

CURRICULUM VITAE

Date of preparation:

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NAME: Ali Akbar Owji

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DATE OF BIRTH: June 22,1955

PLACE of BIRTH: Shiraz, Iran

MARITAL STATUS: Married

NUMBER OF CHILDREN: 2

EDUCATION:

1988-1991 Ph.D (Biochemistry)
Department of Biochemistry
Tehran University of Medical Sciences
School of Medicine, Tehran, Iran

1978-1980 M.Sc. (Biochemistry)
Department of Biochemistry
Shiraz University of Medical Sciences
School of Medicine, Shiraz, Iran

1973-1977 B.Sc. (Chemistry)
Chamran University, Faculty of Sciences
Department of Chemistry, Ahwaz, Iran

FACULTY ATTENDENCE:

1999 to date	Associate Professor of Biochemistry Department of Biochemistry Shiraz University of Medical Science, School of Medicine Shiraz, Iran
1991 to 1999	Assistant Professor of Biochemistry Department of Biochemistry Shiraz University of Medical Science, School of Medicine Shiraz, Iran
1982-1991	Instructor of Biochemistry Department of Biochemistry Shiraz University of Medical Science, Fasa Medical School Shiraz, Iran

TEACHING EXPERIENCES:

April 1991 to date	Biochemistry to Medical students Molecular endocrinology to M.Sc. students in biochemistry Biochemistry of Nervous System to Ph.D students in biochemistry
Jan. 1982- Jan. 1998	Clinical Chemistry to undergraduate students in Medical Technology Biochemistry to Medical students

WORKSHOPS PARTICIPATED:

on Computer training
on Principles of Academic Correspondence
on Development of Medical Education,

HONORS AND DISTINCTIONS:

Certificate of Excellence in Teaching Biochemistry
Shiraz University of Medical sciences,
School of Medicine 1998,1999 and 2000

SKILLS

LABORATORY

- Enzyme kinetics and inhibition studies
- neurotransmitter release and uptake studies
- Cell culture techniques
- HPLC method development
- Peptide Iodination
- Receptor binding assay
- Chemical crosslinking of proteins
- Electrophoresis
- Northern blotting
- Atomic absorption
- Immunohistochemistry and western blotting

COMPUTING

- Microsoft word, GPII, SPSS, Microsoft Excel

PUBLICATIONS:

