ADEL B. ELMOSELHI, MD, PhD

Chair of the Basic Medical Sciences Department & Associate Professor
College of Medicine, University of Sharjah
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EDUCATION

1994-99	Ph.D. degree, Medical Sciences Program (Physiology/Pharmacology) McMaster University, Hamilton, Ontario, Canada Doctoral Dissertation "*Endothelin Response and Reactive Oxygen in Coronary Artery Smooth Muscle*"
1980-86	M.B,CH.B (MD), Faculty of Medicine, Alexandria University, Egypt

POSTGRADUATE TRAINING

2017	Global Health Delivery Intensive program, Harvard T.H. Chan School of Public Health, Boston, MA, USA
2008	Medical Education Research Certificate (MERC), American Association of Medical Colleges (AAMC), Emory University, Atlanta, GA, USA
2001-03	Postdoctoral Fellow, Cardiovascular Research Centre, University of Toronto, Ontario, Canada.
1999- 01	Postdoctoral Fellow, St. Boniface Research Centre, University of Manitoba, Winnipeg, Manitoba, Canada

PROFESSIONAL EXPERIENCE

2018- Present	Chair of Basic Medical Sciences Department, College of Medicine, University of Sharjah, Sharjah, UAE
2013- Present	- Associate Professor, Basic Medical Science Department, College of Medicine, University of Sharjah, Sharjah, UAE - Adjunct Associate Professor, Physiology Department College of Human Medicine, Michigan State University, MI, USA
2010- 13	Associate Professor and Course Director, Physiology Department, College of Human Medicine, Michigan State University, Grand Rapids, MI, USA
2005- 10	Assistant Professor and Course Director Physiology Department, Morehouse School of Medicine, Atlanta GA, USA
2003- 04	Assistant Professor Physiology Department, Ross University School of Medicine, Dominica, WI
1995-98	Teaching Assistant, Human Physiology for Nursing Program, McMaster University, Hamilton, Ontario, Canada.
1997-99	Teaching Assistant, Human Anatomy for Physiotherapy and Occupational therapy programs, McMaster University, Canada.
1992-93	Research Fellow, Department of Biomedical Sciences, McMaster University, Hamilton, Ontario, Canada.
1988-91	Residency: General Internal Medicine, Alexandria University Hospital, Egypt.
1987-88	Medical Officer, Military General Hospital, Alexandria, Egypt.
1986-87	Internship: Alexandria University Hospital, Alexandria, Egypt.

PUBLICATIONS

I- Full Length Papers Published in Referred Journals and Books:

1.Wafaa S Ramadan; Dana M Zaher; Alaa M Altaie; Iman Mamdouh Talaat, **Adel Elmoselhi** (2020); Potential Therapeutic Strategies for Lung and Breast Cancers Through Understanding the Anti-angiogenesis Resistance Mechanisms. International Journal of Molecular Sciences *(IF = 4.2)*, Int. J. Mol. Sci. 2020, 21, 565.

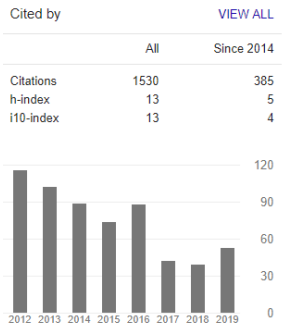
2. Rizwan Qaisar, Asima Karim, **Adel B Elmoselhi** (2019): Muscle unloading: a comparison between spaceflight and ground-based models. Acta Physiologica *(IF = 5.97)*, 2019 Dec 15:e13431. doi: 10.1111/apha.13431. [Epub ahead of print].

