
Mamoun Ahram, Ph.D.

Associate professor

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SUMMARY OF EXPERTISE AND ACCOMPLISHMENTS

- Extensive research in diverse fields including cancer and multiple sclerosis
- Research and technological expertise in biobanking, proteomics, cell and molecular biology, protein biochemistry, and enzymology
- Excellent administrative and management skills
- Exceptional presentation style including at international meetings
- Critique of international grants and research manuscripts submitted to peer-reviewed journals
- Expertise in proposal writing and patent preparation
- Establishment of national and international collaborations
- Exceptional skills in team work, problem solving, and interpersonal communication

SOCIAL MEDIA

LinkedIn: Mamoun-Ahram

ResearchGate: Mamoun_Ahram

Twitter: mamounahram

Facebook: mamoun.ahram

YouTube: mamounahram

SCIENTIFIC MEASURES

Google Scholar (h-index): 17

ISI Web of Knowledge (h-index): 12

Scopus: (h-index): 11

Publish or Perish (h-index): 17

ResearchGate: 29.90

EDUCATION

9/1993-8/1999

Ph.D., Cancer Biology (minor: Pharmacology)

Graduate Program in Cancer Biology

Wayne State University (WSU), Detroit, Michigan

Dissertation: Rac1-induced invasion: intracellular proteolysis of the extracellular matrix

6/1989-5/1993 **B.S., Microbiology (minor: Biochemistry), Magna Cum Laude (Great Honors)**
Department of Microbiology
Arizona State University (ASU), Tempe, Arizona

PROFESSIONAL POSITIONS (full-time)

9/2014-current **Associate Professor**
Faculty of Medicine
The University of Jordan, Amman, Jordan

- *Teaching biochemistry and molecular biology as individual courses or as integrated modules to medical, dental, and nursing students*
- *Member of the Research Committee (August 2014-July 2016)*

7/2014-current **Head, Office of Research**
Jordan University Hospital, Amman, Jordan

- *Organizing, facilitating, and promoting research activities at JUH including pharmaceutical studies and clinical trials*
- *Setting up the procedural outlines of conducting research activities*

9/2011-8/2014 **Assistant Professor**
Faculty of Medicine
The University of Jordan, Amman, Jordan

- *Teaching biochemistry and molecule biology as individual courses or as integrative modules to medical, dental, and nursing students*
- *Head of the Instruments and Laboratories Committee (August 2013-current)*
- *Departmental representative at the Faculty Council (September, 2012-current)*
- *Member of the Conferences Committee (September, 2012-August 2013)*
- *Departmental secretariat (September, 2012-August 2013)*

6/2009-6/2011 **Director, National Biorepository Research**
Head, Proteomics and Biospecimens Research
King Hussein Institute for Biotechnology and Cancer
Amman, Jordan

- *Laying down infrastructure of a biobank and proteomics laboratory*
- *Preparing grants, proposals, documentations such as SOPs, policies, MOUs*
- *Recruiting and establishing collaborations*
- *Negotiating with vendors*
- *Interviewing and hiring*

9/2008-6/2009 **Assistant Professor**
Faculty of Medicine
Mu'tah University, Mu'tah, Jordan

- *Teaching biochemistry and molecule biology as individual courses or as integrative modules to the first three academic years*

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- 9/2007-8/2008 **Assistant Professor**
Assistant Dean for the Affairs of Basic Sciences
Faculty of Medicine
Mu'tah University, Mu'tah, Jordan
- *Supervising the first three academic years*
 - *Establishment of a research unit*
 - *Improving educational facility including a teleconference facility*
- 2/2005-8/2007 **Assistant Professor**
Assistant Dean for Testing Affairs and College Development
Faculty of Medicine
Mu'tah University, Mu'tah, Jordan
- *Supervising testing and grading process for all academic years*
 - *Co-developing a telemedicine facility*
 - *Co-managing a World Bank grant*
 - *Representing the Faculty in official meetings*
 - *Supervising the establishment of the a new building for the Faculty*
 - *Improving educational facility*
- 5/2002-9/2004 **Research scientist**
Biological Sciences Division
Battelle, Pacific Northwest National Laboratory, Richland, Washington
- 8/1999-4/2002 **Post-doctoral fellow**
Laboratory of Pathology
National Cancer Institute (NCI), National Institutes of Health (NIH),
Bethesda, Maryland

TEACHING EXPERIENCE

- Expertise in teaching biochemistry and molecular biology and genetics
- 9/2014-current **Associate Professor**
Faculty of Medicine
The University of Jordan, Amman, Jordan
- *Teaching biochemistry and molecule biology as individual courses or as integrative modules to the medical, dental, and nursing students*
- 9/2011-8/2014 **Assistant Professor**
Faculty of Medicine
The University of Jordan, Amman, Jordan
- *Teaching biochemistry and molecule biology as individual courses or as integrative modules to the medical, dental, and nursing students*
- 2/2012-5/2012 **Part-time lecturer**
Faculty of Medicine
Hashemite University, Zarqa, Jordan
- *Teaching biochemistry to second- and third-year students*
- 9/2011-1/2012 **Part-time lecturer**
Faculty of Medicine
Hashemite University, Zarqa, Jordan
- *Teaching molecular biology and genetics to second-year students*
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- 6/2011-8/2011 **Part-time lecturer**
Faculty of Medicine
Jordan University, Amman, Jordan
- *Teaching molecular biology and genetics to second-year students*
- 6/2010-8/2010 **Part-time lecturer**
Faculty of Medicine
Jordan University, Amman, Jordan
- *Teaching general biochemistry to first-year students*
- 2/2010-5/2011 **Part-time lecturer**
Faculty of Medicine
Mu'tah University, Mu'tah, Jordan
- *Teaching biochemistry, and molecule biology as integrative modules to second and third academic years*
- 2/2005-6/2009 **Assistant Professor**
Faculty of Medicine
Mu'tah University, Mu'tah, Jordan
- *Teaching biochemistry, and molecule biology as individual courses or integrative modules to the first three academic years*
- 9/2004-2/2005 **Lecturer**
Department of Biotechnology and Genetic Engineering
Philadelphia University, Jarash, Jordan
- *Teaching general biology courses to science-oriented students*
- 9/1991-12/1992 **Tutor, promoted to Lead Tutor**
Educational Support Program, ASU
- *Teaching courses of biology, biochemistry, and organic chemistry to college students in need*

