Curriculum Vitae

Abeer Al-Qatati, , C(ASCP^{i})^{CM},SC^{iCM}

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Nationality: Jordanian

Education and Degrees:

April 2021	Currently enrolled as student in Master of Science in International Public Health programme- Unicaf in partnership with Liverpool John Moores University
July 2010	**PhD** in Biomedical Sciences (June, 2010) College of Veterinary Medicine and Biomedical Sciences Colorado State University Fort Collins, Colorado Thesis Title: "Translocation of insulin receptors into plasma membrane microdomains in response to insulin and to insulin-enhancing vanadium and chromium compounds"
June 2003	**MS** in Medical Laboratory Sciences College of Medicine University of Jordan Amman, Jordan Thesis Title: "The prevalence of autoantibodies in type1 diabetic patients and their siblings in GAZA STRIP"
February 1996	**BS** in Biological and Biomedical Sciences College of Science University of Jordan Amman, Jordan

Certificates taken:

ASCP Board of certification in International specialist in chemistry examination, 29, June, 2021

ASCP Board of certification in International technologist in chemistry examination, 23, February, 2021

Job Description

Sep,2018-now	**Assistant professor**, Department of clinical laboratory sciences, University of Jordan, Amman, Jordan
2011- Aug,2018	**Assistant professor,** Head of Laboratory sciences Department at Al-Azhar University Gaza, Palestine (2014-2015)
2010	**Teaching assistant**, Department of Biology Colorado State University, Fort Collins, Colorado
1999-2006	**Instructor,** Department of Medical Laboratory Sciences Al-Azhar University Gaza, Palestine
1996-1998	**Instructor,** Department of Biomedical Sciences Arab Community College Amman, Jordan
February 1996- September 1996	**Laboratory Technician** International Labs for Medical Technology Amman, Jordan

Clinical Experience:

Laboratory Technician

Jordan University Hospital, Amman, Jordan	January 1995 - July 1995
King Hussein Hospital, Amman, Jordan	July 1995 - February 1996

- Clinical Skills: Collection of blood samples (venipuncture)
- Laboratory Techniques: ELISA, immunofluorescence, electrophoresis, radioimmunoassays, flow cytometry
- Microbiological Techniques: culturing, staining, microscopy, biochemical identification of microorganisms and parasites
- Histological Techniques: slide preparation by microtomy, staining, tissue preservation
- Hematological Techniques: routine and special staining, cell counting, cell identification/differentiation. diagnosis of blood disorders

- Clinical Chemistry Techniques: analysis of serum components by computerized machines, urine analysis
- Blood Banking: blood withdrawal from donors, blood and serotyping, compatibility tests for donors and recipients, separation of blood component

Research Experience:

Graduate Research Assistant

Colorado State University, Fort Collins, CO January 2007-July 2010

- Sterile cell culture, gel electrophoresis, protein identification using Western blotting, isopycnic ultracentrifugation and isolation of membrane components, spectrophotometry, light and fluorescence microscopy, single particle tracking, fluorescence resonance energy transfer

Jordan University, Amman, Jordan Aug 2001-Aug 2003

- Enzyme linked immunosorbant assay (ELISA), radioimmunoassay (RIA)

Teaching Experience:

University of Jordan Clinical chemistry I, II
Sep, 2018-now Endocrinology
General biochemistry
Metabolism
Medical terminology
Essentials and ethics of lab medicine
Training of clinical chemistry and hormone

Al-Aqsa University
February-June, 2015 Endocrinology

AL-Azhar University
2011- now Clinical chemistry I, II
Endocrinology
Urinanalysis and body fluids
Laboratory instrumentation
Research methodology
Biochemistry

Colorado State University
2010 General Biology Laboratory (Life 102)

Al-Azhar University
1999-2001 Clinical Chemistry I Laboratory (AMSL 3120) 1999-2001 Clinical Chemistry II Laboratory (AMSL 4127) 1999-2001 General Biology Laboratory (Biol 1141)

1999-2001 Introduction to Biochemistry (Biol 2309)
2003-2005 Endocrinology (AMSL 4228)
2003-2005 Hematology I (AMSL 3321)

Arab Community College
1996-1998 Biochemistry, Analytical Chemistry, Organic Chemistry (lectures and corresponding laboratories)

Professional Experience:

Post doctoral researcher

University Medical Center of Hamburg-Eppendorf-Germany September 2015-June 2016, Identification of miRNAs in plasma of prostate cancer patients using microarrays.

