Homocysteine Level and Unexplained Recurrent Miscarriage.** Graduated, May 2000.
- Master thesis project by, Marion Mohammad Al-Shraideh, titled: **Paraoxonase; Activity and Genotypes and Their Relationship With Coronary Heart Disease in Type II Diabetic Patients in Jordan.** Graduated, June 2004.
- Master thesis project by, Hiba Ziad Ali Abu Zayyad, titled: **Juvenile Parkinson's Disease In Jordan; Types of Mutations & Inheritance.** Graduated, May 2004.

- Master thesis project by, Foad Easa Ahmed Al Zoughool, titled: **Alpha-1-antitrypsin genotypes in Lung cancer patients**. Graduated, May 2004.
- Master thesis project by, Seham M. Makahleh, titled: **Short-Term effect of pomigranate juice on blood sugar and its controlling hormones in pre-diabetic and type-II diabetic patients**. Graduated, Aug 2013.

COMMITTEE MEMBER / MASTER THESIS:

- Nancy Harbi Fugaha, titled: **The Effect of Truffle Extracts on Cataract Formation**. May 1999, (Jordan University of Science and Technology).
- Ayman Muhammed Abu Hadwan, titled: **Prevalance of Factor V:Q506 Leiden in Thromboembolic Patients That Causes Protein C Resistance**. June 1999, (Jordan University of Science and Technology).
- Emad Abdulla Abed, titled: **A Comparative Study of Plasma Renin Activity, Aldosterone and Atrial Natriuretic Hormon in Normotensive and Hypertensive People Living at Above And Below Sea Level Altitudes**. May 2000, (Jordan University of Science and Technology).
- Hanan Mohammed Yahya, titled: **The Relationship of Various Cord Blood Hormones With Birth Weight And Gestational Age in Jordanian Newborns**. August 2000, (Jordan University of Science and Technology).
- Ahmad Mohammed Al-Bashaireh, titled: **Detection of Hepatitis C Virus by PCR in Thalassemia Patients in North Jordan**. May 2001, (Jordan University of Science and Technology).
- Omar M. F. Bashabsheh, titled: **Cytotoxicity of Dental Casting Alloys Used in Dental Laboratories in Jordan**. May 2001, (Jordan University of Science and Technology).
- Mohammad Jamil Ahmad Salim, titled: **Phenotype Genotype Correlation in Thalassemic Patients in North Jordan**. August 2001, (Jordan University of Science and Technology).
- May Abdul Hadi Al-Fouadi, titled: **Role of FGF-2 and VEGF in the Pathogenesis of Diabetic Microvascular Complications**. May 2002, (Jordan University of Science and Technology).
- Taha Abdal Aziz Saeid Kaid, titled: **Biotyping & Antibiogram Pattern of Helicobacter Pylori from Variuos Upper Gastrointestinal Diseases & Non-ulcer Dyspepsia in Irbid**. May 2002, (Jordan University of Science and Technology).
- Mohammed Ahmad Suleiman Bani-Ahmad, titled: **Incidence of Factor V G1691A (Leiden) and Prothrombin G20210A Polymorphisms, Among Healthy Jordanian Population**. December 2003, (Jordan University of Science and Technology).
- Nuha Mohammed El-Abbadi, titled: **Potential Use Of Y-STR Markers In Forensic Analysis And Paternity Testing**. December 2005, (Jordan University of Science and Technology).
- Reem Reyad Tbaishat, titled: **Mitochondrial Genome Variation Among Jordanian Population: Forensic Application**. January 2008, (Jordan University of Science and Technology).
- Redha Abdullah Qahtan, titled: **Levels of Homocysteine, Folate and Vitamin B12 in Selected Samples of Jordanian Population**. May 2009, (Jordan University of Science and Technology).

- Fatimah Awwad Salim, titled: **Incidence of Human Papilloma Virus in Lung Cancer in Northern Jordan**. December 2011, (Jordan University of Science and Technology).
- "Khalil Alrahman" Yousef Abuzaideh, titled: **Causative Genes For Retinitis Pigmentosa In Jordanian Families With X-Linked Retinitis Pigmentosa (XLRP)**. May 2012, (Jordan University of Science and Technology).