RESEARCH TRAINING

I. Post-doctoral:

- 5/2002-9/2004 **Biological Sciences Division**, Battelle, Pacific Northwest National Laboratory, Richland, Washington
- *Proteomics, Cell culture, mass spectrometry, immunoassays, and large-scale data analysis*
 - *Isolation of yeast cells expressing specific immunoglobulin Fab fragments by flow cytometry*
- 8/1999-4/2002 **Laboratory of Pathology**, National Cancer Institute (NCI), National Institutes of Health (NIH), Bethesda, Maryland
- *Proteomic profiling of prostate and esophageal cancer using human and mouse tissues*
 - *Knowledge in histological techniques and pathological interpretation of prostate and esophageal cancers*
 - *Development of novel technologies for protein labeling in human tissues*
 - *Negotiation with representatives of a major company for promotion of an aforementioned technology*

II. Graduate:5/1994-8/1999 **Program in Cancer Research, WSU School of Medicine**

- *Elucidation of a mechanism of cell invasion using a plethora of biochemical, cellular, molecular, and immunofluorescent techniques*
- *Experience in cell imaging including fixed and live cells by confocal microscopy*
- *Practical understanding of signal transduction pathways*

III. Undergraduate:1/1992-8/1993 **Department of Microbiology, ASU**

- *DNA isolation and sequencing of a pathogenic bacterial gene*

RESEARCH FUNDING

- 06/2017-current **The Role of regulator G protein signaling 2 protein in dihydrotestosterone-induced epithelial-to-mesenchymal transition of molecular apocrine MDA-MB-453 breast cancer cell line.** (Master's thesis). Deanship of Higher Studies, The University of Jordan. Student: Dana Al-Safadi. JD 1,500 (\$2,100).
- 06/2017-current **Effect of SNAIL2 in inducing dihydrotestosterone-induced epithelial-mesenchymal transition in MDA-MB-453 cells.** (Master's thesis). Deanship of Higher Studies, The University of Jordan. Student: Mohammad Salah. JD 1,500 (\$2,100).
- 07/2017-current **Investigating the genotype-phenotype correlation of Familial Mediterranean Fever among Jordanians and cytokine inflammatory biomarkers.** (Master's thesis). Deanship of Higher Studies, The University of Jordan. Student: Areen Abdallat. JD 1,500 (\$2,100).
- 07/2017-current **Does the androgen hormone, dihydrotestosterone, regulate expression of metalloprotease 13 in breast cancer T47D cells via microRNA-148a?** (Master's thesis). Deanship of Higher Studies, The University of Jordan. Student: Nahed Saber. JD 1,500 (\$2,100).
- 09/2017-current **The molecular mechanism of the anti-proliferative effect of membrane androgen receptor on breast MDA-MB-453 cells.** (Master's thesis). Deanship of Higher Studies, The University of Jordan. Student: Taghreed Hasheesh. JD 1,500 (\$2,100).
- 06/2017-current **Development of an enzymatic fluorometric assay for the diagnosis of Gaucher disease.** Deanship of Scientific Research, The University of Jordan, Students: Saffarini S, Soud S, and Al-Ani R (medical students). JD 500 (\$700).
- 06/2017-current **Development of an enzymatic assay for the diagnosis of Biotinidase deficiency.** Deanship of Scientific Research, The University of Jordan, Students: Adawi M, Dwekat, O, and Zaghoul L (medical students). JD 500 (\$700).
- 02/2017-current **The Cellular and Molecular Effects of Androgen Receptor Agonist, CI-4AS-1 on Breast Cancer Cells.** King Abdullah II Fund for Development

(KAFD), Dana Amer and Deema Masarweh (Bachelor's students). JD 5,000 (\$7,000).

- 10/2015-current **Correlation of androgen receptor expression with epithelial-to-mesenchymal transition in breast cancer.** Scientific Research Find, Ministry of Higher Education and Scientific Research, JD 80,300 (\$114,700).
- 8/2015-current **Role of androgens in differential profiling of miRNA among breast cancer subtypes.** Scientific Research Find, Ministry of Higher Education and Scientific Research, JD 94,700 (\$135,285).
- 9/2015-08/2017 **DHT regulation of integrin α expression in breast cancer cells.** Deanship of Scientific Research, The University of Jordan, JD 10,000 (\$14,000).
- 8/2015-06/2017 **Role of androgens in miRNA expression in triple negative breast cancer** (Doctoral thesis). Student: Nihad Othman (Advisor: Mamoun Ahram, Hana Hammad). JD 3,000 (\$4,300).
- 5/2015-8/2016 **MicroRNA expression in pediatric anaplastic ependymomas grade III and normal ependymal cells.** King Abdullah II Fund for Development (KAFD), Justin Amrin and Haya Suradi (medical students). JD 5,500 (\$7,850).
- 5/2015-8/2016 **MicroRNA profiling in grade II pediatric ependymomas.** King Abdullah II Fund for Development (KAFD), Mona Makhamreh and sultan Abdelhamee (medical students). JD 5,500 (\$7,850).
- 3/2015-06/2016 **Association of HLA-DRB1*1501 with multiple sclerosis in Jordan.** Abdul Hameed Shoman Fund for Supporting Scientific Research, Students: Ghadeer Al-Najjar and Ethar Abu Salameh (medical students). JD 8000 (\$11,400).
- 5/2014-06/2016 **Association of CLEC16A with multiple sclerosis in Jordan.** Deanship of Scientific Research, The University of Jordan, Students: Hammoudeh H and Shaar A (medical students). JD 500 (\$700).
- 5/2014-5/2015 **Investigation of genetic polymorphisms of the intercellular adhesion – molecule-1 (ICAM-1) among multiple sclerosis patients in Jordan** (Master's thesis). Deanship of Higher Studies, The Hashemite University. Student: Baha' Mustapha. JD 500 (\$700).
- 10/2013-02/2015 **The effects of metformin and androgen receptor modulators on breast cancer cell proliferation and cell cycle progression.** Deanship of Scientific Research, The University of Jordan, Student: Hanin Kayed (medical student). JD 500 (\$700).
- 8/2013-closed **Investigation of CYP24A1, CYP27B1 and 25-Hydroxyvitamin D association with multiple sclerosis in Jordanian patients** (Master's thesis). Faculty of Higher Studies, The University of Jordan. Student: Mohammad Shraideh. JD 1,500 (\$2,100).