3. Firdos Ahmad, Dhanendra Tomar, Smriti Aryal AC, **Adel B. Elmoselhi**, Manfred Thomas, John W Elrod, Douglas G. Tilley, Thomas Force (2019): Nicotinamide riboside kinase-2 alleviates ischemia-induced dilatative cardiac remodeling and heart failure through P38 signaling. BBA - Molecular Basis of Disease *(IF=5.1)*, 2019 Nov 16:165609. doi: 10.1016/j.bbadis.2019.165609. [Epub ahead of print].
4. Abedalqader F, Alhuarrat M, Altamimi A, Ibrahim G. Shukur M, Taha F, **Elmoselhi AB** (2019): The Correlation between Smart Device Usage & Sleep Quality among UAE Residents. Sleep Medicine *(IF= 3.9)*, volume 63, Pages 18-23.
5. M. Bakri Alaa, Yazan Ghazi Al Shaikh, Anas Mohammad Hashem, Obaida M. Mukhles Adi, Ihab Aal-yaseen , Ziad Mahmoud El Menawy, **Adel B. Elmoselhi** (2018): Knowledge, attitudes and practices towards caffeine consumption among adults in the United Arab Emirates, Journal of Caffeine and Adenosine Research, volume 8, issue 2, 2018
6. Adel Elmoselhi, Editor and Author (2017). Cardiology: An Integrated Approach. ***McGraw-Hill Education / Medical*** https://accessmedicine.mhmedical.com/book.aspx?bookID=2224
7. Adel Elmoselhi (2012) "Clinically-oriented laboratory illuminates challenging respiratory concepts to the pre-clinical medical students", Medical Teacher *(IF= 2.7)* 34 (3):258; 2012
8. Fengsong Wang, Peng Xia, Fang Wu, Dongmei Wang, Wei Wang, Tarsha Ward, Felix Aikhionbare, Zhen Guo, Feng Bi, Michael Powell, Bingya Liu, Andrew Shaw, **Adel Elmoselhi**, Timothy L. Cover, Xia Ding, and Xuebiao Yao (2008) Helicobacter pylori VacA disrupts apical membrane-cytoskeletal interactions in gastric parietal cells, J Biol Chem. *(IF= 4.1)*, Vol 283, NO. 39, pp.26714-25, September, 2008.
9. Petr Ostadal ; **Adel B. Elmoselhi** ; Irena Zdobnicka ; Anton Lukas ; Vijayan Elimban ; Naranjan S. Dhalla (2004) "Role of Oxidative Stress in Ischemia-Reperfusion-Induced Changes in Na^+,K^+-ATPase Isoform Expression in Rat Heart" Antioxid Redox Signal *(IF= 5.8)*. 2004 Oct; 6(5):914-923
10. A. B. Elmoselhi, A. Lukas, P. Ostadal and N.S. Dhalla (2003) "Preconditioning attenuates ischemia-reperfusion induced Na^+-K^+ ATPase remodeling in heart" Am J Physiol Heart Circ Physiol. *(IF= 3.6)* May 2003, 285(3):H1055-63
11. Ostadal P, **Elmoselhi AB**, Zdobnicka I, Lukas A, Chapman D, Dhalla (2003) " Ischemia-reperfusion alters gene expression of Na^+-K^+ ATPase isoforms in rat heart" Biochem Biophys Res Commun; June 2003, 306(2):457-62
12. S. Takeo, **A.B. Elmoselhi,** R. Goel, E. Sentex, J. Wang, and N.S. Dhalla (2000) "Attenuation of changes in SR gene expression in cardiac hypertrophy by propanolol & verapamil" Molecular and Cellular Biochemistry *(IF = 2.9)*, 213(1-2):111-8.
13. N.S. Dhalla, **A.B. Elmoselhi**, T. Hata, and N. Mikino (2000) "Status of myocardial antioxidants in ischemia-reperfusion injury" Cardiovascular Research *(IF = 7)* 47 (3): 446-56.
14. A.B. Elmoselhi and A.K. Grover (1999) "Peroxide sensitivity of endothelin responses in coronary artery smooth muscle: ET_A vs. ET_B pathways" Molecular and Cellular Biochemistry *(IF = 2.9)* 202(1-2):47-52.
15. A.B. Elmoselhi and A.K. Grover (1999) "ET_B-mediated contraction differs between the left descending coronary artery and its next branch" Molecular and Cellular Biochemistry *(IF = 2.9)* 210: 99-103.
16. A.K. Grover, S.E. Samson, C.M. Misquitta, **A.B. Elmoselhi** (1999) "Effects of peroxide on contractility of proximal and distal coronary arteries" Molecular and Cellular Biochemistry *(IF = 2.9)* 194 (1-2): 159-64.
17. A.B. Elmoselhi and A.K. Grover (1997) "Endothelin contraction in pig coronary artery: receptor types and Ca^{2+}mobilization" Molecular and Cellular Biochemistry *(IF = 2.9)*, 176:29-33.
18. A.B. Elmoselhi, S.E.Samson, and A.K. Grover (1996) "SR Ca^{2+} pump heterogeneity in coronary artery: Free radicals and IP_3-sensitive and -insensitive pools." American Journal of Physiology *(IF = 4)*, 271: C1652- C1659.
19. A.B. Elmoselhi, M. Blennerhassett, S.E. Samson and A.K. Grover (1995) "Properties of the sarcoplasmic reticulum Ca^{2+}pump in coronary artery skinned smooth muscle." Molecular and Cellular Biochemistry *(IF = 2.9)*, 151: 149-155.
20. A.B. Elmoselhi, A. Butcher, S.E. Samson and A.K. Grover (1994) "Free radicals uncouple the sodium pump in pig coronary artery." American Journal of Physiology *(IF = 4)*, 266:C720-C728.
21. A.B. Elmoselhi, A. Butcher, S.E. Samson and A.K. Grover (1994) "Coronary artery contractility, sodium pump and oxygen radicals." General Physiology and Biophysics, 13: 247-256

