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Education

June 1997- University of Jordan, B.Sc. in Biology.

April 2000- University of Jordan, M.Sc. in Biology.

Thesis title: “The Etiological Factors Among 702 Infertile Jordanian Couples”

Advisor: Hameed Al-Hajj, Ph. D.

July 2005- Colorado State University, Ph.D. in Developmental Biology.

Thesis title: “The Role of mDia1 During the Initiation of Polarization and Migration of Chick Embryo Cardiac Fibroblasts”

Advisor: James R. Bamburg, Ph. D., Biochemistry and Molecular Biology

Professional Experience

July 2019-present: Senior Research Scholar, Department of Biochemistry and Molecular Biology, College of Natural Sciences, Colorado State University, USA.

February 2020-Present: Professor, Dep. of Biology and Biotechnology, The Hashemite University, Zarqa, Jordan.

September 2017-August 2019: Chair, Dep. of Biology and Biotechnology, The Hashemite University, Zarqa, Jordan.

July 2018: Lead Guest Editor, Special issue “Molecular Regulation of Cancer Cell Migration, Invasion and Metastasis”, Analytical Cellular Pathology.

August 2015- July 2019: Assistant Editor, Jordan Journal of Biological Sciences.

August 2011-February 2020: Associate Professor, Dep. of Biology and Biotechnology, The Hashemite University, Zarqa, Jordan.

September 2013- September 2014: Sabbatical leave/Visiting Professor, Dep. of Pharmaceutical Engineering, German Jordanian University, Amman, Jordan.

September 2012-July 2019: Institute Review Board (IRB) member, The Hashemite University, Zarqa, Jordan.

September 2011- August 2013: Chair, Dep. of Biology and Biotechnology, The Hashemite University, Zarqa, Jordan.

September 2010-August 2011: Managing the Office of Externally Funded Projects, Deanship of Scientific Research and Graduate Studies, The Hashemite University, Zarqa, Jordan.

September 2005-August 2011: Assistant Professor, Dep. of Biology and Biotechnology, The Hashemite University, Zarqa, Jordan.

August 2002-May 2005: Student Teaching Assistant, Dep. of Biology, Colorado State University, Colorado, USA.

February 2000-June 2001: Teaching Assistant, Dep. of Biology, The Hashemite University, Zarqa, Jordan.

September 1996-December 1999: Student Teaching Assistant, Dep. of Biology, The University of Jordan, Amman, Jordan.

Honors and Awards

2018 Small Grants Program, Public Affairs Section, U.S. Embassy Amman, Jordan.

2018 NCI Summer Cancer Prevention Fellowship, The Molecular Prevention Course, National Institutes Health (NIH), National Cancer Institute (NCI), Maryland, USA.

2018 Arab-American Frontiers Fellowship, U.S National Academy of Sciences, Emory University, Georgia, USA.

2017 Summer International Scholars Program Award, College of Natural Sciences, Colorado State University, USA.

2017 Outstanding Women in Science, Venus International Foundation, Chennai, India.

2016 BBC List of the World's 100 Most Inspirational and Influential Women, BBC, London, UK.

2016 Summer International Scholars Program Award, College of Natural Sciences, Colorado State University, USA.

2015 Women in Science Hall of Fame, US Embassy, Amman, Jordan.

2013 Colorado State University Distinguished International Alumni Award, USA.

2012 Summer International Scholars Program Award, College of Natural Sciences, Colorado State University, USA.

2011 L'OREAL-UNESCO for Women in Science Pan-Arab Regional Fellowship.

2011 Organization for Women in Science for the Developing World (OWSD) Award for Young Women Scientists in Biology for the Arab Region.

2009 King Hussein Institute for Biotechnology and Cancer (KHIBC) Scholar, Amman, Jordan.

2008 First place on the Student Scientific Research Competition, King Abdullah Fund for Development, The Hashemite University.

Teaching Experience

August 2019-present: Introductory Eukaryotic Cell Biology; Colorado State University.

September 2005-August 2019: Developmental Biology, Histology, Microtechniques, Freshman Biology, Recombinant DNA Technology, Animal Tissue Culture, Gene Expression, Electron Microscopy, Cancer Biology, Advanced Cell Biology, Advanced Molecular Biology; The Hashemite University.

September 2013-Septmebr 2014: Biochemistry, Freshman Biology, Biotechnology; German Jordanian University.

Lectured and supervised lab activities for the following courses:

1997 to 2000- Embryology and General Practical Biology; The University of Jordan.

2000 to 2001- Embryology, Ecology, Animal Physiology, Histology, Electron Microcopy, Hematology, Endocrinology, and Practical General Biology; The Hashemite University.

2002 to 2005- Cell Biology; Colorado State University.

Supervised Training Courses

November 2018: Frontiers in Stem Cells, Cancer and Reproduction. The Hashemite University.

January- May 2016: Diploma in the Latest IVF Techniques & Modalities: Hands on Training. University of Jordan, Center for Studies, Consultations, and Community Services, 150 hours.

April, November 2007; April 2009, April, October 2010; May, October 2011; April, June 2012; May 2017: Principles and Practices of Assisted Reproductive Techniques. The Hashemite University, Center for Studies, Consultations, and Community Services, 36 hours.

June 2009: Cytogenetics and Molecular Cytogenetics. Balqa University, 36 hours.

Research Experience

Visiting Scientist (July-August 2018): Dep. Of Chemistry, Emory University, Atlanta, Georgia, USA.

Visiting Scientist (June-August 2017): Dep. of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, Colorado, USA.

Visiting Scientist (June-August 2016): Dep. of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, Colorado, USA.

Visiting Scientist (June-August 2012): Dep. of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, Colorado, USA.

Visiting Scientist (June-August 2011): Dep. of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, Colorado, USA.

Visiting Scientist (June-August 2010): Dep. of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, Colorado, USA.

Visiting Scientist (June-August 2008): Dep. of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, Colorado, USA.

