

MAHMOUD A. ALFAQIH

Physiology and Biochemistry
Faculty of Medicine
Jordan University of Science and Technology
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PERSONAL STATEMENT

I am an Assistant Professor of Biochemistry and Molecular Biology. My research integrates epidemiologic methods with cell based experimental model systems to understand the role of dietary, lifestyle factors and reactive oxygen species in chronic disease progression and treatment. This includes the role of the above factors in cancer, diabetes, PCOS and PTSD.

EDUCATION**Doctor of Philosophy, Biochemistry**

8/2003 – 5/2008 Washington State University Pullman, WA

- Thesis: "Mapping and evolution of candidate sex determining loci, sex chromosomes and sex linked sequences in rainbow and cutthroat trout"
- Advisor: Dr. Gary H. Thorgaard, School of Biological Sciences, Center for Reproductive Biology

Bachelor of Dental Surgery, BDS

10/1997 – 6/2002 University of Jordan Amman, Jordan

- GPA: 3.23 (Very Good)

TEACHING EXPERIENCE**Assistant Professor, Tenure track**

9/2015 – current Jordan University of Science and Technology Irbid, Jordan

- Involved in teaching a course in Molecular Genetics for Medical and Dental students during their second academic year
- Involved in teaching Clinical Biochemistry lectures as part of a course in Medical Sciences that covers body systems in a modular based syllabus
- Involved in teaching the following Graduate level courses: Advanced Biochemistry, Special topics in Biochemistry, Advanced Molecular Biology, Metabolism and Nutrition, Cell signaling and signal transduction

Assistant Professor, Fixed term

9/2009 – 9/2010 University of Tabuk Tabuk, Saudi Arabia

- Planned, organized and participated in teaching a course in Intermediary Metabolism and Molecular Biology for Medical students during their second academic year
- Taught Clinical Biochemistry lectures as part of an integrated course in basic medical sciences that covers body systems in a modular based syllabus
- Developed and implemented problem based learning model (PBL) on select topics of the Clinical Biochemistry curriculum.

Assistant Professor, Fixed Term

9/2008 – 4/2009 Mu'ta University Karak, Jordan

- Taught Biochemistry and Molecular Biology for medical students during their first and second academic years

Teaching Assistant

Five semesters Washington State University Pullman, WA

- **Introductory Biology.** Spring of 2004 and fall of 2005. Responsible of teaching the lab component of the course
- **General Genetics.** Spring of 2007 and spring of 2008. Responsible of leading a weekly discussion/review session
- **Introductory Biochemistry lab.** Spring of 2006. Responsible of supervising lab sessions

RESEARCH EXPERIENCE**ASSISTANT PROFESSOR (TENURE TRACK)**

10/2015 – current Jordan University of Science and Technology Irbid, Jordan

- Investigating the role of dietary, life style factors, energy metabolism and reactive oxygen species in modifying the risk of cancer, diabetes and PCOS

Post-Doctoral Position

10/2010 – 6/2015 Duke University Medical Center Durham, NC

- Investigated the role of cholesterol and its metabolites in modifying prostate cancer risk and progression in cell and animal based models
- Investigated the role of a novel androgen receptor cofactor (RAD52) in androgen receptor signaling and in resistance to androgen deprivation therapy

Short Term Scholar

5/2009 – 8/2009 Washington State University Pullman, WA

- Sub-cloned different domains of the *Campylobacter jejuni* fibronectin binding protein (FlpA) into bacterial expression plasmids that express the domains as GST fusion proteins

Graduate Research Assistant

1/2004 – 5/2008 Washington State University Pullman, WA

- Tested the linkage of eight different loci to the Y chromosome of rainbow trout using a variety of genotyping strategies
- Identified the Y chromosome of cutthroat trout using FISH
- Studied the evolutionary history of two duplicates of *Sox9* gene in rainbow trout