EXTERNAL EXAMINER:

- Master thesis by Adam Osman Abaker, titled: **Comparative Study of Biochemical Characters of Parvalbumin From White Skeletal Muscles and Other Tissues (Testes and Ovaries) of Lizard Family: Agamidae (Agama pallida), and (A. stellio stellio)**. May 2001, (Yarmouk University).
- Master thesis by Laila M. Marashdeh, titled: **Isolation, Purification & Characterization of the Enzyme O-Acetylserine Sulphydrylase from Fruits of Four Species Belonging to Four Families of the Order Capparales Senu Cronquist**, December 2001, (Yarmouk University).
- Master thesis by Ammar Abdel Karim Ali Al-Obiedat, titled: **The Analysis of Human Skeletal Remains From Ya'amun (Late Roman Early Byzantine Site)**. August 2002, (Yarmouk University).
- Master thesis by Raed M. S. Akel, titled: **Homocysteine Levels in Patients with Myocardial Infarction**. March 2004, (Jordan University).
- Master thesis by Alaa abu-Hilo, titled: **The role of antioxidant (metallothionine, morin, and trolox) in the protection of mice against microcystin toxicity**. July 2007, (Yarmouk University).
- Master thesis by Mohammad Ahmad Wahsha, titled: **Biochemical studies of the role of nutritional antioxidants (naringin, hesperidine and silymarin) in the protection of mice liver against microcystin-LR toxicity**. April 2008, (Yarmouk University).
- Master thesis by Rym Abdelmalek Merabet, titled: **Biochemical Investigations of the Protective Role of Anthocyanin and Taurine against Microcystin Induced Pancreatic and Testicular Toxicity in Balb/c mice**. December 2009, (Yarmouk University).
- Ph.D. thesis by Aymen M. Abu Awad, titled: **Prevalence of Transcobalamin II SNPs in the Jordanian Population and their Relation to Vitamin B12 Defeciency**. November 2011, (Jordan University).

COMMITTEES:

- Member, Committee of Scientific Research, Jordan University of Science and Technology, Faculty of Medicine 1996-2000, 2003-2004.
- Member, Committee of Courses Accreditation, Jordan University of Science and Technology, Faculty of Medicine 1997 to present.
- Member, Faculty of Medicine Council, 1996 – 2011.
- Member, Committee of Chemistry for Biosciences, to compare and evaluate the Chemistry Course that taught to Biological Sciences students at Jordan University of Science and Technology (Chemistry 101, 102, 105 and 106) with the Chemistry Course that taught at high school and create new courses that fit the needs, 1998.
- Member, Scientific and Consultative Committee of Mir'at Altechnologia (Technology Mirror), Informative, Scientific, Cultural, Periodical Issued by Jordan University of Science and Technology (JUST). 1997-1999.
- Member, Committees to Evaluate Scientific Work Submitted for Promotion Purposes, Jordan

University of Science and Technology, Faculty of Medicine

- Member, Curriculum Development and Evaluation Committee at Jordan University of Science and Technology, Faculty of Medicine, 1997-2012, 2014. Development of a new curriculum for Medical Laboratory Sciences students (undergraduate and master degree). Development of a new curriculum (System Based Teaching) for Medical, Dental, and Doctor of Pharmacy students.
- Member, Committee of the Graduate Studies, Jordan University of Science and Technology, Faculty of Medicine, Department of Medical Laboratory Sciences, 1997-2000.
- Member, Committee of the Graduate Studies, Jordan University of Science and Technology, Faculty of Medicine, Department of Biochemistry and Molecular Biology, 2004-2012.
- Member, Committee of the Graduate Studies, Jordan University of Science and Technology, Faculty of Medicine, 2004-2009.
- Member, Academic Advisory Committee, Jordan University of Science and Technology, Faculty of Medicine.
- Representative of the faculty of medicine in the council of the faculty of higher education 2004-2005.
- Member, Medical Education Group/Faculty of medicine, 2001-2012.
- Member, Ministry of Higher Education and Research/accreditation committee of medical and biomedical sciences certificates obtained from Medical and Biomedical Institutions other than Jordanians, 2007-2010.
- Member, Examination Committee in Basic Medical Sciences, Faculty of Medicine, Jordan University of Science and Technology. 2009-2010.
- Chairman, committee responsible for the process of accreditation of the medical school at Jordan University of Science and Technology performed by the National Higher Education Accreditation Commission / Jordanian ministry of higher education (11-2010).
- Member, Committee of The Medical and Pharmaceutical Sciences Section / Scientific Research Support Fund / Ministry of Higher Education and Research (5-2014 to present time).