Visiting Scientist (June-August 2007): Dep. of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, Colorado, USA.

Visiting Scientist (June-August 2006): Cancer and Hematology, and Autoimmunity and Transplantation Divisions, The Walter and Eliza Hall Institute of Medical Research, Parkville, Australia.

Research Interests

Cancer arises from changes in basic cell functions. My lab studies cellular alternations leading to cancer for a better understanding of its initiation and development. This information can help in creating and improving cancer treatments. The lab different projects focus on Cell migration, adhesion and metastasis; Mitochondrial function and apoptosis; Cytoskeleton and related

proteins; Cell cycle and Anti-tumor drugs screening. My lab collaborates with other researchers interested in basic, translational, and clinical sciences. The same biological concepts are applied in the lab projects studying male infertility.

Peer-Reviewed Publication

Abushamleh AS, Abu-Safieh KA, Khanfar MA, TaherD, **Tahtamouni LH**, Alwahsh NJ. (2021). Novel Palladium(II) Complexes of Pyrazole-Containing Schiff Base Ligands: Synthesis, Structural Characterization, and Cytotoxicity of the Palladium(II) Complexes of 2-{1-[2 (1,3-dimethyl-4-nitro-1H-pyrazol-5-yl)hydrazono]ethyl} pyridine (APHP) and its analogue 2-{1-[2-(1,3-dimethyl-4-nitro-1H-pyrazol-5-yl)hydrazono]methyl} pyridine (PCHP). *Accepted, Journal of Structural Chemistry*.

Atoum M, Al-Mazaydeh Z, Rammaha M, **Tahtamouni L**. (2020). Vitamin B12 Enhances the Anti-tumor Activity of Vitamin D against MCF-7 Breast Cancer Cells. *Submitted, Journal of the American College of Nutrition*.

Alzer H, Kalbouneh H, Alsoleihat F, Abu Shahin N, Ryalat S, Alsalem M, Alahmad H, **Tahtamouni L**. (2020). Age of the Donor Affects the Nature of in vitro Cultured Human Dental Pulp Stem Cells. *Saudi Dental Journal*, doi.org/10.1016/j.sdentj.2020.09.003.

Al-Mazaydeh ZA, Yasin SR, **Tahtamouni LH**. (2020). The implementation of Alu insertion polymorphism as a genetic marker for forensic investigation in a Jordanian population sample. *African Journal of Biological Sciences 2*: 62-71.

Barghash A, Al-Gharabli SI, Jweihan M, Tanbouz M, AlBarahmieh E, Hamad E, Al-Rifai N, AlHawari H, **Tahtamouni LH**. (2020) Angiotensin Converting Enzyme (ACE) Gene Polymorphism in Jordanian Type-1 and Type-2 Diabetic Patients. *Jordan Journal of Biological Sciences 13*: 207-211.

Tahtamouni LH, Hamdan MN, Al-Mazaydeh ZA, Bawadi RM, Rammaha MS, Zghoul AM, Ahram MA, Yasin SR. (2020). *Alu* Repeat Polymorphism in the Tissue Plasminogen Activator (*t-PA*) Gene, Seminal *t-PA* Concentration and Male Fertility Impairment. *International Journal of Reproductive Biomedicine 18*: 571-578, doi.org/10.18502/ijrm.v13i8.7496.

Nawasreh MM, Alzyoud EI, Al-Mazaydeh ZA, Rammaha MS, Yasin SR, **Tahtamouni LH**. (2020). Biological Activity and Apoptotic Signaling Pathway of C₁₁- Functionalized Cephalostatin 1 Analogues. *Steroids 58*: 108602.

Salameh B, Abu Safieh K, Al-Aqrabawi IS, Alsoubani F, **Tahtamouni LH** (2020). Synthesis and Cytotoxic Activity of Some New Bipyrazole Derivatives. *Heterocycles 100*, DOI: 10.3987/COM-20-14222.

Tahtamouni LH, Ahram M, Koblinski J, Rolfo C (2019). Molecular Regulation of Cancer Cell Migration, Invasion, and Metastasis. *Analytical Cellular Pathology 2019* <https://doi.org/10.1155/2019/1356508> (2019).

Yasin SR, AlHawari HH, Alassaf AA, Khadra MM, Al-Mazaydeh ZA, Al-Emerieen AF, **Tahtamouni LH**. (2019). *Alu* DNA Polymorphism of Human Tissue Plasminogen Activator (*tPA*) Gene in Jordanian Type 1 and Type 2 Diabetic Patients. *Iranian Biomedical Journal* 23: 423-428.

Al-Hashimi N, Shahin R, Al-Hashimi A, Al Ajeal A, **Tahtamouni L**, Basheer C. (2019). Cetyl-Alcohol-Reinforced Hollow Fiber Solid/ Liquid Phase Microextraction and HPLC-DAD Analysis of Ezetimibe and Simvastatin in Human Plasma and Urine. *Biomedical Chromatography*, doi.org/10.1002/bmc.4410.

Freij MA, Khadra MM, Abu Farsakh HA, Saleh HH, Ijmail AA, Rahal BO, Waldali MH, Najeeb NS, **Tahtamouni LH**. (2018). Low Rate of Cervical Cancer among Women with Rising Incidence of Cervical Cytological Abnormalities. The Unlearnt Lesson. *European Journal of Gynaecological Oncology* XXXVIX, no.1 doi.org/10.12892/ejgo3722.2018.

Ahram M, Mustafa E, Abu Hammad S, Alhudhud M, Bawadi R, **Tahtamouni L**, Khatib F, Zihlif M. (2018). The Cellular and Molecular Effects of the Androgen Receptor Agonist, C1-4AS-1, on Breast Cancer Cells. *Endocrine Research*, doi.org/10.1080/07435800.2018.1455105.

