

**Rana Dajani, PhD**

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**Date of Birth: April 26, 1969**

**Place of birth: Saudi Arabia**

**H index: 7**

**Research gate: [https://www.researchgate.net/profile/Rana\\_Dajani](https://www.researchgate.net/profile/Rana_Dajani)**

**Introduction:**

Two roads diverged in a wood, and I-  
I took the one less traveled by,  
And that has made all the difference.

**Robert Frost**

At 20, I married, had four children and was a school teacher

At 30 I started my PhD

At 35 I started my career as a scientist and professor.

I am 45. My children are mostly grown up now.

I chose the path less traveled by

My career path was not a straight line but a zigzag of priorities and opportunities

My story is below...

**Objective** To strive and pursue the realization of an international community suitable in all aspects i.e. health, social environmental etc. for future generations. I am specifically interested in raising the health, educational and social status of women and children in the region. By conducting studies and participating in planning, implementing and actually carrying out policies intended to achieve such goals, I hope to help in shaping our future world.

**Education** 2000-2005 University of Iowa Iowa City, Iowa

**PhD in Molecular Biology**

Thesis entitled: "Innate immune responses in the lung and liver"

GPA (4.0)

**1989-1992** University of Jordan Amman, Jordan

**M.Sc. in Biology**

GPA (94%) First honors award

Research in the following fields:

1. Effect of acid rain on three varieties of wheat
2. Karyotyping and pollen grain morphology of species endemic to Jordan
3. Antimicrobial activity of bacteria from the Dead Sea

1985-1989 University of Jordan Amman, Jordan

**B.Sc. in Biology**

GPA (91.9%) First honors award

1985 University of London London, UK

**General Certificate of Education**

## Honors

- We Love Reading: Refugee-led Reading Circle  
Promising Practices in Refugee Education initiative 2017 Pearson,  
UNHCR and Save the children 2017

- runner up for the Core77 design awards for social impact 2017

- Aspen Ideas Festival 1 scholar 2017

- Harvard Radcliff Fellowship award 2017

- WORLD HRD CONGRESS WOMEN SUPER ACHIEVER AWARD  
2017

- on the list of 500 most influential Muslims 2015, 2016, 2017

- The inaugural *IIE Global Changemaker Award* in celebration of the 70th  
Anniversary of the Fulbright 2016

- The Stars Award for Impact 2015

- The Arab Women Association golden Award 2015

- Top idea in the IDEO challenge 2015

-Honored by his Majesty King Abdullah II of Jordan as a woman leader  
2015

s

- ranked 12 in *CEO Middle East* magazine's list of 100 Most Powerful Arab  
Women 2015 ranked 13 in *CEO Middle East* magazine's list of 100 Most  
Powerful Arab Women 2014

- 50 Most Talented Social Innovators 2015 at the World CSR Congress.
- Women in Science hall of fame 2015 US embassy Amman's Environment, Science, Technology and Health Office for the Middle East
- PEER Award 2014 for the project "The Three Circles of Alema" NSF/USAID
- Order of Al Hussein for Distinguished Contributions of the Second Class. Granted to "those who have made distinguished contributions to society".
- Winner for the WISE Award 2014
- Eisenhower Fellowship innovative program 2014
- selected as one of the 100 most powerful Arabs in the World 2014 in the category "geniuses" by Arabian Business magazine
- Named one of the list of GOOD 2014
- Named one of the most influential women scientist of the Islamic world 2014 by UK based Muslim Science magazine
- Named Citizen of the Next Century List for 2013.  
www.future-ish.com | keeping tabs on the science, design, and culture
- Fulbright Occasional Lecture Award Spring 2013
- Fulbright Research Scholarship first place, 2012-2013 Research at Yale University Stem cells and micro RNA
- Featured in the Innovation for education book by Charles Leadbeater, WISE Qatar Foundation, 2012
- First place in student research competition, Hashemite University 2011. I was the supervisor. The research was trends in reading among university students.
- Finalist for the "women in academia network" for the Alumni Engagement innovation fund by the State alumni
- Nominated by the Hashemite University for the "Women in Science" award offered by the Islamic Development Bank (2011)

- Complimentary membership to the Clinton Global Initiative 2010
- Awarded the 2009 Arab world social innovator award by Synergos for the project "we love reading"
- Nominated as one of Ahel Al- himmeh. An initiative by Queen Rania of Jordan to recognize individuals from the Jordan community who do volunteer work for the community and have made a difference
- the King Hussein Cancer Institute for cancer and biotechnology award 2009
- Fulbright Alumni Development Awards (ADA) 2008
- Fulbright Scholar 2000-2002
- Howard Hughes Medical Institute predoctoral award - honorary mention 2001

### **Professional experience**

- |  |   |               |
|--|---|---------------|
| <b>2013-Present</b>                                    | Hashemite University  | Zarqa, Jordan |
| <b>Tenured Associate Professor</b>                     |   |               |
| <b>June 2015 – current</b>                             | <b>Consultant Alpha Sights</b>  |               |
| <b>March 2015 – Sep 2015</b>                           | <b>Visiting professor Cell Therapy Center<br/>University of Jordan, Jordan</b>  |               |
| <b>Jan 2015 –March 2015</b>                            | <b>Visiting Scholar The Faraday Institute, St<br/>Edmund’s College, Cambridge University,<br/>England</b>                                     |               |
| <b>2011 –Present</b>                                   | <b>Free Lance Journalist</b>  |               |
| <b>2005-2012</b>                                       | Hashemite University  | Zarqa, Jordan |
| <b>Assistant Professor</b>                             |   |               |
| <b>2013 – current UN Women Jordan Advisory Council</b> |   |               |
| <b>Sep 2012- Jan 2013</b>                              | <b>(one semester) Fulbright visiting assistant<br/>professor Stem cell center, Genetics Department, Yale University, New<br/>Haven CT USA</b> |               |

<b>2011- Present</b>	<b>Epic Education</b>	
<b>Consultant</b>		
2011- 2013	DQS UL Jordan	
<b>Consultant</b>		
2011-2014	<b>Higher education reform expert, TEMPUS Jordan</b>	
2011- 2012	Center for studies, Hashemite University Zarqa, Jordan	
<b>Director</b>		
2010-Present	We Love Reading, Change (NGO)	Amman, Jordan
<b>Founder and President</b>		
Nov 2009- April 2010	Center for service learning, Hashemite University Zarqa, Jordan	
<b>Director</b>		
2009-present	We love reading initiative	Amman, Jordan
<b>Trainer</b>		
2000-2005	University of Iowa	Iowa City, Iowa
<b>Research Assistant</b>		
1995-2000	Amman Academy	Amman, Jordan
<b>Teacher</b>		
1992-1994	Philadelphia university	Amman, Jordan
<b>Lecturer</b>		

## **Presentations**

**Dajani, R Community Awareness Project.** A presentation Global Women leaders Conference March 10-12, 2008 Dubai, UAE

**Dajani, R Problem Based Learning: a path to leadership development. Implementation problems and solutions** Round table discussion. Global Women leaders Conference March 10-12, 2008 Dubai, UAE

**Dajani, R** Women networking event Belle View Hotel Oct 30, 2008

**Dajani, R** Women networking in academia Jordan University Dec 23, 2008

**Dajani, R** member of panel "**Entrepreneurship: Walking the extra mile**" in the networking event by W@W supported by the British council March 17, 2009 Amman, Jordan

**Dajani, R** member of panel "**Networking**" Women's Entrepreneurship development conference April 27-29, 2009 Amman, Jordan

**Dajani, R** Speaker at Seminar "**How Can We Make Children of Jordan Read More?**" April 30, 2009 children's museum organized by the Embassy of Sweden and The Children's Museum-Jordan

**Dajani, R** and Mahasneh, R "**Service learning in Jordan**" Talk at the 14<sup>th</sup> science conference organized by the Higher Council of Science and Technology, May 4, 2009 Amman, Jordan

**Dajani, R** "**We love reading**" Speaker at the Peace Scholarship Program, Alumni event that was held on October 1, 2009 at the Landmark Hotel Amman, Jordan

**Dajani, R** "**Stem cell ethics in Jordan**" A talk at the fourth Scientific research conference on Nov 7, 2009 at the Landmark Hotel Amman, Jordan

**Dajani, R** "**Islam and evolution**" A talk at the fourth Scientific research conference on Nov 7, 2009 at the Landmark Hotel Amman, Jordan

**Dajani, R.** "**20 points to choose a school for my children**" A seminar presented at the second conference for private schools in Amman, Jordan on March 20, 2010

**Dajani, R** "**Is evolution a fact or a myth?**" A debate organized by the British council as part of the Darwin Now program held at the Jordan University on March 27, 2010

**Dajani, R** "**Drama in Biology**" A Pecha Kucha talk at the "Creative Thinking, Reimagining the University" 8<sup>th</sup> Galway symposium on Higher Education organized by the National University of Ireland, Galway on June 11, 2010

**Dajani, R** "**Novel reading for novel learning**" a poster at the "Creative Thinking, Reimagining the University" 8<sup>th</sup> Galway symposium on Higher Education organized by the National University of Ireland, Galway on June 11, 2010

**Dajani, R** "**Human embryonic stem cells**" A seminar at the IFMSA at the Jordan University stem cell conference Oct 21, 2010

**Dajani R** Business leaders campaign Injaz Nov 30, 2010 Karak school for girls

**Dajani, R** “The Butterfly Effect: Experience with TEMPUS” A talk at Sixth Jordanian-European Higher Education Day University of Jordan, Amman, Jordan Wednesday, 15<sup>th</sup> December 2010

**Dajani, R** “The Butterfly Effect” A talk at TEDxDeadsea April 30, 2011  
<http://www.youtube.com/watch?v=arLp-9nHcQQ>

**Dajani, R** “Islam and Biology: no controversy” A talk at the John Templeton Journalism Fellowships program Seminar in science and religion University of Cambridge, UK May 7, 2011

