

CURRICULUM VITAE

NAME/SURNAME: Masoumeh - Varedi
PLACE OF BIRTH: Shiraz - IRAN

WORK ADDRESS: Department of Physiology, Medical School,
Shiraz University of Medical Sciences, Shiraz, IRAN,

TELEFAX: (0713) 32302026

E-mail: varedim@sums.ac.ir

EMPLOYMENT:

November 2015- present Professor, Department of Physiology, Medical School. Shiraz University of Medical Sciences, Shiraz, IRAN

October 2007-2015 Associate Professor, Department of Physiology, Medical School. Shiraz University of Medical Sciences, Shiraz, IRAN

August 2000- 2007 Assistant Professor, Department of Physiology, Medical School. Shiraz University of Medical Sciences, Shiraz, IRAN

November 1997- July 2000 Postdoctoral Program, Department of Molecular Biology, University of Texas, Medical Branch, Texas, USA.

May 1983 - April 1991 Research Associate and Lecturer, Department of Physiology, Medical School, Shiraz University, Shiraz, IRAN.

Jan. 1978 - April 1983 Research Assistant & Supervisor of Serology / Immunology laboratory, Department of Pathology, Medical School, Shiraz University, Shiraz, IRAN

EDUCATION:

Postdoctoral Fellowship Department of Molecular Biology, Shriners Hospital,
1997-2000 Medical Branch, University of Texas, USA

October 1992-1997 Ph.D. (Experimental Surgery/ Tissue Repair Pathophysiology), Department of Reconstructive Surgery, Faculty of Graduate Studies and Research, University of Alberta, Edmonton, CANADA.

July 1978-1984

M.Sc. (Medical Physiology), Department of Physiology, Faculty of Graduate Studies and Research, Shiraz University, Shiraz, IRAN

June 1978

B.Sc. (Medical Technology/Medical Laboratory Sciences), School of Medicine, Shiraz (Pahlavi) University, Shiraz, IRAN.

Ph. D. THESIS:

The effects of re-organization of cytoskeleton and extracellular matrix on gene expression, growth and apoptosis of fibroblasts.

M.Sc. THESIS:

Effects of opium alkaloids on blood sugar, liver glycogen, serum insulin level, and the role of β -adrenergic receptors.

AWARDS:

* Postdoctoral Fellowship Award (Sept. 1998): Department of Molecular Biology, Shriners Burns Hospital, University of Texas, Medical Branch, Galveston, Texas, USA

* 75th Anniversary, Faculty of Medicine Graduate Student Award: (Sept. 1992), Faculty of Graduate Studies and Research University of Alberta, Edmonton, CANADA.

* Gordian J Kaplan Graduate Student Award and Mary Louise Imrie Graduate Student Award: (April 1994), Faculty of Graduate Studies and Research, University of Alberta, Edmonton, CANADA.

* The Prize for Innovation in Biomedical Science Research: Optimizing culture condition for human adipose tissue culture. Khorasan-e- Razavi prize, Mashhad, IRAN

* The Prize for outstanding article: Processed amniotic fluid accelerates diabetic wound healing. The 2nd International Burn Symposium, Tehran, IRAN.

INTERNATIONAL & NATIONAL GRANTS:

* Shriners Burn Research fellowship grant (July, 1998), Shriners Burns Hospital, Cell & Molecular Biology Department, University of Texas Medical Branch, USA

* The Firefighters' Burn Trust Fund of the University of Alberta (March 1995), Department of Surgery, University of Alberta, Edmonton, CANADA.

* The Medical Research Council of Canada (February 1997), University of Alberta, Edmonton, CANADA. (Joint Grant; Professor, Paul G. Scott.)

* Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 92-6734.

* Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 90-5955.

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 90-5699.

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 90-5818.

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, 87-4276.

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 80-1390.

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 84-2628.

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 87-4164.

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 92-6734

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No.94-10137

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 95-11893

*Research Council of Shiraz University of Medical Sciences, Shiraz, Iran, No. 95-12078

PUBLICATIONS (SCIENTIFIC ORIGINAL ARTICLES) & CORRESPONDENCE “*”

M. Tatar, **M. Varedi** & F. Naghibalhossaini. Epigenetic Effects of Blackberry Extract on Human Colorectal Cancer Cells. (2021), Nutrition and Cancer , DOI: 10.1080/01635581.2021.1952454.