Khadra MM, Freij MA, Al-Mazaydeh Z, Saleh S, Kilani R, **Tahtamouni LH**. (2018). Factors Influencing Successful Pregnancy Outcomes in IVF Cycles among Jordanian Infertile Couples. *Clinical and Experimental Obstetrics & Gynecology* XLV no.6. doi.org/10.12891/ceog4268.2018.

Tahtamouni LH, Al-Mazaydeh ZA, Al-Khateeb RA, Abdellatif RN, Yasin SR. (2018). Deletion of the *Alu* Repeat in the Tissue Plasminogen Activator (*tPA*) Gene is Protective for Breast Cancer. *International Journal of Cancer Research* 14: 21-26.

Tahtamouni L, Nawasreh M, Al-Mazaydeh Z, Al-Khateeb R, Abdellatif R, Bawadi R, Bamburg J, Yasin S. Cephalostatin 1 Analogues Activate Endoplasmic Reticulum Stress Apoptotic Signaling Pathway. (2018). *European Journal of Pharmacology* 818: 400-409.

Freij MA, Khadra MM, Abu Farsakh HA, Saleh HH, Ijmail AA, Rahal BO, Waldali MH, **Tahtamouni LH**. (2017). Type Specific Prevalence of Human Papillomavirus among Women with Abnormal Cytology in Jordan. *European Journal of Gynaecological Oncology* XXXVIII(6): 901-904.

Nawasreh MM, **Tahtamouni LH**. (2017). The Effect of *Orchis anatolica* Leaves on Reproductive System-An in Vivo Study. *International Journal of Pharma Medicine and Biological Sciences* 6 (2): 63-66 (Special issue: Proceedings of the 2017 CBEEES Frankfurt conference).

Tahtamouni LH, Abdellatif RN, Al-Khateeb RA, Al-Mazaydeh ZA, Yasin SR, Al-Gharabli SI, Elkarmi AZ. (2017). *Taraxacum officinale* Root Aqueous Extract Impairs the Expression of

Spermatogonial Stem Cell Markers in Adult Rat. *Tropical Journal of Pharmaceutical Research* 16 (1): 1319-1326.

Yasin S, **Tahtamouni LH**, Al-Khateeb R, Abdellatif R, Al-Mazaydeh Z, Al-Emerieen A, Al-Khateeb H, Al-Hadidi A-H. (2016). Screening for *CYP2C19* Gene Variants in a Healthy Jordanian Population. *Tropical Journal of Pharmaceutical Research* 15(12):2745-2750.

Abu Safieh KA, Abu-Surrah AS, Tabba HD, AlMasri HA, Bawadi RM, Boudjelal FM, **Tahtamouni LH**. (2016). Novel Palladium(II) and Platinum(II) Complexes with a Fluoro Piperazinyl Based Ligand Exhibiting High Cytotoxicity and Anticancer Activity in vitro. *Journal of Chemistry*, doi.org/10.1155/2016/7508724.

Al-Noaimi M, Abu-Surrah A, **Tahtamouni LH**. (2016). Palladium (II) Complexes Incorporating Phenylazo Arylmethine Ancillary Ligands: Synthesis, Spectral and Antitumor Activity. *Arabian Journal of Chemistry* 9: S1503-S1509.

Tahtamouni LH, Al-Khateeb R, Abdellatif R, Al-Mazaydeh Z, Yasin S, Al-Gharabli S, Elkarmi AZ. (2016). Anti-spermatogenic Activities of *Taraxacum officinale* Leaves Aqueous Extract. *Veterinary Research Forum* 7(2):89-97.

Khadra MM, Freij MA, Al-Ramahi MQ, Al-Jamal AY, Thekrallah FM, **Tahtamouni LH**. (2016). Human Chorionic Gonadotropin Cut-off Value Determined by Receiver Operating Characteristic Curve Analysis is Useful but Not Absolute for Determining Pregnancy Outcomes. *Middle East Fertility Society Journal* 21(2):120-124.

Mustafa EH, Mahmoud HT, Al-Hudhud MY, Abdalla MY, Ahmad IM, Yasin SR, Elkarmi AZ, **Tahtamouni LH**. (2015). 2-Deoxy-D-glucose Synergizes with Doxorubicin or L-Buthionine Sulfoximine to Reduce Adhesion and Migration of Breast Cancer Cells. *Asian Pacific Journal for Cancer Prevention* 16(8):3213-22.

Hussein AA, Bawadi RM, **Tahtamouni LH**, Frangoul H, Elkarmi AZ. (2014). Feasibility of Collecting Umbilical Cord Blood in Jordan and the Effect of Maternal and Neonatal Factors of Hematopoietic Stem Cell Content. *Mediterranean Journal of Hematology and Infectious Diseases* 2014 Feb 18;6(1):e2014019, doi.org/10.4084/MJHID.2014.019

Yasin SR, **Tahtamouni LH**, Najeeb NS, Issa NM, Al-Mazaydeh ZA, Alfaouri AA. (2014). Genomic Integrity of the Y Chromosome Sequence-tagged Sites in Infertile and Down Syndrome Jordanian males. *Andrologia* 46(7):770-776.

Tahtamouni LH, Shaw AE, Hasan MH, Yasin SR, Bamberg JR. (2013). Non-overlapping Activities of ADF and Cofilin-1 During the Migration of Metastatic Breast Tumor Cells. *BMC Cell Biology* 14:45, doi.org/10.1186/1471-2121-14-45.

Al-Zu'be L, Al-Momani T, Al-Bataineh O, **Tahtamouni LH**. (2013). *In vitro* Characterization of Calcium Salts as Delivery Vehicles for Insulin. *Journal of Biomimetics, Biomaterials & Tissue Engineering* 17 (2013):53-58.

Tahtamouni LH. (2013). Use of Anabolic Androgenic Steroids in Jordan: Mini- Review. *Jordan Journal of Biological Sciences* 6(1):1-4.

