

Marya Obeidat, Ph.D
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EDUCATION

- May 2015 **PhD** in Medical Sciences/Experimental Medicine, Department of Medicine, University of Alberta, Edmonton, Alberta, Canada.
Dissertation: A Study of the Protein Phosphatase 1(PP1) Regulatory Subunit, TIMAP, in Human Glomerular Endothelial Cells.
- February 2006 **MSc** in Medical Laboratory Sciences/Diagnostic Molecular Biology and Human Genetics, Department of Medical Laboratory Sciences, Jordan University of Science and Technology, Jordan.
Thesis: Screening of The Most Common Mutations Among Familial Mediterranean Fever Patients in Jordan
- February 2003 **BSc** in Biotechnology and Genetic Engineering, Department of Applied Biology, Jordan University of Science and Technology, Jordan.

RESEARCH EXPERIENCE

- 2019- now **Principal Investigator**
Department of Medical Laboratory Sciences, Jordan University of Science and Technology, Jordan
- Jun 2006- May 2015 **Research Assistant**
Dr. Barbara Ballermann Laboratory, Department of Medicine, University of Alberta, Edmonton, Alberta, Canada
- Feb 2003- Jan 2006 **Research Assistant**
Princess Haya Biotechnology Center and Department of Medical Laboratory Sciences, Jordan University of Science and Technology, Jordan
- Sept 2004 **Graduate Student (MSc) / Training in Molecular Biology Techniques.**
Department of Medical Genetics, Saint-Joseph University, Beirut, Lebanon

Aug 2002-Jan 2003 **Undergraduate Student/ Undergraduate Research Project**
Medical Microbiology Laboratory, Faculty of Veterinary
Medicine, Jordan University of Science and Technology,
Jordan

Jul-Oct 2002 **Undergraduate Student/Training in Diagnostic
Laboratories.**
King Abdullah II University Hospital, Jordan

Laboratory Techniques and skills:

- DNA extraction
- RNA extraction
- Small interfering RNA (siRNA)
- Conventional and real time PCR
- DNA sequencing
- DNA synthesis assay
- Agarose and polyacrylamide gel electrophoresis
- Restriction fragment gel polymorphism
- Plasmid transfection
- Adenovirus infection
- Western blot
- Flow Cytometry
- Confocal microscopy
- Electrical cell-substrate impedance sensing (ECIS)
- ELISA
- Apoptosis assays
- Survival assays
- 2D angiogenesis assay
- 3D angiogenesis assay
- Aorta ring angiogenesis assay
- In vivo angiogenesis assay
- Protein phosphorylation
- Phosphatase assay
- Phosphatase inhibitors
- Protein binding assay
- Cytoskeleton extraction
- Immunoprecipitation
- Immunofluorescence
- Immunohistochemistry
- Cell and tissue culture
- Cell proliferation assay
- Cell migration assay
- Cell adhesion assay

- Endothelial-blood barrier assay
- Glomeruli isolation
- Transgenic animals
- SPSS analysis

TEACHING EXPERIENCE

- Jan 2018-present Assistant Professor of Molecular Biology (**Courses:** Advanced Molecular Biology, Molecular and Cellular Pathogenesis, Research Proposal, Advanced Biochemistry, Undergraduate Seminar, Independent Studies, Research Methods, Advanced training in molecular genetic), Department of Medical Laboratory Sciences, University of Science and Technology, Jordan
- Apr 2017- Jan 2018 English language as a second language (ESL) teacher at World Associates Middle East organization, Irbid, Jordan.
- Mar 2014 Designed and taught 2 lectures to cell biology undergraduate and graduate students for the course “The Birth and Death of a Cell”, Department of Cell Biology, University of Alberta, Edmonton, Alberta, Canada
- 2008-2010 Mentored the following summer research students at Dr. Ballermann’s laboratory, Department of Medicine, University of Alberta, Edmonton, Alberta, Canada:
- Summer 2008 & 2009: Ranish Deedar Ali Khawaja, MD graduate of Agha Khan University, Pakistan.
 - Summer 2010: Scott Meyer, B.Sc graduate of University of Alberta.
- 2003-2004 Teaching Assistant, Department of Medical Laboratory Sciences, Jordan University of Science and Technology, Jordan

THESIS STUDENTS

- Jul 2020-Feb 2022 Supervisor for Dalya Saidi
- Jan 2019-Dec 2021 Supervisor for Afnan Abu Oun
- Sep 2019-present Supervisor for Batool Firas

