

Nepton Soltani
(Associat Professor)
Department of Physiology Faculty of Medicine
Hormozgan Medical Sciences University
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Sex:

Female

Nationality:

Iranian

Education:

PDF	Endocrine (diabetes)	Toronto University, Canada 2005-2007
PhD	Medical physiology	Tehran Medical Sciences University 2001-2005
MSc	Medical physiology	Isfahan Medical Sciences University 1990-1993
BSc	Biology	Isfahan University 1985-1989

Area of interests:

Endocrine system, Diabetes, Molecular mechanism involved in insulin and glucagon secretion, Ischemia, Smooth muscles, endothelial cell,

Teaching background:

- Endocrine, Gastrointestinal, Respiratory physiology for physiology master students, Hormozgan Medical Sciences .University 2011-now
- Endocrine, Gastrointestinal, Respiratory and Renal physiology for Medical and dentist students, Hormozgan Medical Sciences .University2005-now
- Endocrine and Respiratory physiology for pharmacy students, Tehran Medical Sciences University2001-2004
- Respiratory and Endocrine physiology for dentist students, Tehran Medical Sciences University2001-2003
- Cardiovascular physiology for PhD students of nutrition, Tehran Medical Sciences University. 2002
- Endocrine physiology for medical students, Shahrood Medical Sciences University 2002-Now
- Lab procedures in physiology for medical students, Tehran Medical Sciences University 2001-2002

- Lab procedures in physiology for medical students, Hormozgan Medical Sciences University 1999-2000
- Respiratory, endocrine and renal physiology for medical students, Hormozgan Medical Sciences University 1998-2000
- Lab procedures in physiology for medical and pharmacy students, Isfahan Medical Sciences University 1994-1998

Journal articles in English:

- Kamran M, Bahrami A, Soltani N, Keshavarz M, Farsi L. Gamma amino butyric acid (GABA)-induced vasorelaxation mediated by nitric oxide and GABAA receptor in non diabetic and streptozotocin induced diabetic rat vessels. (Accepted in Gen Physiol Biophys.)
- Amiri Tavasoli R, Soltani N, Keshavarz M, Sohrabipour SH. Mg²⁺- induced adenosine-mediated receptor mediated relaxations in mesenteric vascular beds of diabetic rat. Gen Physiol Biophys. 31(4):409-13; 2012
- Mansoori A, Zaheri H, **Soltani N**, Kharazmi F, Keshavarz M, Kamalinajad M. Effect of the administration of Psidium guava leaves on lipid profiles and sensitivity of the vascular mesenteric bed to phenylephrine in STZ-induced diabetic rats. JMD, 2(1): 138-145; 2012
- Soltani N, Qiu H, Aleksic M, Glinka Y, Zhao F, Liu R, Li Y, Zhang N, Chakrabarti R, Ng T, Jin T, Zhang H, Lu WY, Feng ZP, Prud'homme GJ, Wang Q. GABA exerts protective and regenerative effects on islet beta cells and reverses diabetes. Proc Natl Acad Sci U S A. Jun 27, 2011
- Farsi L, Keshavarz M, **Soltani N**. Relaxatory effect of GABA mediated by same pathway in diabetic and normal rat vessel. Iranian J. of basic medical sciences. 14(1): 94-98; 2010
- Mirghazanfari M, Keshavarz M, Nabavizadeh f, **Soltani N**, Kamalinejad M. *Teucrium polium L.* (Calpoureh) aerial part methanolic extract enhances insulin release from insitu isolated perfused rat pancreas via physiologic pathways. Iranian Biochemical J. 14(4): 178-185; 2010
- Hasanein P, **Soltani N**. Effects of endocannabinoid transport inhibitors AM404 and UCM707, on an experimental model of diabetic neuropathy. CEPP. 36(11): 1127-31; 2009