**Dajani, R** “Islam and stem cell ethics” a talk at the Belief in Dialogue conference at American University of Sharjah, UAE June 21-23, 2011

**Dajani, R** **The world debate: Islam versus Science** Panelist on The world debate BBC world service Belief in Dialogue conference at American University of Sharjah, UAE June 21-23, 2011  
[http://www.bbc.co.uk/iplayer/episode/p00hkvtk/The\\_World\\_Debate\\_Islam\\_v\\_Science/](http://www.bbc.co.uk/iplayer/episode/p00hkvtk/The_World_Debate_Islam_v_Science/)

**Dajani, R** “Simple Ideas, Big Results” The third annual World Innovation Summit for Education (WISE) in Doha, Qatar, from 1 to 3 November 2011  
<http://www.wise-qatar.org/content/simple-ideas-big-results-0>

Dajani R polymorphisms of clotting factors in ethnic minorities in Jordan [first Arab-American Frontiers of Science, Engineering, and Medicine symposium](#) Kuwait Oct 17-19 2011

**Dajani, R** “Ethics of stem cell research” a talk at the Training the health academics in National Universities and health providers in MoH Concerning the Research methodology and Ethics in Jordan October 22-24 2011- Landmark

**Dajani, R** “Ethics of stem cell research” a talk at the Hashemite University workshop for research ethics Oct 25, 2011

**Dajani, R** “Ethics of stem cell research” A debate at the Jordanian Media institute Nov 14, 2011

**Dajani R** Business leaders campaign Injaz Nov 30, 2011 Wehdat school for girls

**Dajani R** Service learning workshop Training for Faculty TEMPUS  
Holiday Inn Dec 1, 2011

**Dajani, R** Service learning and Journalism A seminar at the Jordanian  
Media institute Dec 19, 2011

**Dajani, R** The butterfly effect a talk at the second social entrepreneurship  
forum PSUT Dec 24, 2011

**Dajani, R** Round square talk at Kings Academy Amman Jordan Dec 15,  
2011

**Dajani, R** “The Bologna Process: Student Learning Outcomes” a talk at the  
German Jordan University March 8, 2012

**Dajani, R** “Ethics of stem cell research” a talk at the IRB Training  
Workshop, MERETI program University of Maryland, Amman,  
Jordan March 21, 2012

**Dajani, R** Women’s Learning Circle, Synergos April 1, 2012

**Dajani, R** “ Student learning outcomes” A talk at the Hashemite  
University April 30, 2012

**Dajani, R** “Implementing the love of reading in the classroom” Teachers  
conference. Queen Rania Teachers Academy Amman Jordan May 5, 2012

**Dajani, R** “Opening the Experts tool box for higher education reforms”  
Putting Bucharest’s conclusions on track- the Experts Role SEMINAR FOR  
BOLOGNA AND HIGHER EDUCATION REFORM EXPERTS, Vilnius  
University Lithuania June 4-6 2012

**Dajani, R** Natural Sciences council: Global gathering for love and  
forgiveness. The Fetzer Institute Assisi, Italy Sep 19-23, 2012

**Dajani, R** “Is there a clash between Islam and the theory of evolution?”  
The American Islamic Congress and Project Nur, Boston University October  
24, 2012

<http://vimeo.com/channels/progressivedownload>

<http://www.forbes.com/sites/johnfarrell/2012/11/30/god-and-evolution-easier-for-muslims-than-christians/>

<http://dailyfreepress.com/2012/10/25/science-scholars-weigh-in-on-evolution-islam/>

**Dajani, R** “Make a difference” Keynote speaker at Clase Education 2012  
Mexico City, Mexico Oct 29-30, 2012



<http://clase.org.mx/2012/?perfil=rana-dajani>

**Dajani, R “Gender Bias in the Sciences: A Panel Discussion”** Panelist  
UWISAY and Women in Physics at Yale University, New Haven, CT USA,  
Nov 8, 2012

**Dajani, R “Life as Jordanian Female Scientist? Ask Dr. Rana Dajani, Ph.D”** Thurs, Nov. 29, 1-2pm. Steiner Room at the Yale School of Medicine. Women In Medicine (WIM).

**Dajani, R “Shaping tomorrow: Creating Leaders of the future”** 8<sup>th</sup>  
World Islamic Economic Forum Johor Bahru, Malaysia 4-6 Dec 2012  
<http://www.youtube.com/watch?v=x42-bCVJHkg>

**Dajani, R “We Love Reading: A community-based model to advance early childhood development in Jordan”** The Edward Zigler Center on Child Development and Social Policy, Yale University, New Haven, CT, USA Jan 18, 2013

**Dajani, R “Women Islam and Science”** Williams College, MA, USA, Jan 21, 2013

**Dajani, R “Education Challenges in the Middle East, The Path Forward: Sharing insights and Experiences”** Council on Middle East Studies, Colloquium Series, Yale University, New Haven, CT, USA Jan 23, 2013

**Dajani, R “Innovation for economic development in IDB member countries, Sectoral innovation: Education”** Concept Note Expert group meeting, Islamic Development Bank, Saudi Arabia Feb 1-19, 2013

**Dajani, R “Women in Jordan”** A talk at the American corner at Hashemite University on international women day March 20, 2013

**Dajani, R “ Evolution and Islam”** A talk at the John Templeton Foundation Islam and Science workshop at the Hashemite University March 31- April 2, 2013 Amman Jordan

**Dajani, R “Social Media in the Classroom”** A workshop at the Hashemite University TEMPUS Jordan April 14, 2103

**Dajani, R “The Fulbright Application”** A talk at the American corner at Hashemite University on international women day April 23, 2013

**Dajani, R “Student-Centered Learning: A Path to Innovation in Education”** A TEMPUS seminar at Zarqa University May 13, 2013

**Dajani, R “Student-Centered Learning: A Path to a better economy”** A TEMPUS round table discussion at Zarqa University June 24, 2013

**Dajani, R “Stem cells the latest developments and challenges”** A talk at the Society for Jordan Scientific Research, Amman Jordan Aug 38, 2013

**Dajani, R Women Mentoring, Synergos** Sep 30, 2013

**Dajani R “The social responsibility of the scientist”** A talk at the Society for Islamic Studies, Amman, Jordan Oct 5, 2013

**Dajani R “Women network in academia”** An event at the Hashemite University, TEMPUS Jordan Nov 19, 2013

**Dajani R “A Library in every neighbourhood”** a talk at the Global education conference Nov 20, 2013

**Dajani R “ Networking and research dissemination”** a seminar at the workshop IFMSA Research Workshop Amman Jordan Nov 21, 2013

**Dajani R “Anthropology, epidemiology and genetics of genetically isolated populations in Jordan”** A talk at the Higher Council for Science and Technology, Amman Jordan Nov 26, 2013

**Dajani R “Islam and Evolution”** A talk at the Islam and Science workshop John Templeton Foundation Malaysia Dec 1, 2013.

**Dajani R “Reading”** a Workshop at the Arab Innovation Network annual conference (AIN) Dead Sea, Jordan Dec 7, 2013

**Dajani R “We Love Reading and Social Responsibility”** Business leaders campaign Injaz Dec 26, 2013 Al Amer Hasan –UNRWA School for girls

**Dajani R “A female role model”** Um Summaq school for girls Jordan March 16, 2014

**Dajani R “ We Love Reading”** Masters program in Global development Columbia University and Jordan University March 17, 2014

**Dajani R “Leadership”** A talk at SHE, IEEE Jordan University chapter April 13, 2014

**Dajani, R “Stem cells the latest developments and challenges”** A talk at the Phi Society for students, Amman Jordan April 13, 2014

**Dajani R “Women, Islam and Science”** A talk at the Islam and Science

workshop John Templeton Foundation, AUS Sharjah UAE April 19, 2014

**Dajani R “Islam and Evolution”** A talk at the Islam and Science workshop John Templeton Foundation, AUS Sharjah UAE April 20, 2014

**Dajani R “Induced Pluripotent stem cells”** a Talk at Khartoom University, Sudan April 29, 2014

**Dajani R “Stem cell research”** a talk at University of Jordan July 2014

**Dajani R “Research and funding”** A talk at Mutah University Aug 11, 2014

**Dajani R “ Social responsibility of scientists”** a talk at JUST Aug 17, 2014

**Dajani R “ Education is not the filling of a pail but the lighting of a fire”** A seminar at the Queen Rania Academy for Teachers Sep 10, 2014

**Dajani R “ the Butterfly Effect”** a talk at the Arab Development Institute Conference Montreal, Canada Sep 20, 2014

**Dajani R” Islam, evolution and what does success mean to women scientists in the Middle East”** a talk at the center for Islam and Science at McGill University Montreal Canada Sep 22, 2014

**Dajani R DISRUPT event at North Carolina Research Park Oct 8, 2014**  
**We Love Reading**

**Dajani R SSRC Occasional Distinguished Lecture Series: Success from the perspective of a Jordanian Women Scientist** MIT Cambridge MA  
Oct 30, 2014

<http://video.mit.edu/watch/success-from-the-perspective-of-a-jordanian-woman-scientist-29088/>

**Dajani R** School workshop WISE 2014 Qatar Nov 4-6, 2014

**Dajani R** Women education leadership workshop WISE 2014 Qatar Nov 4-6, 2014

Dajani R Reading aloud spotlight talk WISE 2014 Qatar Nov 4-6, 2014

**Dajani R “A Library in every neighbourhood”** a talk at the Global education conference Nov 18, 2015

**Dajani R “Biology meets Society”** ReproSociety Cambridge University, UK Feb 4, 2015

**Dajani R** “Islam and Evolution, Is there controversy” Task force *Muslim responses to Science’s big questions* John Templeton Foundation Istanbul, Turkey Feb 14, 2015

