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EDUCATION AND EXPERIENCE

- 2005-2010 **Postdoctoral Fellow, Molecular Biology**
Department of Cellular and Molecular Medicine
Faculty of Medicine, University of Ottawa Heart Institute, Ottawa, Canada
- 2001-2005 **PhD Cell Biology**
Department of Anatomy and Cell Biology
Faculty of Medicine, University of Sherbrooke, Sherbrooke, Canada
- 2000-2001 **MSc Biology (Physiology)**
Department of Biology
Faculty of Sciences, Lebanese University, Fanar, Lebanon
- 1997-2000 **BSc Biology (Physiology)**
Department of Biology
Faculty of Sciences, Lebanese University, Fanar, Lebanon

EMPLOYMENT HISTORY

- 2011-date **Adjunct Scientist**
Department of Genetics
King Faisal Specialist Hospital and Research Center, Riyadh, KSA
- 2010-date **Assistant Professor of Physiology**
Department of Physiology, College of Medicine,
Al Faisal University, Riyadh, Kingdom of Saudi Arabia

AWARDS

- 2009-2010 **Postdoctoral fellowship**
University of Ottawa, Canada
- 2007-2009 **Research Fellowship**
Heart and Stroke Foundation of Canada, Canada
- 2005-2007 **Research Fellowship**
Heart and Stroke Foundation of Ontario Group Grant, Canada
- 2001- 2005 **PhD fellowship**
University of Sherbrooke, Canada
- 2001- 2005 **Exemption from higher tuition fees for international students**
Quebec Ministry of Education and Lebanese General Consulate, Canada
- Winter 2004 **Deans' Honor Prize for High Achieving Students**
University of Sherbrooke, Canada

INTELLECTUAL ACTIVITIES/PROFESSIONAL ORGANIZATIONS

- Reviewer for national funding agencies: KACST
- Member of the American Physiological Society (APS)
- Reviewer for international journals:
 - a- Cardiovascular Research
 - b- Journal of Molecular and Cellular Cardiology
 - c- BioMed Research International (until 12/2012 Journal of Biomedicine and Biotechnology)
 - d- 3 Biotech

TEACHING EXPERIENCE AND MENTORSHIP PROFILE*A- Formal Teaching Experience:*

College of Medicine, Al Faisal University:

- Physiology courses (PHY132 and PHY232)
- Molecular Medicine course (MOL113)
- Cells and Biomolecules course (Masters in Biomedical Sciences)
- Tutoring Problem Based Learning (PBL)

College of Medicine, University of Ottawa:

- Training for tutoring Medical students in Case Based Learning (CBL).
- Tutoring Case Based Learning (CBL)

B- Students Mentorship

- Graduate Students:

Dalia Fakh, Lebanese University, Lebanon: MSc Thesis (September-2011): Role of the scaffold protein striatin in regulating the MAP Kinase (ERK1/2) pathway.

Karen Bassoul, Lebanese University, Lebanon: MSc Thesis (September-2012): The dynamics of Striatin during apoptosis: a step towards a novel biomarker.

Rana Al-Bizri, Lebanese University, Lebanon: MSc Candidate (Expected date of Thesis defense: September-2013).

- Undergraduate students:

Ahmed Abou Zeid, 4th year Medical Student, Alfaisal University

Naser Ahmed, 4th year Medical Student, Alfaisal University

Aman Inaya, 4th year Medical Student, Alfaisal University

Azhar Farouqi, 3rd year Medical Student, Alfaisal University

Judie Hoilat, 1st year Medical Student, Alfaisal University

Amanie Aljouhi, 1st year Medical Student, Alfaisal University

FUNDING

- **Previous funding:**
 - o Heart and Stroke Foundation of Canada Research Fellowship, Canada
 - o Heart and Stroke Foundation of Ontario group grant, Canada
- **Current funding:**
 - o King AbdulAziz City for Sciences and Technology (KACST- 1,984,000SAR), KSA.
 - o Alfaisal University Start-up Fund (770,378 SAR), KSA.
 - o King Faisal Specialist Hospital and Research Center Operating Grant (RAC#2100 026).
 - o Alfaisal University Internal research grant (50,000 SAR), KSA.

PUBLICATIONS

A- In progress

1. **Nader M**, Salih M, Leenen FHH, and Tuana BS. SLMAP impacts components of the MAP Kinase cascade and PP2A phosphatase to modulate cell cycle dynamics. *In revision for re-submission*.