M. Tatar, Z. Bagheri, **M. Varedi** & F. Naghibalhossaini. Blackberry Extract Inhibits Telomerase Activity in Human Colorectal Cancer Cells (2018), Nutrition and Cancer, doi.org/10.1080/01635581.2018.1506491.

M. S. Owji, **M. Varedi** *, F. Naghibalhossaini, & N. Pajouhi. Thyroid Function Modulates Lung Fluid & Alveolar Viscoelasticity in Mechanically Ventilated Rat (2020), Journal of Surgical Research, (253)272-279. doi.org/10.1016/j.jss.2020.03.060.

Bagheri Zohreh, **Varedi Masoumeh** *, Naghibalhossaini Fakhraddin & Omrani Ghulam H. Apigenin-mediated Alterations in Viability and Senescence of SW480 Colorectal Cancer Cells Persist in The Presence of L-thyroxine (2019); doi: 10.2174/1871520619666190704102708

Z. Shahedi, **M. Varedi ***, Z. Bagheri, A. Moatari, H. Sharafpour. Attenuation by L-thyroxine of oxidant-induced gut epithelial damage. Iranian Journal of Basic Medical Sciences; (2019) ;22:1091-1096. doi: 10.22038/ijbms.2019.37169.8852

Tatar M., Bagheri Z., **Varedi M.** & Naghibalhossaini F. Blackberry Extract Inhibits Telomerase Activity In Human Colorectal Cancer Cells. Nutrition and Cancer (2018). 10.1080/01635581.2018.1506491

Varedi. M *. Pajouhi N., Owji M., Naghibalhossaini F.D., Omrani G.H. Regulation by thyroid function of claudin 4 protein expression and myosin light chain phosphorylation in lung injury. The Clinical Respiratory Journal (2015) DOI:10.1111/crj.12418.

Pajouhi N., Owji M., Naghibalhossaini F.D.Omrani G.H. and **Varedi M ***. Modulation by thyroid hormone of myosin light chain phosphorylation and aquaporin 5 protein expression in intact lung J Physiol Biochem (2015); 71:99–106

Hadi Feizi, Afagh Moattari, Zahra, Amirghofran, and **M. Varedi ***. Methimazole-induced hypothyroidism enhances HSV-1 infectivity without altering circulating leukocytes in the rat. Journal of Ardabil University of Medical Sciences ,(2015), 15:1, 56- 65

A. Bazrafshan, M. Owji, M. Yazdani, and **M. Varedi ***. Activation of mitosis and angiogenesis in diabetes - impaired wound healing by processed human amniotic fluid. Journal of Surgical Research; (2014), 188:545-552.

M. Varedi , A.Moattari, Z. Amirghofran, Z.Karamizadeh, and H.Feizi. Effects of hypo- and hyperthyroid states on herpes simplex virus infectivity in the rat. Endocr Res, 2014; 39(1): 50–55

Ahmad Ghorbani, Seyed Amir Jalali, **M. Varedi**. Isolation of adipose tissue mesenchymal stem cells without tissue destruction: A non-enzymatic method. 2014; Tissue and Cell 46 54–58

M.Varedi, H.Shiri, A.Moatari, G.R. Omrani, and Z. Amirghofran. Hyperthyroid State or *in vitro* Thyroxine Treatment Modulates T_H1/T_H2 Responses during Exposure to HSV-1 Antigens. J Immunotoxicol, 2014; 11(2): 160–165

A. Ghorbani, Gh.H Omrani, Moosa-Al-Reza Hajzadeh, and **M. Varedi ***. Proinsulin C-peptide Inhibits Lipolysis in Diabetic Rat Adipose Tissue Through Phosphodiesterase-3B. Enzyme. Horm. & Metab.Res. 2012; 44:1-6.