**Dajani R** Islam and Evolution no controversy A lecture at the Muslim Cambridge College Feb 18, 2015

**Dajani R** Islam and Evolution no controversy St Edmunds college Cambridge University Feb 19, 2015

**Dajani R** Success from the perspective of a Jordanian scientist Tabadoul Online forum Cambridge University March 19 2015, UK

**Dajani R** Success from the perspective of a Jordanian scientist IFMSA women day March 26, 2015, Amman Jordan

**Dajani R** Eng. Zainab Cox on the 26th of April from 15:30 till 16:30 at PSUT WiS corner.

**Dajani R** speaker on panel on Basic Education Clinton Global Initiative Middle East and North Africa May 5-7, 2015, Marrakesh, Morocco

**Dajani R** Evolution stories 3rd international congress on Evolution the third international congress on evolution under scrutiny at Yildirm Beyzait University, Ankara Turkey, May 7, 2015

**Dajani R** “Evolution and Islam” Seminar Mouvement Anfass Démocratique May 15, 2015 Morocco

**Dajani R** “Future of science and emerging trends in the region” moderator, 1<sup>st</sup> Women in Science Symposium, PSUT May 18, 2015 Amman Jordan

**Dajani R** “Doing the impossible: If we can reverse cell fate, why can’t we redefine success?” Microsoft The Pink Cloud: Science and Technology: Food for mind, Energy for the future. May 19, 2015 Milan Italy

**Dajani R** “Doing the impossible: If we can reverse cell fate, why can’t we redefine success?” International Forum on Harnessing Women’s talents in Science, Technology and Innovation” UNESCO (ISTIC), Kuala Lumpur, Malaysia May 26, 2015

**Dajani R** “A New Spirit” Phi Scientific Research student conference Jubilee School Amman, Jordan Aug 15, 2015

**Dajani R** “What is mentoring?” PEER meeting Second Circle of Alemat October 3-4 2015 Amman, Jordan

**Dajani R “What is success?”** Global tech Jordan girls Baccaluerte School  
Amman Jordan October 10, 2015

**Dajani R “We Love Reading”** Brilliant minds Madrid, Spain October 15-16, 2015

**Dajani R, Plenary session: “Science engagement: communicating with Society”** World Science Forum; Budapest, Hungary, October Nov 5, 2015

**Dajani R, Thematic session: “How to enable science through parliamentary governance”** World Science Forum; Budapest, Hungary, October Nov 5, 2015

**Dajani R, Panel: Education for Refugees - Bring Hope for Every Child**  
Harvard Arab Weekend Harvard University Boston USA Nov 7, 2015

**Dajani R “ Can we redefine success?”** Amman Ahleya University Nov 24, 2015 Amman Jordan

**Dajani R “Critical View of Muslim’s Perception on Human Evolution Theory”, “Intellectual Discourse on Islam and Science (IDEAS 2015)”**  
November 19, 2015 Kuala Lampur, Malaysia

**Dajani R Service learning** Teachers education forum QRTA Dec 6, 2015  
Dead Sea Jordan

**Dajani R Reading aloud in the classroom** Teachers education forum  
QRTA Dec 6 2015 Dead Sea Jordan

**Dajani R “ What is success?”** Pharmacy faculty University of Jordan  
Amman Jordan Dec 22, 2015

**Dajani R, Biology and Theology** Workshop on Modern philosophy and its relation to modern science and Kalam research and Media, Amman Jordan  
Jan 4 -10, 2016

**Dajani R Science and Society: The journey of discovery,** Science and philosophy Workshop Phi institution Amman Jordan Jan 21, 2016

**Dajani R Evolution and Islam** Science and philosophy Workshop Phi institution Amman Jordan Jan 21, 2016

**Dajani R “Evolution stories...How do they end?” Science and society**  
EMBL, Grenoble France Jan 29, 2016

**Dajani R “ Three circles of Aلمات”** PEER awardee AAAS, NAS and NSF meeting, Washington DC Feb 8, 2016

**Dajani R “Leading Voices of Science from the Global South”** Panel Discussion USAID, Washington Tuesday Feb 9, 2016

**Dajani R, et al “Three circles of Aلمات”** Poster session AAAS meeting Feb 11 -15, 2016 Washington DC, USA

**Dajani R “The magic of reading aloud”** The Big Bang ADI conference Feb 26-27 Bologna, Italy

**Dajani R Three Circles of Aلمات: Growth and Sustainability through Mentoring** Poster PEER AAAS 2016 Washington DC March 13-16 2016

Dajani R Girls Hasad School 31, 3, 2016 Amman Jordan

**Dajani R “Evolution stories.. How do they end?”** International Islam and Science Seminar: Muslim perspectives on Science’s big questions Royal Scientific society, UN – ESCWA Technology Center May 5, 2016 Amman Jordan

**Dajani R “CRISPR”** IEEE conference May 8, 2016 Yarmouk University, Irbid Jordan

**Dajani R “*Ogni terra ha il suo talento*” (Every place has its talents)** Nuvola Rosa (Pink Cloud) Microsoft Italy May 11, 2016

**Dajani R “My stories... Reflections from a Muslim Female Scientist”** European Islamophobia Summit June 26, 2016 Sarajevo, Bosnia

**Dajani R “Can I?”** IEEE July 23. 2016, Yarmouk University, Irbid Jordan

**Dajani R “Stories”** Aug 18, 2016 ZINC

**Dajani R “My Story” Kaisen Teens,** Aug 27, 2016 Ajloun, Jordan

**Dajani R “A research partnership evaluating program efficacy on stress**

**and cognition among adolescent Syrian refugees in Jordan”,**

Adolescence, Youth and Gender” Building Knowledge for Change, Lady Margaret Hall, University of Oxford, UK Sep 8, 9 2016

**Dajani R My story** Thomson Reuter journalist workshop on women Sep 25 2016 Marriot Amman Jordan

**Dajani R Evolution and Islam** Polytechnic college Amman Jordan Oct 16, 2016

**Dajani R The story of We Love Reading** University of Jordan Language Center Nov 23, 2016 Amman Jordan

**Dajani R Three Parents Babies** Faculty of medicine, Yarmouk University Irbid, Jordan Nov 24, 2016

**Dajani R “Islam and Biological Evolution: A big dilemma?”** Mahara student Association, University of Antwerp, Antwerp Belgium Dec 9, 2016

**Dajani R “Dare to dream big”** A talk at Hikma Pharmaceuticals Amman, Jordan Dec 15, 2016

**Dajani R, “Stem cell, Monet, recycled waste, evolution and nonsense”** at workshop at AINAC 2016 annual conference Amman Jordan Dec 22-23, 2016

**Dajani R** the role of diaspora networks in achieving the Sustainable Development Goals: Local Engagement Networks of Diasporas in Engineering and Science (NODES) Forum (moderator) February 16, 2017, AAAS 2017, Boston, Massachusetts,

**Dajani R** Circles of Mentoring Pathways to Professional and Personal Growth AAAS 2017 Boston, USA Feb 17, 2017

**Dajani R** Circle three mentoring: The gathering Diaspora meeting AAAS 2017 Boston, USA Feb 17, 2017

**Dajani R** panelist Social innovation and Humanitarian Responses *Program on Refugees, Forced Displacement and Humanitarian Responses, The MacMillan Center*, Yale University New Haven, CT, USA Feb 22, 2017

**Dajani R** Equality first Masters tea Morse College Yale University New Haven, CT, USA Feb 22, 2017

**Dajani R** We Love Reading: Global reporting institute on Early childhood and brain development. Dart Center, University of Columbia, New York, NY, USA March 9-11, 2017

**Dajani R** Women in Science The story of my journey Cairo Egypt March 21-23, 2017

**Dajani R** Women in science, Women empowerment socio economic Amman, Jordan 30-31 2017  
<https://youtu.be/oDahQAEuYEq>

**Dajani R** Panel discussion: The way forward, Women empowerment socio Closing Session Amman, Jordan 30-31 2017  
<https://youtu.be/NI1sNOTmxH4>

**Dajani R** Education panel April 2 2017, Zinc, Amman Jordan

**Dajani R** Why reading aloud? April 8, 2017 JOBBY Amman Jordan

**Dajani R** The journey Jordan Model Parliament Kings Academy, Amman Jordan April 8, 2017

**Dajani R** What is success? Women in business PSUT Amman, Jordan April 11, 2017

**Dajani R** Networking and communication AJWA Hashemite University April 12, 2017

**Dajani R** Bioinformatics the new equalizer NITT University of Jordan April 25, 2017

**Dajani R** How to write a proposal AJWA Zaytuna University April 27, 2017

**Dajani R** How to write a proposal AJWA Tafila and MAAn university May 6, 2017

**Dajani R** "Mentoring network" Webinar 500 women May 9, 2017

**Dajani R** We Love Reading Early childhood development symposium and conference Belfast Northern Ireland May 29-31 2017