PUBLICATION IN PEER REVIEWED JOURNALS

- **Alfaqih MA**, Khader YS, Bashir N, Nusair Z, Nuseir Q, Nusier M: Attitude of Jordanian Physicians toward Biochemistry and Genetics. *BioMed Research International* 2019, 2019:9.
- Alqudah M, Balousha SA, Al-Shboul O, Al-Dwairi A, **Alfaqih MA**, Alzoubi KH: Insomnia among Medical and Paramedical Students in Jordan: Impact on Academic Performance. *BioMed Research International* 2019, 2019.
- Alzoubi KH, Shatnawi AF, Al-Qudah MA, **Alfaqih MA**: Vitamin C Attenuates Memory Loss Induced by Post-Traumatic Stress like Behavior in a Rat Model. *Behavioural Brain Research* 2019:112350.
- Mazahreh TS, **Alfaqih MA**, Saadeh R, Al-Zoubi NA, Hatamleh M, Alqudah A, Aleshawi AJ, Alzoubi A: The Effects of Laparoscopic Sleeve Gastrectomy on the Parameters of Leptin Resistance in Obesity. *Biomolecules* 2019, 9(10):533.
- Bashir NA, Morad FR, Khabour OF, **Alfaqih MA**, Khassawneh BY: The EGFR rs2233947 polymorphism is associated with lung cancer risk: a study from Jordan. *Acta Biochimica Polonica* 2019, 66(3):315-319.
- Al-Shboul O, **Alfaqih M**, Mustafa A, Al-Dwairi A, Alqudah M, Haifawi S, Alebbini M, Al-Zaareer M, Alahmar K: Developmental changes in contraction of gastric smooth muscle cells in rats correlate with their differences in RhoA/ROCK pathway. *The Journal of Biomedical Research* 2019, 33(5):289-296.
- Al-Shboul OA, Al-Rshoud HJ, Al-Dwairi AN, Alqudah MA, **Alfaqih MA**, Mustafa AG, Jaafar M: Changes in Gastric Smooth Muscle Cell Contraction during Pregnancy: Effect of Estrogen. *Journal of pregnancy* 2019, 2019:4302309.
- Altarifi AA, Kalha Z, Kana'An SF, **Alfaqih MA**, Alsalem MI: Effects of combined swimming exercise and non-steroidal anti-inflammatory drugs on inflammatory nociception in rats. *Experimental and therapeutic medicine* 2019, 17(5):4303-4311.
- Beni Yonis O, Khader Y, Jarboua A, Al-Bsoul MM, Al-Akour N, **Alfaqih MA**, Khatatbeh MM, Amarneh B: Post-traumatic stress disorder among Syrian adolescent refugees in Jordan. *Journal of public health (Oxford, England)* 2019.
- Alzoubi KH, Shatnawi A, Al-Qudah MA, **Alfaqih MA**: Edaravone prevents memory impairment in an animal model of post-traumatic distress. *Behavioural pharmacology* 2019, 30(2 and 3-Spec Issue):201-207.

