

Curriculum vitae



❖ *Personal:*

- Name: Abu Tarboush, Nafez M.
- Place & date of birth: Jordan, Nov. 24th, 1980
- Nationality: Jordanian
- Marital status: Married
- Permanent Address: The University of Jordan, College of Medicine, Biochemistry Department, Amman, Jordan, Postal code: 11942
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❖ *Academic:*

- Assistant professor of biochemistry, (February, 2012), Faculty of Medicine, The University of Jordan, Amman, Jordan
- PhD / Medical Biochemistry (December, 2011), University of Mississippi Medical Center, Jackson, MS, USA
- M.Sc. / Biomedical sciences (August, 2010), University of Mississippi Medical Center, Jackson, MS, USA
- D.D.S./dentistry (June, 2004), The University Of Jordan, Amman, Jordan
- General secondary education certificate, 1998, Al-Hussein College high School, Amman, Jordan

❖ *Administrative:*

- Acting vice dean for examination affairs, (Jan.-Feb.) & (May-June). 2015, Faculty of Medicine, The University of Jordan, Amman, Jordan
- Dean assistant for quality & communication, Sep. 2013- Sep. 2014, Faculty of Medicine, The University of Jordan, Amman, Jordan

❖ *Practical experience:*

- July/2004-Jan./2005, vocational training, ministry of health, Amman, Jordan
- Jan./2005-Oct./2006, clinical family dentist, private sector, Amman, Jordan
- Nov./2006-July/2007, research assistant, physiology and biochemistry department, The University of Jordan, Amman, Jordan
- Aug./2007-Dec.2012, graduate student researcher, biochemistry department, University of Mississippi Medical Center, MS, USA
- Feb./2012-still, assistant professor of biochemistry, faculty of Medicine, The University of Jordan, Amman, Jordan

❖ *Conferences:*

- Gordon Research Conference (GRC), poster presenter, CA, USA, 2010
- Southeast Enzyme Conference, poster presenter, GA, USA, 2010
- Frontiers in Metallobiochemistry Symposium, poster presenter, PA, USA, 2010

❖ *Courses:*

- Teaching and assessment in dental education – May. 2015. The University of Jordan, Amman, Jordan

- A course on e-learning using Camtasia software – Jan. 2013, The University of Jordan, Amman, Jordan

❖ **Continuing education:**

- Responsible Conduct of Research. 1 year joint program between Jordan University of Science and Technology and University of California at San Diego. Already enrolled (July/2015 – June/2016)

❖ **Area of interest:**

- Major: Metabolism inside cells and energy making process
- Minor: Protein structure – function relationship, and studying electron transport chain in the mitochondria and bacterial systems

❖ **Publications and posters:**

- 1) L Jensen, NA Tarboush, V Davidson, C Wilmot., Toward understanding an unusual His-Tyr ligated c-heme: X-ray crystal structures of MauG point mutants. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 240, 2010
- 2) Shin. S, Abu Tarboush. N, Davidson, V.L., Long-range electron transfer reactions between hemes of MauG and different forms of tryptophan tryptophylquinone of methylamine dehydrogenase. *Biochemistry*. 2010; 49(27):5810-6
- 3) Abu Tarboush, N., Jensen, L.M., Feng, M., Tachikawa, H., Wilmot, C.M., Davidson, V.L., Functional importance of tyrosine 294 and the catalytic selectivity for the bis-Fe(IV) state of MauG revealed by replacement of this axial heme ligand with histidine. *Biochemistry*. 2010; 49(45):9783-91
- 4) Jensen, L.M., Sanishvili, R., Abu Tarboush, N., Davidson, V.L., Wilmot, C.M. Protein complex structures inform about the reactivity of the hemoprotein MauG. *Acta Cryst.* (2011) A67, C218
- 5) Abu Tarboush N., Jensen, L.M., Yukl, E.T., Geng, J., Liu, A., Wilmot, C.M., Davidson, V.L., Mutagenesis of tryptophan199 suggests that hopping is required for MauG-dependent tryptophan tryptophylquinone biosynthesis. *Proc Natl Acad Sci U S A*. 2011; 108(41):16956-61
- 6) Abu Tarboush N., Unraveling the Mechanism and Structural Determinants of Electron Transfer Through the Di-heme Enzyme MauG. THE UNIVERSITY OF MISSISSIPPI MEDICAL CENTER. 2011
- 7) Abu Tarboush N, Shin S, Geng J, Liu A, Davidson VL., Effects of the loss of the axial tyrosine ligand of the low-spin heme of MauG on its physical properties and reactivity. *FEBS Lett*. 2012; 586(24):4339-43
- 8) Abu Tarboush N, Jensen LM, Wilmot CM, Davidson VL., A Trp199Glu MauG variant reveals a role for Trp199 interactions with pre-methylamine dehydrogenase during tryptophan tryptophylquinone biosynthesis. *FEBS Lett*. 2013; 587(12):1736-41
- 9) Abu Tarboush N, Yukl ET, Shin S, Feng M, Wilmot CM, Davidson VL., Carboxyl group of Glu113 is required for stabilization of the diferrous and bis-Fe(IV) states of MauG. *Biochemistry*. 2013; 52(37):6358-67

- 10) Alzghoul L, Abu Tarboush N, Eldahabi M, Albdour S, Abu Hantash O, Abu-Irmaileh B., Brief Dysregulation in metal homeostasis in autistic children compared to controls in Jordan. 585.08/E32. 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015

❖ **Grants & Ongoing projects:**

- The effect of naturally occurring products on chemotherapy resistant breast cancer cell lines: a cell culture study & in vitro investigation. Deanship of academic research, The University of Jordan, Amman, Jordan. (15,000 JD) – PI
- Establishing the normal levels of IRISIN protein in biological fluids: blood and saliva. Hamdi Mango Center for Scientific Research, The University of Jordan, Amman, Jordan. (5,000 JD) – PI
- Effect of qat chewing on oral diseases; a study of salivary and cellular biomarkers of oxidative stress. Deanship of academic research, The University of Jordan, Amman, Jordan. (5,000 JD) – Co PI
- Knowledge and practice of dental and medical students toward oral potentially malignant disorders and early detection of oral cancer. Deanship of academic research, The University of Jordan, Amman, Jordan – Co PI
- Measuring MT levels in ASD patients. Deanship of academic research, The University of Jordan, Amman, Jordan. (5,000 JD) – Co PI
- The association of IRISIN hormone levels with the different anthropometric and clinical investigations in pregnant women and newborns. Deanship of academic research, The University of Jordan, Amman, Jordan. (5,000 JD) – PI

❖ **Postgraduate Committees:**

- External examiner committee member. Investigation of genetic polymorphisms of the Intercellular Adhesion Molecule-1 (ICAM-1) among multiple sclerosis Jordanian patients; Baha'a-aldeen Mustafa (advisors: Dr. Salim Abderrahman and Dr. Mamoun Ahram). Hashemite University
- Committee member. Gene expression alterations in Imatinib resistant K562 chronic myeloid leukemia cell line; Mai Mahmoud Naser (advisor: Dr. Malek Zihlif). The University of Jordan

❖ **Languages:**

- Arabic: native language
- English: fluent in reading, writing & speaking

❖ **Specific skills:**

- Excellent computer skills: Internet and Microsoft office applications
- A good team worker, spirited, dynamic, ambitious person with good communication skills

❖ **References:**

- Victor L. Davidson, PhD. University of Central Florida, FL, USA.
- Donald Sittman, PhD. University of Mississippi Medical Center, MS, USA