Tahtamouni, LH, Alqurna NM, Al-Hudhud MY, Al-Hajj HA. (2011). Dandelion (*Taraxacum officinale*) Decreases Male Rat Fertility *in vivo*. *Journal of Ethnopharmacology* 135(1):102-9

Kadir S, Astin J, **Tahtamouni LH,** Martin P, Nobes C. (2011). Microtubule Remodeling is Required for the Front-Rear Polarity Switch During Contact Inhibition of Locomotion. *Journal of Cell Science* 124(Pt 15):2642-2653.

Tahtamouni LH, Bamburg JR. (2011). Redundant and Non-Redundant Functions of ADF and Cofilin in Metastasis. *Jordan Journal of Biological Sciences* 4(1):1-12

Tahtamouni LH, Mustafa NH, Hassan IM, Ahmad IM, Abdalla MY. (2010). Nandrolone Decanoate Administration to Male Rats Induces Oxidative Stress, Seminiferous Tubules Abnormalities, and Sperm DNA Fragmentation. *Jordan Journal of Biological Sciences* 3(4):165-174.

Ahmad IM, Mustafa IH, Mustafa NH, **Tahtamouni LH,** Abdalla MY. (2010). 2-Deoxy-D-Glucose Enhances the Susceptibility of Breast Cancer Cells to Doxorubicin-induced Metabolic Oxidative Damage. *Central European Journal of Biology* 5(6):739-748.

Abdalla MY, Hassan IM, Mustafa NH, **Tahtamouni LH,** Ahmad IM. (2010). Total Body Glutathione Depletion Induces Oxidative Stress and Disrupts the Immune Function in Mice. *Toxicological & Environmental Chemistry, 1-14 (iFirst)*.

Tahtamouni LH, Wahdan RA, Elkarmi AZ. (2009). Sperm Chromatin Abnormalities Evaluated by Acridine Orange Staining Effect Developmental Rate and Embryo Quality. *Jordan Journal of Biological Sciences* 2(4):171-176.

Tahtamouni LH, Mustafa NH, Alfaouri AA, Hassan IM, Abdalla MY, Yasin SR. (2008). Prevalence and Risk Factors for Anabolic-Androgenic Steroid Abuse among Jordanian Collegiate Students and Athletes. *European Journal of Public Health* 18(6):661–665.

Kile BT, Panopoulos AD, Stirzaker RA, Hacking DF, **Tahtamouni LH,** Willson TA, Mielke LA, Henley KJ, Zhang J-G, Wicks IP, Stevenson WS, Nurden P, Watowich SS, Justice MJ. (2007). Mutations in the Cofilin Partner Aip1/Wdr1 Cause Autoinflammatory Disease and Macrothrombocytopenia. *Blood* 110 (7): 2371-2380.

Al-Qaisi KH, Elkarmi A, Qnais E, **Tahtamouni L,** Abu-Samak M. (2006). Allometry of postnatal rat brain development prenatally exposed to aspirin. *Pakistan Journal of Biological Sciences* 9(7):1212-1218.

Kamel A, Qnais E, Khoury F, **Tahtamouni LH,** Massadeh M, Al-Matubsi H, Ghalyun YA. (2006). Reptilian skeletal muscle: physiological and fine structure properties of musculus

iliofibularis of the lizard *Chamaeleo chamaeleo relictus*. *Proc Fourth Internat Conf Biol Sci* 201-205.

Tahtamouni LH. (2005). The role of mDia1 during the initiation of polarization and migration of chick embryo cardiac fibroblasts. PhD, Colorado State University, 2005 DAI-B 66/08, p. 4094, Feb 2006. Proquest Dissertation and Theses.

Tahtamouni LH, Al- Hajj HA, Bata MS. (2002). Evaluation of etiological factors among 702 Jordanian infertile couples. *Middle East Fertility Society Journal* 7 (3): 73-81.

Conference Attendance

October 27-30 2020- Virtual conference-The Trans-NCI-NIH Conference on International Perspectives on Integrative Medicine for Cancer Prevention and Cancer Patient Management.

April 24-26 2018- The Eight International Congress of the Jordanian Society for Fertility and Genetics, Amman, Jordan.

May 2-3 2018- 3rd ISANH Middle East World Congress, Amman, Jordan.

November 2-4 2017- 5th Arab American Frontiers Symposium, Rabat, Morocco.

July 3-6 2017 - The V International Conference on Analytical Proteomics, Caparica, Portugal.

April 26-28 2017- The Seventh International Congress of the Jordanian Society for Fertility and Genetics, Amman, Jordan.

March 22 2017- International Conference of Chemistry and Biosciences & 15th Jordanian Chemical Conference, Mafraq, Jordan.

September 8-10 2015- The First International Conference on Natural Products and Drug Design, Amman, Jordan.

April 22-24 2015- The Sixth International Congress of the Jordanian Society for Fertility and Genetics, Amman, Jordan.

December 13-15 2014- 2nd Arab American Frontiers Symposium, Muscat, Oman.

September 13-15 2013- Reorient University Curricula to Address Sustainability (RUCAS)-Tempus Consortium. Athens, Greece.

September 29-30 2011- International Symposium on Women in Science and Engineering (WISE 2011). Putra World Trade Center, Kuala Lumpur, Malaysia,

March 7-10 2010 – The Second AACR International Conference on "Advances in Cancer Research: From the Laboratory to the Clinic", King Hussein Bin Talal Convention Center, Dead Sea, Jordan.

November 7th 2009 – 4th Conference for Scientific Research, Amman, Jordan.

October 2-3 2009 – 2nd MENA Cancer Research Conference, Amman, Jordan.

April 8-10 2009 - 3rd International Congress of the Jordanian Society for Fertility and Genetics, Amman, Jordan.

December 13-18 2008 - 48th Annual Meeting of the American Society for Cell Biology, San Francisco, California, USA.

March 16-19 2008 – The First AACR International Conference on "Advances in Cancer Research: From the Laboratory to the Clinic", King Hussein Bin Talal Convention Center, Dead Sea, Jordan.