- Al Bashir S, Alzoubi A, **Alfaqih MA**, Kheirallah K, Smairat A, Haddad H, Al-Dwairy A, Fawwaz BAB, Alzoubi M, Trpkov K: PTEN Loss in a Prostate Cancer Cohort From Jordan. Applied immunohistochemistry & molecular morphology: AIMM 2019.
- Al-Shboul OA, Mustafa AG, Omar AA, Al-Dwairi AN, Alqudah MA, Nazzal MS, **Alfaqih MA**, Al-Hader RA: Effect of progesterone on nitric oxide/cyclic guanosine monophosphate signaling and contraction in gastric smooth muscle cells. Biomedical reports 2018, 9(6):511-516.
- **Alfaqih M**, Al-Mughales F, Al-Shboul O, Al Qudah M, Khader Y, Al-Jarrah M: Association of Adiponectin and rs1501299 of the ADIPOQ Gene with Prediabetes in Jordan. Biomolecules 2018, 8(4):117.
- Khader YS, Sharkas GF, Arkoub KH, **Alfaqih MA**, Nimri OF, Khader AM: The epidemiology and trend of cancer in Jordan, 2000-2013. Journal of Cancer Epidemiology 2018, 2018:7.
- Saadeh N, **Alfaqih MA**, Mansour H, Khader YS, Saadeh R, Al-Dwairi A, Nusier M: Serum homocysteine is associated with polycystic ovarian syndrome in Jordan. Biomedical Reports 2018, 9:439-445.
- Mustafa AG, **Alfaqih MA**, Al-Shboul O, Al-Dwairi A: Scavenging of lipid peroxy radicals protects plasma lipids and proteins from peroxynitrite. Biomedical Reports 2018, 9:421-426.
- Mustafa AG, **Alfaqih MA**, Al-Shboul O: The 4-hydroxynonenal mediated oxidative damage of blood proteins and lipids involves secondary lipid peroxidation reactions. Exp Ther Med 2018, 16:2132-2137.
- Al-Shboul OA, Nazzal MS, Mustafa AG, Al-Dwairi AN, Alqudah MA, Abu Omar A, **Alfaqih MA**, Alsalem MI: Estrogen relaxes gastric muscle cells via a nitric oxide- and cyclic guanosine monophosphate-dependent mechanism: A sex-associated differential effect. Exp Ther Med 2018, 16:1685-1692.
- Al-Dwairi A, Alqudah M, Al-Shboul O, **Alfaqih M**, Alomari D: Metformin exerts anti-inflammatory effects on mouse colon smooth muscle cells in vitro. Exp Ther Med 2018, 16:985-992.
- Al Omari A, Abdelkhaleq H, Al-Hussaini M, Turfa R, Awad N, Hassan MM, **Alfaqih MA**, Garrett CR: Validation of the Survival Benefits of Metformin in Middle Eastern Patients With Type II Diabetes Mellitus and Colorectal Cancer. J Glob Oncol 2018:1-10.

- **Alfaqih MA**, Abu-Khdair Z, Saadeh R, Saadeh N, Al-Dwairi A, Al-Shboul O: Serum Branched Chain Amino Acids Are Associated with Type 2 Diabetes Mellitus in Jordan. *Korean J Fam Med* 2018, 39:313-317.
- **Alfaqih MA**, Bashir N, Saadeh R, Khader Y, Barqawi M, Alqudah S: Dysregulation of the RANKL/RANK/OPG axis in thalassemia intermedia patients. *BMC Res Notes* 2018, 11:534.
- Bashir NA, Ragab ES, Khabour OF, Khassawneh BY, **Alfaqih MA**, Momani JA: The Association between Epidermal Growth Factor Receptor (EGFR) Gene Polymorphisms and Lung Cancer Risk. *Biomolecules* 2018, 8.
- Faqih NA, **Alfaqih MA**, Salami K, Herron B, Sultan I, Al-Hussaini M: Empirical treatment with parenteral acyclovir in a child with herpes simplex virus hepatitis and acute lymphoblastic leukemia. *IDCases* 2018, 12:10-12.
- Alzoubi A, Abunaser R, Khassawneh A, **Alfaqih M**, Khasawneh A, Abdo N: The Bidirectional Relationship between Diabetes and Depression: A Literature Review. *Korean J Fam Med* 2018, 39:137-146.
- **Alfaqih MA**, Khader YS, Al-Dwairi AN, Alzoubi A, Al-Shboul O, Hatim A: Lower Levels of Serum Adiponectin and the T Allele of rs1501299 of the ADIPOQ Gene Are Protective against Polycystic Ovarian Syndrome in Jordan. *Korean J Fam Med* 2018, 39:108-113.
- Al-Dwairi A, Alqudah TE, Al-Shboul O, Alqudah M, Mustafa AG, **Alfaqih MA**: Glucagon-like peptide-1 exerts anti-inflammatory effects on mouse colon smooth muscle cells through the cyclic adenosine monophosphate/nuclear factor-kappaB pathway in vitro. *J Inflamm Res* 2018, 11:95-109.
- Mustafa AG, Al-Shboul O, **Alfaqih MA**, Al-Qudah MA, Al-Dwairi AN: Phenelzine reduces the oxidative damage induced by peroxynitrite in plasma lipids and proteins. *Arch Physiol Biochem* 2017:1-6.
- Alzoubi A, Mahdi H, Al Bashir S, Halalsheh O, Al Ebbini M, Alzarir M, Al-Ahmar K, **Alfaqih M**, Al-Hadidi A: Normalization of serum vitamin D improves semen motility parameters in patients with idiopathic male infertility. *Acta Endocrinologica (1841-0987)* 2017, 13.
- Al Qudah M, Alrabadi N, **Alfaqih M**, Mohammad M, Al-Dwairi A: The effect of the anabolic steroid sustanon on the expression levels of neurotrophins in adult chicken gastrointestinal tract. *Comparative Clinical Pathology* 2018, 27:385-392.
- **Alfaqih MA**, Nelson ER, Liu W, Safi R, Jasper JS, Macias E, Geradts J, Thompson JW, Dubois LG, Freeman MR, et al: CYP27A1 Loss Dysregulates Cholesterol Homeostasis in Prostate Cancer. *Cancer Res* 2017, 77:1662-1673.

