

Abass M Al-Momany, Ph.D.

Department of Clinical Laboratory Sciences
University of Jordan
Amman- Jordan
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➤ **EDUCATION**

Sep 2008–Jan 2015 **Ph.D Degree in Cellular and Molecular Physiology (Cell Signaling)**
Department of Physiology- Faculty of Medicine -University of Alberta,
Edmonton-Canada
Thesis Title: CLIC5A-Dependant Regulation Of ERM Proteins Phosphorylation.
Supervisor: Professor. Barbara J Ballermann

1992 - 1994 **Master Degree in Physiology**
University of Sindh, Pakistan
Ranked First in Class

1988 – 1992 **Bachelor (Honours) Degree in Physiology (Major) Biochemistry (Minor)**
University of Sindh, Pakistan
Ranked First in Class

➤ **TEACHING EXPERIENCE**

Sep/2021- Present **Full-time lecturer**
Department of Clinical Laboratory Sciences - University of Jordan

Taught Courses:

- Physiology and Anatomy
- Biochemistry
- General Biology

Sep/ 2018 - Sep/2021 **Assistant Professor**
Faculty of Pharmacy- Al-Zaytoonah University of Jordan- Amman- Jordan

Taught Courses:

- Physiology 1 for pharmacy students
- Physiology 2 for pharmacy students
- Physiology for nursing students
- Physiology Lab for pharmacy students
- General Biology for pharmacy students

1996 – 2008 **Teaching Assistant**

Department Of Biological Science- University Of Jordan

During my work at the university of Jordan I was involved in teaching and supervising several Labs including:

- | | |
|---------------------------------------|--------------------------------|
| ➤ General Biology Lab (Bio111) | Biochemistry Lab (Bio411) |
| ➤ Clinical Chemistry Lab (Bio400) | Animal Physiology Lab (Bio362) |
| ➤ Microscopic Techniques Lab (Bio331) | Hematology Lab (Bio367) |

➤ RESEARCH EXPERIENCE

Sep 2016 – March 2017. Postdoctoral fellow (PDF) – Center for Prion and protein folding diseases

Department of Biochemistry- University of Alberta – Edmonton – AB – Canada
(Characterization the Prion Protein mutants involved in neurodegenerative diseases)

Supervisor Dr. David Westaway

July 2015 – June 2016. Postdoctoral fellow (PDF) – Department of Cell Biology

University of Alberta – Edmonton – AB – Canada

(Characterization role of protein myristoylation in cancer and apoptosis)

Supervisor Dr. Luc Berthiaume

Feb 2015 – June 2015. Research Assistant - Division of Nephrology- Department of

Medicine – University of Alberta – Edmonton – AB – Canada

(ERM protein activation by CLIC4 in Glomerular Endothelial Cells)

Supervisor Dr. Barbara Ballermann

Sep 2008 –Jan 2015 Ph.D Researcher – Department of Physiology

University of Alberta – Edmonton – AB – Canada

(CLIC5A-Dependant Regulation Of ERM Proteins Phosphorylation)

Supervisor Dr. Barbara Ballermann

➤ PUBLICATION

Peer Reviewed Articles

1. Almomani EY, Almomani HY, Al-Azzam S, Qablan AM, **Almomany AM**. Employing the estimated GFR formula in identify people at risk of developing chronic kidney diseases among diabetic patients, International Urology and Nephrology journal, Sep 2021, *Submitted*
2. Almomani EY, Qablan AM, **Almomany AM**, Atrooz F. The Coping Strategies Followed by University Students to Mitigate the COVID-19 Quarantine Psychological Impact. Current Psychology, 2021, May 9th . DOI: **10.1007/s12144-021-01833-1**
3. Almomani EY, **Almomany AM**. The impact of COVID-19 curfew restrictions on the university students' academic learning and mental health: A study from Jordan. Journal of Loss and Trauma. 2021, Feb 17. DOI: **10.1080/15325024.2021.1886801**
4. Almomani EY, Qablan AM, Atrooz F, **Almomany AM**, Hajjo RM, Almomani HY. The influence of Coronavirus disease 2019 (COVID-19) pandemic and the Quarantine practices on university students' Beliefs About the Online Learning Experience in Jordan. Frontiers in Public Health. 2021, Jan 13(8):595874. DOI:**10.3389/fpubh.2020.595874**

