

Curriculum Vitae

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Department of Biotechnology and Genetic Engineering
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Education:

Ph.D., Medical Sciences, Specialization: Molecular Cell Biology. The University of Calgary, Calgary, Alberta, Canada, August, 2002.

Dissertation Title: Nuclear Pore Complex Assembly in Interphase and Mitosis. Supervisor: Brian Burke.

B.Sc., Applied Biology. Jordan University of Science and Technology, Irbid, Jordan, June, 1994.

Academic and Research Experience:

- Fulbright Scholar-Senior Research Associate, Department of Pharmacology and Cancer Biology, Duke University Medical Center, Duke University, Durham, NC, 2015-2016.
- Associate Professor, Department of Biotechnology and Genetic Engineering, Jordan University of Science and Technology, Irbid, Jordan, 2014-present.
- Assistant Professor, Department of Biotechnology and Genetic Engineering, Jordan University of Science and Technology, Irbid, Jordan, 2012-2014.
- Senior Research Associate, Department of Pharmacology and Cancer Biology, Duke University Medical Center, Duke University, Durham, NC, 2009-2012.
- Assistant Professor, Department of Biotechnology and Genetic Engineering, Jordan University of Science and Technology, Irbid, Jordan, 2007-2009.
- Full-time Lecturer, Department of Biotechnology and Genetic Engineering, Jordan University of Science and Technology, Irbid, Jordan, 2002-2007.
- Research Assistant, Department of Anatomy and Cell Biology, University of Florida, Gainesville, Florida, Jan/2002-August/2002.
- Research Assistant, Department of Medical Sciences, University of Calgary, Calgary, Alberta, Canada, 1996-2002.

Research Interests:

Heat shock proteins, discovery of small molecule inhibitors of kinases for the treatment of cancer, cancer biomarkers, Wolfram syndrome genetics, breast cancer, cervical cancer, childhood leukemia's, bladder cancer, gastric cancer, nuclear envelope dynamics in interphase and mitosis, nuclear envelope-associated diseases, nuclear receptors, smooth muscle physiology and molecular biology.

Academic Honors and Awards:

- Fulbright Scholar fellowship at Duke University 2015-2016.

- Recipient, King Hussein Institute for Biotechnology and Cancer postdoctoral fellowship at Duke University, 2009-2011.
- Research Scholar Award at the 2nd MENA Cancer Research Conference, King Hussein Institute for Biotechnology and Cancer, September, 2009.
- Research Scholar Award at the first MENA Cancer Research Conference, King Hussein Institute for Biotechnology and Cancer, August, 2007.
- Graduated first class in Applied Biology, Jordan University of Science and Technology, June, 1994.

Graduate Students Supervised:

- Aya Abu-Sheika. Prognostic evaluation of heat shock proteins in triple negative breast cancer. *June, 2015.*
- Sara abu-jalboush. Prognostic evaluation of heat shock proteins in gastric cancer among Jordanians. *June, 2015.*
- Haya Tyseer. Evaluation of vitamin D3 levels in gestational diabetes in Jordanians. *August, 2015.*
- Ahman Abulheja and Mohammad Alfandi. Enhanced antimicrobial activity of AamAP1-Lysine, a novel synthetic peptide analog derived from the scorpion venom peptide AamAP1. *June, 2014.*
- Abrar Mahmoud Rashdan. Characterization of Monoclonal Antibodies produced against E. sakazakii. *May, 2009.*
- Dana Mahmoud Zaki Milhem. Human Papillomavirus Detection in Cervical Smears of Jordanian Women. *January, 2009.*
- Satanay Zuhair Abdulhameed Hubrack Proteomic Identification of Biomarkers of Traumatic Brain Injury in Rats. *January, 2009.*
- Amal Hisham Mahmoud Uzrail Analysis of HFE (HLA-like protein involved in iron [FE] homeostasis) gene mutations (C282Y, H63D, and S65C) in the Jordanian population. *January, 2009.*
- Yazan Abdulmajeed Eyadh Haddad. DNA Methylation Analysis of Multiple Tumor Suppressor Genes in Jordanian Leukemia Patients. *August, 2008.*
- Abdulhameed Saleh Hussein Al-Ghabkari. Molecular profiling of bladder tumors to assess the correlation with Tp53 and FGFR3 and their prognostic value. *May, 2008.*
- Rami Ahmed Yaseen Hayajneh. Prognostic Evaluation of MUM1/IRF4, CD138, BCL-6, and CD10 Expression in Jordanian Patients with Diffuse Large B-Cell Lymphoma. *May, 2007.*

Courses Taught:

General Biology 101, 102 and 103, General Biology (Practical), Cell Biology, Cell Signaling, Modern Techniques in Biotechnology, Modern Techniques in Biotechnology (Laboratory), Selected Topics in Biotechnology (A), Selected Topics in Biotechnology (B), Special Topics (A), Special Topics (B), Scientific Writing and Presentation, Seminar, Advanced Cell Biology, and Field Training.