## **Publications**



## Academic

1. **Dajani, R.**, Zhang, Y., Taft, P.J., Travis, S.M., Starner, T.D., Olsen, A., Zabner, J., Welsh, M.J., and Engelhardt, J.F. **Lysozyme secretion by submucosal glands protects the airway from bacterial infection.** Am. J. Respir. Cell Mol. Biol. 32(6):548-52, 2005.
2. **Dajani, R.**, Salih Sanlioglu, Yulong Zhang, Martha M. Monick, Eric Lazartigues, Timothy Eggelston, Robin L. Davisson, Gary W. Hunninghake and John F. Engelhardt. **Pleiotropic functions of TNFalpha determine Ikkbeta –dependent hepatocellular fates in response to LPS.** Am J Physiol Gastrointest liver Physiol. 2007 Jan; 292(1):G242-52.
3. **Dajani, R.**, Al-Haj Ali, E., Dajani, B **Macrophage colony stimulating factor and monocyte chemoattractant protein 2 are elevated in intrinsic asthmatics** Cytokine 2011 Dec; 56 (3):641-7
4. Shishani K, Dajani R and Khader Y **Hypertension Risk Assessment in the Largest Ethnic Groups in Jordan.** J Immigr Minor Health. 2013 Feb;15(1):43-8
5. Nancy Hakooz, Sameh Alzubiedi, Al-Motassem Yousef, Tawfiq Arafat, **Rana Dajani**, Nidaa Ababneh and Said Ismail **UDP-Glucuronosyltransferase 1A4 (UGT1A4) Polymorphisms In A Jordanian Population** Molecular Biology reports 2012 Jul; 39 (7): 7763-8
6. **Dajani R et al Diabetes mellitus in genetically isolated populations in Jordan: prevalence, awareness, glycemic control, and associated factors** Journal of Diabetes and its complications 2012 May; 26 (3) : 175-80
7. Muhannad I. Massadeh, Fatima M. Sabra, **Rana B. Dajani**, Alaa A. Arafat **Purification and characterization of lipase enzyme produced y *Bacillus stearothermophilus* HU1** Proceedings of the International Conference on eco-system and Biological Science (ICEBS 2012) Penang (Malaysia) May 19-20, 2012
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  3. <http://www.msmenewsnetwork.com/index.php/homepage/sme-features/sme-news/item/1149-for-the-love-of-reading>
- Chronicles of higher education 2011  
<http://chronicle.com/blogs/planet/2011/11/02/preparing-for-a-panel-in-qatar-turns-into-an-intellectual-adventure/>
- The Huffington Post 2011

[http://www.huffingtonpost.com/john-farrell/expanding-horizons-for-arab\\_b\\_864029.html](http://www.huffingtonpost.com/john-farrell/expanding-horizons-for-arab_b_864029.html)

- **Nature 2011**

[http://blogs.nature.com/soapbox\\_science/2011/06/30/science-in-the-arab-world](http://blogs.nature.com/soapbox_science/2011/06/30/science-in-the-arab-world)

- **Playawire article, 2010**

<http://www.theplayawire.com/middle-east-children-education.html>

- **Press news wire press release Sep 23, 2010 We love reading commitment to action**

<http://www.prnewswire.com/news-releases/we-love-reading-announces-a-library-in-every-neighborhood-commitment-for-jordan-103622034.html>

## **Memberships**

- **Senior Member of SASTA, 2016**

- Association of Women academics of Jordan

- Community genetics network

- Mentor net

- Arab International women forum

- Clinton Global Initiative

- Arab world social innovators

- Fulbright alumni

- Human genome organization (HUGO)

- American association cancer research (AACR)

- American association for the advancement of Science (AAAS)

- Jordan Biology Society

- National Geographic Society

## **Courses**

Oct 3, 2016 EU Co-founded Erasmus+ program called METHODS: Modernization of teaching methodologies in higher education: EU experience for Jordan and Palestinian territory. Focus group on the establishment of an ICT center in Jordan UJ

Nov 3, 2016 EU Co-founded Erasmus+ program called METHODS: Modernization of tEaching meThodologies in higher educatiOn: EU experience for jorDan and Palestinian territory Workshop on the establishment of an ICT center in JOrdan UJ

Sep 28 -29, 2016 FC+HCI leadership workshop Arab thought foundation

Aug 2016 Islam and Critical theory ICT Amman, Jordan

18 – 19 May 2016 R2HC workshop Amman, Jordan

May 2016 Identity and Critical theory ICT Amman, Jordan

20 -23 March 2016 Star leadership

**13 -17 March 2016 PEER workshop**

**September 2015 Human centered design workshop** [IDEAO.org](http://IDEAO.org) Uganda

**Dec 2012 Social media in teaching workshop** Yale University New Haven, CT USA

**Jan 29- Feb 1, 2012 Student learning outcomes for the humanities and arts** at the Hashemite University by TEMPUS European Higher education reform experts

**Feb 1- Feb 3 Student learning outcomes for the health and engineering sciences** at the Hashemite University by TEMPUS European Higher education reform experts

**Nov 22-23 2011 UNICA HERE regional Seminar on Equivalence of Degrees in the Euro Mediterranean region** Barcelona Spain

**July 2011 ISO 90001 Internal Auditor course**  
DQS- UL MSS, Amman Jordan

**April 2011 FRONTIERS IN HUMAN PLURIPOTENT STEM CELLS workshop**  
International Cell Research Organization, University of Pittsburgh, Farah Hospital, Hashemite University  
Amman Jordan

**2010 Strategic planning, action planning, strategic communication planning and grant writing and preparation**  
Booz Allen Hamilton, USA

**June 2010 Service learning workshop**  
National University of Ireland

**May 2010 FP7 workshop "Writing proposals for FP7"**  
University of Jordan

**April 28, 2009 Women in the network workshop**  
Dinah Bennet, Durham University  
Jordan University Jordan

**June 2008 Frontiers in Human embryonic stem cells**  
MBL, Woods Hole, MA USA

An NIH funded intensive workshop.

**June 2007 Tegrity Class Capturing Tool**, E-learning Center, Hashemite University Jordan

**April 2007 Blackboard Learning Management System**, E-learning Center, Hashemite University Jordan

**2005** Education Technology and evaluation course training at Hashemite University

**2000** Jordan United States Business Partnership Jordan  
Human Resources Development and Business Planning

**1998** University of Cambridge England  
International general certificate of secondary education, training in school-based assessment in biology

**1996** Princess Tharwat college Jordan  
Learning disabilities

## **Committees**

Hashemite University

- September 2015 - current committee for elearning and MOCCs
- September 2015 -current committee for scientific research
- March 2014- current local GRE committee
- Jan 2014 – current Strategy committee
- Oct 2013 – current QS committee
- Oct 2010- current Information technology higher committee
- Oct 2006 –current library committee for the faculty of Science.  
Duties include: follow up of Journal subscription and book acquisition
- Oct 2005- current Academic counselor for Biology students year 2005- 2006
- Oct 2005- current cultural committee for the Department of Biology and Biotechnology.  
Organized the scientific day (April 28, 2009) for the department. My students wrote and produced a play titled "DNA replication"  
Participated in organizing a scientific day for the department (Dec 7, 2006). My students wrote and produced a play titled “Cell works”  
Organizer of department seminar series  
Organized a reading club for members of the university to encourage reading for pleasure and intellectual enrichment.  
Organizer of scientific day at the university (spring 2009)
- 20. Jan 2008- current Member of the accreditation committee

- May 2009 Established the first reading club at the university.

## **Editor**

**Sep 2013 – Associate Editor Meta Gene**

**Jan 2013 – current Editor Frontiers in Immunology**

**June 2011 – current editor “Muslim-Science.com”** An online an online journal and portal on Science, Technology, Innovation, and Entrepreneurship in the Islamic World and by Muslims living in the West.

**July 2010-current guest editor for the journal “The Anatomical Record”**

## **Consultant /coordinator**

- The Business and Professional Women Association- Amman BPWA- “Inspiring Young Women To Join The Workforce” 2017
- The Academy of Engineering and Technology for the Developing World (AETDEW) founding fellow 2016
- Member of International Diabetes Federation Committee for Epidemiology and Public Health committee. 2016
- **Senior Member of SASTA, 2016**
- **Consultant/advisor course in evolution in arabic University of California Berkley 2016**
- **Pre-Jury member WISE Award 2016**
- **Judge ASRF women innovators in charge Jury member July 2**
- **Member of advisory forum PIZZA Washington DC Feb,10 2016**

Research Cooperation Across the Development Divide: Partnering to Advance Science and Research Capacity"

**Early Childhood Peace Consortium member Yale University, 2015**

- 2015 board member Association of Jordan women in academia
- 2015 UNESCO ISCTIC member of governing board
- 2015 member of the Middle East Research Ethics Training Initiative (MERETI) Advisory Committee, University of Maryland USA
- **AINAC jury member for projects 2015**
- **April 2014 co founder of the Islamic World Academy for Young Scientists, ISESCO**



- **March –April 2014 Role model, advisor and competition judge for Chain reaction Problem based learning Project FP7**
- **Jan 2014 –Jan 2015 Adviser to Think unlimited**
- **Jan 2014 – current Member of the National committee on stem cell ethics**
- **Nov 2013- current Organizer of women mentoring project**
- **Oct 2008- current Organizer of women network in academia**
- **June 2013 –Current Member of UN women advisory board of Jordan**
- **March 2013 – current member of board of directors for the scientific research society Amman Jordan**
- **Feb 2013- current Expert consultant in Education sector, Islamic Development Bank, Saudi Arabia**
- **2012 organizer of three workshops for Faculty of Pharmacy curriculum reform as HERE Zarqa university**
- **Jan 2012- current Co organizer for Islam and Science workshop John Templeton foundation Hashemite university Zarqa, Jordan**
- **Nov 2011- current Co organizer for Student learning outcomes workshops:**
- **Jan 29- Feb 1, 2012 Student learning outcomes for the humanities and arts at the Hashemite University by TEMPUS European Higher education reform experts**
- **Feb 1- Feb 3 Student learning outcomes for the health and engineering sciences at the Hashemite University by TEMPUS European Higher education reform experts**
- **2012- Present Mentor AMENDS program Stanford University, USA**
- **2012 – Present Advisory councilor of the Fetzer Advisory council on the Natural Sciences, Fetzer institute USA**
- **July 2010- current Coordinator for Frontiers of pluripotent Stem cell course in Jordan in collaboration with International Cell Research Organization, University of Pittsburgh, Farah Hospital, Hashemite**