II - Abstracts Published in Referred Journals:
1. Adel Elmoselhi, Mohamed Eladl, Mohamed Seif, (2017), "Early Echocardiography experience assists in improving and retaining knowledge of Cardiac Anatomy and Physiology for medical students" , The FASEB Journal vol. 31 no. 1 Supplement 576.16
2. M.A. Eladl, **A.B Elmoselhi** and M.S. Shehata, Using Echocardiography as a Promising Adjunctive Teaching Tool for Cardiac Anatomy and Physiology, EB 2015, Boston, USA
3. Adel Elmoselhi, Harvey Sparks, Phil Van Lente, Gregory Fink, Kerry Polizzi and Dianne Wagner (2013) "Enhanced medical student understanding of basic ECG concepts using hands-on laboratory experience". JIAMSE, Volume 23, Issue 4 Supplement.
4. Adel Elmoselhi, Brenda Klement, Bonita Savage (2010) "Active learning hands-on approach in teaching ECG basic

concepts to pre-clinical medical students" JIAMSE, Volume 20, Number 2S 220
5. Adel B Elmoselhi, Daina Ngugi, Bonita Savage, Gordon J Leitch.(2006) "Understanding basic ECG physiological concepts using a hands-on approach: pros and cons" Experimental Biology 2006, Late Breaking Abstracts LB24
6. Adel B. Elmoselhi, Li L. Yang, Golam Kabir, Mansoor Husain and Duncan J. Stewart (2003) "Conditional over-expression of human endothelin-1 in arterial SMC of mice causes transient hypertension". FASAB J. 17(4): A#345.9
7. Ostadal P, **Elmoselhi AB**, Zdobnicka I, Chapman D, Chappellaz M, Dhalla NS (2002) "The effect of oxidative stress on Na^+-K^+ ATPase isoform expression in rat heart during ischemia-reperfusion" Journal of Molecular and Cellular Cardiology, 34 (6): A47-A47 JUN 2002
8. A.B. Elmoselhi, Chapman D, Elimban V, Dhalla NS (2001) "Protection of molecular changes in cardiac Na^+-K^+ ATPase and Na^+-Ca^{2+} exchanger by preconditioning" Journal of Molecular and Cellular Cardiology, 33 (6): A31-A31 JUN 2001.
9. A.B. Elmoselhi, E. Sentex, V. Elimban, S. Takeo, and N.S. Dhalla (2000) " Modification of gene expression in cardiac hypertrophy by propranolol and verapamil" Journal of Molecular and Cellular Cardiology, May, 2000, 32(5): I41.
10. A.B. Elmoselhi and A.K. Grover, (1998) "Contractile mechanisms and peroxide sensitivity of endothelin receptor subtypes" Journal of vascular Research, Vol. 35(suppl.3), page 2.
11. A.B. Elmoselhi and A.K. Grover, (1998) " An impurity in xanthine oxidase increases endothelin binding to pig coronary artery smooth muscle" Proceeding of the experimental Biology Conference, Anaheim, USA, April 18-22, 1998. FASEB J 12: A#5832.
12. A.B. Elmoselhi, A. Butcher, S.E. Samson and A.K. Grover, (1994)"Free radicals uncouple the sodium pump in pig coronary artery." Proceeding of the experimental Biology Conference, Anaheim, USA, April, 1994. FASEB J 8: A#3462

GOOGLE SCHOLAR PROFILE **SCOPUS - H-index Profile**
(updated in 12/2019)



GRANTS, AWARDS, AND SCHOLARSHIPS

2019-2022 PI- Mohammed Bin Rashid Space Centre, Dubai, UAE (AED 1,200,000 = USD 326,650), Elucidating the impact(s) of spaceflight on circulatory vascular function: clinical, genomics, transcriptomics, and proteomics parameters.

2019- 2021 PI- Competitive Research Grant, UOS Research Funding Department, UAE, (AED 80,000 = USD 21,780), The role of vascular NOX gene as mechanistic and therapeutic targets for early signs of cardiovascular diseases in obese and vitamin D deficiency of Emirati population.

2017- 2019 PI- Sheikh Hamden Bin Rashid Al Maktoum Award for Medical Sciences, (AED 200,000 = USD 54,440), Effect of extended Vitamin D Supplement on Endothelial Dysfunction in Adult Middle-aged Obese and Vitamin D3 Deficiency Individuals in UAE Population".

