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PERSONAL:

Date of Birth	May, 27 th 1981
Citizenship	United States
Gender	Female
Marital Status	Married
Children	Faris Abbas (August, 16 th 2005) Ayah Abbas (January, 20 th 2007) Jenna Abbas (January, 31 st 2015)

EDUCATION:

8/2009 – Present	Case Western Reserve University/ Cleveland OH PhD. Student in System Integrated Physiology Department of Physiology and Biophysics
8/2007 – 8/2009	The University of Akron/ Akron OH Master of Science
8/1999 – 2/2003	The Hashemite University/ Zarqa Jordan Bachelor of Science

PROFESSIONAL EXPERIENCE:

08/2014 – Present	Department of Physiology and Biophysics Student Representative in the Graduate Education Committee.
08/2013 – Present	Department of Physiology and Biophysics Women in Science and Engineering Coordinator.
08/2011 – Present	Department of Physiology and Biophysics Graduate Student Senator.
06/2003 – 08/2004	Physical Therapist and Sport Rehabilitation Specialist, Jordanian Handball Federation.
03/2003 – 06/2003	Physical Therapist, Abdoun Physical Therapy Center/Amman, Jordan.

TEACHING EXPERIENCE:

- Case Western Reserve University/Translational Physiology for students enrolled in Master in Medical Physiology— Spring 2015.
- Case Western Reserve University/Translational Physiology for students enrolled in Master in Medical Physiology— Spring 2014.
- Case Western Reserve University/Translational Physiology for students enrolled in Master in Medical Physiology— Spring 2013.

FORMAL TRAINING:

05 – 07/2009	Akron City Hospital (SummaCare) Center for Cardiovascular Research.
05 – 08/2008	Akron City Hospital (SummaCare) Cardiopulmonary Rehabilitation Department.
06 – 09/2002	The Jordanian Sport Medicine Clinic/Amman, Jordan
06 – 09/2001	Al-Hussein Society for the Habilitation and Rehabilitation of the Physically Challenged Youth/Amman, Jordan

RESEARCH TECHNIQUES:

- **Surgery:** Brain dissection, brain perfusion, kidney perfusion, liver perfusion.
- **Cell culture:** Primary neurons and astrocytes, skeletal muscles, cancer cells, skin cells.
- **Biochemistry:** Western blotting, ELISA, antibody development, protein purification.
- **Molecular Biology:** PCR, DNA extraction, neuronal transfection.
- **Histology:** Brain, heart and kidney cryosection.
- **Imaging:** Real time imaging using fluorescence microscopy, immunocytochemistry and immunohistochemistry, confocal microscopy.
- **Software:** Microsoft office, Origin and basic knowledge of MatLab.

AWARDS:

2015	American Physiological Society Robert Gunn Student Awards (finalist)
2012	CWRU Graduate Student Senate's Achievement Award

RESEARCH SUPPORT:

- T32 HL 007913 -- Strohl (PI) -- 04/01/2012 – 03/31/2013. CWRU Sleep Medicine Neurobiology and Epidemiology, Training for promising predoctoral fellows who are committed to understand breathing regulation and disorders in relation to sleep neurobiology

- T32 HL 007913 -- Strohl (PI) -- 04/01/2013 – 03/31/2014. CWRU Sleep Medicine Neurobiology and Epidemiology, Training for promising predoctoral fellows who are committed to understand breathing regulation and disorders in relation to sleep neurobiology.
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PUBLICATIONS:

JOURNALS PAPERS:

- 9/2014 Ahlam I. Salameh; Vernon A. Ruffin; and Walter F. Boron, **Effects of metabolic acidosis on intracellular pH responses in multiple cell types**, 2014 American Journal of Physiology
- 1/2014 Vernon A. Ruffin, Ahlam I. Salameh, Walter F. Boron and Mark D. Parker, **Intracellular pH regulation by acid/base transporters in mammalian neurons**, 2014 Frontiers in Physiology/Membrane Physiology and Membrane Biophysics.

PAPERS IN PREPERATION:

- 2015 Ahlam I. Salameh; and Walter F. Boron, **The Cl/HCO₃ exchanger 3 role in CA1 hippocampal neurons and astrocytes response to low-HCO₃ metabolic acidosis**, 2015 Journal of Physiology
- 2015 Jonah J. Scott-McKean, Krystyna Surewicz, Jin-Kyu Choi, Vernon A. Ruffin, Ahlam I. Salameh, Krzysztof Nieznanski, Alberto C.S. Costa, Witold K. Surewicz, **Soluble Prion Protein and Its N-terminal Fragment Suppress Synaptotoxic and Cytotoxic Effects of A β Oligomers: Implications for Novel Therapeutic Strategy in Alzheimer's Disease**, 2015 Journal of Biomedical Chemistry
- 2015 Patrice Bouyer, Ahlam I. Salameh, Michelle L. Kelly, Yuehan Zhou and Walter F. Boron, **Effects of metabolic acidosis and isolated decreases in extracellular [HCO₃⁻] and pH on intracellular pH in rat cultured hippocampal neurons**, 2015 Journal of Physiology.