## University

- Jan 2011 –current Mentor at mentor net
- Jan 2010 member of advisory board of Raneen (audio books for children)
- Feb 2010 member of team of [Arabic Book Program Titles Selection Committee](#), USA embassy, Jordan
- Feb 2010 member of scientific committee for Evolution Debate. British council, Jordan
- Sep 2010- current member of IT higher committee
- June 2009 research member of the Jordan national center for women
- July 2009 Member of the National Team for setting priorities for health research issues for Jordan
- July 2009 Member of Queen Rania Teacher academy for the collaborative writing challenges in Jordan
- ¶ Dec 2009 Consultant for the Triangle research group
- 2008- current Fulbright External reviewer
- Feb 2008 – current International Office at the Hashemite university
- June 2008 Member of task force for the Jordan US joint committee on health. Higher council of Science and technology
- June 2008 Member of committee for stem cell research, Higher council Science and technology
- Dec 23, 2008 Women networking in academia, Jordan University

## Conference coordinator

August 2008 Head of the committee for the fourth science research cancer conference

Oct 30, 2008 Women networking event, Belle View Hotel, Amman Jordan

July 2010 We love reading conference organizer

2011 TEDx Hashemite University women  
Theme "empower women empower the world" Dec 2, 2011

2011 TEDxHashemite University Theme "leadership: Dec 20 ,2011

**2013** Women mentoring meeting TEMPUS and Hashemite University Nov 19, 2013

**Feb 2014** We love reading conference organizer

**May 2014** Coorganizer for the seventh scientific research conference (stem cell sector)

**May 2015** TEDxHashemiteUniversitywomen 2015 May 30, 2015

October 2015 Second circle of aleamat PEER project

**Workshop coordinator Stars WLR/Taghyeer March, 24 2016**

September 26-27, 2016 "How to write a manuscript" workshop, JSSR, PEER, Harvard Medical School, Dana Farber, Zarqa University, Zarqa Jordan

## **Trainer**

### **Trainer Networking and research**

Train female academics from Jordan universities 2017 MEPI project

Train staff and researchers at the Center for Cell Therapy, University of Jordan April – Aug 2015

### **Train the trainer**

#### **Higher council of science and technology, Office of capacity building of Jordanian researchers**

Train on networking, international partnerships and communication skills. June 4, 2011

**Trainer** Service learning workshop Training for Faculty TEMPUS Holiday Inn Dec 1, 2011

### **Trainer**

#### **We love reading project**

Train on women empowerment, volunteerism, reading, fundraising, sustainability, evaluation and monitoring, networking, social innovation, entrepreneurship and importance of reading and read aloud.

Training sessions 14 in various areas in Jordan and with various partner organizations including:

1. Ruwwad, Zarqa Anne Lindh foundation, March 2011
2. Mother child education foundation, Turkey April 2010
3. Higher council for children with disabilities, Amman Nov 2009
4. Zaha cultural center, Amman (2 workshops) Dec 2010 and March 2011
5. Children museum, Amman (2 workshops) Jan 2009 and April 2009
6. Albalad theater, Amman (2 workshops) March 2010 and May 2010
7. Amman municipality library (70 librarians ) Nov 2009
8. Hashemite Center in Madaba May 2010
9. Northern Shoon center ministry of social development May 2010
10. Zarqa refugee camp Nov 2009
11. Save the children, Amman June 2010
12. Karak Nov 2011
13. Remas Dec 2011
14. Remas April 2012
15. Mahes June 2012
16. Amman Feb 2013
17. Amman July 1-4, 2013
18. Amman Oct 26-27, 2013
19. Irbid Nov 2-3, 2013
20. Aqaba Nov 9-10, 2013
21. Shobak Nov 16- 17, 2013
22. Amman June 16 2014
23. Mafraq April 2015

## **Reviewer**

**2016 – current reviewer for cancer investigation**

**2016 – current reviewer for genetics and molecular biology**

**2015 Genetic testing and molecular biomarkers**

**2015 medicine**

**2015 – current reviewer for Cytokine**

**2013 – current reviewer for the Lancet**

**2013 –current reviewer for GENE**

**2013- current reviewer for Annals of Medical and Health Sciences Research**

**2012- current reviewer for the Ministry of higher education**

**2011- current Diabetes care**

**2010 – current Bibliotheca Alexandrina distinct reviewer Research Grants (BA/CSSP RG) program.**

**May 2011 Nature education reviewer for an online course for introductory biology**

**2012 Zygon**

**2012 Jordan Journal of biological Sciences**

**E-learning    Development of the following e-learning courses**

- 1. Global civics**
- 2. Cell Biology**
- 3. Cell Biology lab**
- 4. Bioinformatics**

**Activities at the Hashemite University**

**Lectures given at the Hashemite University**

The butterfly effect the American corner Feb 7, 2017  
Circassian and Chechan research Feb 6, 2017  
Medical school October 2016  
Studying abroad March 14, 2016  
Social entrepreneurship March 29, 2016  
WLR March 29, 2016  
Reading October 8, 2015  
MEDx II a new spirit Medical faculty June 7, 2015  
Sharing my experience April 2014  
How to study abroad March 2014  
Reading, Student organized event March 2014  
The Butterfly Effect, IEEE Feb 2014  
We Love Reading, Tanween Jan 2014  
Stem cell research recent developments and challenges Dec 2013  
Creativity in education Nov 2010  
Women as global leaders May 2008  
Stem cells Nov 2008  
Problem based learning May 2007  
Bioinformatics May 2007  
How to apply to study abroad Sep 2007

**April 2009 Invited and arranged Dinah Bennett, Director  
Centre for Entrepreneurial Learning, Durham University UK  
To give a talk on problem based learning**

**Nov 2009 Invited Noble Prize winner 2008 Professor Harold Hausen to  
give a talk to the University students**

**Dec 2010 Invited Professor Hans De Wit Netherlands Institute in Amman  
Netherlands to give a talk to the University students**

**Sep 11, 2013 Invited Dr. Jean Decety University of Chicago “Empathy and  
biology” to give a talk to the University students**

**Nov 12, 2013 organized Arab innovation network outreach event**

**Nov 19, 2013 organized women in academia network and mentoring  
project event**

**Nov 24, 2013 invited Dr. Jolanta, McGill University “Oxytocin the heart hormone” to give a talk to the University students**

**Nov 24, 2013 invited Dr. Hakon Hakonarson University of Pennsylvania “The future of genomics in medicine” to give a talk to the University students**

**March 19, 2014 Dr. Kaveh Khushnood Yale University “Violence and conflict and public health” A talk to the university students**

**October 5, 2015 Dr Nahla Mohammad from Princess Nora university: molecular virology recent advances. A talk to the university students**

**March 23, 2016 Alexandra Chen Psychology Harvard**

## **Research statement**

My research interest is in

### **Cell Signaling:**

Signal transduction refers to the biochemical processes by which cells respond to signal in their internal or external environment. Many of the biochemical pathways that conduct such information are found in all cells across widely divergent species. Thus, understanding of these regulatory systems is essential to the work of most biologists in the basic and applied life sciences. Because signal transduction mechanisms are the natural control circuits that regulate biological systems, they are targets for the development of therapeutic agents to combat disease.

I also adopt an interdisciplinary approach towards science which through knowledge creation and information sharing provides a novel perspective towards science. This is especially important in signaling research where the complexity of the problems demands an interdisciplinary approach. Such an approach provides a wide range of connections with researches in both fields which helps them apply knowledge they learn across disciplines to their respective fields.

### **Genetics of ethnic populations: Circassians and Chechans**

Dajani is the world expert on Circassians and Chechans. Dajani has fully documented the genetics, epidemiology and anthropology of two genetically isolated populations in Jordan; the Circassians and Chechans. She has created family trees for participants and a DNA databank. Thereby preserving the heritage and genetics for future generations.

The Circassian and Chechan communities have been living in Jordan for 150 years after immigrating from their original homeland because of persecution. Both populations are a unique branch of the human lineage. Because they are endogamous over many generations

their genetic pool is homogenous. This makes it easier for scientists to discover genetic and environmental causes for worldwide complex diseases such as diabetes.

Dr Dajani has studied diabetes, obesity, metabolic syndrome, cardiovascular disease and hypertension in these populations. She was able to find the prevalence of diabetes in the Circassian 9.6% and Chechan population 10.1 % much lower than the Jordan population 17.1%. She was the first in Jordan to perform Genome wide association studies and Copy number variance among these populations and has discovered a new genetic risk factor associated with Diabetes AKAND1 that will help understand better the mechanism of the development of diabetes and therefore contribute to development of better therapies.

Dr Dajani has also analysed the polymorphisms of clotting factors in these populations. Dajani has also studied cancer prevalence in these populations and environmental effects such as the nutrition status in these populations and relating them to colon cancer and other genetic variants. Therefore, providing evidence for the benefit from programs encouraging healthy diet and physical activity. Dajani has a database of DNA for future use to share with researchers. The DNA collected has already contributed to the study of ancient DNA and human migration.

### **Current Research**

Funded research:

#### **Common molecular markers between obesity and intrinsic asthma in humans**

Funded by the Hashemite University

Monetary amount: ~7,000 JD

Summary:

The *long term goal* of my research is to determine the biological association between obesity and intrinsic asthma in humans.

Our first objective is to identify common molecular markers between obesity and intrinsic asthma in humans. The central *hypothesis* for the proposed research is that obese humans are more susceptible to developing intrinsic asthma because of low grade systemic inflammation.

#### **The incidence of complex diseases in genetically isolated populations in Jordan**

Funded by the Hashemite University

Monetary amount: ~ 5000 JD

Summary

The *long term goal* of this project is to identify common genetic factors that influence health and disease. Information derived from such studies will be essential for developing new approaches to reduce disease burden and promote health.