WORKSHOPS, SYMPOSIUMS AND TRAINING:

- Training in Basic Radiation Safety, Roswell Park Cancer Institute, Department of Occupational and Environmental Safety, 1994.
- Workshop on Teaching and Evaluation Technology. Held at Jordan University of Science and Technology (Jordan University of Science and Technology), 17 to 21-January, 1998.
- Workshop on LC-MS, Held in Amman 7-July, 1999.
- Symposium on Modern Lab Techniques, in FT-IR, IC, TLC, and TOC. Held at Amman University, May 26-27-1999.
- Workshop on Medical Education in the 3rd Millennium "Issues, Challenges & Strategies" which was jointly organized by the World Health Organization, the Eastern Mediterranean Regional Office (WHO/EMRO), Jordan University of Science and Technology, and the World Federation of Medical Education Association of Medical Education in the Eastern Mediterranean Region (WFME/AMEEMR), held in Irbid at Jordan University of Science and Technology from 11-13 June 2000.
- Workshop on Content and assessment strategies in an integrated medical curriculum. Held at Jordan University of Science and Technology, Faculty of Medicine in 19 April, 2001.
- Workshop on Evidence Based Medicine. Held at Jordan University of Science and Technology, Faculty of Medicine in 12 April, 2001.
- Workshop on Education and Evaluation. Held at Jordan University of Science and Technology, 4-6-February, 2001.
- Workshop on Integrated Medical Curriculum. Held at Jordan University of Science and Technology, Faculty of Medicine, 28- February to 1-March, 2001.
- Workshop on System Based and Problem Based Teaching that have been adopted in the following Medical Schools: Edinburgh, Glasgow, Aberdeen, Dundee, Newcastle. Organized by University of Edinburgh, Medical School, United Kingdom, 17-22-May-2001.
- Workshop on continuous medical education. Which jointly organized by the World Health

- Organization and Jordanian Ministry of Health. Held in Amman 24 – 25 of February 2003.
- Workshop on Problem-Based Learning (Expanding Horizons in Problem-Based Learning). Held in Holand at Maastricht University, Faculty of Medicine 16-27 of June, 2003.
- Symposium on Chip-Based Technologies for cancer research and Diagnostics. Held in Molde, Norway June 2005.
- Workshop on accreditation-FMJJUST. Held in Petra, Jordan 11 and 12 of May 2007.
- Workshop on Medical Education, assessment methods in basic and clinical sciences. Held at Jordan University of Science and Technology, Irbid/Jordan 19 and 20 of May 2007.
- Workshop on Curriculum Reform at Faculty of Medicine Jordan University of Science and Technology (FMJJUST), held in the Dead Sea from 1-3/2/2008. Talk presented: improving curricular integration to reflect priority health problems.
- Workshop on Team-Based Learning, Held at Jordan University of Science and Technology, Irbid/Jordan 4th of May 2008.
- Workshop; Curriculum Review and Design / Faculty of Medicine / Jordan University of Science and Technology Conducted by JUST in collaboration with WHO 8th and 9th of April 2011, Holiday Inn Resort, Dead Sea.
- To improve Small Group Discussions in integrated curriculum / Faculty of Medicine / Jordan University of Science and Technology, Conducted by Faculty of Medicine / Jordan University of Science and Technology on 17-4-2013. My presentation was on "The Current Situation: Weaknesses.