5. Mahtab Tavasoli, Laiji Li, **Abass Al-Momany**, Lin-fu Zhu, Benjamin Alexander Adam, Zhixiang Wang, and Barbara J. Ballermann, M.D. CLIC5A stimulates Rac1-dependant Pak and ERM protein activation, protecting against hypertension-induced glomerular injury. *Kidney Int.* 2016 Apr;89(4):833-47. **Impact Factor: 8.563**
6. Mahtab Tavasoli., **Abass Al-Momany.**, Xin Wang., Laiji Li., John C. Edwards and Barbara J. Ballermann. Both CLIC4 and CLIC5A activate ERM Proteins in Glomerular Endothelium (2016). *Am J Physiol Renal Physiol.* 2016 Nov 1;311(5):F945-F957
7. **Abass Al-Momany**, Li L, Alexander RT, Ballermann BJ. Clustered PI(4,5)P2 accumulation and ezrin phosphorylation in response to CLIC5A. *J Cell Sci.* 2014 Dec15;127(24):5164-78. **Impact Factor: 5.432**
8. Wegner B, **Abass al-Momany**, 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. **Impact Factor: 3.792**

➤ **Reviewed Abstracts in International Conferences**

1. **Abass Al-momany**, Laiji Li, Barbara J. Ballermann. ERM protein activation by CLIC4 in Glomerular Endothelial Cells. Presented at ASN Annual Meeting 2015 held in San Diego-USA
2. **Abass Al-momany**, Laiji Li, Barbara J. Ballermann. Mechanism of CLIC5A-Mediated Ezrin Phosphorylation. Presented at ASN Annual Meeting 2013 held in GA-USA
3. **Abass Al-Momany**, Laiji Li, and Barbara Ballermann, CLIC5A Maintains Ezrin-Dependent Podocyte Structure and Function by Enhancing Ezrin Phosphorylation and Association with Actin Cytoskeleton. Presented at World Congress of Nephrology Meeting- June-2013 held in Hong Kong-China
4. **Abass Al-Momany**, Laiji Li, and Barbara Ballermann. CLIC5A Enhances Ezrin Phosphorylation and Association with the Actin Cytoskeleton. Presented at ASN Annual Meeting 2011 held in PA-USA
5. Yimin Zhang, **Abass Al-Momany**, Laiji Li, & Barbara Ballermann. Glomerular Dysfunction in Diabetic CLIC5A Deficient Mice. Presented in ASN 2011 held in PA-USA
6. **Abass M. Al-Momany**, Steven C. Kulak, Kathy Kozlowski, Barbara J. Ballermann. CLIC5A Is Required for Ezrin-Dependent Maintenance of Podocyte Ultrastructure. Presented in ASN Annual Meeting 2009 held in San Diego-USA
7. **Abass Al-Momany**, S. C. Kulak, K. Kozlowski, L. Li, B. J. Ballermann. CLIC5A Maintains the Ezrin-Dependent Podocyte Architecture. Presented in ASCB Annual Meeting 2009 held in San Diego-USA

➤ CONFERENCES AND MEETINGS

➤ Poster Presentations In International Conferences:

1. American Society of Nephrology (ASN) Annual Meeting, Nov- 2015 held in San Diego – CA- USA.
2. American Society of Nephrology (ASN) Annual Meeting, Nov- 2013 held in GA-USA
3. World Congress of Nephrology (WCN) Meeting, June-2013 held in Hong Kong-China.
4. American Society of Nephrology (ASN) Annual Meeting, Nov- 2011 held in PA-USA.
5. American Society of Nephrology (ASN) Annual Meeting, Nov- 2009 held in San Diego – CA- USA.
6. American society of cell biology (ASCB) Annual Meeting, Dec- 2009 held in San Diego-CA- USA.
7. Western Canada Kidney Symposium, Oct- 2008 held in University of Calgary, Calgary-Alberta-Canada.