A.Ghorbani, Gh.H Omrani, Moosa-Al-Reza Hajzadeh, and **M. Varedi ***. Effects of Rat C-peptide-II on Lipolysis and Glucose Consumption in Cultured Rat Adipose Tissue . *Exper.Clin. Endo.Diabetes; Exp Clin Endocrinol Diabetes* 2011;119:343-347

Akbari Z., **Varedi M. ***, Dehghani Gh., and Tabei S.Z. Quantitative and qualitative evaluation of healing in full thickness cutaneous wounds. *Kowsar Medical Journal*, Spring 2011; Vol.16:1, 27-31.

A.Ghorbani, **M. Varedi ***, Moosa-Al-Reza Hajzadeh, and Gh.H Omrani. Diabetes induces depot-specific alterations in adipocyte diameter and mass of adipose tissues in the rat. *Exper.Clin. Endo.Diabetes* (2010) 118: 1-7.

Ghorbani A, **Varedi M**, Ranjbar Omrani GR. Effects of Aging Associated with Weight Gain on The Cell Size. and Heterogeneity of Different Fat Depots in The Rat. *Iranian Journal of Endocrinology & Metabolism*. (2010) Vol. 11 No. 6.

M. Varedi *, Z.Akbari, Gh.A. Dehghani and S.Z. Tabeie. Local administration of L-arginine Accelerates Wound Closure. *IJBMS*, 2009; Vol. 12, No.3-4.

M. Varedi *, E.W. Englander. TGF- β 1 Latency Associated Peptide Promotes Remodeling of Healing Cutaneous Wounds in the Rat. *Iranian Journal of Medical Sciences*, (2006); Vol 31, No 2.

M. Varedi; R. Chinery; G.H. Greeley; D.N. Herndon and E.W Englander. Thermal injury effects on intestinal crypt cell proliferation and death are cell position dependent. *Am. J. Physiol.* 2001; 280(1):G157-163.

M. Varedi; H.M Lee; G. H. Greeley; D. N. Herndon, and E. Englander. Gene expression in intestinal epithelial cells, IEC-6, is altered by burn injury-induced circulating factors. *Shock* 2001; 16(4): 259-263.

M. Varedi, M.G. Jeschke; E.W Englander; D. N. Herndon; and R.E. Barrow. Serum TGF-beta in thermally injured rats. *Shock* 2001; 16(5):380-382.

M. Varedi, P.G. Scott, E.E. Tredget. Stress-relaxation and contraction of a collagen matrix induces expression of TGF-beta and triggers apoptosis in dermal fibroblasts. *Biochem. Cell Biol.*; 2000; 78:427-436.

M. Varedi, G. H. Greeley, D. N. Herndon, and E. Englander. A thermal injury-induced circulating factor(s) compromises intestinal cell morphology, proliferation and migration. *Am. J. Physiol.* 1999; 277 (Gastrointest. Liver Physiol. 40) G175-G182.

M. Varedi, P.G. Scott, A. Ghahary, and E.E. Tredget. Cytoskeleton Regulates Expression of genes for Transforming Growth factor- β 1 and extracellular matrix Proteins in dermal fibroblasts. *J. Cell. Physiol.* 1997; 178: 192-199.

M. Varedi, E.E. Tredget, P.G. Scott, Y.J. Shen, and A. Ghahary. Alteration in Cell Morphology Triggers Transforming Growth Factor- β 1, Collagenase and Tissue Inhibitor of Metalloproteinases-I Expression in Normal and Hypertrophic Scar Fibroblasts. *J. Invest. Dermatol.* 1995; 104:118-123.

E.J. Sanders, **M. Varedi**, and A.S. French . Cell Proliferation in the Gastrulating Chick Embryo: A Study Using BrdU Incorporation and PCNA Localization. *Development* 1993; 118: 389-399.

M. Varedi, & E. Englander. TGF- β 1 Latency Associated Peptide Promotes Remodeling of Cutaneous Healing Wounds. *Iranian Journal of Medical Sciences* 2006; 31(2): 65-69.

M. Varedi, The JAK-STAT Signaling Pathway of Interferon System: *Snapshots*. *Iranian Journal of Immunology*; 2005, 2(2): 3-13.

Gh. H. Omrani, A. Zarifkar, **M. Varedi**, S. Nasser Moghaddam and M. S. S. Salles. Effect of Intracisternal TRH on the Basal Acid Output and Serum Gastrin in Hyperthyroid Rats. *Iranian Journal of Medical Sciences.* 1992; 17(1): 87-91.