- Masko EM, **Alfaqih MA**, Solomon KR, Barry WT, Newgard CB, Muehlbauer MJ, Valilis NA, Phillips TE, Poulton SH, Freedland AR, et al: Evidence for Feedback Regulation Following Cholesterol Lowering Therapy in a Prostate Cancer Xenograft Model. *Prostate* 2017, 77:446-457.
- **Alfaqih MA**, Allott EH, Hamilton RJ, Freeman MR, Freedland SJ: The current evidence on statin use and prostate cancer prevention: are we there yet? *Nat Rev Urol* 2017, 14:107-119.
- Brunelli JP, Mallatt JM, Leary RF, **Alfaqih M**, Phillips RB, Thorgaard GH: Y chromosome phylogeny for cutthroat trout (*Oncorhynchus clarkii*) subspecies is generally concordant with those of other markers. *Mol Phylogenet Evol* 2013, 66:592-602.
- **Alfaqih MA**, Steele CA, Morris RT, Thorgaard GH: Comparative genome mapping reveals evidence of gene conversion between Sox9 paralogs of rainbow trout (*Oncorhynchus mykiss*). *Comp Biochem Physiol Part D Genomics Proteomics* 2009, 4:147-153.
- **Alfaqih MA**, Brunelli JP, Drew RE, Thorgaard GH: Mapping of five candidate sex-determining loci in rainbow trout (*Oncorhynchus mykiss*). *BMC Genet* 2009, 10:2.
- **Alfaqih MA**, Phillips RB, Wheeler PA, Thorgaard GH: The cutthroat trout Y chromosome is conserved with that of rainbow trout. *Cytogenet Genome Res* 2008, 121:255-259.