CONFERENCES:

Regional:

- The 11th (1997) 12th (1998), 13th (1999), 14th (2000) Annual Scientific Days of School of Medicine, Jordan University of Science and Technology
- The 1st, 2nd, 3rd, 4th, 5th and 6th Conferences of the School of Medicine, Jordan University of Science and Technology.
- Invited speaker on "Biochemical and Molecular Bases of Osteoporosis"
At the second international congress of the Jordanian physicians for osteoporosis society Amman–Jordan 5-7/9/2007
- The first national conference on ethics in Biology which was jointly organized by UNESCO and the ministry of education which was held in Amman, Jordan 23-24/11/2009. I was a chair person of a session on cloning.

International:

- Eighty-seventh Annual Meeting of the 'American Association for Cancer Research' held in Washington, D.C, USA 20-24 April, 1996.
- 14th International Symposium of The Journal of Steroid Biochemistry & Molecular Biology "Recent Advances in Steroid Biochemistry & Molecular Biology", held in Quebec, Canada 24- 27 Jun, 2000.
- Third International Symposium on the Molecular Biology of Breast Cancer, held in Molde, Norway 22- 26 June, 2005.
- XIX world congress of the International Society for Heart Research (ISHR), held in Bologna, Italy 22- 25 June 2007 and the Pre-congress meetings, held in Padova, Italy 21-22 June, 2007.
- XX International Congress of Genetics, Genetics – Understanding Living Systems, held in Berlin, Germany, 12-17 July, 2008.
- Second congress of the European Academy of Pediatrics-EAP, held in Nice, France 24-28 October, 2008.
- ESMO 14th World Congress on Gastrointestinal Cancer, held in Barcelona, Spain, 27-30 Jun 2012.

AWARDS:

- Scholarship, granted by Jordan University of Science and Technology, for a Ph.D degree at the State University of New York at Buffalo (1991)

MEMBERSHIPS:

- Member, Jordanian Medical Association, 1986 to present.
- Member, Jordan Medical Council, 1996-2012.
- Member, American Association for Cancer Research, 1995-1996.
- Member, American association for the advancement of science 1995-1996.

RESEARCH PERFORMED:

- Rat Liver Cytosolic Retinal Dehydrogenase: Comparison of 13-cis-, 9-cis-, and all-trans-Retinal as Substrates and Effects of Cellular Retinoid-Binding Proteins and Retinoic Acid on Activity
- Inhibitors of NAD-dependent Rat Liver Cytosolic Retinal Dehydrogenase, Determination the type of inhibition with ten chemical compounds (Inhibitors).
- Isolation and preliminary characterization of oxaliplatin resistant A2780 ovarian carcinoma sublines.
- Glutathione (GSH) levels, biosynthesis and salvage in bladder carcinoma cell lines (BCCL).
- Quantitation of UV and cisplatin induced DNA damage in specific genes with a polymerase chain reaction-based assay.
- Regulation of Glutathione in Oxaliplatin Resistant Ovarian Carcinoma Cell Lines.
- Effect of Platinum Complexes on Glutathione Metabolism in Human Tumor Cell-Lines.
 - *(Altered Glutathione Metabolism in Oxaliplatin Resistant Ovarian Carcinoma Cells)
 - *(Induction of γ -Glutamyl Transpeptidase mRNA by Platinum Complexes in a Human Ovarian Carcinoma Cell-Line).
- Relationship between heat shock protein 60 (HSP60) mRNA expression and resistance to platinum analogues in human ovarian and bladder carcinoma cell lines
- The Correlation Between Increased Homocysteine Level and Unexplained Recurrent Miscarriage.
- Blood Lead Levels and γ -glutamyl Transferase Activity in Battery Factories Workers in Jordan.
- Effect of fasting during the month of Ramadan on serum levels of leutinizing hormone and testosterone in people living in the below sea level environment in the Jordan Valley
- Determination of Alpha-1 Antitrypsin Blood level & Phenotypes in Breast, Lung & Prostate Cancer Patients.
- Plasma levels of adrenocorticotrophic hormone and cortisol in people living in an environment below sea level (Jordan Valley) during fasting in the month of Ramadan
- The Relationship Between blood Lipid Profile, Antioxidant vitamins (A and E) and Acne.
- Diagnostic Value of Alpha-1 Antitrypsin and Neopterin as Tumor Markers in Lung and Prostate Cancer.
- Alpha-1 Antitrypsin Genotypes in Breast Cancer Patients.
- Genotype-Phenotype analysis of Sickle/ β -Thalassemia in North of Jordan.
- Alpha-1 Antitrypsin genotypes in Bladder and Colon cancer tissue.
- Prognostic value of alpha-1 antitrypsin in newly diagnosed acute myocardial infarction patients, in correlation with other cardiac markers: (CPK, CK-MB, Myoglobin and TnT) in diabetic and non-diabetic patients.
- Use of Molecular Biology Methods in the Identification of Burkholderia Cepacia Complex in Jordanian Cystic Fibrosis Patients.
- Paraoxonase; Activity and Genotypes and Their Relationship with Coronary Heart Disease in Type II Diabetic Patients in Jordan.
- Juvenile Parkinson's disease In Jordan; Types of Mutations & Inheritance.
- Alpha-1-antitrypsin genotypes in Lung cancer patients.
- Precocious puberty with congenital hypothyroidism.
- The Frequency of Human Leukocyte Antigen (HLA) Alleles DQA1*0501-DQB1*0201 Genotype among Jordanian Celiac Disease Patients and Their First Degree Relatives.