March 4th 2008 – Third Jordan National Tempus Day, Princess Sumaya University of Technology, Amman, Jordan.

April 5-7 2007 – 2nd International Congress of the Jordanian Society for Fertility and Genetics, Amman, Jordan.

December 4-7 2004 - 44th Annual Meeting of the American Society for Cell Biology, Washington, D. C., USA.

Workshop Attendance

August 5-20 2020- Human Induced Pluripotent Stem Cell Culture Training Workshop, Stem Cell Research and Technology Resource Center, University of Colorado Boulder, USA.

February 8 2020- Genome Annotation Training Workshop, Genomics Education Partnership, Colorado State University, USA.

April 12-16 2016- 2nd Regional Climate Change and Sustainable Development Policy (CLIMASP) Tempus Workshop, Athens, Greece.

August 4-6 2015- 3rd National Regional Climate Change and Sustainable Development Policy (CLIMASP) Tempus Workshop, Amman, Jordan.

October 25-27 2014- 1st Regional Climate Change and Sustainable Development Policy (CLIMASP) Tempus Workshop, Amman, Jordan.

June 16-18 2014- 2nd National Regional Climate Change and Sustainable Development Policy (CLIMASP) Tempus Workshop, Amman, Jordan.

March 19-20 2014- 1st National Regional Climate Change and Sustainable Development Policy (CLIMASP) Tempus Workshop, Amman, Jordan.

April 16-20 2012- 3rd Regional Reorient University Curricula to Address Sustainable Development (RUCAS) Tempus Workshop, Amman, Jordan.

September 30-October 6 2012- Frontiers in Stem Cells & Regeneration, the Marine Biological Laboratory, Woods Hole, Massachusetts, USA.

February 27th 2011 - Jordan National Medical Biotechnology Development Project, King Hussein Institute for Biotechnology and Cancer in Association with The Higher Council for Science and Technology, Amman, Jordan.

May 9-12 2010 – Proposal Writing for FP7 Workshop, The Higher Council for Science and Technology & Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan, Amman, Jordan.

October 7-November 12 2009 – Proposal Writing Workshop, Scientific Research Support Fund & The Higher Council for Science and Technology, Amman, Jordan.

April 8-2009 - Oocyte and Ovarian Tissue Freezing, 3rd International Congress of The Jordanian Society for Fertility and Genetics, Amman, Jordan.

July 21-25 2008 – Essentials of Human Embryonic Stem Cell Culture Techniques, NIH/University of Minnesota, Minnesota, USA.

May 11-22 2008 - eLearning Training, Blackboard, Elluminate, Tegrity, Lectora, eLearning Center, The Hashemite University, Zarqa, Jordan.

February 28th 2008 – Workshop on Managing Refereed Scientific Journals IAJIT OpenConf, Zarqa Private University, Zarqa, Jordan.

May 7-11 2007- Training Course on RMC ultramicrotome, Oxford Brookes University, Oxford, UK.

December 14-21 2004 – Training course in Spinning Disc Confocal Microscopy, University College of London, London, UK.

February 2004- Training on Radiation Safety Program Organization, CSU Radiation Control Office, Colorado State University, USA.

December 2003- Training on Hazardous Waste Management, CSU Environmental Health Services, Colorado State University, USA.

January 2001- Training course in Electron Microscopy, Philips Company, The Netherland.

Workshops Organized

November 2018: Frontiers in Stem Cells, Cancer and Reproduction. The Hashemite University, Jordan.

March 2011: Funding Agencies and Tips for Writing a Winning Proposal Workshop. Deanship of Scientific Research & Graduate Studies, The Hashemite University, Jordan.

April 2010: Medical Applications of Stem Cells. The Hashemite University, Jordan.

April 2010: Proposal Writing Workshop. Deanship of Scientific Research & Graduate Studies, The Hashemite University, Jordan.

April 2009: Faculty of Science Scientific Fair, The Hashemite University, Jordan.

April 2007: Faculty of Science Scientific Fair, The Hashemite University, Jordan.

December 2006: Department of Biology and Biotechnology Scientific Fair, The Hashemite University, Jordan.

Presentations

- Tahtamouni, L.H. **How I became a scientist: A story of hard-earned “success”.** University Science Club 792nd Meeting, Colorado State University, USA, December 2020.
- **Tahtamouni, L.H.** Could Successful Role Model Close STEM Gender Gap in the Arab World?. Colorado State University 1st International Symposium, Colorado State University, USA, February 2020.
- **Tahtamouni, L.H.** Living Between Two Worlds: The Story of an Arabic Scientist Finding Her Way Back to Science. Women in Natural Sciences, Colorado State University, USA, December 2019.
- **Tahtamouni, L.H.** Finding My Way Back to Science. Keynote Speaker for "Research Experience for Undergraduate (REU) program. National Science Foundation (NSF)/Colorado State University, USA, August 2019.
- **Tahtamouni, L.H.** Cell Therapy for Neurological/Neurodegenerative Diseases: Potentials for Application of Stem Cell Technology. Neuronal Systems & Culture Methods for Studying Neuronal Disorders at the Cell and Molecular Level Workshop, Colorado State University, USA, July 2019.
- **Tahtamouni, L.H.** Spermatogenesis and Maturation Arrest. Frontiers in Reproduction and Stem Cells. Koc University Translational Medicine Research Center, Istanbul, Turkey, November 2018.
- **Tahtamouni L.H.** In vitro Pro-apoptotic Effects of Cephalostatin Analogues: Does ER Stress Alter Redox Homeostasis?. Royal Scientific Society, Amman, Jordan, May 2018
- **Tahtamouni L.H.** Being a Woman Scientist in Jordan; Reality, the Dream and the Future. Department of Biochemistry and Molecular Biology, College of Natural Sciences, Colorado State University, USA, August 2017.
- **Tahtamouni L.H.,** Nawasreh, M, Bamberg, J. Cephalostatin 1 Analogues Activate Atypical Apoptotic Signaling Pathway in Cancer Cells. The V International Conference on Analytical Proteomics, Caparica, Portugal, July 2017.