Research assistant

Colorado state University , Fort Collins , CO September 2010-August 2011 Membrane fluidity measurements , Mast cell degranulation assay , Quantitative real – time polymerase chain reaction assay
We have shown that some compounds , Cr $(dipic)_3$ and BMOV alter membrane fluidity and affect the function of insulin receptors on RBL-2H3 cells. Insulin receptors are concentrated in microdomains in $Cr(dipic)_3$ and BMOV- treated cells and downstream signaling by insulin receptor occurs.
Here we explore whether V10, a compound that is likely to form after inhalation of vanadium salts might also have membrane effects that lead to mast cell degranulation and/or increased antigen responsiveness

Visiting researcher

Dr. Susan Bailey lab, Colorado State University, Fort Collins, CO September-December 2010
Fluorescence In Situ Hybridization (FISH), Fluorescence plus Giemsa assay Here, the frequency of Telomere sister chromatid exchanges (TSCE's) in multiple cell lines was quantified, in addition, the effects of telomerase status and exogenous damage inducing agents (Ionizing radiation and UV radiation) on the frequency of TSCE's was determined

Poster presentation:

Abeer Al-Qatati, Christine Akrong, Ines Stevic, Klaus Pantel, Julius Awe, Jeff Saranchuk, Darrel Drachenberg, Sabine Mai, and Heidi Schwarzenbach. Plasma microRNA signature is associated with risk stratification in prostate cancer patients. 10th International Palestinian Conference of Laboratory Medicine. Ramallah-Palestine. April 18-21.2018

Al-Qatati A, Winter P, Wolf-Ringwall A, Crans DC, Barisas BG and Roess DA. Tris(pyridinecarboxylato)chromium(III) decreases membrane lipid order and localizes insulin receptors to detergent resistant membrane regions involved in receptor

phosphorylation. Cell and Molecular biology/ Biomedical Sciences spring poster symposium, February, 2011 Colorado State University, Fort Collins, CO

Awards:

May- 2018	Supervision of scientic group award from conference of student's creativity-Polytechnic University of Hebron-Palestine
March-2018	Research award from Women's commission in Southern governorates-Gaza Strip
2017	Award from Higher Council of Innovation and Excellence-Palestine- the Second National Forum for Scientists
Jan,2007-Dec,2009	Fullbright Scholarship Grantee (Amideast)
1999-2005	Highest Distinction in Teaching

Scholarships:

L'oréal-Unisco for women in science fellowship- 2015

Zamalah scholarship (Bank of Palestine and Welfare cooperation)-2015

Language Skills:

Arabic
English (Score of general IELTS exam: **7**), test was done in May, 2013

Computer skills:

ICDL course (November 1,2006- December 12, 2006), Havana cultural center, Amman-Jordan

Training courses

Introduction to laboratory quality management system "ISO 15189". July 25, 2020. (AURUM BIOTECH), Amman-Jordan

Writing standard operating procedures in accordance with ISO 15189. July 23,2020. (Jordanian trainers society), Amman-Jordan

Basics of molecular biology techniques. (July 11-12, 2020). (AURUM BIOTECH), Amman-Jordan

Elsevier trainings for Author workshop: How to write great papers and get published. (October 17, 2019). (University of Jordan), Amman-Jordan

Developing the capabilities of faculty members (Course design, Program intended learning outcomes, student assessment and exam preparation, project based learning, blended learning, e-learning, academic quality assurance (September 3-5,2019) (University of Jordan), Amman-Jordan

Supervision of postgraduate students (August 27,2019) (University of Jordan), Amman-Jordan

Quality control practices in medical labs (November 29, 2018) (Jordanian trainers society), Amman-Jordan

Statistical analysis using SPSS (April 25-May 25, 2017) (Islamic university of Gaza), Gaza-Palestine

Statistical analysis using SPSS (June 22-July 5, 2015) (Islamic university of Gaza), Gaza-Palestine

Dutch learning course (February 2- May 28, 2015) (Goethe institute), Gaza-Palestine

Proposal writing (June 15, 2014- June 19, 2014) (Arab student Aid International), Gaza-Palestine

Supervisory and Leadership skills (May 11, 2014- May 22, 2014) (small and medium enterprise business training, UN), Gaza-Palestine

Training course for IELTS exam preparation (March 5, 2013- April 4, 2013). British academy of languages, Gaza-Palestine

Management skills (October 22, 2012- December 10, 2012) (small and medium enterprise business training, UN), Gaza-Palestine

Abstracts and publications:

Al-Qatati A and Roess DA. Effects of insulin-mimicking compounds on membrane fluidity and translocation of insulin receptors into lipid rafts. *Fifth Annual Biomedical Sciences Research Retreat,* abstract 5 (2008).