- Association of Celiac Disease with CTL4 +49 A/G and TNF α 308 G/A polymorphisms Jordanian patients.
- Effect of Intra-venous Versus Intra-arterial Leptin Infusion on Blood Pressure and Heart Rate of Anesthetized Rabbits.
- The Acute effect of Leptin Infusion on Cardiovascular Parameters.

REVIEWER:

- Damascus University Journal.
- Arabian Gulf University / Arab Gulf Journal of Scientific Research.
- Expert Review of Dermatology / Future Drugs Ltd.
- Translational Research.
- Jordan Medical Journal.
- Jordan Journal of Agricultural Sciences (JJAS).
- Jordan Journal of biological Sciences (JJBS).

Evaluation of Scientific Proposals:

- Jordan University of Science and Technology.
- Sultan Qaboos University.
- Scientific Research Support Fund / Ministry of Higher Education and Research.
- King Saud University.

PUBLICATIONS:

JOURNAL PAPERS:

- 1- Zeyad J. El-Akawi**, Mohammed K. Alrousan and Ismail I. Matalka. Association between alpha-1 antitrypsin deficient genotypes Z and S and colon cancer. *Mitteilungen Klosterneuburg*, 2015; 65(1): 99-104.
- S.A. Banihani, S.M. Makahleh, **Z. El-Akawi**, R.A. Al-Fashtaki, O.F. Khabour, M.Y. Gharibeh, N.A. Saadah, F.H. Al-Hashimi, N.J. Al-Khasieb. Fresh pomegranate juice ameliorates insulin resistance, enhances β -cell function, and decreases fasting serum glucose in type 2 diabetic patients. *Nutrition Research*, 2014; 34(10): 862-867.
- 3- Zeyad J. El-Akawi**, Aymen M. Abu-awad and Nabil A. Khouri, Alpha-1 antitrypsin blood levels as indicator for the efficacy of cancer treatment. *World J. Oncol*, 2013; 4(2): 83-86.
- Khabour O. F., Wehaibi S. H., Al-Azzam S. I., Alzoubi K. H., **El-Akawi Z. J.** Association of Adiponectin with Hypertension in Type 2 Diabetic Patients: The Gender Effect. *Clinical and Experimental Hypertension*, 2013; 35(5): 361-366.
- 5- El-Akawi Z.**, Khatib S. Alpha-1 Antitrypsin protects Myocardium From Reperfusion Injury in Isolated Langendorff Perfused Rabbit Heart. *New Frontiers in Heart Disease/Proceeding of the 16th world congress on Heart Disease, International Academy of Cardiology Annual Scientific Session 2011*, Pages: 117-121.
- 6- Zeyad J. EL-Akawi**, Dana M. AL-Hattab, and Mohamad A. Migdady. Frequency of HLA DQA1*0501 and DQB1*0201 alleles in patients with coeliac disease, their first-degree relatives and controls in Jordan. *Annals of tropical pediatrics*, 2010, 30(4): 305-309.