B-Refereed Papers

1. Westendorp B, Major JL, **Nader M**, Salih M, Leenen FHH and Tuana BS. The E2F6 repressor activates gene expression in myocardium resulting in dilated cardiomyopathy. *The FASEB Journal* (6):2569-79, 2012.
2. **Nader M**, Westendorp B, Hawari O, Salih M, Stewart AFR, Leenen FHH and Tuana BS. Tail-anchored membrane protein SLMAP is a novel regulator of cardiac function at the sarcoplasmic reticulum. *American Journal of Physiology - Heart and Circulatory Physiology* 302: H1138-H1145, 2012.
3. Bkaily G, Avedanian L, Al-Khoury J, Provost C, **Nader M**, D'Orleans-Juste P and Jacques D. Nuclear membrane receptors for ET-1 in cardiovascular function. *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology* 300: R251-R263, 2011.
4. Avedanian L, Riopel J, Bkaily G, **Nader M**, D'Orleans-Juste P and Jacques D. ETA receptors are present in human aortic vascular endothelial cells and modulate intracellular calcium. *Can J Physiol Pharmacol* 88: 817-829, 2010.
5. Bkaily G, Choufani S, Avedanian L, Ahmarani L, **Nader M**, Jacques D, D'Orleans-Juste P and Al Khoury J. Nonpeptidic antagonists of ETA and ETB receptors reverse the ET-1-induced sustained increase of cytosolic and nuclear calcium in human aortic vascular smooth muscle cells. *Can J Physiol Pharmacol* 86: 546-556, 2008.
6. Pons J, Kitlinska J, Jacques D, Perreault C, **Nader M**, Everhart L, Zhang Y and Zukowska Z. Interactions of multiple signaling pathways in neuropeptide Y-mediated bimodal vascular smooth muscle cell growth. *Can J Physiol Pharmacol* 86: 438-448, 2008.
7. Cauchon N, **Nader M**, Bkaily G, van Lier JE and Hunting D. Photodynamic Activity of Substituted Zinc Trisulfophthalocyanines: Role of Plasma Membrane Damage. *Photochemistry and Photobiology* 82: 1712-1720, 2006.
8. Bkaily G, **Nader M**, Avedanian L, Choufani S, Jacques D, D'Orleans-Juste P, Gobeil F, Chemtob S and Al-Khoury J. G-protein-coupled receptors, channels, and Na⁺/H⁺ exchanger in nuclear membranes of heart, hepatic, vascular endothelial, and smooth muscle. *Can J Physiol Pharmacol* 84: 431-441, 2006.
9. Hackett JA, Allard-Chamard H, Sarrazin P, de Fatima Lucena M, Gallant MA, Fortier I, **Nader M**, Parent JL, Bkaily G and de Brum-Fernandes AJ. Prostaglandin production by human osteoclasts in culture. *The Journal of Rheumatology* 33: 1320-1328, 2006.
10. Gobeil F, Zhu T, Brault S, Geha A, Vazquez-Tello A, Fortier A, Barbaz D, Checchin D, Hou X, **Nader M**, Bkaily G, Gratton JP, Heveker N, Ribeiro-da-Silva A, Peri K, Bard H, Chorvatova A, D'Orleans-Juste P, Goetzl EJ and Chemtob S. Nitric Oxide Signaling via Nuclearized Endothelial Nitric-oxide Synthase Modulates Expression of the Immediate Early Genes iNOS and mPGES-1. *Journal of Biological Chemistry* 281: 16058-16067, 2006.
11. Bkaily G, Scultoreanu A, Wang S, **Nader M**, Hazzouri KM, Jacques D, Regoli D, D'Orleans-Juste P and Avedanian L. Angiotensin II-induced increase of T-type Ca²⁺ current and decrease of L-type Ca²⁺ current in heart cells. *Peptides* 26: 1410-1417, 2005.
12. Bkaily G, El-Bizri N, **Nader M**, Hazzouri KM, Riopel J, Jacques D, Regoli D, D'Orleans-Juste P, Gobeil J and Avedanian L. Angiotensin II induced increase in frequency of cytosolic and nuclear calcium waves of heart cells via activation of AT₁ and AT₂ receptors. *Peptides* 26: 1418-1426, 2005.
13. Chahine M, Bkaily G, **Nader M**, Al-Khoury J, Jacques D, Beier N and Scholz W. NHE-1-dependent intracellular sodium overload in hypertrophic hereditary cardiomyopathy: prevention by NHE-1 inhibitor. *Journal of Molecular and Cellular Cardiology* 38: 571-582, 2005.