Al-Qatati A. Translocation of insulin receptors into plasma membrane microdomains in response to insulin and to insulin-enhancing vanadium and chromium compounds, abstract of dissertation (2010).

Full-length research publications:

Abeer Alqatati, Saeb Aliwaini, Abdel Monem Lubbad, Saleh Nazmy Mwafy, Eman Salleh Attallah, Husam Eddeen M. Abu Tayem, Ayman Abu Mustafa and Moen M. Redwan. The expression level of T-box transcription factor TBX2 in breast cancer and its clinical significance. Accepted at World cancer research journal. 2021

Abeer Alqatati, Abed-Sattar S. Hamad Elgazwy and Saeb H. Aliwaini. 2020. Anticancer activities of newly synthesized Pallidium (II) complex in breast cancer cells. International Journal of Cancer Research., 2020, 16 (2): 40-47

Abeer Al-Qatati, Christine Akrong, Ines Stevic, Klaus Pantel, Julius Awe, Jeff Saranchuk, Darrel Drachenberg, Sabine Mai, and Heidi Schwarzenbach. Plasma microRNA signature is associated with risk stratification in prostate cancer patients.. International Journal of cancer., 2017, 1-9

Saeb Aliwaini, Sanabel Abdalla Dawas, Husam Edden M Abu Tayem, Salsabeel Hassan Aljoujou and **Abeer Al-Qatati**. Combined caffeine and cisplatin treatment induces synergistic cytotoxicity in Hela cell line.. IUG Journal of Natural Studies., 2017, 25: 250-256

Abeer Al-Qatati and Saeb Aliwaini. Combined pitavastatin and decarbazine treatment activates apoptosis and autophagy resulting in synergistic cytotoxicity in melanoma cells.. Journal of Oncology Letters., 2017: 1-7

Abeer Al-Qatati and Mohammed El-Khateeb. Determination of anti-insulin and anti-glutamic acid decarboxylase in type 1 diabetic patients and their siblings in Gaza Strip.. Journal of Al-Azhar University Gaza-Palestine (Natural Sciences)., 2014, 16

Abeer Al-Qatati, Amber L.Wolf-Ringwall, Gerrit J.Bouma, Debbie C.Crans, B.George Barisas and Deborah A. Roess. Using real time RT-PCR analysis to determine gene expression patterns in RBL- 2H3 cells in response to insulin, glucose and the anti-diabetic bis(maltolato)oxovanadium (IV), , Journal of Al-Azhar University Gaza-Palestine (Natural Sciences) ., 2013, 15: 129-152

Abeer Al-Qatati, Fabio L. Fontes, B.George Barisas, Dongmei Zhang, Deborah A. Roess, and Debbie C. Crans. Raft localization of type 1Fcε receptor and degranulation of RBL-2H3 cells exposed to decavanadate, a structural model for V_2O_5, Dalton Trans., 2013, 42, 11912-11920

Peter W. Winter, **Abeer Al-Qatati**, Amber L. Wolf-Ringwall, Samantha Schoeberl, Pabitra B. Chatterjee, B. George Barisas, Deborah A. Roessa, and Debbie C.Crans. The anti-diabetic bis (maltolato) oxovanadium (IV) decreases lipid order while increasing insulin receptor localization in membrane microdomains, Dalton Trans., 2012,41, 6419-6430
(*Dr. Al-Qatati and Dr. Winter contributed equally to this manuscript)

A. Al- Qatati*, P.W. Winter*, Amber L.Wolf-Ringwall, P.B. Chatterjee, A. K. Van Orden,D.C. Crans, D.A Roess, et. Insulin receptors and downstream substrates associate with membrane microdomains after treatment with insulin or chromium (III) picolinate, Cell Biochemistry and Biophysics 52: Nov 2011