The *objective* of this project is to determine the incidence of complex diseases that include various cancer types, type II diabetes, cardiovascular diseases in genetically isolated populations in Jordan. The central *hypothesis* for the proposed research is that the relative genetic homogeneity of certain genetically isolated populations in Jordan including Circassians, Chechens and Druz, results in incidences of complex diseases that differ from the general Jordanian population that consists mostly of Arabs. The *rationale* for the proposed research is that, such inbred and selected populations tend to be ideal for

investigating the genetic factors involved in conditions such as various cancer types, type II diabetes and cardiovascular diseases.

**Anthropological, epidemiological and genetic studies on genetically isolated populations in Jordan**

**Funded by Higher council of science and technology, Jordan**

Monetary amount: 60,000 JD

**Summary**

The purpose of this project is to determine the ethnicity and medical state of the individuals of genetically isolated populations in Jordan which include Circassians and Chechens. Then to use this information in genome wide association studies to identify novel genetic factors involved in conditions such as type II diabetes and cardiovascular diseases. Information derived from such studies will be essential for developing new approaches to reduce disease burden and promote health.

**Genome wide association studies on a genetically isolated population (Chechans) in Jordan in order to identify novel risk factors for Type II diabetes.**

Funded by King Hussein institute for biotechnology and cancer, Jordan

Monetary amount: 75,000 JD

**Summary**

Type II Diabetes is one of the most common non-communicable diseases globally. The genetic basis of Type II diabetes remains largely unknown. The objective of this project is to use genome wide association studies (GWAS) to identify new genes related to type II diabetes in a genetically isolated population in Jordan. GWAS permit a comprehensive scan of the genome in an unbiased fashion and thus have the potential to identify totally novel susceptibility factors. The central hypothesis for the proposed research is that the genetic causes of complex diseases are easier to identify in relatively genetically homogenous population such as the genetically isolated population in Jordan (Chechans). Identification of novel genetic risk factors will offer the potential to explore new biology and develop novel treatments which will reduce disease burden and promote health.

***Developing Service-Learning and Civic Engagement Partnerships across the Curriculum***

**Funded by EU from TEMPUS IV 2010-2012**

Monetary amount: **880000 EU**

The purpose of this grant is to establish a service learning center at the Hashemite University

**Polymorphisms of Clotting factors in genetically isolated populations in Jordan**

Funded by the Hashemite University, Jordan

Monetary amount: 3285 JD

The purpose of this project is to determine the polymorphisms of clotting factors: Factor V, Factor II and MTHFR in genetically isolated populations in Jordan which include Circassians and Chechens



### **Identification of virulence factors in *Cryptosporidium*.**

Funded by SIDA, Sweden

Monetary amount: 75,000 SEK

Joint member

Summary: All previous studies of *Cryptosporidium* have been carried out in cell culture using different cell lines. However, this is the first time that a cell-free culture will be used. Proteins expressed during *Cryptosporidium* development in cell-free and cell-culture will be compared in order to identify and characterize unique novel proteins which might be released during *Cryptosporidium* life cycle development and might play a role in *Cryptosporidium* pathogenesis in human and animal hosts. Such detailed knowledge can aid in determining the biological functions of the novel proteins and in the development of inhibitory compounds (vaccine, monoclonal antibody) that can be used for therapeutic intervention

### **Biodiesel fuel Production in a Packed Bioreactor using Immobilized Lipase Enzyme Produced by *Bacillus* sp. Isolated from Raw Petrol**

Funded by Ministry of higher education, Jordan

Monetary amount: 71,000 JD

Joint member

Summary

Renewable biofuels are needed to displace petroleum derived transport fuels, which contribute to global warming and are of limited availability. Biodiesel offers an alternative fuel that is technically and environmentally acceptable and economically competitive. Different processes are currently available to achieve transesterification of oils for the production of biodiesel, which include chemical or enzyme catalysis or supercritical alcohol treatment. Although biodiesel can be successfully produced by chemical approach, there are several associated problems, such as glycerol recovery and removal of inorganic salts. Use of biocatalysts (lipases) in transesterification of oils for biodiesel production addresses these problems and offers an environmentally more attractive option to the conventional processes. However, high cost of the enzymes often presents the biggest obstacle. The key step in enzymatic processes lies in the successful immobilization of the enzyme, which will allow for its easy recovery and reuse.

Attempts to isolate microorganisms that produce lipase gain continuous attention since this enzyme is used in numerous biotechnological processes such as detergents, textile, and dairy industries; oil processing; production of surfactants; synthesis of chiral pharmaceuticals. Since each industrial application may require specific properties of the enzyme, there is an interest in finding new lipases that could create novel applications. The literature reports that several *Bacillus* species isolated from several diverse environments produce lipase enzyme. In these studies, mostly the medium compositions that stimulate the production of lipase have been investigated. However, The purpose of the present study is to isolate a novel bacterial strain that is capable of producing an efficient lipase enzyme that could be used in the catalysis of oils to produce Biodiesel and to characterize the lipase protein in terms of protein sequence, gene, and the active site (domain).

### **Reading and environmental awareness**

Studying the effect of reading on raising environmental awareness in children.  
PI, 2013-2014

**Reading and Empathy**

Studying the effect of reading on empathy in children in collaboration with the University of Chicago Child neurosuite.  
PI, 2014 – 2015

**PEER Award 2014 for the project “ The Three Circles of Alemat” NSF/USAID  
PI, 2014-2017**

**Measuring the health and wellbeing impacts of a scalable program of psychosocial intervention for refugee youth**

**A collaboration with Catherine Panter Brick, Anthropology department, Yale University Wellcome Trust R2HC 2015-2017**

**Psychosocial status of women in the We Love Reading program in collaboration with Yale University 2014**

**Identification of Genes of complex diseases in consanguous families using genomics and exome sequencing 2013 ongoing**

**A collaboration with Richard Lifton, PhD Genetics department, Yale University**

**Epigenetic's of transgenerational trauma in three Syrian cohorts 2015 -ongoing  
Yale University, Harvard University, Florida University  
PI Rana Dajani**

**Stem cell ethics in Jordan**

The discovery that embryonic stem (ES) cells can be isolated from human blastocysts has opened novel avenues for medical treatment of otherwise incurable diseases and the ability to reconstitute human organ systems in animals in an attempt to create new animal models for human disease. Yet the generation of human ES cells requires the destruction of early human embryos. This confronts us with the moral problem of whether it is justifiable to sacrifice human life in order to treat other human life.

This paper examines from an Islamic perspective the legal status and ethical implication of ES cell research.

**Evolution and Religion**

There is no contradiction between Islam and Evolution. On the contrary there is evidence for evolution in Islam and in the history of Islamic civilization.

**Islam and Science: an educational approach**

Collaborator Funded by John Templeton Foundation 2013-2015

***Muslim responses to Science's big questions***

Collaborator Funded by John Templeton Foundation 2014 – 2015

**Randomness and Providence**

Collaborator Kelly Clark Funded by John Templeton Foundation 2016-2018

**Science Teaching in Contemporary Islamic Societies**, The partnership development grant Funded by the Canadian Social Sciences and Humanities Research Council, Canada  
Collaborator Rana Dajani with the Institute of Islamic Studies at McGill 2015

Grant Number: 1 R25TW010026-01

Funding Agency NIH/FIC

**Title: The research ethics education program in Jordan**

Train the next generation of researchers in the Middle East in public health research and responsible conduct of research through graduate level training and mentoring.

Principal Investigator: [Wael Al-Delaimy](#)

Grant duration: 05/01/2015-04/30/2020

Role on the project: mentor

**Empowerment of Jordanian women academics: reality, achievements, requirements and challenges**

coPI Dajani MEPI grant Oct 2016

**Mobility grant Erasmus plus with Vilnius University  
2015-2017**

**Brown university cognition and We Love reading model**

The Babraham Institute, Cambridge collaboration on mitochondrial DNA in Jordan, Circassian and Chechans with Dr Gavin Kelsey, The Epigenetics Programme

research with Harvard University Dana Farber Institute Professor Navid Madani conducting workshops for women scientists in Jordan

research with University of California Berkeley on human migration Professor Rasmus Neilson.

research with Kazima from Russian on Circassians and Chechan genetics

research with Harvard University on epigenetics of trauma and youth student exchange  
Public health Professor Bernardo Lemos.

**Thesis advisor for the following desertions**

1. The prevalence of factor V (G1691A) and prothrombin (G20210A) mutations in the Circassian population in Jordan, Ala Arafa
2. Genetics polymorphisms CYP2C8 in the Chechan population in Jordan Nuha Tuba
3. Polymorphisms in pharmacogenomics in the Chechan population in Jordan Haneen Maqableh
4. Effect of war trauma on epigenetics in Syrian Refugee adolescence Manal Daas

**Thesis committee member for the following dissertation:**

1. Influence of genetic variations in enzyme CYP2C19 and the effect of the pharmacokinetic profile of Lansoprazole. Screening the allele frequencies of CYP2C19\*1, CYP2C19\*2 and CYP2C19\*3 in Jordanian population. By Imad Abdule-Sami Y Zealous Degree in clinical Pharmacy/ Faculty of graduate studies/ Jordan University, July 2008
2. Association between the polymorphisms TYMS (1494 ins/del6) and MTR A2756G and the risk for breast cancer in Jordanian women by Montaser Al-Hakim Faculty Medical Laboratory Sciences/Faculty of Graduate Studies/Jordan University for Science and Technology July 2012
3. MTHFR genotype correlation with the toxicity of and response to methyltrioxide in rheumatoid arthritis patients at Jordan University hospital by Mais Urabi Faculty of pharmacology faculty of graduate studies University of Jordan July 2012
4. The effect of polymorphisms in ERCC1 and ERCC2 genes on responses of osteosarcoma patients to cisplatin based chemotherapy by Hadeel Obeidat Faculty of pharmacology faculty of graduate studies University of Jordan May 2013
5. Investigating the role of few genetic polymorphisms of vitamin d binding protein (gc) and cytochrome p450 enzyme (cyp2r1) in determining vitamin d status among Jordanians" by Zeinab Lafi Faculty of pharmacology faculty of graduate studies University of Jordan Dec 2013
6. The Effect of chronic B2adrenergic agonist on PGC-1A and GLUT4 mRNA expression in skeletal muscles of mice by Nada Saleh Faculty of pharmacology faculty of graduate studies University of Jordan April 2014
7. The cross talk between Adenosine A2B receptor and insulin signaling in rat skeletal muscle cells by Suna Habahbeh Faculty of pharmacology faculty of graduate studies University of Jordan August 2015
8. Gene Expression alterations in imatinib resistant K562 Chronic myeloid leukemia Cell line by Mai Naser Faculty of pharmacology faculty of graduate studies University of Jordan August 2015
9. Faculty of pharmacology faculty of graduate studies University of Jordan October 2015
10. Do A2B receptors effect gene expression of Il-6 and NUR1-3? Sana Shaukat Faculty of pharmacology faculty of graduate studies University of Jordan Jan 4 2016