MEETINGS AND ABSTRACTS

- **Alfaqih MA**, Thorgaard GH. *Sox9, Sox9a2 and Dmrt1* do not map to the sex locus in rainbow trout. 7th Annual Northwest Reproductive Sciences Symposia. Moscow, USA. 2007
- **Alfaqih MA**, Thorgaard GH. Phylogeography of cutthroat trout sub-species using the Y linked sequence OmyY1. Inland Northwest Aquatic, Riparian, and Wetland Symposium. Spokane, WA. 2008
- **Alfaqih MA** .Tetraploidy, sex-determination and the evolution of salmonid fishes. Clark Atlanta University. Atlanta, USA. 2008. **Invited speaker**
- Phillips RB, Dekoning JJ, Park LK, **Alfaqih MA** and Thorgaard GH. Evolution of sex chromosomes in Pacific salmon and trout: transposition of a male-specific region. Coastwide Salmonid Genetics Meeting. Olympia, USA. 2008
- Glymph SE, **Alfaqih MA**, Chaudhary J. OAS1 expression and function in prostate cancer cell lines. 11th RCM International Symposium on Health Disparities. Honolulu, USA. 2008
- **Alfaqih MA**, McDonnell DP. The role of the cholesterol/27-hydroxycholesterol axis in prostate cancer pathogenesis. The Endocrine Society's 95th Annual Meeting and Expo. San Francisco, USA. 2013

- **Alfaqih MA**, Nelson ER, Safi R, Jasper J, Chang CY et al. The cholesterol/27-hydroxycholesterol axis is a novel therapeutic target in castrate resistant prostate cancer. AACR annual meeting. San Diego, USA. 2014
- **Alfaqih MA**, Nelson ER, Safi R, Jasper J, McDonnell DP et al. Dysregulation of cholesterol homeostasis through loss of CYP27A1 in prostate cancer; Implications for early detection and prevention of over-treatment. AACR Frontiers in Cancer Prevention Research. New Orleans, USA. 2015. **Oral presentation-Proffered abstract**
- **Alfaqih M**, Nelson E, Liu W, Safi R, Jasper J et al. CYP27A1/27HC/SREBP2 axis is a novel therapeutic target in prostate cancer. 28th EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics. Munich, Germany. 2016
- **Alfaqih MA**, Chang CY, Norris J, McDonnell DP. Does the loss of RAD52 in prostate cancer contribute to resistance to antiandrogen therapy? 19th European Congress of Endocrinology. Lisbon, Portugal. 2017
- **Alfaqih M**, Mansour H, Hatim A, Nuseir M. Serum homocysteine levels are associated with polycystic ovary syndrome in a Jordanian population; implications for treatment and diagnosis. 6th Seoul International Congress of Endocrinology and Metabolism. Seoul, South-Korea.2018. **Invited Speaker**
- Nusier M, **Alfaqih M**, Abu-khdair Z, Al-Dwairi A. The association between serum levels of branched chain amino acids and type 2 diabetes mellitus in Jordan. 6th Seoul International Congress of Endocrinology and Metabolism. Seoul, South-Korea.2018
- Al-Dwairi A, Al Qudah M, Al-Shboul O, **Alfaqih M**. Effect of leptin on LPS-induced inflammatory markers in rat colon smooth muscle cells. 6th Seoul International Congress of Endocrinology and Metabolism. Seoul, South-Korea.2018
- Al Qudah M, Al-Dwairi A, Al-Shboul O, **Alfaqih M**. Effects of testosterone on the secretion and synthesis of BDNF in rats stomach smooth muscle. 6th Seoul International Congress of Endocrinology and Metabolism. Seoul, South-Korea.2018
- Alhader A, Gharaibeh M, **Alfaqih M**, Nazzal M. Investigation of androgens' serum levels in pre-pubertal male autistic children. World Psychiatric Association, Emerging mental health challenges across the globe. New York, USA. 2018
- Alsalem M, Altarifi A, Kalha Z, Alzoubi A, **Alfaqih M** et al. Evaluation of Swimming Exercise in Combination with non-Steroidal Anti-Inflammatory Drugs on Inflammatory Nociception in Rats. Experimental Biology. San Diego, USA. 2018
- **Alfaqih MA**, Mustafa AG, Al-shboul O. The 4-hydroxynonenal mediated oxidative damage of blood proteins and lipids involves secondary lipid peroxidation reactions. 20th European Congress of Endocrinology. Barcelona, Spain. 2018
- Alzoubi A, Alsmairat A, Al BS, **Alfaqih M**, Kheirallah K. The relationship between PTEN mutations and resistance to androgen-deprivation therapy in prostate cancer. 20th European Congress of Endocrinology. Barcelona, Spain. 2018