S. Sadeghi-Hasanabadi, K. Nader, B. Abdolahi, Z. Tabei, **M. Varedi**, and M. Imani . An Outbreak of Leishmaniasis with Unusual Presentation in Shiraz, Iran. *Transaction of the Royal Society of Tropical Medicine and Hygiene* 1987; 81:359.

M. Varedi, Gh. Omrani, and M. S. S. Salles. The Effects of Opium Alkaloids on Glucoregulatory Factors. *Iranian Journal of Medical Sciences.* 1986; 13: 22-26.

CONFERENCE PRESENTATIONS & ABSTRACTS:

Pajouhi N. , Varedi M., Owji S.M., Naghibalhossaini F., Omrani R.GH. Ventilator induced lung injury, Myosin light chain phosphorylation and claudin 4 expression in rat lung are thyroid dependent. 22nd Iranian Congress of Physiology and Pharmacology; December 15-17; 2009, Tehran, IRAN.

A. Bazrafshanm, M. Owji, M. Yazdani and **M. Varedi**. Processed human amniotic fluid accelerates wound closure and promotes maturation of granulation tissue and remodeling of excisional wound. The Second Internatioal Tehran Burn Symposium. Tehran, Bahman , January , , 2013.

Ghorbani A, Omrani GR, Hadjzadeh MR, **Varedi M**. Antilipolytic effect of proinsulin C-peptide in diabetic rat. International Conference and Exhibition on Metabolism & Systems Biology. Oral Presentation, 20-22 Feb, 2012, San Francisco, USA.

A.Ghorbani, **M. Varedi**, Moosa-Al-Reza Hajzadeh, and Gh.H Omrani. Establishment of Adipose tissue culture in IRAN for the first time. The First Research Achievement Congress, Mashad, Dec. 2010.

A. Bazrafshanm, M. Owji, M. Yazdani and **M. Varedi**. The effects of amniotic fluid on excisional wound in normal and diabetic rats. The 17th National and 5th International Iranian Biology Congerence. 2-6 Sept. 2012; Kerman, IRAN.

Moattari A, Ashrafi H., Arabpour M. and **Varedi M**. Antigenic variations of human influenza virus in Shiraz, Iran.6th European Congress on Tropical Medicine and International Health. September 6-10, 2009 Verona, ITALY.

Ghorbani A, **Varedi M**, Omrani GH . Streptozotocin-induced diabetes alters fat cell size and homogeneity in a depot specific manner in rat. Iranian Journal of Diabetes and Obesity Pre-Issue Spring 2009. International Congress on Diabetes and its complications, 19-21 May 2009, Yazd-IRAN.

Ghorbani, A.; **Varedi, M.**; Hajzadeh, M.A.; and Omarani, GH. Effects of Aging Associated with Weight Gain on The Cell Size & Heterogeneity of Different Fat Depots in The Rat. Iranian Journal of Endocrinology & Metabolism

Varedi M., Keshavarz S., Moattari A., Owji M., The Effects of Acute Hyperthyroxinemia on Adrenal Reserve and Resistance to HSV-1 Infection in The Rat. 19th Iranian Congress of Physiology and Pharmacology; December 15-17; 2009, Tehran, IRAN.

H. Faizee; A. Moattari; & **M. Varedi**. The Effects of serum levels of thyroid hormones on the susceptibility to herpes simplex virus (HSV-1) infection in the rat. 18th Iranian Congress of Physiology and Pharmacology 2007; August 26-30, Mashhad, IRAN.

M. Varedi; EE. Tredget and PG, Scott. Alterations in mechanical properties of extracellular matrix alter human fibroblasts activity. 17th International Congress of Geographic Medicine 2004; November 23-25; Shiraz, IRAN.

Z. Akbari, G.H. Dehghan; SZ. Tabei & **M. Varedi**. Effects of L-arginine on the post-inflammatory phases of cutaneous wound healing. 16th Iranian Congress of Physiology and Pharmacology 2003; May 9-13, Tehran, IRAN.

M. Varedi, G. H. Greeley, D. N. Herndon and E. Englander. The effects of burn injury on the small intestine in the rat. 32nd Annual meeting of American Burn Association 1999; March 23-28, Orlando, Florida, USA.