- Nematbakhsh M, Attari M, Hajiheydari M, Abdeyazdan Z, Gholchin M, **Soltani N**, Samarian S.H, Yadegharfar G, Soltani H, TooToonchi M. Measured vs calculated plasma osmolality in infants and head injured patients in critical care units. *Clin Exp Med Lett.* 49(4):211-214; 2008
- **Soltani N**, Kumar M, Glinka Y, Prud'homme GJ, Wang Q. In vivo expression of GLP-1/IgG-Fc fusion protein enhances beta-cell mass and protects against streptozotocin-induced diabetes. *Gene Ther.* 14(12):981-8; 2007
- **Soltani N**, Keshavarz M, Dehpour AR. Effect of oral magnesium sulfate administration on blood pressure and lipid profile in streptozocin diabetic rat. *Eur J Pharmacol.* 10;560(2-3):201-5; 2007
- Hasanein P, Parviz M, Keshavarz M, Javanmardi K, Mansoori M, **Soltani N**. Oral magnesium administration prevents thermal hyperalgesia induced by diabetes in rats. *Diabetes Res Clin Pract.* 73(1):17-22; 2006
- **Soltani; N**, Keshavarz; M, Minaii; B, Zahdi Asl; S, Dehpour; A.R: Effect of magnesium on plasma glucose and pancreas histology in streptozotocin-diabetic rats. *CEPP.* 32:604-610; 2005
- **Soltani; N**, Keshavarz; M, Sohanaki; H, Zahdi Asl; S, Dehpour; A.R: Relaxatory effect of magnesium on mesenteric vascular beds differs from normal and streptozotocin-diabetic rats. *European Journal of pharmacology.* 508: 177-131; 2005
- **Soltani; N**, Keshavarz; M, Sohanaki; H, Zahdi Asl; S, Dehpour; A.R: Oral magnesium sulfate prevent vascular complication STZ-diabetic rats. *Life sciences.* 76:1455-1464; 2005
- Nematbakhsh M, Habibi H.R, **Soltani N**, Hayatdavoodi P, Naji H, Borjjan L Gender difference in endothelial permeability of aorta in rabbits consuming normal or high-cholesterol diets. *Iran Journal of Medical Sciences IJMS).* 28(4):1-3;2003
- Nematbakhsh M, Moghaddassi M, **Soltani N**, Samarian S.H, Rajabi P Administration of large volume hypertonic solutions for resuscitation of hemorrhagic shock in rabbit. *Iranian Biomedical Journal.* 1998
- Nematbakhsh M, Rajabi P, **Soltani N**, Samarian S.H, Sarrafzadeghan N, Mohammadifar N, Alikhassi H, Estrogen attenuates endothelial permeability and fatty streaks in cholesterol-fed male rabbit aorta. *Ateroskleroz.* 1998
- Nematbakhsh M, **Soltani N**, Samarian S.H, Bordbar A, Attari M.A, Hypertonic lactated ringer's solution in experimental vasogenic brain edema in rabbit: effect

on blood pressure, electrolytes, blood urea nitrogen, total protein concentration, plasma osmolality, and cerebral water content. Islamic Republic of Iran Medical Journal. 1995

Journal articles in Farsi:

- Solati M, Farshidfar GR, Vakil MK, Saberi P, Kamalinejad M, **Soltani N**. Effect of the administration of Teucrium polium on blood glucose, and lipid profiles in streptozotocin-induced diabetic rats. (Accepted in Iranian Journal of Physiology and Pharmacology)
- **Soltani N**, Naderi N, Zare SH. Comparison between traditional teaching method and small teaching group in teaching physiology respiratory system in medical students in Hormozgan University of Medical Science. Hormozgan Medical Journal 16(4):317-324; 2012
- Zaheri H, **Soltani N**, Kharazmi F, Keshavarz M. Relaxatory effect of PGE to Phyneliephrine in mesenteric bed in diabetic rat. Iranian lipid and diabetes Journal 10(3):347-354; 2011
- Mansoori M, Parviz M, Keshavarz M, **Soltani N**, Garibzadeh Sh. Prevention effect of oral magnesium sulfate administration on memory in streptozocin diabetic rat. Tehran Medical School Journal. 65(1):1-5; 2008
- Nematbakhsh M, Hajiheydari M, Abdeyazdan Z, Gholchin M, **Soltani N**, Samarian S.H, Yadegharfar G, Soltani H, TooToonchi M, Calculated and measured osmolality in new born. Feyz. 2002
- Nematbakhsh M, Hasanvand F, Verdi J, **Soltani N**, Use of specific gravity for determining brain tissue water content in rat. Feyz. 1998
- Nematbakhsh M, Javdan L, **Soltani N**, Simulation of oxygen disappearance rate in cerebral embolism: the effect of pH, temperature, hematocrit, and kinetics of Oxygen metabolism. Research in Medical Sciences Journal. 1997
- Nematbakhsh M, **Soltani N**, Moghaddassi M, Samarian S.H, Attari M.A, Comparison effect of hypertonic sodium chloride (1.8%) with isotonic solution in hypovolemic shock. Research in Medical Sciences Journal. 1997
- **Soltani N**, Nematbakhsh M, Rostami A, Fluorocarbons liquids:artificial blood. The Iranian Journal of Blood Transfusion. 1995
- Nematbakhsh M, **Soltani N**, Biochemical changes of blood in vasogenic brain edema. Iranian Journal of Anesthesiology. 1994