14. Bkaily G, **Nader M**, Avedanian L, Jacques D, Perrault C, Abdel-Samad D, D'Orleans-Juste P, Gobeil F and Hazzouri KM. Immunofluorescence revealed the presence of NHE-1 in the nuclear membranes of rat cardiomyocytes and isolated nuclei of human, rabbit, and rat aortic and liver tissues. *Can J Physiol Pharmacol* 82: 805-811, 2004.
15. Hanna J, Chahine R, Aftimos G, **Nader M**, Mounayar A, Esseily F and Chamat S. Protective effect of taurine against free radicals damage in the rat myocardium. *Experimental and Toxicologic Pathology* 56: 189-194, 2004.
16. Bkaily G, Choufani S, Sader S, Jacques D, D'Orleans-Juste P, **Nader M**, Kurban G and Kamal M. Activation of sarcolemma and nuclear membranes ET-1 receptors regulates transcellular calcium levels in heart and vascular smooth muscle cells. *Can J Physiol Pharmacol* 81: 654-662, 2003.
17. Jacques D, Gobeil F, Bkaily G, **Nader M**, D'Orleans-Juste P, Choufani S and Chemtob S. Nuclear membranes channels, exchangers and G-protein coupled receptors: a new target for drug action. *Current Topics in Pharmacology* 7: 269-278, 2003.
18. Gobeil F, Bernier SG, Vazquez-Tello A, Brault S, Beauchamp MH, Quiniou C, Marrache AM, Checchin D, Sennlaub F, Hou X, **Nader M**, Bkaily G, Ribeiro-da-Silva A, Goetzl EJ and Chemtob S. Modulation of Pro-inflammatory Gene Expression by Nuclear Lysophosphatidic Acid Receptor Type-1. *Journal of Biological Chemistry* 278: 38875-38883, 2003.

C-Peer review book chapters

1. **Nader M**, Sleiman S, Stephan J, Jacques D, Asselin C, and Bkaily G. AngiotensinII induced sustained increase of cytosolic and nuclear calcium in aortic vascular smooth muscle cells. *Proceedings of the 3rd FEPS Congress Federation of European Physiological Societies*. P. Poujeol and O. Peterson Edtrs. Manduzzi Editors-Medimond Inc, Italy. 61-67, 2003.

COMMUNICATIONS/ABSTRACTS

1. **Nader M**, Khalil B, Abu-Zaid A, Inaya A, Bakheet D, and Dzimir N. Role of the scaffold protein striatin in regulating the excitation-contraction coupling in cardiomyocytes. *FASEB J*. 27:1197.9. 2013.
2. Abu-Zaid A, Inaya A, Farooqui A, Ahmed N, Bakheet D, Dzimir N, and **Nader M**. Striatin is a novel regulator of calcium homeostasis in cardiomyocytes. *FASEB J*. 26:lb620, 2012.
3. Fakh D, Chahine R, and **Nader M**. Role of the scaffold protein striatin in regulating the MAP kinase (ERK/12) pathway. *The first international Cellular and Molecular Immunology Meeting (CMIM)*, Hadath, Lebanon, 2011.
4. **Nader M**, Hawari O, Salih M, Stewart A, Leenen, FHH, and Tuana BS. The tail-anchored membrane protein SLMAP is a novel regulator of E-C coupling and cardiac function. Canadian Cardiovascular Congress, Montreal, Canada, 2010.
5. **Nader M**, Salih M, Leenen FHH, and Tuana BS. The tail anchored membrane protein SLMAP regulates cell growth by targeting the MAP Kinase pathway and PP2A. American Society for Cell Biology, San Diego, CA, USA, 2009.
6. **Nader M**, Westendorp B, Salih M, Leenen FHH and Tuana BS. The expression of the sarcolemmal membrane associated protein (SLMAP) is regulated during cardiac remodeling and impacts the MAP Kinase pathway. JMCC, Heart Failure Meeting, Nice, France, 2009.
7. **Nader M**, Westendorp B, Salih M, Leenen FHH and Tuana BS. SLMAP overexpression in mouse heart remodels subcellular membranes involved in E-C coupling. *FASEB J*. 22:386.6, Experimental Biology Meeting, San Diego, CA, USA, 2008.
8. Westendorp B, **Nader M**, Salih M, Leenen FHH and Tuana BS. Cardiac restricted overexpression of E2F6 alters cell cycle dynamics and results in dilated cardiomyopathy in mice. *FASEB J*. 22:386.8, Experimental Biology Meeting, San Diego, CA, USA, 2008.