- Nawasreh, M, **Tahtamouni L.H.** Biological Activity of Cephalostatin 1 Analogues and Apoptotic Signaling Pathway. International Conference of Chemistry and Biosciences & 15th Jordanian Chemical Conference, Mafraq, Jordan, April 2017.
- **Tahtamouni, L.H.** Arab Women in Science: Progress and Achievements. Keynote Speaker for "Research Experience for Undergraduate (REU)" program. National Science Foundation (NSF)/Colorado State University, August 2016.
- **Tahtamouni, L.H.,** Nawasreh, M., Al-Khateeb R., Abdellatif, R., Bawadi, R. The Anti-Spermatogenic Effects of *Taraxacum officinale* or *Orchis anatolica* in Male Rodents. The 1st International Conference on Natural Products and Drug Design. University of Jordan, 8-10 September 2015.
- **Tahtamouni, L.H.** Arab Women in Science: Progress and Achievements. Keynote Speaker for "Research Experience for Undergraduate (REU)" program. National Science Foundation (NSF)/Colorado State University, August 2012.
- **Tahtamouni L.H.,** Hasan M., Shaw A., Yasin S., Bamburg J.R. Redundant Activities of ADF & Cofilin During the Migration of Metastatic Breast Tumor Cells. International Symposium on Women in Science and Engineering (WISE 2011). Putra World Trade Center, Kuala Lumpur, Malaysia, 29-30 September 2011.
- **Tahtamouni, L.H.,** and Bamburg, J.R. ADF/Cofilin: Potential anti-metastatic targets for breast cancer. 2nd Scientific Day, Faculty of Allied Health Sciences, The Hashemite University, Zarqa, Jordan, April 2011.
- **Tahtamouni, L.H.** Medical Applications of Stem Cells. The Hashemite University, Zarqa, Jordan, April 2010.
- **Tahtamouni, L.H.** Training Researchers at The Hashemite University on Writing Scientific Proposal. The Hashemite University, Zarqa, Jordan, February 2010.
- **Tahtamouni, L.H.,** De Luca, J., Bamburg, J.R., and Wiggan, O. "The role of PAK-PIX signaling to Cofilin during mitosis", 4th Conference for Scientific Research, Amman, Jordan, November 2009.
- **Tahtamouni, L.H.,** De Luca, J., Bamburg, J.R., and Wiggan, O. "The role of PAK-PIX signaling to Cofilin during mitosis", 2nd MENA Cancer Research Conference, Amman, Jordan, October 2009.
- **Tahtamouni, L. H.** "Where Does Developmental Biology Fit in the Era of Biotechnology/The Role of mDial in The Establishment of Cell Polarity", *The 2nd Scientific Day*, Department of Biotechnology and Genetic Engineering, Philadelphia University, Amman, Jordan, May 2008.
- **Tahtamouni, L. H.** "Cloning Facts", *Cambridge School Science Fair*, Cambridge School, Amman, Jordan, May 2008.
- **Tahtamouni, L. H.,** and Bamburg, J. R., "The Role of mDial in The Establishment of Cell Polarity", *Friday Afternoon Club*, Department of Biochemistry and Molecular Biology, Colorado State University, Colorado, USA, February 2004.
- **Tahtamouni, L. H.,** Bata, M., and Al-Hajj, H. A. "The Etiological factors among 702 infertile Jordanian Couples", *1st Conference for Biomedical Sciences*, Al-Zarqa Private University, Azzarqa, Jordan, April 1999.
- **Tahtamouni, L. H.,** Bata, M., and Al-Hajj, H. A. "The Etiological factors among 702 infertile Jordanian Couples", *1st Conference for Biomedical Sciences*, Al-Zarqa Private University, Azzarqa, Jordan, April 1999.

Published Abstracts

- **Tahtamouni L.H.**, Nawasreh, M, Bamburg, J. Cephalostatin 1 Analogues Activate Atypical Apoptotic Signaling Pathway in Cancer Cells. The V International Conference on Analytical Proteomics, Caparica, Portugal, July 2017.
- **Tahtamouni, L.H.** “Cancer in Jordan; Causes, Research and Future Projections” poster presentation, *2nd Arab American Frontiers Symposium*, December 2014, Muscat, Oman.
- **Tahtamouni, L. H.**, Maram Hasan, and Bamburg, J. R. “Role of ADF/cofilin in the Establishment of Polarized Migration in Metastatic Breast Cancer Cells” poster presentation, *2nd AACR International Conference on "Advances in Cancer Research: From the Laboratory to the Clinic"*, March 2010, The Dead Sea, Jordan.
- **Tahtamouni, L. H.**, DeLuca, J., Bamburg, J. R., Wiggan, O. “Role of PAK-PIX Signaling to Cofilin in Mitosis” poster presentation, *48th Annual Meeting of the American Society for Cell Biology*, December 2008, San Francisco; *Molecular Biology of the Cell* (2008)
- **Tahtamouni, L. H.**, Cramer, L. P., and Bamburg, J. R. “mDia1 Regulates Cell Adhesion and Microtubule Stabilization During Migration of Chick Embryo Cardiac Fibroblasts” poster presentation, *45th Annual Meeting of the American Society for Cell Biology*, December 2005, San Francisco; *Molecular Biology of the Cell* (2005) v.12:S.
- **Tahtamouni, L. H.**, Cramer, L. P., and Bamburg, J.R. “Role of mDia1 in Directional Migration and Polarization of Chick Embryo Cardiac Fibroblasts” poster presentation, *44th Annual Meeting of the American Society for Cell Biology*, December 2004, Washington, D. C.; *Molecular Biology of the Cell* (2004) v.12:S.
- Flynn, K., **Tahtamouni, L. H.**, and Bamburg, J. R., “Interactions Between Microtubules and Actin During Axon Formation” poster presentation, *Biochemistry Annual Retreat*, August 2004, Pingree Park, Colorado, USA.
- **Tahtamouni, L. H.**, and Bamburg, J. R., “The role of mDia1 in the Establishment of Cell Polarity” poster presentation, *Biochemistry Annual Retreat*, August 2003, Pingree Park, Colorado, USA.