PUBLISHED ABSTRACTS:

- 04/2015 Ahlam Salameh and Walter F. Boron, **Novel pH-dependent Astrocyte-Neuron Crosstalk in Hippocampal CA1 Region, Not Observed After the Knockout of the Anion Exchanger 3 (AE3)**, 2015 FASEB Journal.
- 11/2014 Ahlam Salameh and Walter F. Boron, **The anion exchanger 3 is essential for the robust acidification response in CA1 hippocampal neurons during metabolic acidosis**, 2014 Neuroscience Meeting

- 11/2013 Ahlam Salameh; Vernon Ruffin; and Walter F. Boron, **The anion exchanger isoform 3 plays an important role in the CA1 neurons response to metabolic acidosis**, 2013 Neuroscience Meeting
- 10/2012 Ahlam Salameh; Vernon Ruffin; and Walter F. Boron, **Effects of Metabolic Acidosis on Different Cell Types Inside and Outside the Central Nervous System**, 2012 Neuroscience Meeting Planner, New Orleans, LA: Society for Neuroscience 2012. Online
- 7/2010 A. Salameh, J. Rosneck, D. Waechter, R. Otterstetter. **Achieving Optimal Stress Test Time in Patient Testing: The Accelerated Ramped Protocol**, Journal of Cardiopulmonary Rehabilitation and Prevention – (abstract) Vol 30 (4) p. 275

PRESENTATIONS:

POSTERS PRESENTATIONS:

- 04/2015 Ahlam Salameh and Walter F. Boron, **Novel pH-dependent Astrocyte-Neuron Crosstalk in Hippocampal CA1 Region, Not Observed After the Knockout of the Anion Exchanger 3 (AE3)**, 2015 FASEB Journal.
- 11/2014 Ahlam Salameh and Walter F. Boron, **The anion exchanger 3 is essential for the robust acidification response in CA1 hippocampal neurons during metabolic acidosis**, 2014 Neuroscience Meeting
- 11/2013 Ahlam Salameh; Vernon Ruffin; and Walter F. Boron, **The anion exchanger isoform 3 plays an important role in the CA1 neurons response to metabolic acidosis**, 2013 Neuroscience Meeting
- 10/2013 Ahlam Salameh and Walter F. Boron, **Anion exchanger 3 role in setting intracellular pH steady-state in hippocampal CA1 neurons**, 2013 Ohio Physiological Society Meeting.
- 10/2012 Ahlam Salameh; Vernon Ruffin; and Walter F. Boron, **Effects of Metabolic Acidosis on Different Cell Types Inside and Outside the Central Nervous System**, 2012 Neuroscience Meeting Planner, New Orleans, LA: Society for Neuroscience 2012. Online
- 11/2011 Ahlam Salameh; Vernon Ruffin; and Walter F. Boron, **Molecular Adaptation in the Response of Medullary Raphé Neurons to Metabolic Acidosis**, Department of Physiology and Biophysics 2011 Retreat, Cleveland OH.
- 10/2010 Ahlam Salameh; James S. Rosneck; Donna Waechter; and Ronald Otterstetter, **Achieving Optimal Stress Test Times in Patient Testing: The Accelerated Ramped Protocol**, Scientific Poster Presentation at the 25th Annual Meeting of the American Association of Cardiovascular and Pulmonary Rehabilitation (AACVPR).

10/2010 Ahlam Salameh; Karen Kelly; and John Kirwan, **Establishing In Vitro Muscle Contraction Model**, Department of Physiology and Biophysics 2010 Retreat, Cleveland OH.

08/2009 Ahlam Salameh, **Graded Exercise Stress Testing: Treadmill Protocols Comparison of Peak Exercise Times in Cardiac Patient**, Master Thesis, www.Ohiolink.com 2009.

ORAL PRESENTATIONS:

05/2015 Ahlam Salameh, **The anion exchanger 3 role in hippocampal neurons response to metabolic acidosis**, Department of Pulmonary Medicine 2015 retreat.

11/2014 Ahlam Salameh, **The anion exchanger 3 role in CA1 hippocampal neurons and astrocytes response to low-HCO₃ metabolic acidosis**, Department of Physiology and Biophysics 2014 retreat.

AFFILIATIONS:

2014 – Present American Physiological Society
2003 – Present Jordanian Sport Medicine Federation
2010 – 2011 American Heart Association/ Stroke Council Membership