Books:

- Type one diabetes (Beta cell function) in English
- Type one diabetes (Prevention of diabetic complication) in English
- Translation of Gannog Physiology to Farsi 2011
- Rostami; A et al (**Soltani N**) (2007).Essential Physiology for Graduate Students. third edition, Isfahan
- Fesharaki; M, **Soltani N**. (2001) Physiology Laboratory Methods.

Research projects:

- The preventive effect of magnesium supplementation in of Cisplatin induced Nephrotoxicity in diabetic Rat, **Soltani N**, Nematbakhsh M, 2012
- Investigation of GABA-B receptor and nitric oxide system on mesenteric bed perfusion pressure in diabetic non diabetic rats, **Soltani N**, 2012
- Molecular mechanism of magnesium on blood glucose reduction, Malakzadeh K, **Soltani N**, 2011
- Effect of oral Kalpora administration on lipid profile and metabolic changes in diabetic rats, Solati M, **Soltani N**, 2010
- Investigation of GABA-A receptor and nitric oxide system on mesenteric bed perfusion pressure in diabetic non diabetic rats, **Soltani N**, 2009
- Investigation of adenosine A2a receptor and nitric oxide system on mesenteric bed perfusion pressure in diabetic rat, **Soltani N**, 2009
- Mechanism of magnesium relaxatory effect on diabetic rat vessel. **Soltani N**, Keshavarz M. 2008
- Relationship between serum Mg level and blood glucose, HbA1C and other cardiovascular risk factors in type one and two diabetes. **Soltani N**, Solati M. 2008
- The effect of aerial part extracts *Cuminum cyminum L.* on insulin and glucagon secretion from rat pancreas. **Soltani N**, Keshavarz M. 2007

- Effect of GABA on mesenteric bed perfusion pressure in diabetic rat. **Soltani N**, Keshavarz M. 2007

Student supervised:

- Effect of magnesium supplementation on insulin resistance in type 2 diabetic patient, by **Dr Kazemi Internal Medicine student** 2012
- The influence of magnesium sulphate on pancreatic islet β cells in STZ- diabetic male rats, by **Mohammad Reza Parvizi PhD student**, 2012
- Molecular mechanism of magnesium on blood glucose reduction, by **Haneyah Solymanei MSc student** 2011
- Effect of oral Kalpora administration on lipid profile and metabolic changes in diabetic rats, by **Dr Vakili Internal Medicine student** 2010
- Effect of olive leaves and role of endothelium and nitric oxide system on normal rat vessel, by **Aftakhari Medical student** 2010
- Role of adenosine receptors and nitric oxide system on vascular response of diabetic rats to acute magnesium sulfate, by **Reza Ahmadi Medical student** 2009
- Role of calcium channel opener and nitric oxide system on vascular response of diabetic rats to acute magnesium sulfate, by **Eiman Nikkhoo Medical student** 2009
- Treatment effect of oral magnesium sulfate administration on vascular complication in diabetic rats, by **Maryam Dahghankalili Medical student** 2009
- Psidium guava mechanism on diabetic vessel complication in rats, by **Habeib zaheri MSc student** 2009
- Investigation of GABA-A receptor and nitric oxide system on mesenteric bed perfusion pressure in diabetic rat, by **Abdolreza Bahrami MSc student** 2009
- Investigation of adenosine A2a receptor and nitric oxide system on mesenteric bed perfusion pressure in diabetic rat, by **Roya Amiri MSc student** 2009
- Investigation of GABA-A receptor and nitric oxide system on mesenteric bed perfusion pressure in normal rat, by **Mahmoud Kamran MSc student** 2009

- Prevention effect of psidium guava on diabetic complication in rats, by **Abdolhosaein Mansoori MSc student** 2009
- Effect of GABA on diabetic rat vessel complication, by **Farsi Msc student** 2008
- Effect of magnesium sulfate on treatment of type two diabetic patient, by **Elham Ouspid and Hoseani Medical student** 2007
- Effect of aerial part extracts Cuminum cyminum L. on insulin and glucagon secretion from rat pancreas, by **Mehdi Mirghazanfari PhD student** 2007
- Effect of magnesium sulfate on memory in diabetic rat, by **Marzia Mansoori Msc student** 2004