- **Alfaqih M**, Al-Dwairi A. Activation of the Liver X Receptor Antagonizes the Inflammatory and Oxidative Effects of Lipopolysaccharides on the Muscular Layers of the Intestine. 7th Seoul International Congress of Endocrinology and Metabolism. Seoul, South-Korea.2019.
Invited Speaker
- **Alfaqih MA** and Araidah A. Serum 25-hydroxycholecalciferol and the A allele of rs2228570 of the vitamin D receptor locus reduce the risk of type 2 diabetes mellitus in Jordan. 21st European Congress of Endocrinology. Lyon, France. 2019
- **Alfaqih MA**. Normalization of serum vitamin D levels improves glycemic parameters in patients with type two diabetes mellitus. 24th International Symposium on Molecular Medicine. Sparta, Greece. 2019
- Alhader AA, **Alfaqih MA**, Nazzal MS. The Potential Interactive Role of Leptin with Other Hormones in the Pathophysiology of Autism in Jordanian Male Children. AACAP 66th Annual Meeting. Chicago, USA. 2019
- Al-Dwairi A, Alqudah M, **Alfaqih M**. Exendin-4 exerts anti-inflammatory effects on mouse intestinal smooth muscle cells through the cyclic adenosine monophosphate/nuclear factor- κ B pathway. International Conference on Medical Biosciences. Hamburg, Germany. 2019
- **Alfaqih MA**, Al-shboul O, Al-Dwairi A. The synthetic androgen, R1881, activates Rho kinase II in gastric smooth muscle cells of the male rat via a non-genomic mechanism. International Conference on Medical Biosciences. Hamburg, Germany. 2019

AWARDS AND SCHOLARSHIPS

- Full scholarship to fund high school tuition. Al-Ittihad Secondary Schools, Jordan. 1995-1996
- Dental School tuition waivers. University of Jordan. Amman, Jordan. 1997-2002
- Full scholarship to fund graduate studies in Molecular/Cellular Biology. Ministry of Higher Education. Amman, Jordan. 2002
- Graduate and Professional Student Association (GPSA) Teaching Excellence Award. Washington State University. Pullman, WA. 2008
- Travel and Tuition Scholarship. Summer Institute in Statistical Genetics (SISG). University of Washington. Seattle, WA. 2008
- Outstanding Mentor Nominee. Washington State University. Pullman, WA. 2008
- Postdoctoral fellowship. King Hussein Institute for Biotechnology and Cancer (KHIBC). Joint initiative with NCI and Duke University. 2010
- Postdoctoral Fellowship. Race, Metabolism, and Genetics: The Key to Prostate Cancer Racial Disparity. Department of Defense. 2013

- Duke internal nomination for Lilly Innovation Fellowship Award. Duke University Medical Center. Durham, NC. 2013
- Poster competition at the Joint Duke-NUS Cancer Research Symposium, Runner-up. Duke Cancer Institute. Durham, NC. 2014
- Travel award for invited speakers at the 6th International Congress of Endocrinology and Metabolism. Seoul, South-Korea. 2018
- Travel award for invited speakers at the 7th International Congress of Endocrinology and Metabolism. Seoul, South-Korea. 2019
- Erasmus plus International Credit Mobility. Medical University of Sofia. Sofia, Bulgaria. 2019