Published abstracts:

Deborah A. Roess**, Abeer Al-Qatati**, Debbic C. Crans and B. George Barisas, Decavanadate Initiates Degranulation of RBL-2H3 Cells by Altering Membrane Fluidity, American Chemical Society Rocky Mountain Regional Meeting, Symposium:

Reactions in Lipid and Lipid-like Environments and Applications of the Chemistry, October 18, 2012

P.W. Winter, **A. Al-Qatati**, A. Wolf-Ringwall, D.C. Crans, A. Van Orden, B.G. Barisas and D.A Roess, Compartmentalization of Insulin Receptor by Insulin and the Insulin-Like Compound BMOV in Live RBL-2H3 Cells, Colorado State University Graduate Research Symposium, Feb. 2010

P. W. Winter, **A. Al-Qatati**, A. Wolf-Ringwall, D.C. Crans, A. Van Orden, B.G. Barisas and D.A Roess, Compartmentalization of Insulin Receptor by Insulin and the Insulin-Like Compound BMOV in Live RBL-2H3 Cells, Metals in Medicine- Gordon Research Conference, Proctor, NH, June, 2010

P. W. Winter, **A. Al-Qatati,** A. Wolf-Ringwall, N.M. Ashwash, D.C. Crans, A. Van Orden, B.G. Barisas and D.A Roess, Tris(pyridinecarbxylato)chromium(III) ($Cr(pic)_3$) Increases Plasma Membrane Fluidity and Localizes Insulin Receptors within Lipid Rafts Involved in Phosphorylation of Insulin Receptor, IRS-1 and AKT in RBL-2H3 Cells, Keystone Symposia on Molecular and Cellular Biology; Type 2 Diabetes, Insulin Resistance and Metabolic Dysfunction, Jan. 2011; J1 2011; a4

Conferences:

1st International conference of Applied Medical Sciences (ICAMS-2017). November 18-19, 2017. Al-Azhar University-Gaza. (Head of clinical chemistry session)

Plasma microRNA signature is associated with risk stratification in prostate cancer patients. **Abeer Al-Qatati**, Christine Akrong, Ines Stevic, Klaus Pantel, Julius Awe, Jeff Saranchuk, Darrel Drachenberg, Sabine Mai, and Heidi Schwarzenbach.

The sixth International Conference for Science and development. March 2017. Faculty of Science, Islamic University of Gaza. Combined caffeine and cisplatin treatment induces synergistic cytotoxicity in Hela cell line. Saeb Aliwaini, Sanabel Abdalla Dawas, Husam Edden M Abu Tayem, Salsabeel Hassan Aljoujou and **Abeer Al-Qatati**

The 1st Chronic Disease Conference, "Promotion, prevention and life style changes". 2017. Palestinian Medical Relief Society-Gaza. Circulating miRNAs: Predictors of cardiovascular diseases among type 2 diabetes in Gaza Strip. Saeb Aliwaini, Basim Ayesh, Atef Masad, Masood Abu Halima, Salah El-Shami, Nedal Qadora, Hussam Eddeen M Abu Tayem and **Abeer Al-Qatati**

1st National Conference On Applied Biomedical Sciences. April 20, 2015. The Arab American University, Jenin/ West bank

Using real time RT-PCR analysis to determine gene expression patterns in RBL- 2H3 cells in response to insulin, glucose and the anti-diabetic bis(maltolato)oxovanadium (IV), **Abeer Al-Qatati**, Amber L.Wolf-Ringwall, Gerrit J.Bouma, Debbie C.Crans, B.George Barisas and Deborah A. Roess.

Metabolism 2012: from signaling to disease. November 15-16, 2012, German cancer research center, Heidelberg/ Germany

The second International Conference on Basic and Applied Sciences (ICBAS2). October 9-11, 2012, Al-Azhar University-Gaza
Insulin receptors and downstream substrates associate with membrane microdomains after treatment with insulin or chromium (III) picolinate**,** **Abeer Al-qatati**, Peter W. Winter , Amber L. Wolf-Ringwall ,Pabitra B. Chatterjee , Alan K. Van Orden , Debbie C. Crans , Deborah A. Roess , B. George Barisas

Workshops taken:

16 hours **Basic proteomics techniques** workshop (Buffers calculations and preparation, Protein purification and determination, ELISA, Protein electrophoresis and immunoblot, IEF). January 1-2, 2019. Jordan company for antibody production (MonoJo). Amman, Jordan

OWSD early career women scientists fellowship- orientation workshop. December 10-14, 2018. Trieste, Italy

Lectures given:

8 hours of **Urine and CSF analysis workshop**. From march 21- April 8, 2021. Genetics and Bioinformatics Association. Amman, Jordan.