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- 6/2013-12/2015 **The Effect of membrane androgen receptors on cellular behavior of breast cancer cell lines** (Master's thesis). Faculty of Higher Studies, The University of Jordan. Student: Rasha Zamel. JD 1,500 (\$2,100).
- 04/2013-closed **MicroRNAs in the cerebrospinal fluid as biomarkers for the diagnosis, staging, prognosis and disease activity in Glioma patients.** Abdul Hameed Shoman Fund for supporting scientific Research, JD 7000 (\$10,000).
- 02/2013-6/2016 **The three axes of breast cancer cell invasion: androgen receptor-integrins- proteases.** Scientific Research Fund, Ministry of Higher Education and Scientific Research, JD 63,500 (\$90,500).
- 02/2013 12/2015 **Expression and genetic polymorphism of androgen receptor in breast cancer.** Scientific Research Fund, Ministry of Higher Education and Scientific Research, JD 41,600 (\$59,300). Co-advisor with Dr. Fatima Obeidat.
- 09/2012-05/2013 **Genetic variations of IL-7R and IL-2R in Jordanian multiple sclerosis patients** (Master's thesis). Faculty of Higher Studies, The University of Jordan. Student: Leena Ibyan. JD 2,000 (\$2,800).
- 03/2012-3/2015 **Androgen regulation of microRNA expression in breast cancer cells,** Deanship of Scientific Research, The University of Jordan, JD 12,900 (\$18,000).
- 3/2012-5/2015 **The effect of androgen on breast cancer cell invasion,** Deanship of Scientific Research, University of Jordan, JD 20,000 (\$28,000).
- 1/2012- 05/2013 **Investigation of MERTK and TYK2 association with multiple sclerosis among Jordanian patients.** (Master's thesis). Faculty of Higher Studies, The University of Jordan. Student. Rand Zaza. JD 2,000 (\$2,800).
- 4/2007-1/2009 **Association of Chlamydia pneumoniae and human herpes virus-6 (HHV-6) to multiple sclerosis.** Deanship of Scientific Research, Mu'tah University, JD 10,000 (\$14,300)
- *The first molecular biology project at the Faculty of Medicine, Mu'tah University*
 - *Involved collaboration with three neurologists from different hospitals*
 - *Completed successfully with the publication of two manuscripts*

HONORS AND AWARDS

- 2/2016 **Best abstract;** 10th Middle East Best of San Antonio Breast Cancer Symposium, Ministry of National Guards-Health Affairs, November 6-7, 2016 Jeddah, Saudi Arabia.
- 9/2010 **Travel Award;** Higher Council for Science and Technology, for the attendance of 14th International Biotechnology Symposium and Exhibition, Biotechnology for the Sustainability of Human Society, September 14-18, 2010, Rimini, Italy .
- 9/2006 **TWAS Prize for Young Scientist,** The Academy of Sciences for the Developing World, Trieste, Italy.
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7/2006	20th International Medical Convention , National Arab American Medical Association (NAAMA).
1/2005	Nominated as “best instructor , Philadelphia University.
4/2002	Scholar-in-Training Award , American Association for Cancer Research (AACR).
9/1998	Poster Presentation , The Second Annual WSU Research Day, WSU
12/1997	Employee Recognition Program , The Barbara Ann Karmanos Cancer Institute, WSU.
7/1995	Graduate School Travel Award , WSU, for the attendance of Histopathobiology of the Neoplasia (5 days), American Association for Cancer Research (AACR), Keystone, Colorado.
12/1991	Academic Excellence Award , Educational Support Program, ASU.
5/1991	Research Writing, First Place , Department of English, ASU.
1989-1993	Dean's Honor List , ASU.

WORKSHOPS, TRAINING, AND CERTIFICATES

4/2016	Academic & Educational Counseling , Dr. Asad Al-Zoubi. Faculty of Medicine, The University of Jordan, Amman, Jordan, April 2, 2016.
10/2015	Preparing Research Clinicians in the Field of Ethics and Bioethics . Islamic Organization for Education, Science, and Culture, Amman, Jordan. October 5-7, 2015.
6/2015	Good Clinical Practice (GCP) , Ali Abu-Alfa, American University in Beirut, Sponsored by Novartis, Jordan University Hospital, Amman, Jordan.
12/2014	Good Clinical Practice (GCP): the effective investigator (1 day), IAOCR, Sponsored by Novartis, Dubai, United Arab Emirates, December 4, 2014.
12/2014	Good Clinical Practice (GCP): Introduction to GCP for investigators and site staff (1 day), IAOCR, Sponsored by Novartis, Dubai, United Arab Emirates, December 3, 2014.
6-7/2012	Statistical Methods in the Health Field (30 hours), Center for Educational Development, University of Jordan, June 10-July 1, 2012.
3/2011	Protecting Human Research Participants , a web-based course is offered by the NIH Office of Extramural Research; performed as part of the “ <i>Oncology Clinical trials in the Arab Countries</i> ” conference, March 4-5, 2011.
3/2010	Good Clinical Practice (GCP) Training for Investigators (full day), Roche, Amman
4-5/2009	Statistical Packages for Social Sciences (SPSS) (8 hours), Mu'tah University
4/2008	Electronic learning system (Moodle) (8 hours), Mu'tah University
7/2007	Chromatographic applications (3 hours), Prince Faisal Center for Dead Sea, Environmental, and Energy research, Mu'tah University
7/2006	Advanced Cardiac Life Support (ACLS) Provider (3 days), American Heart Association (AHA)
11-12/2005	Habilitation of the Academic Staff (2 hours), Mu'tah University
10/2005	The Second Jordanian National Tempus Day (full day), Jordanian University
3-5/2005	Mutah University Computer Driving License (8 hours), Mu'tah University
3/2005	Creativity at Universities (2 hours), Mu'tah university
5/2004	LC/MS: The techniques of electrospray and APCI (4 hours), The American Society for Mass Spectrometry
3/2002	Proteomics: Principles and Methods (3 days), NIH
3/2000	Special topics in recombinant DNA (6 days), NIH

- 12/1999 **Expression, detection, and purification of recombinant proteins in prokaryotic and eukaryotic cells** (3 days), NIH
- 7/1995 **Histopathobiology of the Neoplasia** (5 days), American Association for Cancer Research (AACR), Keystone, Colorado