➤ Oral Presentation

1. Signal Transduction Research Group (STRG) – Annual Retreat. May 2014, University of Alberta-Edmonton-Alberta-Canada
2. Signal Transduction Research Group (STRG) – Annual Retreat. May 2013, University of Alberta-Edmonton-Alberta-Canada
3. Signal Transduction Research Group (STRG) – Annual Retreat. May 2012, University of Alberta-Edmonton-Alberta-Canada
4. Signal Transduction Research Group (STRG) – Annual Retreat. May 2011, University of Alberta-Edmonton-Alberta-Canada
5. Signal Transduction Research Group (STRG) – Annual Retreat. May 2010, University of Alberta-Edmonton-Alberta-Canada
6. Western Canada Kidney Symposium, Oct -2011 held at the University of Calgary, Calgary-Alberta-Canada
7. Western Canada Kidney Symposium, Oct -2009 held at the University of British Columbia, Vancouver- British Columbia-Canada

➤ **TECHNICAL SKILLS**

- Cell Culture including (kidney derived cell lines like Glomerular Endothelial Cells, COS7, RK13, MDCK, and podocytes. Hematopoietic cell lines like IM9, KG1 and BL2, breast cancer cell line MDA-MB-231, ovarian cancer cell line OVCAR-8,)
- Transmission and Scanning Electron Microscopic technique (Tissue Fixation, Processing and Embedding)
- Confocal Live Cell Imaging Microscopy
- Confocal Immuno-Fluorescence Microscopic technique (Tissue Fixation, OCT Embedding, Sectioning and antibodies labeling).
- Light Microscopic technique (Tissue Fixation, Processing, Paraffin Embedding, Sectioning and Staining).
- Cell lines preservation & storage.
- Cell viability assay. (MTT and Trypan Blue Assay)
- Stable cell line production.
- Plasmid transfection.
- Western Blot.
- siRNA knock down.
- Immuno-precipitation (IP).
- GST-Pulldown.
- RNA extraction and cDNA synthesis
- Droplet digital polymerase chain reaction (**ddPCR**)
- Animal Handling (Mice and Rat)
- Expert in Microsoft office (word, power point, excel)
- Expert in endnote and photoshpe applications
- Expert in imaging processing software (Volocity and Image J)

➤ **CERTIFIED LABRATORY TRAINING**

2017	WHMIS University of Alberta
2016	Chemical Safety Training University of Alberta
2008	Radiation Safety Training University of Alberta
2016	Concept in Biosafety: Basic Principle and Practice Training University of Alberta
2008	The Care and Use of Animals in Research, Teaching and Testing University of Alberta
2008	The Care and Use of the Mouse in Research University of Alberta

➤ **HONOURS/AWARDS**

- 1. May 2015- Best Published article**
Department of Medicine Research Day
University of Alberta – Edmonton – Canada
- 2. May 2014- Best Oral Presentation Award**
Signal Transduction Research Group (STRG) Annual Retreat
University of Alberta -Edmonton – Canada
- 3. March 2014- Best Poster Presentation Award**
Physiology department Research Day
University of Alberta – Edmonton – Canada
- 4. June 2013- Travel award from faculty of graduate studies and research (FGSR)**
Travel award from graduate students' association (GSA)
Travel award from Physiology department
- 5. May 2012- Best Oral Presentation Award**
Signal Transduction Research Group (STRG) Annual Retreat
University of Alberta – Edmonton – Canada
- 6. May 2010- Best Oral Presentation Award**
Signal Transduction Research Group (STRG) Annual Retreat
University of Alberta – Edmonton – Canada
- 7. 1989 – 1994 Scholarship in Physiology**
University Of Sindh-Pakistan
Ministry of Higher Education, Amman-Jordan

COURSE WORK

Completed Ph.D courses

University of Alberta- Canada

- 2010- 2011 Physiology of Transport Systems (Physiol 545)
Department of Physiology- Faculty of Medicine and Dentistry
University of Alberta
- 2009- 2010 The Birth And Death Of a Cell (CELL502)
Department of Cell biology- Faculty of Medicine and Dentistry
University of Alberta
- 2008 - 2009 Glomerular Cell Physiology (Med 571)
Department of Medicine- Faculty of Medicine and Dentistry
University of Alberta

1992 - 1994 **Completed M.Sc courses**
University of Sindh- Pakistan

Clinical Endocrinology (600)
Clinical Haematology (602)
Pathophysiology (604)
Neurophysiology (606)
Clinical Haematology (608)
Clinical Pharmacology (610)
Molecular Biology (612)
Reproduction Physiology (614)

MEMBERSHIP

1. Member of **Signal Transduction Research Group (STRG)** – Faculty of Medicine - University of Alberta
2. Member of **Nephrology Research Group** – Faculty of Medicine - University of Alberta

➤ **REFEREES**

Available Upon Request