Publications:

1. **Khaldon Bodoor**, Sara Abu Jalboush, Ismail Matalka, Aya Abu-sheikha, Rofieda Al Waqfi, Hanadi Ebwaini, Aymen Abu-Awad, Luma Fayyad, Jamal Al-Arjat, Yazan Haddad Heat Shock Proteins Expression in Association with Clinico-Pathological Characteristics of

Gastric Cancer: HSP70 Expression is Predictive of Poor Prognosis in Patients with Gastric Cancer in Jordan. APJCP. (In Press, 2016).

2. **Khaldon Bodoor**, Osama Batiha, Ayman Abu-Awad, Khaldon Al-Sarihin, Haya Ziad, Yousef Jarun, Aya Abu-sheikha, Sara Abu Jalboush, Khoulod S. Alibrahim. Identification of a novel *WFS1* homozygous nonsense mutation in Jordanian children with Wolfram syndrome. *Meta Gene*, Vol 9, 219-224.
3. Lontay B, **Bodoor K**, Sipos A, Weitzel DH, Loiselle D, Safi R, Zheng D, Devente J, Hickner RC, McDonnell DP, Ribar T, Haystead TA. Pregnancy and Smoothelin-like Protein 1 (SMTNL1) Deletion Promote the Switching of Skeletal Muscle to a Glycolytic Phenotype in Human and Mice. *J Biol Chem*. 2015 Jul 17;290 (29):17985-98.
4. Howe MK, **Bodoor K**, Carlson DA, Hughes PF, Alwarawrah Y, Loiselle DR, Jaeger AM, Darr DB, Jordan JL, Hunter LM, Molzberger ET, Gobillot TA, Thiele DJ, Brodsky JL, Spector NL, Haystead TA. Identification of an allosteric small-molecule inhibitor selective for the inducible form of heat shock protein 70. *Chem Biol*. 2014 Dec 18;21(12):1648-59. **(Co-first author)**.
5. Ammar Almaaytah, Shadi Tarazi, Ahmad Abu-Alhajjaa, Yara Altall, Nizar AlShar'i, **Khaldon Bodoor**, Qosay Albalas. Enhanced antimicrobial activity of AamAP1-Lysine, a novel synthetic peptide analog derived from the scorpion venom peptide AamAP1. *Pharmaceuticals*. *Pharmaceuticals* (Basel). 2014 Apr 25;7(5):502-16.
6. **Bodoor K**, Haddad Y, Alkhateeb A, Al-Abbadi A, Dowairi M, Magableh A, Bsoul N, Ghabkari A. DNA Hypermethylation of Cell Cycle (p15 and p16) and Apoptotic (p14, p53, DAPK and TMS1) Genes in Peripheral Blood of Leukemia Patients. *Asian Pac J Cancer Prev*. 2014;15(1):75-84
7. Hughes PF, Loiselle DR, Rund LR, Speer, BL, Barrott, JJ, **Bodoor K**, Carlson, DA, Haystead, TAJ. A highly selective Hsp90 affinity chromatography resin with a cleavable linker. *Bioorganic & Medicinal Chemistry* 2012; 20(10): 3298-305.
8. **Bodoor K**, Haddad Y, Hayajneh R, Matalka I, Gharaibeh W. Evaluation of BCL-6, CD10, CD138 and MUM-1 Expression in Diffuse Large B-Cell Lymphoma patients: CD138 is a Marker of Poor Prognosis. *Asian Pacific journal of cancer prevention* 2012; 13(7): 3037-46.
9. Bodoor K, Lengyel S, Loiselle DR, Lontay B, McDonnell DP, Safi R, Wei Z, Weitzel DH, Haystead TA. Smoothelin-like 1 protein is a bifunctional regulator of the progesterone receptor during pregnancy. *The Journal of Biological Chemistry* 2011; 286(36): 31839-51.
10. **Bodoor K**, Ghabkari A, Jaradat Z, Alkhateeb A, Jaradat S, Al-Ghazo MA, Matalka I, Musleh, H, Haddad Y. FGFR3 mutational status and protein expression in patients with bladder cancer in a Jordanian population. *Cancer Epidemiology* 2010; 34(6): 724-32.
11. Lontay, B, **Bodoor K**, Weitzel DH, Loiselle DR, Fortner C, Lengyel S, Zheng D, Devente J, Hickner RC, Haystead TAJ. Smoothelin-like 1 protein regulates myosin phosphatase-targeting subunit 1 expression during sexual development and pregnancy. *The Journal of Biological Chemistry* 2010; 285(38): 29357-66.
12. Alkhateeb A, Uzrail A, **Bodoor K**. Frequency of the hemochromatosis gene (HFE) variants in a Jordanian Arab population and in diabetics from the same region. *Disease Markers* 2009; 27(1): 17-22.
13. **Khaldon Bodoor** and Brian Burke. (2003). Mitotic control of nuclear pore complex assembly. In Philippe Collas (Eds.). *Nuclear Envelope Dynamics in Embryos and Somatic Cells*, Springer. (p73-86). USA.