SCHOLARSHIPS AND FELLOWSHIPS

- 8/1999-4/2002 **Cancer Research Training Award**, NCI, NIH
- 7/1996 **A NCI fellowship to participate in the Histopathobiology of the Neoplasia**
- 8/1995 **Graduate Research Assistantship**, WSU
- 8/1993-8/1995 **Thomas Rumble Fellowship** (*a university-wide competitive fellowship*), WSU
- 1/1991 **The International Student Office**, ASU

AFFILIATIONS

- 1996-current American Association for Cancer Research
- 1999-2000 International Proteolysis Society
- 1992 American Society for Microbiology

MEETING ORGANIZATION

- 10/2016 **Arab simulation conference in Medical Education**, The 3rd International Conference of the School of Medicine, University of Jordan and the 8th International Conference for the Scientific Society of the Arab Faculties of Medicine. Faculty of Medicine, The University of Jordan.
- 11/2009 **The Fourth Conference on Scientific Research in Jordan: Cancer in Jordan**. The Jordan Society for Scientific Research.
- 10/2009 **The Second Middle East and North Africa (MENA) Conference**, King Hussein Institute for Biotechnology and Cancer in collaboration with National Cancer Institute, Duke University, and European School of Oncology, Amman, Jordan.
- 4/2007 **The 3rd conference of the Faculties of Medicine at Jordanian Universities**, Mu'tah University
- 7/2006 **The 20th International Medical Convention** of The National Arab American Medical association (NAAMA-USA), Jordan
- 9/1998 **The WSU Graduate Student Research Day**, WSU
- 9/1997 **The WSU Graduate Student Research Day**, WSU
- 5/1995 **Lake Ontario Metastasis Group Meeting**, WSU

PANEL DISCUSSIONS

- 7/2001 **Introduction to Proteomics Analysis on Microsamples**
Laser Capture Microdissection and Macromolecular Analysis of Normal Development and Pathology, NIH
- 7/2001 **Proteomics Analysis on Microsamples**
Laser Capture Microdissection and Macromolecular Analysis of Normal Development and Pathology, NIH

EDITORIAL BOARDS

- 03/2010-current Molecular Biology International, Hindawi Publishing Corporation, New York. ISSN: 2090-2190.

DOCTORAL STUDENT SUPERVISION

Current Role of androgens in miRNA expression in triple negative breast cancer, student: Nihad Othman (Advisor: Mamoun Ahram, Hana Hammad).

MASTER'S STUDENT SUPERVISION

Dana

M Salah

Nahed

Taghreed

6/2017 Adrenomedullin: Apotential anti-cancer target for colorectal cancer. Student: Dania Najib (Advisor: Mazen Al-Salihi, Mamoun Ahram).

Current Prevalence of IgH and TcR Gene rearrangements in children with lymphocytosis. Student: Hasan Al-Najjar (Advisors: Tareq Odaili, Mamoun Ahram).

6/2017 Etoposide genotoxicity and tempol protective effects on human lymphocytes. Student: Hashem Al-Mousa (Advisors: Bilal Al-Azab, Mamoun Ahram)

7/2016 The androgen receptor CAG repeat polymorphism and X-chromosome inactivation among Jordanian women with uterine leiomyoma and leiomyosarcoma. Student: Amni Bustanji (Advisors: Nisreen Abu Shahin, Mamoun Ahram).

7/2016 Examining of specific gene mutations in lymphoid and myeloid malignancies by Immunohistochemistry. Student: Nezeen Abu Al-Haj (Advisors: Tareq Al-Adaily, Mamoun Ahram).

5/2016 Androgen regulation of metalloprotease-13 (MMP-13) via the microRNA molecules, miR-100-5p and miR-125b-5p. Student: Heba Jarrar (Advisor: Mamoun Ahram).

5/2016 Regulation of let-7 microRNA molecules by dihydrotestosterone in breast cancer. Student: Razan Al-Saber (Advisor: Mamoun Ahram).

5/2015 (*withdrew*) Investigation of CYP24A1, CYP27B1 AND 25-Hydroxyvitamin D association with Multiple Sclerosis in Jordanian Patients. Student: Mohammad Sharaideh (Advisors: Azmi Mahafzah, Mamoun Ahram).

5/2015 Investigation of genetic polymorphisms of the intercellular adhesion molecule-1 (ICAM-1) among multiple sclerosis patients in Jordan. Student: Baha' Mustapha (Advisors: Salim Abdul-Rahman-Hashemite University, Mamoun Ahram).

12/2014 The Effect of Membrane Androgen Receptors on Cellular Behaviour of Breast Cancer Cell Lines. Student: Rasha Zamel (Advisors: Mohammad El-Khateeb, Mamoun Ahram).

5/2013 Investigation of MERTK and TYK2 association with Multiple Sclerosis in Jordanian Patients. Student: Rand Zaza (Advisors: Mohammad El-Khateeb, Mamoun Ahram).

5/2013 Genetic variations of IL-7R and IL-2R in Jordanian Multiple Sclerosis patients. Student: Leena Ibayyan (Advisors: Mohammad El-Khateeb, Mamoun Ahram).

MEDIA INTERVIEWS AND ARTICLES AS EXPERT

7/2017 "Chief medical officer calls for gene testing revolution", *BBC Arabic TV Channel*.

2/2017 "Aspirin 'might boost cancer therapy'", *BBC Arabic TV Channel*.

1/2017 "Identification of 14 new childhood developmental disorders", *BBC Arabic TV Channel*.