Sep 2019- Feb 2022	Supervisor for Ayah Khaldi
July 31 2019	Internal examiner for Rand Nofal
July 2018-Jan 2020	Co-advisor for Marah Hussein
Feb 2020-Aug 2021	Co-advisor for Ruba Ra'fat
Feb 10 2022	Internal examiner for Reem Darweesh
Feb 2022- present	Supervisor for Saleh Tadros
Nov 2021-Present	Co-advisor for Raghad Frewan
Oct 2021-present	Co-advisor for Randa Ananzeh

COMMITTEES

Sep 2021	Faculty's committee for the best university award, Faculty of Applied Medical Sciences, Jordan University of Science and Technology
Sep 2019-Present	Department's journal club committee, Department of Medical Sciences, Jordan University of Science and Technology, Irbid, Jordan
Sep 2018- Feb 2022	Department's research grant evaluation committee, Department of Medical Sciences, Jordan University of Science and Technology, Irbid, Jordan
Sep 2019- Feb 2020	Faculty's conference planning and scientific committees, Faculty of Applied Medical Sciences, Jordan University of Science and Technology
Sep 2019-Aug 2020	Department representative at the faculty council, Faculty of Applied Medical Sciences, Jordan University of Science and Technology
Sep 2018- Aug 2019	Students affairs committee, Faculty of applied medical sciences, Jordan University of Science and Technology

COURSES AND WORKSHOPS

- Oct 27, 2019 **International Center For Genetic Engineering and Biotechnology, an overview of opportunities and collaboration with Jordan**, Jordan University, Amman, Jordan.
- Sep 25 2018 **Research Based Teaching**, Erasmus plus (HEREs), Jordan University of Science and Technology, Jordan
- Sep 12 2018 **Psychological First Aid**, International Rescue Committee, World Associates LTD, Irbid, Jordan.
- Jun 28& Jul 5 2018 **Contemporary Teaching Methods**, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Jordan
- Apr 10-11 2018 **Online Learning Design Course**, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Jordan
- Apr 4 2018 **E-learning, Creating and Editing Educational Videos using Camtasia Studio9**, Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Jordan
- Apr 12&16 2017 **Teaching English as a second Language**, World Associates LTD Irbid, Jordan.
- Jan-Apr 2014 **Graduate Teaching and Learning Course level 2**. It recognizes 50 hours of training in post-secondary teaching development. Faculty of Graduate Studies and Research, University of Alberta, Edmonton, Alberta, Canada.
- 2013- 2014 **Graduate Teaching and Learning Course level 1**. It recognizes 21 hours of pedagogy training. Faculty of Graduate Studies and Research, University of Alberta, Edmonton, Alberta, Canada.
- Oct 2007 **Ethics and Scientific Integrity Course**. University of Alberta Edmonton, Alberta, Canada.
- Dec 15 2006 **Animal User Training Program/The Care and Use of the Mouse in research**. University of Alberta, Edmonton, Alberta Canada.
- Sep 29 2006 **Concepts in Biosafety: Basic principles and Practices**.

University of Alberta, Edmonton, Alberta, Canada.

- Sep 27 2006 **Animal User Training Course 1/ The Care and Use of Animals in Research, Teaching and Testing.** University of Alberta, Edmonton, Alberta, Canada.
- Jul 6-11 2006 **Radiation Safety Course.** University of Alberta, Edmonton, Alberta, Canada.
- Mar 2013-Apr 2014 Participated in the following workshops at the center for teaching and learning, University of Alberta, Edmonton, Alberta, Canada.
1. Teaching philosophy
 2. How to prepare a teaching dossier
 3. Teaching effectively in the lab
 4. Curriculum planning
 5. Assessing student learning
 6. Learning objectives
 7. Learning outcomes
 8. Instructional strategies for learning
 9. Student engagement strategies for the large classroom
 10. How humor, music, and movements enhance student engagement
 11. Using your voice in the classroom
 12. Smart classroom technology
 13. Why students don't complete required reading
 14. Teaching and learning when English is not your first language
 15. Where to spend my time for course success.
 16. Graduate student perspectives on teaching-scenarios you may face as an instructor.
 17. Peer Observation.
 18. Leaving your mark: grading the essay
 19. Effective grading practices in biology
 20. Conflict resolution
 21. How can I teach students in large classes to write
 22. How can I improve as a writer
 23. What makes for a good writing assignment
 24. How should I evaluate student writing

PUBLICATIONS

1. **Marya Obeidat**, Khaldon Bodoor, Mohammad Alqudah, Amro Masaadeh, Marwa Barukba, Rowida Almomani. TIMAP Upregulation Correlates Negatively With Survival in HER2- Negative Subtypes of Breast Cancer. APJCP. 2021.