Workshops:

- EDC workshops in Hormozgan Medical Science University (2008-2012)
- MET(Mediterranean Editorial and Translating) course in Split- Croatia (2008)
- Advanced scientific writing in Hormozgan Medical Science University (2007)
- Oral and Poster presentation in Hormozgan Medical Science University (2007)
- MET(Mediterranean Editorial and Translating) course in Madrid- Spain (2007)
- Advance research in education in Hormozgan Medical Science University (2007)
- IBRO course in Tarbiatmodares Medical Sciences University (2002)
- Medical article editing workshop in Iranian Ministry of Health (1999)
- Learning and problem solving workshop in Isfahan Medical Sciences University (1998)
- Advanced research method workshop in Isfahan Medical Sciences University (1997)
- Introductory research method workshop in Isfahan Medical Sciences University (1995)

Congresses:

- SAAP3 congress Colombo Sir Lanka (2012), **Oral presentation**
- ESC congress Istanbul Turkey (2011), **Guest oral presentation**
- Physiology and Pharmacology congress Hamadan Iran (2011), **Oral presentation**
- Pharmacology congress Kopenhagen Denmark (2010), **Poster discussion presentation**
- IUPS(International Physiology Science) Kyoto-Japan (2009)
Poster discussion presentation
- MET(Mediterranean Editorial and Translating) Split- Croatia (2008),
Poster discussion presentation
- Endocrine Society congress (END08), Sunfaransisco, USA (2008), **Poster discussion presentation**
- Endocrine Society congress (END07), Toronto, Canada (2007), Oral presentation
- 18th Iranian Congress in Physiology and Pharmacology, Mashhad Medical Science University(2007), **Oral presentation**
- 7th International Congress in Endocrine and Metabolism, Shaheed Beheshti Medical Sciences University (2004), **Poster discussion presentation**
- 16th Iranian Congress in Physiology and Pharmacology, Tarbiat Modarres University (2003)
- 15th Iranian Congress in Physiology and Pharmacology, Shiraz Medical Sciences University (2001)
- 14th Iranian congress in Physiology and Pharmacology, Tehran Medical Sciences University (1999)
- 13th Iranian congress in Physiology and Pharmacology, Isfahan Medical Sciences University (1997), **oral presentation**
- 4th Iranian congress in Anesthesiology, Tehran Medical Sciences University (1996), **Oral presentation**
- 12th Iranian congress in Physiology and Pharmacology, Iran Medical Sciences University (1995), **Poster presentation**

Honors, Awards and Inventions:

- The best researcher, Hormozgan medical Science University 2011, 2012
- The best researcher, Hormozgan medical Science University 2010
- The best researcher, Hormozgan medical Science University 2009
- Ava Siena award for PhD thesis, Tehran 2008
- The best researcher, Hormozgan medical Science University 2007
- The best lecturer in Hormozgan Medical Science University, Tehran 2007
- Endocrine Awarded a sixth month scholarship to complete my PhD degree in Toronto University, Canada 2004
- Ranked one in PhD course, Tehran medical Science University 2004

Positions:

- Head of physiology department in Hormozgan Medical Journal, 2009-now
- Research manager in Hormozgan Medical Journal, 2007
- Education manager in Hormozgan Medical Journal, 2007
- Chef editorial board in Hormozgan Medical Journal, 2007
- Head of library in Hormozgan Medical Sciences University, 1998-2001
- Circulatory manager of “Hormozgan Medical Sciences University Journal” 1998-2001
- Research manager for residential thesis, Isfahan Medical Sciences University, 1995-1998

Reference:

Mansoor Keshavarz, association professor in department of physiology, Tehran Medical Sciences University

Qinghua Wang, association professor in department of physiology and endocrinology, Toronto University, Canada

Mehdi Nematbaksh, professor in department of physiology, Isfahan Medical Sciences University

Saleh Zahdi Asl, professor in endocrine research center, Shaheed Beheshti
Medical Sciences University

Ahmad Reza Dehpour, professor in department of pharmacology, Tehran Medical
Sciences University

Bejan Jahanghuri, professor in department of pharmacology, Tehran Medical Sciences University