- 11/2016 “Gut bacteria 'may help drugs fight cancer”, *BBC Arabic TV Channel*.
- 10/2016 “Smoking -causes hundreds of DNA changes”, Extra, *BBC Arabic Radio Station*.
- 10/2016 “Immunotherapy is a potential revolution in treating cancer”, *BBC Arabic TV Channel*.
- 06/2016 “Scientists discover an inherited gene for MS”, *BBC Arabic TV Channel*.
- 04/2016 “Gene editing 'boosts' cancer-killing cells.” *BBC Arabic TV Channel*.
- 01/2016 “UK scientists ready to genetically modify human embryos.” *BBC Arabic TV Channel*.
- 01/2016 “Gene editing treats disease in mice.” *BBC Arabic TV Channel*.
- 12/2015 “Editing embryonic genes to prevent diseases”. *BBC Arabic TV Channel*.
- 12/2015 “Scientists seek to edit embryo genes”. *BBC Arabic TV Channel*.
- 09/2015 “Is another person living inside you?” Extra, *BBC Arabic Radio Station*.
- 09/2015 “BBC New test developed to measure healthy aging.” *BBC Arabic TV Channel*.
- 08/2015 “Genetically modified embryos 'essential', says report.” *BBC Arabic TV Channel*.
- 07/2015 “Deafness could be treated by virus, say scientists.” *BBC Arabic TV Channel*.
- 07/2015 “Risks of consanguineous marriage”. Extra, *BBC Arabic Radio Station*.
- 12/2014 “New hope in the treatment of cancer”. *SciDev.Net*.
<http://www.scidev.net/mena/disease/news/Research-helps-to-unlock-secrets-of-recurring-cancers.html>
- 08/2013 “Corona Virus in Saudi Arabia.” *BBC Arabic TV Channel*.
- 04/2013 “American scientists receive an award for cancer drug discovery.” *Aljazeera TV Channel*.
- 04/2012 “Cancer awareness.” *Beit Hawa' (Eve's Home), Hayat FM radio station*.
- 11/2011 “The Dead Sea...is it really dead?” *Aljazeera TV Channel*.
- 01/2011 “Discovery of a novel gene that prevents cancer metastasis.” *Aljazeera TV Channel*.
- 10/2010 “New study claims ADHD 'has a genetic link'.” *BBC News Arabic TV Channel*.
- 06/2010 “The truth about the artificial cell”, *Al-Doha Magazine, Issue 33*.
- 05/2010 “Scientists create synthetic cells.” *Aljazeera TV Channel*.
- 04/2010 “Genetic manipulation of female eggs stirs controversy.” *Aljazeera TV Channel*.
- 04/2010 “Gender issues in female athletes: the case of Caster Semenya.” *BBC News Arabic TV Channel*.

RESEARCH ARTICLES IN PEER-REVIEWED JOURNALS

In preparation (corresponding author)*

- 1 Gaghabir M, **Ahram M**. The role of knowledge about smoking as cancer causing among Jordanians.
- 2 **Ahram M**. Clinical trials in Jordan.
- 3 Hassona Y, **Ahram M**, Zihlif M, Hijawi M, Cirillo N, Parkinson EK, Prime S. Ethanol induces senescence of stromal fibroblasts and promotes discohesion and migration of oral cancer cells.

Submitted (corresponding author)*

- 4 **Ahram M***, Zaza R, Mustapha E, Bawadi R, , Abu Hammad S, Abdullallah S, Zihlif M. Differential expression and androgen regulation of microRNAs and metalloprotease 13 in breast cancer cells.

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- 5 Mustafa B, Mustafa, E , Boujalal F, Abderrahman Sm **Ahram M***. Association of a nonsynonymous polymorphism of the intercellular adhesion molecule-1 with multiple sclerosis.
- 6 **Ahram M***, Mustapha E, Abu Hammad S, Zihlif M. The androgen receptor agonist, CI-4AS-1, possesses unique effects on breast cancer cells: a potential therapeutic benefit.
- 7 **Ahram M***, Bani Ahmad K. Biobanking in Islam. In *Encyclopedia in Islamic Bioethics*. Oxford University Press.

Accepted for publication (* corresponding author)

- 8 **Ahram M***. Ethical issues in biobanking. In: Ethical Issues in Research in the Middle East, Ed.: Silverman H. Springer International Publishing AG, Cham. 2017.

Published (* corresponding author)

- 9 Zaza R, Ibayyan L, Dahbour S, El-Omar, Samhouri B, El-Khateeb M, **Ahram M***. Association of MERTK genetic polymorphisms among multiple sclerosis patients in Jordan. *Biomed Res*; 28 (1): 399-404, 2017.
- 10 Hassona YM, **Ahram M**, Odeh N, Abu Ghosh M, Scully N. Perception of dental patients towards biobanking. *Med Princ Pract*, 25:323-328, 2016.
- 11 Abu Shrea'a E, Awidi A, **Ahram M**, Zihlif MA. Alteration of gene expression in MDA453 breast cancer cell line in response to continuous exposure to trastuzumab. *Gene*, Zihlif MA. *Gene*, 575, 415–420, 2016.
- 12 **Ahram M***, Soubani M, Abu Salem L, Saker H, Ahmad M. Knowledge, attitudes, and practice regarding genetic testing and genetic counselors in Jordan: A population-based survey. *J. Genet. Counsel*, 24(6):1001-1010, 2015.
- 13 Othman A, **Ahram M**, Tarawneh M, Shahrouri M. Knowledge, Attitudes and Practices of Breast Cancer Screening among Women in Jordan. *Health Care Women Int.*, 36(5): 578-592, 2015.
- 14 Othman A, Akhu-Zahiya L, **Ahram M**, Jaghabir M. Women's Preferences for Cancer Related Information: Evidence from a National Survey. *J Am Sci.*, 10(9): 98-104, 2014.
- 15 Akhu-Zahiya L, Otham A., Jaghabir M, **Ahram M**. Media use for Seeking Health/Cancer-related Information: Findings from Knowledge, Attitudes and Practices toward Cancer Prevention and Care Survey in Jordan. *Int J Nurs Pract*, 20(6):608-15, 2014.
- 16 **Ahram M***, Zaza R, Ibayyan I, Dahbour S, Bahou Y, El-Omar A, Samhouri B, El-Khateeb M. Towards Establishing a Multiple Sclerosis Biobank. *Int J Neurosci*, 124(11):812-7, 2014.
- 17 Gaghabir M, Al-Shareef S, **Ahram M**. Quitting smoking and utilization of smoking cessation services in Jordan: a population-based survey. *East Mediterr Health J.*, 20(9):538-46, 2014.
- 18 Gaghabir M, Al-Shareef S, **Ahram M**. Pattern of cigarette and waterpipe smoking in the adult population of Jordan. *East Mediterr Health J.*, 20(9):529-37, 2014.
- 19 Ibayyan L, Zaza R, Dahbour S, El-Omar, Samhouri B, El-Khateeb M, **Ahram M***. The promoter SNP, but not the alternative splicing SNP, is linked to multiple sclerosis among Jordanian patients. *J. Mol. Neurosci*, 52, 467-72, 2013.
- 20 **Ahram M***, Othman A., Shahrouri M, Mustafa, E. Factors influencing public participation in biobanking. *Eur J Hum Gen*, 22(4): 445-51, 2014.
- 21 Othman A, **Ahram M**, Obeidat N, Obeidat N, Tarawneh M. Barriers for Mammography among Non-Adherent Women in Jordan: A National Survey. *Life Sci J.* 10(4): 2268-2274, 2013.
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REVIEW ARTICLES (* *corresponding author*)

- 39 **Ahram M***, Petricoin EF. Proteomics discovery of disease biomarkers. *Biomarker Insights* 3: 325-333, 2008.