2. Xin Wang, **Marya Obeidat**, Laiji Li, Phuwadet Pasarj, Salah Aburahess, Charles F.B. Holmes, Barbara J. Ballermann. TIMAP inhibits endothelial myosin light chain phosphatase by competing with MYPT1 for the catalytic protein phosphatase 1 subunit PP1c β . JBC. 2019 Sep; 294 (36):13280-13291.
3. Barbara J. Ballermann and **Marya Obeidat**. Tipping the Balance from Angiogenesis to fibrosis in CKD. Kidney Int Suppl. 2014 Nov; 4(1):45-52. **Review**.
4. **Obeidat M**, Li L, Ballermann BJ. TIMAP Promotes Angiogenesis by Suppressing PTEN-mediated Akt Inhibition in Human Glomerular Endothelial Cells. Am J Physiol Renal Physiol. 2014 Sep 1; 307(5): F623-633. **Research Article**
5. Shopik MJ, Li L, Luu HA, **Obeidat M**, Holmes CF, Ballermann BJ. Multi-directional Function of the Protein Phosphatase 1 Regulatory Subunit TIMAP. BBRC. 2013 Jun 14; 435(4):567-573. **Research Article**
6. **Marya Obeidat**, Laiji Li, Barbara J. Ballermann. TIMAP is Critical for Glomerular Endothelial Cell Angiogenesis. J Am Soc Nephrol. 2012; 23:127A. **Abstract**
7. **Obeidat M**, Obeidat M, Ballermann BJ. Glomerular endothelium: a porous sieve and formidable barrier. Exp Cell Res. 2012 May 15; 318(9):964-972. **Review**
8. **Marya Obeidat**, Laiji Li, Barbara J. Ballermann. A Novel Function of the MYPT Family Member TIMAP in Endothelial Cells. J Am Soc Nephrol. 2011; 22:416A. **Abstract**
9. Wegner B, Al-Momany A, Kulak SC, Kozlowski K, **Obeidat M**, Jahroudi N, Paes J, Berryman M, Ballermann BJ. CLIC5A, a Component of the Ezrin-Podocalyxin Complex in Glomeruli, is a determinant of Podocyte Integrity. Am J Physiol Renal Physiol. 2010 Jun; 298 (6): F1492-503. **Research Article**
10. **Marya Obeidat**, Laiji Li, Kathy Kozlowski, Ranish Deedar, Steven C. Kulak, Barbara J. Ballermann. When a MYPT Family Member is not a MYPT. J Am Soc Nephrol. 2009; 20:534A. **Abstract**
11. Laiji Li, Michael Shopik, **Marya Obeidat**, Kathy Kozlowski, Charls Holmes, Barbara J Ballermann. TIMAP Regulates the Subcellular Localization of Heterogeneous Ribonuclear Protein U (HnRNP-U) in Glomerular Endothelial Cells (EC). J Am Soc Nephrol. 2008. **Abstract**
12. **Marya Obeidat**, Binytha Wegner, Steve C. Kulak, John Paes, Mark A. Barryman, Barbara J. Ballermann. The Chloride Intracellular Channel CLIC5A

- Regulates Glomerular Ultrastructure In Vivo. *J Am Soc Nephrol.* 2007; 18: 207A. **Abstract**
13. Laiji Li, Kathy Kozlowski, **Marya Obeidat**, Barbara J. Ballermann. Phosphorylation of TIMAP by PKA and GSK-3beta Regulates TIMAP-associated Protein Phosphatase 1(PP1c) Activity. *J Am Soc Nephrol.* 2007; 18:29A. **Abstract**
 12. Laiji Li, Kathy Kozlowski, **Marya Obeidat**, Barbara J. Ballermann. The Protein Phosphatase Targeting Subunit TIMAP Regulates Filopodia Formation in Glomerular Endothelial Cells. *J Am Soc Nephrol.* 2007; 18:210A. **Abstract**

CONFERENCES:

PRESENTATIONS:

1. **Marya Obeidat.** TIMAP is upregulated in Leukemia Patients. **5th World Cancer Summit**, Dubai, UAE, May 9-10, 2022.
2. **Marya Obeidat.** TIMAP is a positive Regulator of Endothelial Cell Growth and Angiogenesis. Poster session at the **CIHR Young Investigators Forum**, Edmonton, Alberta, Canada, May 2014.
3. **Marya Obeidat.** TIMAP Positively Regulates Akt Phosphorylation by Inhibiting PTEN in Endothelial Cells (EC). Invited presentation at **the Signal Transduction Research Group Retreat**, Edmonton, Alberta, Canada, May 2013.
4. **Marya Obeidat.** TIMAP is Critical for Endothelial Cell Proliferation, Survival and Angiogenesis. Poster session at **Medicine Research Day**, Edmonton, Alberta, Canada, May 2013.
5. **Marya Obeidat.** TIMAP is critical for Glomerular Endothelial Cell Angiogenesis. Poster Session at the **Annual meeting of the American Society of Nephrology**, San Diego, CA, USA, November 2012.
6. **Marya Obeidat.** TIMAP Regulates Akt Phosphorylation and Endothelial Cell Proliferation. Poster session at **Medicine Research Day**, Edmonton, Alberta, Canada, May 2012.
7. **Marya Obeidat.** A novel Function of the MYPT Family Member TIMAP in Endothelial Cells. Poster Session at the **Annual meeting of the American Society of Nephrology**, Philadelphia, PA, USA, November 2011.

8. **Marya Obeidat.** Protein Phosphatase 1-independent Inhibition of MLC2 Phosphorylation by the MYPT Family Member TIMAP. Invited presentation at the **Annual Western Canadian Kidney Research Symposium**, Calgary, Edmonton, Canada, October 2011.
9. **Marya Obeidat.** Regulation of Endothelial Cell Myosin Light Chain 2 (MLC2) Phosphorylation by TIMAP. Invited presentation at the **Signal Transduction Research Group Retreat**, Edmonton, Alberta, Canada, May 4, 2011.
10. **Marya Obeidat.** An Endothelium- Specific Myosin Light Chain Phosphatase. Poster session at **Medicine Research Day**, Edmonton, Alberta, Canada, May 2010.
11. **Marya Obeidat**, Laiji Li, Kathy Kozlowski, Ranish Deedar, Steven C Kulak, Barbara J Ballermann. When a MYPT Family Member is not a MYPT. Poster Session at the **Annual meeting of the American Society of Cell Biology**, San Diego, CA, USA, December, 2009.
12. **Marya Obeidat**, Laiji Li, Kathy Kozlowski, Ranish Deedar, Steven C Kulak, Barbara J Ballermann. When a MYPT Family Member is not a MYPT. Poster Session at the **Annual meeting of the American Society of Nephrology**, San Diego, CA, USA, November, 2009.
13. **Marya Obeidat.** Is TIMAP a Novel Member of MYPT Family? Invited Presentation; **Annual Western Canadian Kidney Research Symposium**, Vancouver, British Columbia, Canada, October 30, 2009.
14. **Marya Obeidat.** Myosin Light Chain 2 Regulation by TIMAP/PP1c. Invited Presentation; **Signal Transduction Research Group Retreat**, Edmonton, Alberta, Canada, May 8, 2009.
15. Laiji Li, Michael Shopik, **Marya Obeidat**, Kathy Kozlowski, Charles Holmes, Barbara J Ballermann. TIMAP Regulates the Subcellular Localization of Heterogeneous Ribonuclear Protein U (HnRNP-U) in Glomerular Endothelial Cells (EC). Poster Session at the **Annual Meeting of the American Society of Nephrology**, Philadelphia, PA, USA, November 2008.
16. **Marya Obeidat.** The PP1c Regulatory Subunit TIMAP Regulates Endothelial Cell Migration. Invited presentation; **Annual Western Canadian Kidney Research Symposium**, Edmonton, Alberta, Canada, October 2008.
17. **Marya Obeidat**, Laiji Li, Kathy Kozlowski, Barbara J. Ballermann. The Protein Phosphatase-1 Regulatory Subunit TIMAP controls Endothelial Cell

