

## IN THE NAME OF ALLAH

**Name: Gholam A. Dehghani**

**Born: January 1, 1949 Kerman, Iran**

### **Academic training**

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|---------------------------------------|----------|---------|
| 1. University of Isfahan, Iran.       | B. Sc.   | 1968-72 |
| 2. University of Isfahan, Iran.       | Pharm D. | 1972-74 |
| 3. The Johns Hopkins University, USA. | M. Sc.   | 1975-76 |
| 4. The Johns Hopkins University, USA. | Ph.D.    | 1976-80 |

### **Research activities**

- 1) - Cardiovascular physiology
- 2) - Vanadium and diabetes mellitus

### **Publications in English**

1. Fitzgerald RS, Rogus EM, Dehghani A. Catecholamines and 3-5 cyclic AMP in carotid chemoreception in the cat. In: *Tissue Hypoxia and Ischemia*. Edited. M. Reivich, R. Coburn, S. Lahiri, B. Chance, New York, Plenum Press, 1977. pp. 245-258
2. Fitzgerald, RS, Dehghani GA, Anand, A. Goldberg, AM. The failure of difference in neurally contained acetylcholine to explain differences between carotid body and aortic body chemoreception. *Brain Res*, 1979; 176: 176-180.
3. Fitzgerald, RS, Dehghani GA. Neural responses of the cat carotid and aortic bodies to hypercapnia and hypoxia. *J. Appl. Physiol.* 52: 596-601, 1982.
4. Dehghani GA, Fitzgerald RS and Mitzner W. The role of peripheral arterial chemoreceptors in the cardiovascular responses of the cat to acute systemic hypoxia. In: *Chemoreceptors in Respiratory Control*, edited by J. A. Ribeiro and D. J. Pallot, London, Croom Helm, pp. 209-215, 1987.
5. Fitzgerald, RS, Dehghani GA. Chemoreceptor control of organ blood vascular resistance during acute systemic hypoxia. In: *Chemoreceptors and Chemoreceptor Reflexes*, edited by H. Acker, A. Trezebki, and R.C.O Regan, N.Y. Plenum Press pp. 217-222, 1990.
6. Fitzgerald, RS, Dehghani GA, Sham JSK, and Shirahata M. Pulmonary hypoxic vasoconstrictor response- modulation by peripheral arterial chemoreceptors of pulmonary vasculature. In: *Responses and adaptation to Hypoxia Organ to Organelle*. edited by Lahiri, S., N.S. Cherniack, RS, Fitzgerald, N.Y., Oxford University press, 1991; 202-210.
7. Dehghani GA, Atapour N, Sotoodeh M and Omrani Gh R. The influence of vanadyl sulphate on islet cells, blood glucose, and insulin levels of normal and STZ-induced diabetic rats. *Iran J Med Sci.*, 1992; 17(3&4): 163-73.
8. Dehghani GA. Hypoxia and its influences on the cardiovascular system of self-breathing cats. *Iran J Med Sci.* 18(1&2): 34-39, 1993.
9. Dehghani GA and Moosavi SM. Interactions of arterial chemoreceptors and pulmonary stretch reflexes in circulatory regulations in the cat. *Iran J Med Sci*, 1994; 18(3&4): 153-158.
10. Dehghani GA, Behaedini A. Hypoxia and its influences on the cardiovascular and respiratory systems of spontaneously breathing cats. *MJIRI*, 1994; 8(1): 43-46.
11. Dehghani GA, Atapour N, Sotoodeh M, Omrani GhR. Trophic effects of vanadyl sulphate on pancreatic beta cells of chronic partially streptozotocin-induced diabetic rats. *Iran J Med Sci.* 1994; 19(1&2): 23-27.

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14. Dehghani GA, Ahmadi S, Omrani GhR. Effects of vanadyl sulphate on glucose homeostasis in sever diabetic rats induced by STZ. *Indian J Med Res*, 1997; 106: 461-465.
15. Dehghani GA, Sotoodeh M, Omrani GhR. Trophic effects of vanadium on beta-cells of STZ-induced insulin dependent diabetic rats and evidence for long-term relief of diabetes mellitus. *Indian J Med Res*. 1999; 110: 70-75.
16. Dehghani GA. Effects of hypoxic and carbon monoxide-induced hypoxia on cardiovascular system and regional blood flow in the anesthetized cat. *MJIRI*, 1999; 12(4): 371-376.
17. Eshtiaghi R, Omrani Gh R, Dehghani GA. Metabolic effects of vanadyl sulfate in type 2 diabetic patients. *Iran. J Endocrinol. Metab*, 2001; 2(4): 215-19. (Article in Pesian)
18. Dehghani GA, Mansoorzadeh S, Omrani Gh, Tabei SZ. Effects of vanadyl sulphate on spermatogenesis in male rats. *Iran J Med Sci*, 2002; 27(2): 95-6.
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  32. Ahmadi S, Karimian SM, Sotoudeh M, Bahadori M, Dehghani GA. Pancreatic islet beta cell protective effects of oral vanadyl sulphate in streptozotocin-induced diabetic rats, an ultrastructure study. *Pak J Biol Sci.* 2010; 13(23):1135-40.
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  40. Sovid M, Dehghani GA, Omrani GR. Long- term Efficacy and Safety of Vanadium in the Treatment of Type 1 Diabetes. *Arch Iran Med.* 16(7): 408-11.
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