11. Pharmacogenetics characteristics of cardiovascular dissuade patients with warfarin  
Aya AlMasri M.Sc. in Biotechnology and Genetic Engineering, JUST Jan 14, 2016
12. Malek Zuluf Faculty of pharmacology faculty of graduate studies University of Jordan April 17, 2016
13. Regulation of *LET-7* micro RNA molecules by dihydrotestosterone in breast cancer  
Razan Al Saber Department of Biology, faculty of graduate studies University of Jordan April 28, 2016
14. Muneer Ghraibeh Faculty of pharmacology faculty of graduate studies University of Jordan May 3, 2016
15. Saed Isamel Faculty of pharmacology faculty of graduate studies University of Jordan May 4, 2016
16. THE CROSS-TALK BETWEEN ALPHA 2 ADRENERGIC RECEPTOR AND INSULIN SIGNALLING IN RAT SKELETAL MUSCLE CELLS Wajd Amly  
Malek Zuuf Faculty of pharmacology faculty of graduate studies University of Jordan May 4, 2016
17. Association of single nucleotide polymorphisms in *DRD2*, *COMT* and *HTR2A* genes with schizophrenia in Jordan Wala Al-Refai JUST Aug 2016
18. TPMT genotypes and adverse effects of azathioprine among Jordanian group. Mohammad Muhanna, University of Jordan Dec 22, 2016
19. CYP3A5 and CYP3A4 genotyping influence on dosing and clinical response cyclosporine among Jordan kidney transplant patients Sahar ElShair Master degree of pharmacology university of Jordan March 2017
20. The fate of egg white proteins in the fertilized eggs of *Columbia livia domestica* (peigeon) Ebtisam Master Biology Hashtemit eUnviersity March 2017
21. INVESTIGATION ON THE CYTOGENETIC EFFECTS OF PSYCHOTIC DRUGS: WHAT ARE WE MISSING? Isra Othman Omari JUST May 2017

## My Teaching Philosophy

My teaching philosophy stems from my experience as a student, which I still am. The teaching process to me is an equal contribution by both teacher and student “both are learning from each other” as Paulo Freire says in his book *Pedagogy of the oppressed*. The teacher only serves to guide the student so that she/he can make their own observations, draw their own conclusions and analysis. I also see a teacher as a mentor. In my opinion, both roles are integrated and indistinguishable. A mentor who is genuinely concerned listens to her students, because listening helps the person talking to understand herself and put things in perspective and one can only talk to someone he or she trusts and who will listen without judgment. An important characteristic of a mentor is honesty in advising the student of the possibilities and facts. A teacher is the person who will tell you the truth no matter how difficult it is to help you overcome and face reality and go on. This would help the student proceed in life knowing what to expect. Also a mentor believes in her/his student, never belittles her/him or her/his ideas and always encourages anything the student may come up with. That is the fertile ground for serendipity and creativity. The fact that the student knows that someone believes in her will help her develop to her full potential and more. My motto is encouragement and to never think that a student is a lost

case. Just like Esme codell, a first grade teacher said: “It is not that you don’t like to read, you have just not found the book you like”. Similarly, never say a student is helpless, you have just not found the way to him/her. Using a variety of techniques including auditory and visual etc. to stimulate all methods of input. I believe no student is hopeless, It is the teacher who fails. The responsibility on the teacher’s shoulders is great, for she is helping prepare the next generation. The most important product of humanity, our children, are being formed and molded by our teachers. The teachers therefore must be the best.

### **Drama in Biology**

A picture is worth a thousand words. An animation is worth a thousand pictures. Acting is worth a thousand animations. Allowing the students to act out a biological mechanism increases their comprehension of the mechanism. Involving them personally in a three dimensional world allows them to think of the mechanism from the perspective of the molecule they are playing in the context of neighbouring molecules in the milieu of the cell. They can now understand the limitations, the challenges, the potentials and the beauty of the biological mechanisms. This allows the students to unleash their imagination and creativity which will allow them to explore and come up with novel mechanisms or solutions to old problems.

In addition to learning life lessons that apply to our community from cellular mechanisms that are all the more clear when acted out.

Drama examples include:

A. Short acts: Student groups acting in front of the class

- 35. Cilia movement
- 36. DNA replication
- 37. DNA transcription

B. Plays: Full plays with script and actors

- 1. Receptor mediated endocytosis
- 2. DNA replication

### **Novel reading as a novel method of teaching**

In many cases, students may not be interested in the courses they take because they are obligatory and/or may not be related to their major.

In order to pique their interest, one may assign a novel that revolves around concepts taught in the course. The idea is that when the student reads the novel he or she becomes interested in the material of the course and hence wants to learn more to understand the novel.

The reading levels of students is low. Assigning a novel to be read as part of the course requirements will help increase reading levels of students.

The assignment would include in addition to reading; questions pertaining to content, opinion of reader in terms of characters, future of the theme, etc. This will allow the students to comprehend how the information they take in the course has a real world application or effect. Hence, tying their education to the real world which will help them develop better skills for tackling the real world and becoming therefore better citizens.

Example

Course Molecular Biology

Novel: Darwin's radio by Greg Bear

Novel material covers the basic concepts of molecular biology and techniques. It also covers the ethics of the application of molecular biology to real life situations.

### **Usage of debate in teaching**

We perform debates between students as a method of teaching and development of personality

### **Journalism:**

Media in many cases reports scientific news that is not always true or correct. The objective of this activity is for students to identify a piece of scientific news in the media (TV, radio or newspaper). The students then check out the information reported for accuracy and truth. Students then write a letter to the news media that published the news outlining the defect in the news reported and adding a note about the importance of truthful reporting and the effect of inaccurate information on the people who access the news and the responsibility of the journalist towards his/her profession, the subject at matter and the people.

**Gamification:** Creating games to learn. Learning by creating the game Serving by creating a fun game for others to learn about cell biology

**Wikipedia in teaching:** Students contribute to increasing the Arabic content online for learners. Each student has to research a topic related to the course and write it in Arabic and post on wikipedia

### **Community awareness project**

The aim of this project is the development of individuals to become responsible active participants in society. The project aims to develop confidence and leadership qualities in the students. These aspects are very important components of the student's university education. When students are exposed to the application of their knowledge they feel that they can make a difference and change the wrong things they see around them. This nurtures their feeling of responsibility towards the community and that they should do something. We have achieved these goals by teaching students to identify problems in their environment, analyse the problem, create a plan to attempt to solve the problem and carry out the proposed plan. Students are required to keep a journal of the application of the plan which should include examples, narrations, good and bad experiences. At the end of the project students shared their experiences. This gave the students the chance to evaluate and criticize their plans after carrying them out. The study group was a class of 60 students ranging between second and third year undergraduate level. Duration of the project was 2 months. The problems identified were diverse and reflected the students' level of awareness of the problems in the community. Problems identified included: smoking, littering, drugs and respect of others, etc.. Plans were diverse some were in the form of distributing advice while others took a more active role by actually being the change itself. Some applied their plan to their immediate families while others applied their plan to a wider circle of the community. In conclusion, the project was a success in achieving its goals. Students displayed an enthusiasm and awareness of their capabilities in eliciting change in their community; true leadership qualities.

## **Recycled Science Art**

Jordan is an emerging and stable economy in the Middle East. The growing industrialization and high population growth rate has led to rapid increase in solid waste generation in the country which has, in turn, put increasing pressure in waste management infrastructure. Around 2 million tons of municipal waste is generated in Jordan each year with most of it diverted to unsanitary landfills and dumpsites. Improper solid waste disposal is leading to public health risks, adverse environmental impacts as well as socio-economic problems.

Such an initiative achieves many objectives at the same time 1. Recycle the waste: Science labs are the most wasteful in terms of plastic 2. Create art: Scientists are always considered too dry, only using one side of their brain and there are always efforts to encourage them to use the other half of their brain and to put them in a more humane image 3. Explain science to others in a fun artistic way. We are always trying to encourage students to go into science.

## **Courses taught**

### **Biology 101 and 102 (freshman)**

I implement problem based learning (PBL) and drama in my teaching

### **Cell Biology (sophomore)**

I implement PBL and drama in my teaching. Students are required to work in groups to review and make a presentation about a disease at the molecular level and its incidence in Jordan. I am working on creating a cell biology e-course.

### **Cell Biology for medical students (Freshman)**

### **Cell Biology virtual lab**

### **Special Topics: Criticizing scientific articles (senior)**

Students learn to be scientists by analyzing and critiquing state of the art research articles from *Nature* and *Science* journals.

### **Special Topics : Bioinformatics and signal transduction (Graduate level)**

### **Seminar (senior)**

### **Molecular Biology (sophomore)**

Students participate in a debate concerning evolution. The first case of a formal debate in Jordan

### **Evolution (senior)**



**Molecular Biology (Graduate level)**

**Cell Biology (Graduate level)**

**Bioinformatics (undergraduate level)**

**Education**

**Problem based learning (PBL):**

Initiated teaching using PBL at the Hashemite University personally and at the level of the institution by preparing seminars and workshops for faculty in coordination with the center for academic excellence.