In-School Publications

- * Experimental Developmental Biology, a Laboratory Manual.
- * Principles and Practices of Assisted Reproductive Techniques, Training Course Booklet.
- * Gene Expression, a Laboratory Manual.
- * Techniques in Tissue Culture, a Laboratory Manual.
- * Recombinant DNA Technology, a Laboratory Manual.
- * Cytogenetics and Molecular Cytogenetics, Training Course Booklet.

Research Grants

- * Colorado State University, 2021, **1,872\$, COVID-19 Teaching & Research Student Employment Initiative.**
- * The Hashemite University, Deanship of Scientific Research and Graduate Studies, 2018-2020, **68,000\$. Evaluation of the anti-tumor activities of several cephalostatin 1 analogues using in vivo and in vitro assays.**

- * The Hashemite University, Deanship of Scientific Research and Graduate Studies, 2015-2018, **84,000\$**. **Evaluation of the expression profile of some actin-regulatory proteins in ADF/cofilin pathway in breast cancer.**
- * The Hashemite University, Deanship of Scientific Research and Graduate Studies, 2015-2018, **25,000\$**. **Characterization of the anti-tumor activities of two cephalostatin 1-related compounds.**
- * The Hashemite University, Deanship of Scientific Research and Graduate Studies, 2011-2014, **122,000\$**. **Sub-lethal oxidative stress mediated by combination therapy inhibits breast cancer cells adhesion and migration.**
- * The Hashemite University, Deanship of Scientific Research and Graduate Studies, 2011-2014, **78,500\$**. **Genetic polymorphisms of cytochrome P450 enzyme 2C19 (CYP2C19) in a healthy Jordanian population.**
- * King Hussein Institute for Biotechnology and Cancer (Amman, Jordan) Research Grant Award, 2009-2012, **105,000\$**. **The role of ADF/Cofilin Signaling Pathway in Establishing Polarized Migration in Metastatic Breast Tumor Cells.**
- * Jordanian Ministry of Higher Education and Scientific Research, Scientific Research Fund, 2009-2012, **63,000\$**. **The Clinical Impact of the Human Y-Chromosome's Sequence-Tag-Sites on Human Fertility.**
- * Jordanian Ministry of Higher Education and Scientific Research, Scientific Research Fund, 2009-2012, **35,000\$**. **The role of ADF/Cofilin Signaling Pathway in Establishing Polarized Migration in Metastatic Breast Tumor Cells.**
- * The Hashemite University, Deanship of Scientific Research and Graduate Studies, 2007-2010, **18,550\$**. **The effects of supraphysiological dosing of anabolic-androgenic steroids on rat sperm chromatin.**
- * The Hashemite University, Deanship of Scientific Research and Graduate Studies, 2006-2009, **9,000\$**. **Relationship between the outcomes of assisted reproductive techniques (ART) and sperm chromatin.**

Newspaper Clippings and Blogs

- https://en.wikipedia.org/wiki/Lubna_Tahtamouni
- BBC's list of the world's most inspirational and influential women for 2016. <http://ceoworld.biz/2016/11/23/bbcs-list-worlds-inspirational-influential-women-2016/>
- BBC names 21 women in health, science & tech to its '100 Women 2016' list. <http://www.beckershospitalreview.com/hospital-management-administration/bbc-names-21-women-in-health-science-tech-to-its-100-women-2016-list.html>
- 13 Arab women are in BBC's '100 Women 2016', get to know them. <http://stepfeed.com/13-arab-women-are-in-bbc-s-100-women-2016-get-to-know-them-5019;c=stepfeed>
- 13 Arab Women - The BBC'S List of the world's 100 most "inspirational and influential women" of 2016. <http://iqraa.com/en/news/5725/13-Arab-Women--The-BBCS-List-of-the-worlds-100-most-inspirational-and-influential-women-of-2016>.
- Dr. Lubna Tahtamouni One of The Top 10 Scientists In The World. <http://en.arabwomanmag.com/dr-lubna-tahtamouni-one-of-the-top-10-scientists-in-the-world/>
- Women making their marks. Dana Wilkins, International Educator Magazine, Sep-Oct, 2014, 19-29. http://www.nafsa.org/ /File/ /ie_sepoc14_women.pdf

- Unified Thought: “The Feminine Mystique: Intellectualism vs. Patriarchy”, Interview with Lubna Tahtamouni <http://oldpiano.org/?p=1656>
- Worldwide acclaim for ground breaking local heroines
<http://owsdw.ictp.it/news/Files%20for%20download/times-higher-education-article>
- Celebrating Women Scientists
<http://blogafrica.allafrica.com/view/entry/main/main/id/0E4zcMO41jU-3B4s.html>
- Empowering Arab Female Scientists
<http://www.nature.com/nmiddleeast/2013/130507/full/nmiddleeast.2013.67.html>
- 1,500 Women Speakers Worth Listening To
<http://www.michaelnugent.com/2012/08/29/1000-speakers-worth-listening-to/>
- The 2011 l’Oréal-UNESCO Pan-Arab for Women in Science Fellowships program
<http://www.forwomeninscience-panarab.org/panarab-2011fellows.html>
<http://jordanzad.com/index.php?page=article&id=57997>
http://www.petra.gov.jo/public_news/Nws_NewsDetails.aspx?Menu_ID=&Site_Id=2&lang=1&NewsID=46059&CatID=14
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<http://almadenahnews.com/newss/news.php?c=117&id=110218>
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<http://test.radiosawa.us/content/article/8307.html>
<http://www.egyptindependent.com/node/505820>
<http://en.ammonnews.net/article.aspx?articleNO=14122>
<http://www.ragmag.co/cat/1/for-women-in-science>
- OWSD Awards for Young Women Scientists from the Developing World - Biological Science -Elsevier Foundation (EF)
- Eleven Women Scientists Announced as Winners of Elsevier Foundation OWSD Awards
<http://www.elsevier.com/about/press-releases/corporate-social-responsibility/eleven-women-scientists-announced-as-winners-of-elsevier-foundation-owsd-awards>
<http://www.assabeel.net/local-news/local/54711>
<http://assawsana.com/portal/pages.php?newsid=54893>
<http://www.scidev.net/global/gender/feature/award-encourages-female-scientists-in-developing-world.html>
<http://www.jor1jo.com/showthread.php?t=126956>
<http://www.raiseproject.org/index.php?page=Detail&id=2840&number=100>
http://www.women.jo/ar/news_details.php?news_id=2283
- College of Natural Sciences Summer International Scholars Program
http://www.natsci.colostate.edu/files/2013/04/tahtamouni_flyer.pdf
<http://www.natsci.colostate.edu/faculty-staff-2/summer-international-scholars-program/>