1. Zarrindast MR, Honardar Z, Sanea F, Owji AA. (2011) SKF 38393 and SCH 23390 inhibit reuptake of serotonin by rat hypothalamic snaptosomes. *Pharmacology* 87(1-2):85-92.
2. Rahvar M, Nikseresht M, Shafiee SM, Naghibalhossaini F, Rasti M, Panjehshahin MR and Owji AA. (2011) Effect of oral resveratrol on the BDNF gene expression in the hippocampus of the rat brain. *Neurochemical Research* 36(5):761-5
3. Kakooei H, Ardakani ZZ, Ayattollahi MT, Karimian M, Saraji GN, Owji AA. (2010) The effect of bright light on physiological circadian rhythms and subjective alertness of shift work nurses in Iran. *Int J Occup Saf Ergon.*;16(4):477-85.
4. Nikseresht, M., Seghatoleslam, A., Monabati, A., Talei, A., Ghalati, F. B., and Owji, A. A. (2010) Overexpression of the novel human gene, UBE2Q2, in breast cancer, *Cancer Genetics and Cytogenetics* 197, 101-106.
5. Tabatabaei, N., Jamalian, J., Owji, A. A., Ramezani, R., Karbalaie, N., and Rajaeifard, A. R. (2008) Effects of dietary selenium supplementation on serum and liver selenium, serum malondialdehyde and liver glutathione peroxidase activity in rats consuming thermally oxidized sunflower oil, *Food and Chemical Toxicology* 46, 3501-3505.
6. Owji, A. A., Chabot, J. G., Dumont, Y., and Quirion, R. (2008) Adrenomedullin-2/intermedin induces cAMP accumulation in dissociated rat spinal cord cells: Evidence for the existence of a distinct class of sites of action, *Journal of Molecular Neuroscience* 35, 355-361.
7. Takhshid, M. A., Owji, A. A., and Panjehshahin, M. R. (2007) In vitro effects of adrenomedullin and calcitonin gene related peptide on the release of serotonin and amino acids from rat dorsal spinal cord, *Neuroscience Letters* 420, 193-197.
8. Takhshid, M. A., Poyner, D. R., Chabot, J. G., Fournier, A., Ma, W., Zheng, W. H., Owji, A. A., and Quirion, R. (2006) Characterization and effects on cAMP accumulation of adrenomedullin and calcitonin gene-related peptide (CGRP) receptors in dissociated rat spinal cord cell culture, *British Journal of Pharmacology* 148, 459-468.
9. Amirghofran, A. A., Rayatpisheh, S., Tanideh, N., Owji, A. A., Vasei, A., and Mehrabani, D. (2005) Evaluation of different formulations of biological surgical adhesives on hemorrhagic aorta: An in vitro and animal study, *Journal of Applied Animal Research* 28, 121-124.
10. Bolandparvaz, S., Vasei, M., Owji, A. A., Ata-Ee, N., Amin, A., Daneshbod, Y., and Hosseini, S. V. (2004) Urinary 5-hydroxy indole acetic acid as a test for early diagnosis of acute appendicitis, *Clinical Biochemistry* 37, 985-989.
11. Takhshid, M. A., Owji, A. A., Vasei, M., Panjehshahin, M. R., Tabei, S. M. B., Tabatabaee, H. R., and Ay, J. (2004) Expression of spinal cord Fos protein in response to intrathecal adrenomedullin and CGRP in conscious rats, *Brain Research* 1020, 30-36.
12. Panjehshahin, M. R., Owji, A. A., Mehrabani, D., Mirzaee, M., and Vasei, M. (2003) Effect of curcumin on cholesterol gall-stone induction in rats, *Journal of Applied Animal Research* 23, 75-80.
13. Smith, D. M., Coppock, H. A., Withers, D. J., Owji, A. A., Hay, D. L., Choksi, T. P., Chakravarty, P., Legon, S., and Poyner, D. R. (2002) Adrenomedullin: Receptor and signal transduction, *Biochemical Society Transactions* 30, 432-437.