**Service Learning:**

Pursuing avenues for setting up a service learning centre within the center for academic excellence at the Hashemite University in collaboration with service learning centers in Europe.

Service-learning combines service objectives with learning objectives with the intent that the activity change both the recipient and the provider of the service. This is accomplished by combining service tasks with structured opportunities that link the task to self-reflection, self-discovery, and the acquisition and comprehension of values, skills, and knowledge content

**Received a grant of 880000 EU from TEMPUS IV for a service learning center in Jordan 2009 titled:**

*Developing Service-Learning and Civic Engagement Partnerships across the Curriculum*

**Entrepreneurship center**

**Advocate for establishing an entrepreneurship center at the Hashemite University**

**Community service**

**Founder and Director of "Change" Organization** مؤسسة تغيير

**We love reading Initiative**

[www.weloveread.org](http://www.weloveread.org)

**Statement of Purpose**

Reading is essential to the development of a child's personality, imagination, brain and communication skills. Children must learn to love and enjoy reading to reap its benefits. In order to plant the love of reading in children one must start at an early age. Children will realize that reading is exciting and inspiring and that it opens new horizons and helps them respect and understand others. There is no child who does not like to read. He or she has just not met the right book, similar to finding the right friend.

Children of the Arab world and Jordan in particular are not readers for many reasons. My goal is to create a generation of children that love, enjoy and respect books. Through a series of activities aimed at different sectors of the community I aim to achieve this goal.

"We Love Reading" exists to positively impact children throughout Jordan by creating a library in local neighborhoods, thereby actively encouraging each community to share in the experience of storytelling, and creating a life-long enthusiasm for each child to read and acquire knowledge.

### **Vision**

A society that loves to read at any time and place

### **Motto**

A library in every neighborhood

### **Mission**

Establishing a library in every neighborhood in the Arab world by training individuals from the neighborhood to read out loud to the children 4-10 years old, reading material that is appropriate for their age. And organizing these storytellers in a network for sustainability.

### **Goals and Objectives:**

1. Spread awareness among parents about the importance and benefits of reading .
2. Foster the love of reading among children at a young age.
3. Shift the way society in Jordan perceives reading and their investment in it.
4. Train more groups of storytellers in different neighborhoods in different provinces in Jordan.
5. Establish more "We Love Reading" libraries and storytelling sessions in neighborhoods across Jordan.
6. Creating a solid and growing storytellers network.
7. Spreading the idea and message of "We Love Reading" to reach over 10,000 individuals through TV, radio, newspaper and other media venues.
8. Establish more collaborations and connections with organizations abroad.
9. Build a growing collection and choices of children stories in the Arabic language.
10. Help shape the future and minds of young children and expand their creativity and horizon.

### **Awards**

1. Awarded the 2009 Arab world Social innovator from Synergos for the project "we love reading"
2. Ahel el Hemmeh" initiative, been nominated for the award and got voted in the final 30 runner-ups.
3. Complimentary membership for the Clinton Global Initiative 2010
4. Featured in the Innovation for education book by Charles Leadbeater, WISE Qatar Foundation, 2012
5. Winner for the WISE Award 2014
6. Recognized by UNESCO 2014

7. Recognized by Center for Education innovation 2014
8. Library of congress Literacy Award for best practices 2013
9. Order of Al Hussein for Distinguished Contributions of the Second Class. Granted to "those who have made distinguished contributions to society". 2014
10. Top idea in the IDEAO challenge 2015
11. Star Award for impact 2015
12. **We Love Reading: Refugee-led Reading Circle**
13. Promising Practices in Refugee Education initiative 2017 Pearson, UNHCR and Save the children 2017
14. - runner up for the Core77 design awards for social impact 2017

1.

#### **Achievements:**

1. trained 2000 women how to read aloud
2. established 1200 libraries in different areas of Jordan
3. The model has spread to 27 countries: Lebanon, Egypt, Tunis, Saudi Arabia, UAE, Turkey, Malaysia, Thailand, Atherbaijan, Uganda, USA, Mexico and Germany
4. Local partners: ARAMEX (Ruwwad), Zaha Cultural center, Business development center, Injaz Jordan, US embassy Arab book program, women microfund
5. International partners: Mercy Corps, International reading association
6. Developed 10 children's books about energy and water conservation and littering that we use in our libraries as a medium for changing behavior and raising awareness towards the environment
7. Developed 20 books about disabilities, non violence, refugees, social cohesion, gender

#### **Research**

**Effect of We Love Reading on attitudes towards reading and willingness to go to school 2015- 2017 UNICEF**

**Effect of We Love Reading on reading with Comprehension 2015-2019 RAMP RTI/ USAID**

#### **Reading and Empathy 2014**

Studying the effect of reading on empathy in children in collaboration with the University of Chicago Child neurosuite

#### **Reading and environmental awareness 2013**

Studying the effect of reading on raising environmental awareness in children.

## **Pyscosocial status of women in the We Love Reading program 2014**

A collaboration with Yale University

## **Effect of We Love reading on mental cognition**

A collaboration with Brown University

## **We love writing Initiative**

[www.welovewriting.org](http://www.welovewriting.org)

Work in progress

## **Other project under Taghyeer**

1. **Science Q and A for children**
2. **Empower her**
3. **Be you**
4. **Scientists social entrepreneur competition**
5. **Global civics**
6. **Evaluating programs using RCT**

## **Publications**

**10 stories environment**

**2 stories empathy**

**20 stories on** disabilities, non violence, refugees, social cohesion, gender

**How to write a children book**

**How to conduct RCT**

**WLR training material**

**WLR book**

**Chapter in innovation in education by Charles Leadbeater 2012**

Social Entrepreneurs (Actions and Insights-Middle East North Africa) by Melodena Balakrishnana 2017

Dajani R “We Love Reading” A chapter in the book “Integral Innovation: New

Worldviews (Transformation and Innovation published by Routledge 2017

**Dajani R** and Awad A **We Love Reading – A Women’s Literacy Program in the Arab World** accepted in *Ohio ASCD Journal* Nov 2016

Mahasneh, R, Romanaski M and **Dajani, R** Reading social stories in the community: A promising intervention for promoting children's environmental knowledge and behavior in Jordan *The journal of environmental education* June 2017

### **Jordan women scientists network and women social entrepreneur network**

**Objective:** To provide a network of communication between academic, entrepreneurial and intellectual women in Jordan. This network will facilitate collaboration, team work and social support. This network will help make women better equipped and prepared to be social developers and mentors for the young youth.

**Vision:** To support, encourage, sustain, advise and mentor all women in academia so that they may attain the maximum of their potential with the least hardship and sacrifice.

**Mission:** To provide a network support for women in academia/social entrepreneurs to fulfill the following objectives:

1. dissemination of information and knowledge
2. facilitate collaboration and team work
3. social support
4. research development
5. mentoring
6. communication
7. scientific support in terms of publications

### **Achievements:**

1. The first meeting was convened in Oct 2008 and followed by a special meeting for women in academia in Dec 2008.
2. Finalist for the “women in academia network” the Alumni Engagement innovation fund by the State alumni 2011
3. Participated in women’s circle Synergos 2012, 2015
4. The first women mentoring for social entrepreneurs was launched in collaboration with Synergos on Sep 30, 2013
5. participated in women’s circle at WISE 2013
6. The pilot launching of the women mentoring program, Nov 19, 2013 in collaboration with TEMPUS and Hashemite University.
7. The PEER Award **Jordan - Project 3-47: Three Circles of Alemat: creating collaborative multicultural networks for women in the sciences**
8. Eisenhower fellowship to research women in science challenges 2014
9. Member of the Association of Jordan Women academics 2015
10. Dajani R “Future of science and emerging trends in the region” moderator, 1<sup>st</sup> Women in Science Symposium, PSUT May 18, 2015 Amman Jordan
11. Dajani R “Doing the impossible: If we can reverse cell fate, why can’t we redefine success?” Microsoft The Pink Cloud: Science and Technology: Food for mind, Energy for the future. May 19, 2015 Milan Italy
12. Dajani R “Doing the impossible: If we can reverse cell fate, why can’t we redefine success?” International Forum on Harnessing Women’s talents in Science, Technology and Innovation” UNESCO (ISTIC), Kuala Lumpur, Malaysia May 26, 2015
13. TEDxHashemiteUniversitywomen 2015 May 30, 2015
14. Women in Science hall of fame 2015 US embassy Amman’s Environment, Science, Technology and Health Office for the Middle East
15. NSF NAS three circles of alemat presentation, 2016
16. USAID three circles of alemat presentation, 2016
17. AAAS poster, 2016

18. Microsoft Italy girls May 2016
19. MEPI coPI grant AJWA 2016
20. Harvard workshop How to write a manuscript Sep 2016
21. My story Thomson Reuter journalist workshop on women Sep 25 2016 Marriot Amman Jordan
22. Dajani R the role of diaspora networks in achieving the Sustainable Development Goals: Local Engagement Networks of Diasporas in Engineering and Science (NODES) Forum (moderator) February 16, 2017, AAAS 2017, Boston, Massachusetts,
23. Dajani R Circles of Mentoring Pathways to Professional and Personal Growth AAAS 2017 Boston, USA Feb 17, 2017
24. Dajani R Circle three mentoring: The gathering Diaspora meeting AAAS 2017 Boston, USA Feb 17, 2017
25. Dajani R women in science Cairo 2017
26. Dajani R Women socio economic empowerment Amman March 30-31 2017
27. Women in business PSUT April 11, 2017
28. Dajani R "Mentoring network" Webinar 500 women May 9, 2017

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