- 40 Ahram, M*. SELDI: a new comer into diagnostic medicine. *Jordan Med. J.* 41: 111-116, 2007.
- 41 Ahram, M*. An introduction into proteomics and its clinical applications. *Saudi Med J* 28: 499-507, 2007.
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BOOKS

- 47 “General Laboratory Safety Manual (GLSM)””; prepared by a group of professors and other staff from the University of Jordan Hamdi Mango Center for Scientific Research, the University of Jordan

BOOK CHAPTERS

- 48 **Ahram M** and Emmert-Buck MR. Emerging technologies in prostate cancer research. In *Prostate Cancer; Scientific and Clinical Aspects-Bridging the Gap*. PD Abel and E-L Lalani, Eds. (Imperial College Press, London, UK). Pp. 619-645, 2003.
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INVITED TALKS

1. “Genetic association of single nucleotide polymorphisms with multiple Sclerosis”. The 8th International Medical Conference. Jordan University of Science & Technology, Irbid, Jordan, April 14-16, 2016.
2. “Genetic association of single nucleotide polymorphisms with multiple Sclerosis”. The 4th International Jordanian Conference of the Jordan society for Medical Laboratory Sciences and the 1st for the Association of Laboratory Proprietors and Medical Analysis. Amman, Jordan, April 7-9, 2016.
3. “Differential expression and androgen regulation of microRNA in breast cancer cells”. The 4th International Jordanian Conference of the Jordan society for Medical Laboratory Sciences and the 1st for the Association of Laboratory Proprietors and Medical Analysis. Amman, Jordan, April 7-9, 2016.

4. "The androgen receptor agonist, CI-4AS-1, possesses unique effects on breast cancer cells". The 4th International Jordanian Conference of the Jordan society for Medical Laboratory Sciences and the 1st for the Association of Laboratory Proprietors and Medical Analysis. Amman, Jordan, April 7-9, 2016.
5. "Differential expression and androgen regulation of microRNA in breast cancer cells". KHCC-AUBMC-MDACC 4th Joint Conference. Amman, Jordan, October 22-24, 2015.
6. "The androgen receptor agonist, CI-4AS-1, possesses unique effects on breast cancer cells". The 4th International Jordanian Conference of the Jordan society for Medical Laboratory Sciences KHCC-AUBMC-MDACC 4th Joint Conference. Amman, Jordan, October 22-24, 2015.
7. "Towards Establishing a Multiple Sclerosis Biobank in Jordan". The 5th International Jordanian Congress of Allergy & Immunology. Amman, Jordan, May 28-30, 2014.
8. "Perception of biobanking and biomedical research in Jordan". Biobanking: Establishing the first Cancer Biobank in Jordan. Amman, Jordan. April, 10-11.2014.
9. "Biomedical Research and Biobanking in Jordan: Public Support, Consent Preference, and Influential Factors." 2013 Jordan Society for Medical Laboratory Sciences (JSMLS) Annual Meeting. Amman, Jordan, March 23-25, 2013.
10. "Knowledge, perception, attitude, and practice towards biomedical research and biobanking among Jordanians." 25th International Medical Convention, National Arab American Medical Association (NAAMA), June 26-30, 2011.
11. "Are Jordanians into biobanking?" The 4th international Conference of the Jordanian Society of Pathology and Laboratory Medicine, Amman, Jordan. April, 14-16, 2011.
12. "Proteomics unraveling biomedical phenomenon." Integrated BioBank of Luxembourg. September 20, 2010.
13. "Utilization of mass spectrometry in the discovery of shed proteins." The Fourth Conference on Scientific Research in Jordan: Cancer in Jordan. The Jordan Society for Scientific Research. November 7, 2009.
14. "Association between human herpesvirus 6 and Chlamydia pneumoniae and occurrence of multiple sclerosis." The 5th Science Day of the Faculty of Medicine, Mu'tah University. April 15, 2009.
15. "Tumor heterogeneity in proteomics: biology vs. technology. The 5th Scientific day for Internal Medicine Department. Al-Basheer Hospital. March, 2009.
16. "Association between human herpesvirus 6 and Chlamydia pneumoniae and occurrence of multiple sclerosis." The 2nd International Jordanian-Egyptian Biotechnology Conference. Yarmouk University, Irbid, Jordan. November 11-13, 2008.
17. "Tumor heterogeneity in proteomics: biology vs. technology. Contemporary and New Advances in Oncology. The 6th International Jordan Oncology Society Conference In Collaboration with the Arab Medical Association Against Cancer. Amman, Jordan. November 6-8, 2009.
18. "Proteomics technologies in the discovery of disease biomarkers." Faculty of Allied Medical Sciences, Zarqa Private University, May 4, 2008.
19. "Validation proteomics biomarkers in prostate and esophageal cancers. Advances in Cancer Research: From the Laboratory to the Clinic, King Hussein Bin Talal Convention Center, Dead Sea, Jordan, March 16-19, 2008
20. "Discovery and validation of prostate cancer biomarkers. KHCBI-NCI-Duke University-Middle East and North Africa Cancer Research Conference, September 3-4, 2007.
21. "New technologies in diagnostic medicine." The 3rd conference of Jordanian Medical Faculties, Faculty of Medicine, Mu'tah University, April 6-7, 2007.