- (EC) Motility. Poster Session at the **Gordon Research Conference (Endothelial Cell phenotypes in Health and Disease)**, Biddeford, ME, USA, August 2008.
18. **Marya Obeidat**. TIMAP Regulates Endothelial Cell Myosin Light Chain Phosphorylation. Poster session at **Medicine Research Day**, Edmonton, Alberta, Canada, May 2008.
 19. **Marya Obeidat**. Role for TIMAP in the Regulation of Endothelial Cell Motility. Invited presentation; **Signal Transduction Research Group Retreat**, Edmonton, Alberta, Canada, May 8, 2008.
 20. Laiji Li, Kathy Kozlowski, **Marya Obeidat**, Barbara J. Ballermann. The Protein Phosphatase 1 Targeting Subunit TIMAP Regulates Filopodia Formation in Glomerular Endothelial Cells. Poster Session at the **Annual Meeting of the American Society of Nephrology**, San Francisco, CA, USA November, 2007.
 21. **Marya Obeidat**, Binytha Wegner, Steve C. Kulak, John Paes, Mark A. Berryman, Barbara J. Ballermann. The Chloride Intracellular Channel CLIC5A Regulates Glomerular Ultrastructure In Vivo. Poster Session at the **Annual Meeting of the American Society of Nephrology**, San Francisco, CA, USA, November 2007.
 22. Laiji Li, Kathy Kozlowski, **Marya Obeidat**, Barbara J. Ballermann. Phosphorylation of TIMAP by PKA and GSK-3beta Regulates TIMAP-Associated Protein Phosphatase 1 (PP1c) Activity. Oral Presentation at the **Annual Meeting of the American Society of Nephrology**, San Francisco, CA, USA, November, 2007.
 23. **Marya Obeidat**. TIMAP Regulates Endothelial Cell Motion". Invited presentation; **Signal Transduction Research Group Retreat**, Edmonton, Alberta, Canada, May 11, 2007.

ATTENDANCE:

24. Graduate Research Conference, Jordan University of Science and Technology, Irbid, Jordan, 2019
25. The 3ed International Conference on Research and Ethics in Jordan: Publications and Authorship, Jordan University of Science and Technology, Irbid, Jordan, Jul 3 2018.

26. Graduate Research Conference, Jordan University of Science and Technology, Irbid, Jordan, 2018
27. Medicine Research Day, Edmonton, Alberta, Canada, 2015
28. Signal Transduction Research Group Symposium, 2015
29. Medicine Research Day, Edmonton, Alberta, Canada, 2013
30. Medicine Research Day, Edmonton, Alberta, Canada, 2011
31. Medicine Research Day, Edmonton, Alberta, Canada, 2009
32. Medicine Research Day, Edmonton, Alberta, Canada, 2007

JOURNAL CLUB PRESENTATIONS

- | | |
|-----------|---|
| 2007-2015 | 2 presentations/year at Nephrology Research Seminar,
Department of medicine, University of Alberta, Canada |
| 2006-2013 | 2 presentations/year at Signal Transduction Research Group,
Department of Biochemistry, University of Alberta, Canada |

HONORS and AWARDS

- | | |
|------------|---|
| 2007-2015 | Canada Research Chair-funded graduate scholarship at University of Alberta, Edmonton, Alberta, Canada. |
| May17 2012 | Second best poster presentation award at Medicine Research Day, University of Alberta, Edmonton, Alberta, Canada. |
| 2003-2004 | Graduate studies scholarship for teaching assistance, Jordan University of Science and Technology, Jordan |
| 2000-2003 | High Education Scholarship for outstanding undergraduate students, University of Science and Technology, Jordan |
| 2000-2001 | Undergraduate Honor Award for achieving high cumulative average, Jordan University of Science and Technology, |

Jordan.

1999-2000
2nd semester Undergraduate Honor Award for achieving high cumulative average, Jordan University of Science and Technology, Jordan.

1999-2000
1st semester Undergraduate Honor Award for achieving high cumulative average, Jordan University of Science and Technology, Jordan.

VOLUNTEERING

Nov 2018 Organized a breast cancer awareness day at world associate LTD Irbid, Jordan

Apr 2017-2019 Youth mentor, World Associates LTD Irbid, Jordan

Mar 2017-2019 Women Fitness and wellness coach, World Associates LTD, Irbid, Jordan.

Oct 2016-2019 Discussion lead: women physical and mental health, women education and empowerment, parenting and Child Education, World Associates LTD, Irbid, Jordan.

Nov 2016- May 2017 Chair of parent council at American University Schools of Middle East, Irbid, Jordan.

Mar- Jun 2016 Cultural Day Event planning at Garneau school, Edmonton, Alberta, Canada.

2015-2016 Member of parent council at Garneau school, Edmonton, Alberta, Canada.

May 2015 Judge at Let's talk Science, Edmonton, Alberta, Canada

Jun-Dec 2006 Research Assistant Volunteer, Department of Medicine, University of Alberta, Edmonton, Alberta, Canada.