M. Varedi, G. H. Greeley, D. N. Herndon, and E. Englander. Mechanisms involved in post-burn gut mucosal atrophy: Morphology, migration, proliferation and apoptosis of intestinal epithelial

cells. Trauma, Infection and Repair Research Presentation 1998; Sept. 16, University of Houston, Medical Branch, Galveston, TX. USA.

M. Varedi, P. G. Scott, E. E. Tredget. Re-Organization of the cytoskeleton and matrix modulate gene expression, growth and apoptosis of/in dermal fibroblasts. 7th Annual Meeting of The Wound Healing Society 1997; Jun. 11-14, Nashville, Tennessee, U.S.A.

M. Varedi, P.G., Scott, A. Ghahary and E. E. Tredget. Cytoskeleton Regulates the Gene Expression of TGF- β 1 and Extracellular Matrix Proteins. 6th International Congress on Cell Biology and 36th American Society for Cell Biology Annual Meeting 1996; Dec. 7-11, San Francisco, CA. U.S.A.

M. Varedi, E. E. Tredget, P.G. Scott, and A. Ghahary. The Role of Cell Cytoskeletal Organization in Gene Expression in Dermal Fibroblasts. Research Revelations 1995; March 4, HMRC, University of Alberta, Edmonton, Canada.

M. Varedi, E. E. Tredget, P.G. Scott, and A. Ghahary. Alterations in Cell Morphology Induce TGF- β 1, Collagenase and TIMP-I Expression in Dermal Fibroblasts. 37th Annual Meeting of Canadian Federation of Biological Societies 1994; Jun. 18-20, Montreal, Quebec, Canada.

A. Ghahary, Y. J. Shen, B. Nedelec, **M. Varedi**, P.G. Scott, E. E. Tredget. Differential Effects of Interferons Gamma and Alpha 2b on Expression of Collagenase and TIMP-I mRNA in Human Hypertrophic and Normal Dermal Fibroblasts. 1st Joint Meeting of The Wound healing Society and The European Tissue Repair Society 1993; Aug. 22-25, Amsterdam, The Netherlands.

M. Varedi, E. E. Tredget, P.G. Scott, and A. Ghahary. Regulation of Transforming Growth Factor-beta Expression in Normal and Hypertrophic Scar Fibroblasts. Resident research Day, 1993; May 14, Department of Surgery, Faculty of Medicine, University of Alberta, Edmonton, Canada.

M. Varedi, Gh. H. Omrani, M.S. Shahid Salles (1986). The Effect of Opium Alkaloids on Blood Sugar, Liver Glycogen and Serum Insulin Level, and The Role of β -Adrenergic Receptors in These Effects. 7th Iranian International Congress of Physiology and Pharmacology 1986; May 22-26, Tabriz University, Tabriz, IRAN.

M. Varedi, Gh. H. Omrani (1989). Immune Suppressive Therapy in Type-I Insulin Dependent Diabetes Mellitus (IDDM) in an animal model. 9th Iranian International Congress of Physiology and Pharmacology 1989; Jul. 15-18, Shahid Beheshti University, Tehran, IRAN.

M.S. Shahid Salles, K Sharifi Hossaini & **M. Varedi**. Poikilothermia of ethyl alcohol and the possible role of brain serotonin. 12th Annual Meeting of Neuroscience Society 1982; Oct 31-Nov 5, Minneapolis, MN. USA.

Book Chapters:

H. R. Rezai, S. Ardehali, A. Kharazmi, S. Motamedi and **M. Varedi** (1986). Interpretation of Immunology and Serology Tests. 1st Edition, Shiraz University, Shiraz, IRAN.

Research Interest:

My laboratory is located in the Department of Physiology, 6th floor, Building 3, Medical School, Shiraz University of Medical Sciences, Shiraz, IRAN. Studies in my laboratory are centered on:

- 1- Tissue injury & repair
- 2- Trauma & MOSF & epithelial-endothelial barrier malfunction
- 3- Thyroid hormones & viral immunity
- 4- Thyroid hormones, flavonoid & cancer
- 4- Diabetes & Adipose tissue