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22. "Proteomic discovery of disease biomarkers." The 1st Egyptian-Jordanian Conference on Biotechnology and Sustainable Development: Current Status and Future Scenarios, National Research Center, Cairo, Egypt, December 11-14, 2006.
 23. "Proteomic discovery of disease biomarkers." The 2nd JSP International Conference, Jordan Society of Pathology and Laboratory Medicine, Amman, Jordan, August 31-September 3, 2006.
 24. "Estimation of membrane proteins in the human proteome." The 20th International Medical Convention of The National Arab American Medical association (NAAMA-USA), Amman, Jordan, July 3, 2006.
 25. "Advanced techniques in detection of disease biomarkers." The 4th Science Day of the Faculty of Medicine, Mu'tah University. March 6, 2006.
 26. "Application of proteomics in discovery of disease biomarkers"
 A. King Hussein Cancer Center, Amman, Jordan, June 27, 2005
 B. Al-Bashir Hospital, Amman, Jordan, June 15, 2005
 C. University Hospital, University of Jordan, Amman, Jordan, April 15, 2005
 27. "Proteomics: the future of biomedicine. Concept, technology, and biology"
 A. Al-Isra' University, Amman, Jordan. September 13, 2004.
 B. Philadelphia University, Jerash, Jordan. December 1, 2004.
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 D. Mu'tah University, Mu'tah, Jordan, January 16, 2005
 28. "Biological and technological outlooks in proteomics." Hillman Cancer Center, University of Pittsburgh Cancer Institute, Pittsburgh, Pennsylvania. June 8, 2004.
 29. "Proteomics-based biology: prostate cancer, shedding, etc." Center for Biomedical Research, University of Texas Health Science Center at Tyler, Tyler, Texas. December 1, 2003.
 30. "Linking proteomics to biology: prostate cancer etc." Perinatology Research Branch, National Institute of Child Health and Human Development, Wayne State University, Detroit, Michigan. September 22, 2003.
 31. "Integrative tools in the post-genomic era." Perinatology Research Branch, National Institute of Child Health and Human Development, Wayne State University, Detroit, Michigan. September 23, 2003.
 32. "Progression of prostate cancer through molecular profiling". Cancer Research Institute, University of south Alabama, Mobile, AL. August 11, 2003.
 33. "A road to a comprehensive look at prostate tumorigenesis: proteomically speaking". Program in Prostate Cancer Research, Department of Urology, Fred Hutchinson Cancer Center, University of Washington, Seattle, Washington, January 16, 2003.
 34. "Proteomics in prostate cancer." Large Scale Proteomics Corporation, Germantown, Maryland, July 11, 2001.
 35. "Molecular profiling in prostate cancer: a proteomic approach." Myriad Genetics Inc., Salt Lake City, Utah, June 26, 2001.
 36. "Proteomic Approaches in Prostate Cancer: A Molecular Profiling Strategy." Pacific Northwest national Laboratory, Richland, Washington, June 18, 2001.
 37. "Molecular profiling and discovery approaches in prostate cancer using proteomics technology." American Association for Cancer Research, New Orleans, Louisiana. March 27, 2001.

MEETING PRESENTATIONS

1. **Ahram, M.** "Genetic association of single nucleotide polymorphisms with multiple Sclerosis". The 4th International Jordanian Conference of the Jordan society for Medical

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- Laboratory Sciences and the 1st for the Association of Laboratory Proprietors and Medical Analysis. Amman, Jordan, April 7-9, 2016.
2. **Ahram, M.** “Differential expression and androgen regulation of microRNA in breast cancer cells”. The 4th International Jordanian Conference of the Jordan society for Medical Laboratory Sciences and the 1st for the Association of Laboratory Proprietors and Medical Analysis. Amman, Jordan, April 7-9, 2016.
 3. **Ahram, M.** “The androgen receptor agonist, CI-4AS-1, possesses unique effects on breast cancer cells”. The 4th International Jordanian Conference of the Jordan society for Medical Laboratory Sciences and the 1st for the Association of Laboratory Proprietors and Medical Analysis. Amman, Jordan, April 7-9, 2016.
 4. **Ahram, M.** “Differential expression and androgen regulation of microRNA in breast cancer cells”. KHCC-AUBMC-MDACC 4th Joint Conference. Amman, Jordan, October 22-24, 2015.
 5. **Ahram, M.** “The androgen receptor agonist, CI-4AS-1, possesses unique effects on breast cancer cells”. The 4th International Jordanian Conference of the Jordan society for Medical Laboratory Sciences KHCC-AUBMC-MDACC 4th Joint Conference. Amman, Jordan, October 22-24, 2015.
 6. **Ahram, M.** “The androgen receptor agonist, CI-4AS-1, possesses unique effects on breast cancer cells.” The 18th ECCO-ESMO European Cancer Congress, Vienna, Austria. September 25-29, 2015.
 7. **Ahram M.** “Towards Establishing a Multiple Sclerosis Biobank in Jordan”. The 5th International Jordanian Congress of Allergy & Immunology. Amman, Jordan, May 28-30, 2014.
 8. **Ahram M.** “Perception of biobanking and biomedical research in Jordan”. Biobanking: Establishing the first Cancer Biobank in Jordan. Amman, Jordan. April, 10-11.2014.
 9. **Ahram M.** “Biomedical Research and Biobanking in Jordan: Public Support, Consent Preference, and Influential Factors.” 2013 Jordan Society for Medical Laboratory Sciences (JSMLS) Annual Meeting. Amman, Jordan, March 23-25, 2013.
 10. Zaza Z, El-Khateeb M, **Ahram M.** Association of MERTK and TYK2 with Multiple Sclerosis in Jordanian Patients. 2013 Jordan Society for Medical Laboratory Sciences (JSMLS) Annual Meeting. Amman, Jordan, March 23-25, 2013.
 11. Ibayyan L, El-Khateeb M, **Ahram M.** Genetic Variations of Il-7R and Il-2R in Jordanian Multiple Sclerosis Patients. 2013 Jordan Society for Medical Laboratory Sciences (JSMLS) Annual Meeting. Amman, Jordan, March 23-25, 2013.
 12. Ibayyan L, **Ahram M,** El-Khateeb M. Genetic variations of IL-7R and IL-2R among Jordanian Multiple Sclerosis patients. The 4th International Jordanian Congress of Allergy and Immunology. The Jordanian Society of Allergy and Immunology. Amman, Jordan. September 19-21, 2012.
 13. Zaza R, **Ahram M,** El-Khateeb M. Investigation of MERTK and TYK2 association with Multiple Sclerosis among Jordanian Patients. The 4th International Jordanian Congress of Allergy and Immunology. The Jordanian Society of Allergy and Immunology. Amman, Jordan. September 19-21, 2012.
 14. Ahram, M. Knowledge, perception, attitude, and practice towards biomedical research and biobanking among Jordanians. 25th International Medical Convention, National Arab American Medical Association (NAAMA), June 26-30, 2011.
 15. Ahram, M. Are Jordanians into biobanking? The 4th international Conference of the Jordanian Society of Pathology and Laboratory Medicine, Amman, Jordan. April, 14-16, 2011.
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16. Ahram, M. Estimation of membrane proteins in the human proteome. The Second Advances in Cancer Research: From the Laboratory to the Clinic, American Association for Cancer Research, Amman, Jordan. March 7-10, 2010.
17. Ahram, M. Utilization of mass spectrometry in the discovery of shed proteins. The Second Advances in Cancer Research: From the Laboratory to the Clinic", American Association for Cancer Research, Amman, Jordan. October 2-3, 2009.
18. Ahram, M. Utilization of mass spectrometry in the discovery of shed proteins. The Second Middle East and North Africa (MENA) Conference, King Hussein Institute for Biotechnology and Cancer in collaboration with National Cancer Institute, Duke University, and European School of Oncology, Amman, Jordan. October 2-3, 2009.
19. Ahram, M. Association between human herpesvirus 6 and Chlamydia pneumoniae and occurrence of multiple sclerosis. The 4th Science Day of the Faculty of Medicine, Mu'tah University. April 15, 2009.
20. **Ahram M.** Tumor heterogeneity in proteomics: biology vs. technology. The 5th Scientific day for Internal Medicine Department. Al-Basheer Hospital. March, 2009.
21. Ahram, M. Association between human herpesvirus 6 and Chlamydia pneumoniae and occurrence of multiple sclerosis. The 2nd International Jordanian-Egyptian Biotechnology Conference. Yarmouk University, Irbid, Jordan. November 11-13, 2008.
22. Ahram, M. Tumor heterogeneity in proteomics: biology vs. technology. Contemporary and New Advances in Oncology. The 6th International Jordan Oncology Society Conference In Collaboration with the Arab Medical Association Against Cancer. Amman, Jordan. November 6-8, 2009.
23. Ahram, M. Validation proteomics biomarkers in prostate and esophageal cancers. Advances in Cancer Research: From the Laboratory to the Clinic, King Hussein Bin Talal Convention Center, Dead Sea, Jordan, March 16-19, 2008
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25. Ahram, M. New technologies in diagnostic medicine. The 3rd conference of Jordanian Medical Faculties, Faculty of Medicine, Mu'tah University, April 6-7, 2007.
26. **Ahram M.** Proteomic discovery of disease biomarkers. The 1st Egyptian-Jordanian Conference on Biotechnology and Sustainable Development: Current Status and Future Scenarios, National Research Center, Cairo, Egypt, December 11-14, 2006.
27. **Ahram M.** Proteomic discovery of disease biomarkers. The 2nd JSP International Conference, Jordan Society of Pathology and Laboratory Medicine, Amman, Jordan, August 31-September 3, 2006.
28. **Ahram M.** Estimation of membrane proteins in the human proteome. The 20th International Medical Convention, The National Arab American Medical Association, Amman, Jordan, July 1-6, 2006.
29. **Ahram M.** Technical aspects in protein discovery by two-dimensional electrophoresis and Laser Capture Microdissection. Laser Capture Microdissection and macromolecular analysis of normal development and pathology, National Institutes of Health, Bethesda, Maryland, July 17-18, 2001.
30. **Ahram M,** Flaig MJ, Gillespie JW, Shu H, Duray PH, Linehan M, Zhao Y, Petricoin EF, and Emmert-Buck MR. Molecular profiling and discovery approaches in prostate cancer using proteomics technology. American Association for Cancer Research, New Orleans, Louisiana. March 27, 2001.
31. **Ahram M,** Sameni M, Linebaugh B, and Sloane BF. Cathepsin B in Rac1-induced cell invasion: Role in intracellular proteolysis of the extracellular matrix. Twenty-Sixth Annual