14. Owji, A. A., Khoshdel, Z., Sanea, F., Panjehshahin, M. R., Shojaee Fard, M., Smith, D. M., Coppock, H. A., Ghatei, M. A., and Bloom, S. R. (2002) Effects of intracerebroventricular injection of glucagon like peptide-1 and its related peptides on serotonin metabolism and on levels of amino acids in the rat hypothalamus, *Brain Research* 929, 70-75.
15. Ilkhanizadeh, B., Owji, A. A., Tavangar, S. M., Vasei, M., and Tabei, S. M. B. (2001) Spot urine 5-hydroxy indole acetic acid and acute appendicitis, *Hepato-Gastroenterology* 48, 609-613.
16. Panjehshahin, M. R., Vasei, M., Vatankhah, M., and Owji, A. A. (1999) Effect of a selective A1 adenosine antagonist on uranyl nitrate-induced acute renal failure in rats, *Iranian Journal of Medical Sciences* 24, 104-108.
17. Coppock, H. A., Owji, A. A., Austin, C., Upton, P. D., Jackson, M. L., Gardiner, J. V., Ghatei, M. A., Bloom, S. R., and Smith, D. M. (1999) Rat-2 fibroblasts express specific adrenomedullin receptors, but not calcitonin-gene-related-peptide receptors, which mediate increased intracellular cAMP and inhibit mitogen-activated protein kinase activity, *Biochemical Journal* 338, 15-22.
18. Fardaei, M., Panjehshahin, M. R., Owji, A. A., and Vassei, M. (1998) Serotonin levels in plasma and platelets of cyclosporin A treated rats, *Iranian Journal of Medical Sciences* 23, 89-93.
19. Zhao, L., Al-Tubuly, R., Sebkhii, A., Owji, A. A., Nunez, D. J. R., and Wilkins, M. R. (1996) Angiotensin II receptor expression and inhibition in the chronically hypoxic rat lung, *British Journal of Pharmacology* 119, 1217-1222.
20. Owji, A. A., Gardiner, J. V., Upton, P. D., Mahmoodi, M., Ghatei, M. A., Bloom, S. R., and Smith, D. M. (1996) Characterisation and molecular identification of adrenomedullin binding sites in the rat spinal cord: A comparison with calcitonin gene-related peptide receptors, *Journal of Neurochemistry* 67, 2172-2179.
21. Coppock, H. A., Owji, A. A., Bloom, S. R., and Smith, D. M. (1996) A rat skeletal muscle cell line (L6) expresses specific adrenomedullin binding sites but activates adenylate cyclase via calcitonin gene-related peptide receptors, *Biochemical Journal* 318, 241-245.
22. Zhao, L., Brown, L. A., Owji, A. A., Nunez, D. J. R., Smith, D. M., Ghatei, M. A., Bloom, S. R., and Wilkins, M. R. (1996) Adrenomedullin activity in chronically hypoxic rat lungs, *American Journal of Physiology - Heart and Circulatory Physiology* 40.
23. Nandha, K. A., Taylor, G. M., Smith, D. M., Owji, A. A., Byfield, P. G. H., Ghatei, M. A., and Bloom, S. R. (1996) Specific adrenomedullin binding sites and hypotension in the rat systemic vascular bed, *Regulatory Peptides* 62, 145-151.
24. Owji, A. A., Smith, D. M., Coppock, H. A., Morgan, D. G. A., Bhogal, R., Ghatei, M. A., and Bloom, S. R. (1995) An abundant and specific binding site for the novel vasodilator adrenomedullin in the rat, *Endocrinology* 136, 2127-2134.
25. Wang, Z., Ren Ming, W., Owji, A. A., Smith, D. M., Ghatei, M. A., and Bloom, S. R. (1995) Glucagon-like peptide-1 is a physiological incretin in rat, *Journal of Clinical Investigation* 95, 417-421.
26. Bhogal, R., Smith, D. M., Owji, A. A., and Bloom, S. R. (1995) Binding sites for islet amyloid polypeptide in mammalian lung: Species variation and effects on adenylyl cyclase, *Canadian Journal of Physiology and Pharmacology* 73, 1030-1036.
27. Fardaei, M., Panjehshahin, M. R., Owji, A. A., and Vassei, M. (1994) Elevation of serotonin level in serum and platelets of rats with glycerol-induced acute renal failure, *Ir.J.Med.Sci.* 19, 101-105.

28. Zarrindast, M. R., Owji, A. A., and Hosseini-Nia, T. (1991) Evaluation of dopamine receptor involvement in rat feeding behaviour, *General Pharmacology* 22, 1011-1016.
29. Abdolrasulnia, R., and Owji, A. A. (1986) Partial purification and properties of Rhodanese from human placenta, *Ir.J.Med.Sci.* 13, 29-32.

Oral Presentations

Owji, A.A.,Zarrindast,M.R.1991. Effects of SKF 38393 and SCH 23390 on uptake and release of serotonin. The first congress of biochemistry Tehran I.R.Iran May 18th.

Owji, A.A., Smith,D.M., Morgan,D.G.A., Bhogal,R.,Ghatei,M.A.and Bloom,S.R.1994. Specific binding sites for the novel vasodilator adrenomedullin are expressed in mammalian lung. The Bayliss and Starling society, 14th annual meeting U.K 4th july.

Owji, A.A.,1996 Adrenomedullin is a novel hypotensive peptide. 9th international congress of geographic medicine.Shiraz.

Owji, A.A. Smith D.M. Ghatei M. and Bloom S.R. 1999 Adrenomedullin binding affinities and adenylyl cyclase activating effects in spleen and ventricle membranes of rats. 14th international congress of physiology and pharmacology Tehran. Iran.

Owji A.A., 1999 : Incretins; 12th international congress of geographic medicine.Shiraz. Iran.

Owji AA., Khoshdel Z., Sanea F., Panjehshahin M.R., Smith D.M., Copock H., ghatei M. and Bloom S.R. 2001: Effects of intracerebroventricular injection of glucagon like peptide-1 and its related peptides on levels of amino acids in the rat hypothalamus. 7th international congress of amino acids and peptides. Viena Austria