2017-2019 PI- Cooperative Research Grant UOS Research Funding Department, UAE, (AED 197,500 = USD 53,760), Role of the circulatory miRNAs as reliable markers and early signs for CVD in individuals suffering from obesity and vitamin D deficiency in UAE".

2017- 18 PI- Boehringer Ingelheim -UOS undergraduate research award, (AED 15,000).

2016- 17 PI- Boehringer Ingelheim -UOS undergraduate research award, (AED 13,000).

2015-16 PI- Boehringer Ingelheim -UOS undergraduate research award, (AED 14,000).

2015-17 Co-PI – Al Jalila Foundation, Dubai, UAE, (AED 268,500), Characterization of an in vitro Three Dimensional Cell Culture System for Adipogenesis as a Model for Anti-Obesity Drugs Testing.

2018 My students project won 1st place for Public Health Category, 6th UAE Undergraduate Research Competition, Abu Dhabi University, Knowledge, attitudes and practices towards caffeine consumption among adults in the United Arab Emirates,

2002-03 Postdoctoral Fellowship, HSFC/AstraZeneca and CIHR/Rx&D Research Program (Accepted)
2003 Best poster presentation, CVS Scientific Day, Heart and Stroke/Richard Lewar Centre of Excellence, University of Toronto, Canada
2001-02 Postdoctoral Fellowship, HSFC (Accepted)
Postdoctoral Fellowship, CIHR and Canadian Hypertension Society (Declined)
1999- 01 Postdoctoral Fellowship, Astra Pharma/ HSFC/ MRC/ PMAC Fellowship (Accepted).
Postdoctoral Fellowship, Manitoba Health Research Council (Declined).
1997-99 Research Traineeship, Heart and Stroke Foundation of Canada (HSFC).
1994-97 Departmental Scholarship. Biomedical Sciences Department, McMaster University.
1996-97 Graduate Scholarship, McMaster University, Hamilton, Canada.
1995-96 Entrance Award, McMaster University, Hamilton, Canada.
1994-95 Centennial Scholarship, McMaster University, Hamilton, Canada.
1979-86 Talent Scholarship, Ministry of Education, Alexandria, Egypt.

PROFESSIONAL MEMBERSHIPS/ LICSENCES

1996- Present American Physiological Society, Bethesda, Maryland, USA.
2010- Present International Association of Medical Science Educators (IAMSE), WV, USA.
2008 - 2010 Association for the study of Medical Education, Edinburgh, UK.
1999 - 2005 American Heart Association, Dallas, TX, USA.
1992- Present Smooth muscle research program, McMaster University, Canada.
1987- Present General Practice Licence. Ministry of Health, Alexandria, Egypt.

SPECIAL QUALIFICATION

March 1992 MCCEE (Medical Council of Canada Evaluating Examination)