Pharmacology Research Colloquium; Medical College of Ohio, Toledo, Ohio. June 19, 1998.

32. **Ahram M**, Sameni M, and Sloane BF. A connection between the GTP-binding protein and cathepsin B? First Annual Wayne State University School of Medicine Graduate Student Research Day; Detroit, Michigan. September 12, 1997.
33. **Ahram M**. Do Ras and Rac1 GTPases alter trafficking of cathepsin B? Twenty-Fourth Annual Pharmacology Research Colloquium; Michigan State University, East Lansing, Michigan. June 26, 1996.

EDUCATIONAL AND AWARENESS LECTURES

- 02/2017 “How do you ask a research question?” Department of Anesthesia and Intensive Care, Jordan University Hospital, The University of Jordan, Amman, Jordan.
- 01/2017 “How do you ask a research question?” for a diverse group of students, The University of Jordan, Amman, Jordan.
- 08/2016 “Prepare Your Research Proposal” for pharmacy students. Faculty of Pharmacy, The University of Jordan, Amman, Jordan.
- 05/2016“ Proposal writing” for medical students. Faculty of Medicine, The University of Jordan, Amman, Jordan.
- 09/2015 “Student's Proposal Draft Presentation”, for pharmacy students. Faculty of Pharmacy, The University of Jordan, Amman, Jordan.
- 06/2015 “Proposal writing” for medical students. Faculty of Medicine, The University of Jordan, Amman, Jordan.
- 3/2015 “Biobanking” for International Federation of Medical Students’ Association, Jordan University for Science and Technology, Irbid, Jordan.
- 11/2014 “Literature Review” for medical students. Faculty of Medicine, The University of Jordan, Amman, Jordan.
- 9/2014 “Literature Review” for dental students. Faculty of Dentistry, The University of Jordan, Amman, Jordan.
- 06/2014 “Proposal writing” for medical students. Faculty of Medicine, The University of Jordan, Amman, Jordan.
- 1/2014 “Literature review & Research dissemination” for medical students, The Hashemite University, Amman, Jordan.
- 12/2013 “Scientific research”. Career Day. Al-Raed Al-Arabi School, Amman, Jordan.
- 10/2013 “Research dissemination”. International Federation of Medical Students Associations, Amman, Jordan.
- 10/2013 “Let’s all evolve,” Faculty of Medicine, The University of Jordan, Amman, Jordan.
- 4/2013 “I am smarter than cancer”. Al-Raed Al-Arabi School. A lecture for 10th and 11th grade students.
- 2/2013 “Scientific research in the field of multiple sclerosis: rights and responsibilities”. The Jordanian Multiple Sclerosis Society, Amman, Jordan.
- 2012/2 “Literature Review” for dental students. Faculty of Dentistry, The University of Jordan, Amman, Jordan.
- 10/2012 “Literature Review” for medical students. Faculty of Medicine, The University of Jordan, Amman, Jordan.

PATENTS

“Direct Cell Target Analysis.” A provisional US patent application, inventors: Mamoun Ahram and Michael Emmert-Buck (<http://www.uspto.gov/>; Pub. No / Pub. Date 20050176068 / 11-Aug-2005)