- 7- Zeyad J. El-Akawi**, Aymen M. Abu-awad, Abdelmonem M. Sharara and Yousef S. Khader. The importance of alpha-1 antitrypsin (α 1-AT) and neopterin serum levels in the evaluation of non-small cell lung and prostate cancer patients. *Neuroendocrinology letters*, 2010, 31(1): 117-131.
- 8- Zeyad Jalal El-Akawi**, and Ahmad Saleh Mansour. The role of cytotoxic T-lymphocyte associated antigen 4 (CTLA4) +49A/G and tumor necrosis factor alpha (TNF- α) -308G/A polymorphism in the development of celiac disease in Jordanian patients. *Journal of Health Science*, 2010, 56(1): 41-46
- 9- Zeyad J. El-Akawi**, Maysoon A. Garaibeh and Mohammad O. Rawashdeh. Molecular Biology Based Technique is the Method of Choice in Identification of Burkholderia Cepacia Complex in Cystic Fibrosis Patients. *J. Appl. Sci. Res.*, 2009, 5(11): 1952-1956.
- 10- Khalid F. Talafih**, Mohamad Mousa J. Mohamad, Mukhallad A. Mohammad and **Zeyad J. El-Akawi**. Effect of Intra-Venous Versus Intra-Arterial Leptin Infusion on Blood Pressure and Heart Rate. *The Open Physiology Journal*, 2009, 2, 14-17.
- 11- Zeyad Jalal El-Akawi**, Halah Saleh Al-Remawi, Khadijeh Jali Al-Namarneh. The relationship between the type of mutation in Globin gene and the type and severity of Sickle/Beta-thalassemia disease in Jordanian patients. *Saudi Medical Journal* 2009, 30(7): 967-968.
- 12- Zeyad El-Akawi**, Fatin Al-Hindawi, Nabil Bashir. Alpha-1 antitrypsin (α 1-AT) plasma levels in lung, prostate, and breast cancer patients. *Neuroendocrinology Letters* 2008, 29(4): 482-484.
- 13- Zeyad El-Akawi**, Dima Sawalha, Mohamad Nusier. Alpha-1 antitrypsin (A1AT) Genotypes in Breast Cancer Patients. *Journal of Health Science* 2008, 54(4): 493-496.
- 14- Zeyad El-Akawi**, Nisreen Abdel-latif, Khalid Abdul-Razzak and Mustafa Al-Aboosi. The Relationship Between Blood Lipids Profile and Acne. *Journal of Health Science* 2007, 53(5): 596-599
- 15- Nabil, A. Khouri, Zeyad El-Akawi**, Haytham Daradka. Effect of Short-Term Treatment With *Citrullus colocynthis* L on the Lipid Profile and Other Blood Biochemical Parameters in Albino Rats. *Asian Journal of Chemistry* 2007, 19 (2): 1468-1472.
- 16- Zeyad El-Akawi**, Nisreen Abdel-latif, Khalid Abdul-Razzak. Does the plasma level of vitamins and E affect the acne condition. *Clinical and Experimental Dermatology* 2006, 31:430-434.
- 17- Zeyad J. El-Akawi**, Mohamad K. Nusier, and Foad E. Zoughool. Relationship between alpha-1 antitrypsin deficient genotypes S and Z and lung cancer in Jordanian lung cancer patients. *Saudi Med J.*, 2006; 27 (2): 181-184.
- 18- El-Akawi Z.**, Abdel-Latif N., Abdel-Razak K., Al-Aboosi M. Factors Believed by Jordanian Acne Patients to Affect Their Acne Condition. *Eastern Mediterranean Health Journal*, 2006; 12(6): 840-846.
- 19- Nabil Azar Khouri and Zeyad El-Akawi**. Antiandrogenic activity of *Ruta Graveolens* L in male albino rats with emphasis on sexual and aggressive behaviors. *Neuroendocrinology Letters*, 2005; 26(6): 269-275
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