PRESENTATIONS

Adel Elmoselhi, Peter Carmeliet, Rifat Hamoudi, Ahmed T. El-Serafi, Nandu Goswami (2019), Exploring the Impact(s) of Spaceflight Environment on the Astronaut's Vascular Function: A Joint Mohammed Bin Rashid Space Center and European Research Institutes Project. 22nd IAA Humans in Space Symposium (HIS), Dubai, UAE, November 2019.
Nandu Goswami , Peter Carmaliet, Rifat Hamoudi, Ahmed T. El-Serafi, **Adel Elmoselhi** (2019), Elucidating the impact(s) of Hindlimb Unloading and Hypoxia on Vascular Function: A Joint Mohammed Bin Rashid Space Center and European Research Institutes Project. 22nd IAA Humans in Space Symposium (HIS), Dubai, UAE, November 2019.
Rizwan Qaisar, Khuloud Bajbouj, **Adel Elmoselhi** (2019), Targeting SR stress to mitigate disuse-induced muscle atrophy during stimulated microgravity. 22nd IAA Humans in Space Symposium (HIS), Dubai, UAE, November 2019.
Adel Elmoselhi, Mohamed Eladl, Mohamed.Seif, (2017), "Early Echocardiography experience assists in improving and retaining knowledge of Cardiac Anatomy and Physiology for medical students". EB 2017, Chicago, USA
M. Shayeb, M. Khouly, R. Samhouri, K. Ahmed, L. Midani, A. El-Serafy, and **A. Elmoselhi**, Effect of SAHA and 5-Aza-2-deoxycytidine on GIP receptors and insulin secretion in cultured human pancreatic cells, The 9th Dubai International Conference for Medical Sciences, 14-16 December, 2016
Abumahfouz, M., AlHasham, N., AlShaali, S., AlSuwaidi, A., AlZaabi, S., Majeed, H., **A. Elmoselhi.** Knowledge Regarding Type 2 Diabetes Mellitus in the UAE. UOS Research Day 2015.
M.A. Eladl, **A.B Elmoselhi** and M.S. Shehata, Using Echocardiography as a Promising Adjunctive Teaching Tool for Cardiac Anatomy and Physiology, Accepted in EB 2015, Boston, USA
Adel Elmoselhi, Akram Jaffer, Mohamed Aladl (2014) "Cardiac anatomy in electrophysiology conference", Gulf EP Live, Dubai, UAE, (invited speakers), March 6- 8, 2014.
Adel Elmoselhi, Harvey Sparks, Phil Van Lente, Gregory Fink, Kerry Polizzi and Dianne Wagner (2013) "Enhanced medical student understanding of basic ECG concepts using hands-on laboratory experience". The 17th Annual Meeting of IAMSE, St. Andrew University, Scotland, UK, June 8-11, 2013
Adel Elmoselhi[1,2], Brenda Klement[2], Bonita Savage[2] (2010) "Active learning hands-on approach in teaching ECG basic concepts to pre-clinical medical students" The 14th Annual Meeting of IAMSE, Tulane University, New Orleans, LA, July 10, 2010
Adel Elmoselhi, Brenda Klement, Bonita Savage (2008) "Teaching basic ECG physiological concepts using a hands-on approach: pros and cons" The ASME (Association of the Study of Medical Education) Annual Scientific Meeting 2008, University of Leicester, UK.
Adel B Elmoselhi, Daina Ngugi, Bonita Savage, Gordon J Leitch.(2006) "Understanding basic ECG physiological

concepts using a hands-on approach: pros and cons" Experimental Biology 2006, April 1-5, San Francisco, CA

AB Elmoselhi, Li L. Yang, Golam Kabir, Mansoor Husain and Duncan J. Stewart (2003) "Conditional over-expression of human endothelin-1 in arterial SMC of mice causes transient hypertension". Experimental Biology, April 13, 2003, San Diego, CA.

AB Elmoselhi, LL Yang, R Gros, Golam Kabir, Duncan J. Stewart and Mansoor Husain (2002) " Conditional overexpression of human endothelin-1 in arterial smooth muscle cells of transgenic mice" Canadian Hypertension Society, Ontario Chapter, Annual Spring Conference, May 4-6, 2002

A.B. Elmoselhi, E. Sentex, V. Elimban, S. Takeo, and N.S. Dhalla (2000) " Modification of gene expression in cardiac hypertrophy by propranolol and verapamil" XXII Annual Meeting of the American Section of International Society for Heart Research, Louisville, Kentucky, USA, June 14-18, 2000.

A.B. Elmoselhi and A.K. Grover, "Contractile mechanisms and peroxide sensitivity of endothelin receptor subtypes" at INABIS 98 (5th International World Congress on Biomedical Sciences), Dec. 7-16, 1998.

A.B. Elmoselhi and A.K. Grover, "An impurity in xanthine oxidase increases endothelin binding to pig coronary artery smooth muscle" presented at

- The Canadian Hypertension Society, Kingston, Ontario, May 28-29, 1998.
- The Experimental Biology Conference, San Francisco, California, April 18-22, 1998.
- The Biomedical Sciences Departmental Symposium, McMaster University, Feb.6, 1998.

A.B. Elmoselhi and A.K. Grover,"Endothelin contraction in pig coronary artery: receptor types and Ca^{2+}mobilization" Presented at:

- The Cellular Basis of Cardiovascular Function in Health and Disease, Kenora, Ontario, Aug.24, 1996.
- The Graduate Student Research Day, McMaster University, Sept. 24, 1996.
- The Biomedical Sciences Departmental Symposium, McMaster University, Feb.11, 1997.

A.B. Elmoselhi, S.E.Samson, and A.K. Grover,"Heterogeneity in the effects of reactive oxygen on coronary artery Ca^{2+}pumps loading IP_3-sensitive and -insensitive SR Ca^{2+}pools." Presented at:

- The Canadian Federation of Biological Societies, London, Ontario, Jun. 22, 1996,
- The Biomedical Sciences Departmental Symposium, McMaster University, Feb., 1996,

A.B. Elmoselhi, A. Butcher, S.E. Samson and A.K. Grover. "Free radicals uncouple the sodium pump in pig coronary artery."

- The Experimental Biology Conference, Anaheim, California, April 24-27, 1994.

REFERENCES

Provided upon request