3 hours of **How to choose an article and how to present it** workshop**.** August 29,2020. Genetics and Bioinformatics Association. Amman, Jordan.

3 hours of **How to write a proposal for a scientific research** workshop. August 11,2020. Genetics and Bioinformatics Association. Amman, Jordan.

6 hours of **medical terminology** workshop. October 4,6,8,2020. Genetics and Bioinformatics Association. Amman, Jordan.

Introduction to scientific research. Student union council, scientific committee. University of Jordan. October 31, 2019

An Introduction to the cell of cancer. Science student research club. Faculty of Science/University of Jordan. September 19, 2019

Scientific days:

Scientific day for Laboratorians. Association of Jordanian Medical Laboratory Specialist. December 13, 2019. Amman, Jordan.

Using real time RT-PCR analysis to determine gene expression patterns in RBL-2H3 cells in response to insulin, glucose and the anti-diabetic bis(maltolato)oxovanadium (IV). (Head of Hematology and blood bank session)

A Scientific day for Medical Laboratory Department-Faculty of Applied Medical Sciences-Al-Azhar university/Gaza. Thrombosis: one of the most common diseases in Gaza Strip. April 2018

The third scientific day for Medical Laboratory Department-Faculty of Applied Medical Sciences-Al-Azhar university/Gaza. New trends in male infertility. May, 2015

The second scientific day for Medical Laboratory Department- Faculty of Applied Medical Sciences- Al-Azhar university/Gaza
Towards Thalassemia free palestine. Clinical manifestations of Thalassemia. February, 2015

The first scientific day for Medical Laboratory Department- Faculty of Applied Medical Sciences- Al-Azhar university/Gaza
Clinical implications of thyroid gland. November 23, 2014

Scientific lectures taken:

Covid-19: The Jordanian story, from an immunologic point of view. Online lecture organized by Jordanian Academia Industry Platform (JAIP) and AURUM BIOTECH. July 11, 2020

What is the impact of COVID-19 on scientific research. Online lecture organized by Jordanian Academia Industry Platform (JAIP) and AURUM BIOTECH. June 24, 2020

COVID-19: Why the world doesn't see an effective vaccine. Online lecture organized by Jordanian Academia Industry Platform (JAIP) and AURUM BIOTECH. June 9, 2020

Pharmacotherapy of COVID19; A pathophysiologic approach. Online lecture organized by Jordanian Academia Industry Platform (JAIP) and AURUM BIOTECH. June 4, 2020

Master degree defense:

An internal discussant for master thesis entitled " Expression of TBX2 Among Breast cancer Patients in Gaza Strip". Al-Azhar University-Gaza. May 23th, 2018

Memberships:

American Society for Clinical Pathology, until 31/12/2021

Member of Genetics and Bioinformatics Association, June, 2020-now

Member of the Association of Jordanian Medical Laboratory Specialist, 2019

RSC (Royal Society of Chemistry) membership (2012-now)

Administrative positions:

Member of the Scientific Research , dispatching and nomination, studying plans, Accreditation and quality control, emergency and general safety and library committees. university of Jordan, sep, 2019-now

Amanuensis of medical laboratory sciences department, university of Jordan, sep, 2019-now

Representative of the medical laboratory sciences at the council of the college of science deanship, University of Jordan, sep, 2019-sep 2020

Head of Laboratory sciences Department at Al-Azhar University Gaza, Palestine, sep,2014-sep,2015

References:

Deborah Roess, PhD (Graduate Advisor) Professor
of Biomedical Sciences Colorado State University
Fort Collins, CO 80523 (970)
491-7326
daroess@lamar.colostate.edu

B.George Barisas, PhD Professor of Chemistry Colorado
State University Fort Collins, CO 80523(970) 491-6641
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Debbie C Crans, PhD Professor of
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University Fort Collins, CO 80523
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and head
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Animal Reproduction and Biotechnology Laboratory
Colorado State University
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Faculty of science, Biology department
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