9. **Nader M**, Westendorp B, Leenen FHH and Tuana BS. Expression of the tail-anchored protein SLMAP in developing myocardium and during remodelling after myocardial infarction. *FASEB J.* 21:969.20, Experimental Biology Meeting, Washington, DC, USA, 2007.
10. Westendorp B, **Nader M**, Leenen FHH, and Tuana BS. Expression of the cell cycle regulator E2F6 during cardiac development and left ventricular remodeling after myocardial infarction. *FASEB J.* 21:518.3, *Experimental Biology Meeting*, Washington, DC, USA, 2007.
11. **Nader M**, Westendorp B, Guzzo RM, Ahmad M, Leenen FHH and Tuana BS. Expression of the tail-anchored protein SLMAP in developing myocardium and during remodeling after myocardial infarction. *Canadian Cardiovascular Congress*, Vancouver, Canada, 2006.
12. Avedanian L, **Nader M**, Al-Khoury J, Jacques D and Bkaily G. Présence de l'échangeur Na⁺-H⁺ de type 1 (NHE-1) au niveau des membranes de l'enveloppe nucléaire des cellules du muscle lisse vasculaire et hépatiques humaines. 48^{ième} réunion annuelle du Club de Recherches Cliniques du Québec, Lac-à-l'Eau Claire, Canada, 2006.
13. **Nader M**, Avedanian L, Al-Khoury J, Jacques D, D'Orléans-Juste P, Beier N, Scholz W, and Bkaily G. Presence, density and distribution of NHE-1 in nuclear membranes of isolated nuclei from different cell types and animal species. 47^{ième} réunion annuelle du Club de Recherches Cliniques du Québec, Bromont, Canada, 2005.
14. **Nader M**, El-Bizri N, Hazzouri K, Avedanian L, Jacques D, Regoli D, and Bkaily G. Angiotensin II induced increase of frequency of cytosolic and nuclear calcium waves of heart cells via activation of AT₁ and AT₂ receptors. *Peptides Receptors*, Montréal, Québec, Canada, 2004.
15. **Nader M**, Choufani S, Avedanian L, D'Orléans-Juste P, and Bkaily G. ET-1 Receptors undergo internalization, nuclear translocation and de novo synthesis in human vascular smooth muscle cells. 12th International Conference on Second Messengers and Phosphoproteins, Montreal, Canada, 2004.
16. **Nader M**, Sleiman S, Stephan J, Asselin C, and Bkaily G. Internalisation et translocation des récepteurs AT₁ de l'AngII dans les cellules aortiques humaines : régulation du Ca²⁺ cytosolique et nucléaire. 45^{ième} réunion annuelle du Club de Recherches Cliniques du Québec, Orford, Canada, 2003.
17. Kamal M, **Nader M**, D'Orléans-Juste P, and Bkaily G. Régulation du Ca²⁺ cytosolique et nucléaire par l'AngII dans les cellules endothéliales aortiques humaines. 45^{ième} réunion annuelle du Club de Recherches Cliniques du Québec, Orford, Canada, 2003.
18. **Nader M**, and Bkaily G. Modulation of intracellular calcium by sarcolemma and nuclear membranes AT₁ receptors. 3rd Federation of European Physiological Societies, Nice, France, 2003.
19. Choufani S, **Nader M**, Kurban G, Kamal M, Stephan J, D'Orléans Juste P, and Bkaily G. Co-localization and trafficking of endothelin receptors in human aortic vascular smooth muscle cells. 7th mini-symposium, *Endothelium and its vascular-related diseases*, Montreal, Canada, 2002.
20. **Nader M**, Hanna J, Chahine R, and Rochette L. Effet protecteur de la taurine contre les arythmies de la reperfusion du cœur isolé du rat. *The national council for scientific research: the Lebanese Association for the Advancement of Science, (14th Science Meeting)*. American University of Beirut, Beirut, Lebanon, 2000.

SELECTED ORAL PRESENTATIONS

1. **Nader M**, Striatin: A Novel Regulator of Cardiomyocytes Contraction. *The Saudi International Conference for Medical Technology*, Riyadh, KSA, 2013.
2. **Nader M**, Striatin is a novel regulator of calcium homeostasis and cardiomyocytes contraction. *Cellular and Molecular Biology (CMB) Meeting*, Hadath, Lebanon, 2012.
3. **Nader M**, Decoding the network of the scaffold protein striatin and its role in cardiac function and disease. 1st International Cellular and Molecular Immunology Meeting (CMIM), Hadath, Lebanon, 2011.
4. **Nader M**, Westendorp B, Salih M, Leenen FHH and Tuana BS. SLMAP overexpression in mouse heart remodels subcellular membranes involved in E-C coupling. *The FASEB Journal*, 22:386.6 Experimental Biology Meeting, San Diego, CA, USA, 2008.

5. **Nader M.** Believe it or not; G protein coupled receptors are present and functional in the nuclear membranes of different cell types and tissues. *University of Ottawa Heart Institute*, Ottawa, ON, Canada, 2005.
6. **Nader M.**, Hanna J, Chahine R, and Rochette L. Protective effects of taurine against the reperfusion arrhythmias in isolated rat hearts. *The National Council for Scientific Research: the Lebanese Association for the Advancement of Science, (14th Science Meeting)*. American University of Beirut, Beirut, Lebanon, 2000.