RESEARCH FUNDING

<u>Title</u>	<u>Funding agency</u>	<u>Amount (USD)</u>	<u>Role</u>
Cyp27A1: A biomarker and a tool of detection for aggressive prostate cancer	Deanship of Research (JUST)	42,000	Principal Investigator
The role of the androgen receptor in mediating gender based differences in gastrointestinal disorders	Deanship of Research (JUST)	7,000	Principal Investigator
The relationship between serum branched chain amino acids and the development of diabetic complications	Deanship of Research (JUST)	9,100	Principal Investigator
The relationship of leptin, leptin gene and leptin receptor polymorphisms with the risk of developing polycystic ovarian syndrome	Deanship of Research (JUST)	9,100	Principal Investigator
Relationship between serum adiponectin levels and risk of polycystic ovarian syndrome	Deanship of Research (JUST)	9,100	Principal Investigator
The relationship between the serum levels of CRT3 and the risk of developing type 2 diabetes mellitus	Deanship of Research (JUST)	9,100	Principal Investigator
The effect of leptin on the glycemic control of type 2 diabetic patients	Deanship of Research (JUST)	9,100	Principal Investigator
Prostate cancer in the Jordanian population: A descriptive study at King Hussein Cancer Center	King Hussein Cancer Center	11,200	Co-principal investigator

MENTORING AND THESIS COMMITTEE MEMBERSHIPS

<u>Name</u>	<u>Thesis title</u>	<u>Role</u>
Sara Alqudah	Evaluation of Receptor Activator Of Nuclear Factor Kappa B Ligand and Osteoprotegerin levels in Thalassemia Intermedia patients	Internal Examiner
Amani Albustanji	The androgen receptor CAG repeat polymorphism and X-chromosome inactivation among Jordanian women with uterine leiomyomas and leiomyosarcoma	External examiner at the University of Jordan, Amman-Jordan
Amanie Hatim	Involvement of biochemical and genetic factors in the development of PCOS in North of Jordan	Principal Investigator
Zaina Abu-khdair	The relationship between serum branched chain amino acids and polymorphism in BCATc gene with type II diabetes mellitus in Northern Jordan	Principal Investigator
Entesar Rajab	The association between lung cancer and epidermal growth factor receptor gene polymorphisms in a Jordanian population	Internal Examiner
Haneen Mansour	Is serum homocysteine a good biomarker to diagnose Polycystic Ovary Syndrome (PCOS); implications for diagnosis and treatment	Principal investigator
Faheem Al Mughales	The relationship between serum adiponectin and polymorphism in ADIPOQ gene with prediabetes risk in Northern Jordan	Principal investigator
Aya Smairat	Relationship between PTEN mutations and resistance to androgen deprivation therapy in prostate cancer in Jordan	Internal Examiner
Aisha Alhawamdeh	Higher levels of serum adiponectin and a haplotype in <i>ADIPOQ</i> gene are associated with better glycemic control in T2DM patients	Principal Investigator
Maha Rabayaa	Liver X Receptor activation in the muscular layers of the intestine reduces the expression and secretion of inflammatory cytokines	Principal Investigator
Abdullah Araiadah	Association of vitamin D serum levels and vitamin D receptor gene polymorphisms with the risk of T2DM	Principal Investigator

PROFESSIONAL AFFILIATIONS

- Jordanian Dental Association. 2002-present
- Endocrine Society. 2011-present
- American Association of Cancer Research (AACR). 2013-present

WORKSHOPS

- Introduction to the UCSC Genome Browser. Seattle, WA. 2004
- Linear Regression and the Analysis of Variance. Summer Institute in Statistical Genetics. Seattle, WA. 2008
- Practical Applications of Metabolomics. Research Triangle Park, North Carolina. 2015

OTHER

- Personal tutor in Biochemistry for WWAMI Medical Education Program. Washington State University. Spring of 2006
- Experienced in Microsoft Office suite, Mapmaker, Mapchart, MrBAYES, Sequencher and Graphpad Prism
- Fluent in Arabic, English, and some French
- Invited as an Ad-hoc reviewer for: BMC Genomics, Prostate Cancer and Prostatic Diseases (PCAN), International Journal of Cancer, Lipids in Health and Diseases, Jordanian Journal of Biological Sciences, Jordan Medical Journal, Metagene, Hormones and Cancer, Advances in Medical Sciences

REFERENCES

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