Scientific Society Membership

* American Society for Cell Biology/USA: Member since 2004

- * Jordan Society for Scientific Research (JSSR): Member since 2005
- * Organization for Women in Science for the Developing World (OWSD): Member since 2009
- * Arab Science and Technology Foundation (ASTF), Women Network in Science and Technology: Member since 2011
- * The Jordanian Society for Fertility and Genetics: Member since 2015

Journal Editorial Board Membership

March 2011- Present: Member of the Editorial Advisory Board of TANG (International Journal of Humanitas Medicine).

August 2015- Present: Member of the Editorial Board of Henry Journal of Cellular & Molecular Oncology.

January 2020- Present: Member of the Editorial Board of SEJ Life Science.

June 2020- Present: Member of the Editorial Board of OSP Journal of Immunology.

June 2020- Present: Member of the Editorial Board of Analytical Cellular Pathology.

October 2020- Present: Member of the Editorial Board of American Journal of Bioscience.

March 2021- Present: Member of the Junior Editorial Board of Cancer Drug Resistance.

Graduate Projects Supervision

* **2018-2020-** Ahmad Alzghoul, The Role of DHT/iAR on Microfilament Reorganization and Actin Associated Proteins in MDA-MB-453 Cell Line, Department of Biology and Biotechnology, The Hashemite University.

* **2017-2019-** Mahmoud Hamdan, Association Between *Alu*-repeat I/D Polymorphism of *t-PA* Gene and Male Fertility Impairment, Department of Biology and Biotechnology, The Hashemite University.

* **2014-2016-** Elham Alzyoud, Biological Activity and Apoptotic Signaling Pathway for Cephalostatin 1 Analogues, Department of Biology and Biotechnology, The Hashemite University.

* **2013-2015-** Reema Al-Khateeb, The effect of flowers and leaves extract of *Taraxacum officinale* on spermatogonial stem cells, Department of Biology and Biotechnology, The Hashemite University.

* **2013-2015-** Reem Abd Al-Lateef, Gene regulation of spermatogonial stem cell specific markers under the effect of *Taraxacum officinale* stem and root, Department of Biology and Biotechnology, The Hashemite University.

* **2012-2014-** Ala'a Al-Emerieen, CYP2C19*2 and *3 genotypes determined by polymerase chain reaction/restriction fragment length (PCR/RFLP) assay, Department of Biology and Biotechnology, The Hashemite University.

* **2009-2011-** Maram Husni, The role of ADF/cofilin signaling pathway during the metastasis of MTLn3 breast adenocarcinoma cells, Department of Biology and Biotechnology, The Hashemite University.

* **2009-2011-** Huda Mahmoud, Oxidative Stress Mediated by Glutathione Depletion Regulates Breast Cancer cells Metastasis and Adhesion, Department of Biology and Biotechnology, The Hashemite University.

* **2009-2012-** Randa Bawadi, The Effect of Maternal Age, Number of Previous Births and Gender of the Fetus on the Quality of Umbilical Cord Blood in the Jordanian Population, Department of Biology and Biotechnology, The Hashemite University.

- * **2009-2011**- Ibtihal Mustafa- The Effect of Glucose Analog [2-Deoxy-D-Glucose (2DG)] in Combination with Glutathione Depletion on Doxorubicin-Induced Oxidative Damage in Breast Cancer Cells, Department of Biology and Biotechnology, The Hashemite University.
- * **2007-2010**- Noor AlQurna, The Effects of the Aqueous Extract of *Taraxacum officinale* on Male Rats Fertility, Department of Biology and Biotechnology, University of Jordan.
- * **2006-2008**- Noor Mustafa, The effects of supraphysiological dosing of anabolic-androgenic steroids on rat sperm chromatin abnormalities, Department of Biology and Biotechnology, The Hashemite University.
- * **2005-2009**- Rania Wahdan, Relationship between the outcomes of Assisted reproductive technique and Seminal Fluid Analysis and Sperm DNA Fragmentation as measured by The Acridine Orange Staining, Department of Biology and Biotechnology, The Hashemite University.

Journal Reviewer

- Annals of the New York Academy of Sciences
- Asian Pacific Journal of Tropical Medicine
- African Journal of Biotechnology
- Andrologia
- BBA Molecular Basis of Disease
- BioArchitecture
- BMC Psychiatry
- BMC Complementary Medicine and Therapies
- BMJ Case Reports
- Current Neuropharmacology
- Current Pharmaceutical Design
- Drug Design, Development and Therapy
- International Journal of Cancer
- International Journal of Molecular Sciences
- Jordan Journal of Biological Sciences
- Journal of Medicinal Plant Research
- Journal of Assisted Reproduction and Genetics
- Journal of Cellular and Molecular Oncology
- Molecular Biology Reports
- Oncology Research and Treatment
- Scientific Reports
- TANG