14. Salina D, **Bodoor K**, Eckley DM, Schroer TA, Rattner JB, Burke B. Cytoplasmic dynein as a facilitator of nuclear envelope breakdown. *Cell* 2002; 108(1): 97-107.
15. Salina D, **Bodoor K**, Enarson P; Raharjo WH, Burke B. Nuclear envelope dynamics. *Biochemistry and Cell Biology*. 2001; 79(5): 533-42.
16. **Bodoor K**, Shaikh S, Salina D, Raharjo WH, Bastos R, Lohka MJ, Burke B. Sequential recruitment of NPC proteins to the nuclear periphery at the end of mitosis. *Journal of Cell Science* 1999; 112 (Pt 13): 2253-64.
17. **Bodoor K**, Shaikh S, Enarson P, Chowdhury S, Salina D, Raharjo WH, Burke B. Function and assembly of nuclear pore complex proteins. *Biochemistry and Cell Biology*. 1999; 77(4): 321-9.
18. Bastos R, Pouplana L R, Enarson M, **Bodoor K**, Burke B. Nup84, a novel nucleoporin that is associated with CAN/Nup214 on the cytoplasmic face of the nuclear pore complex. *The Journal of Cell Biology* 1997; 137(5): 989-1000.

Patents:

Timothy A. J. Haystead, **Khaldon Bodoor**, Philip F. Hughes. Heat shock protein 70 (hsp-70) receptor ligands. Publication number: WO 2015148714 A1. Publication date: Oct 1, 2015. Duke University.

Published Abstracts:

1. **Bodoor K** and Ghabkari A (2009) Molecular profiling of bladder cancer in Jordanian patients [abstract 1651]. Presented at the Annual AACR Meeting Clinical Genetics Meeting, April 18, 2009, Denver, CO , USA.
2. Alkhateeb A, Uzrail A, **Bodoor K** (2009) Frequency of hemochromatosis gene (HFE) in Jordanian Arab controls and in a diabetic population from the same region [abstract 349]. Presented at the Annual Clinical Genetics Meeting, March 27, 2009, Tampa, FL, USA.
3. **Bodoor K**, Alkhateeb A, Haddad Y (2008) Promotor methylation profile of a group of genes in Jordanians diagnosed with leukemia [abstract C28]. Presented at the American Association for Cancer Research International Conference, March 16, 2008, Dead Sea, Jordan
4. **Bodoor K**, Jaradat S, Jaradat Z, Matalga I, Gazo M, Alkhateeb A, Gabkari A, Shorman Y (2008) FGFR3 and p53 protein expressions in Jordanian patients with bladder cancer [abstract B11]. Presented at the American Association for Cancer Research International Conference, March 16, 2008, Dead Sea, Jordan.
5. **Bodoor K**, Alkhateeb A, Haddad Y (2007) Analysis of promoter methylation for 15 genes in different types of leukemias [abstract 293]. Presented at the annual meeting of The American Society of Human Genetics, October 24, 2007, San Diego, California.

Professional Associations and Editorial Boards:

- Member of the editorial board of the *Journal of Cell Biology and Histology*. Annex Publishers.
- Member of the editorial board of the *Journal of Solid Tumors*, Sciedu Press.
- Reviewer for the Dove Medical Press journals.
- Member of the Science Advisory Board global network.
- Member of the American Association for Cancer Research.
- Member of the American Society for Cell Biology
- Member of the Duke Cancer Institute.

References:

1. Timothy Haystead, Ph.D.

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