



## ORPHEUS EC member



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### ACADEMIC QUALIFICATIONS

1980-1986 – M.D., Hacettepe University, Faculty of Medicine, Ankara, Turkey

1987-1992 – Ph.D., Pharmacology, Hacettepe University, Institute of Health Sciences, Ankara, Turkey

1988-1991 – Research Associate, (French Government Scholarship ) INSERM U288 Pitié-Salpêtrière Faculty of Medicine, Paris, France.

1993-1995 – Post-Doctoral Research Fellow, Department of Pharmacology & Toxicology, Michigan State University, East Lansing, Michigan

### PROFESSIONAL EXPERIENCE

1995-1997 – Assistant Professor, Department of Pharmacology, Faculty of Medicine, Hacettepe University, Ankara, Turkey.

1997-2002 – Associate Professor, Department of Pharmacology, Faculty of Medicine, Hacettepe University, Ankara, Turkey.

2002-2003 – Visiting Associate Professor, Department of Pharmacology & Toxicology, Michigan State University, East Lansing, Michigan.

2003-2013 – Professor, Department of Pharmacology, Faculty of Medicine, Hacettepe University, Ankara, Turkey.

2013-present – Professor, Koc University School of Medicine, Istanbul, Turkey

### EXPERIENCE IN DOCTORAL EDUCATION

2004-2005 – Delegate for Hacettepe University, European Universities Association (EUA), Doctoral Programme Project, Network 3: Quality of Doctoral Programmes

2003-2012 – Director (Graduate School Dean), Graduate Studies Institute for Allied Health Sciences (Institute of Health Sciences), Hacettepe University, Ankara, Turkey.

2005-2007 – Member, Commission on Human Resources Development in Health Sciences, Subcommittee for graduate studies, Turkish Inter-University Council, Ankara, Turkey

### COMMITTEES & BOARDS

2015-present – Chairman, Institutional Review Boards, Koç University

2014-present – Chairman, Local Ethics Committee for Animal Experiments (IACUC), Koç University

2011-present – Member, UNESCO National Commission Bioethics Expert Committee

2007-present – Member, National Ethics Committee for Animal Experiments

2012-2013 – Deputy Director, Institute of Population Studies, Hacettepe University

2001-2013 – Head, Surgical Research and Laboratory Animals Breeding Unit, Faculty of Medicine, Hacettepe University, Ankara, Turkey.

2001-2004 – Member, Central Ethics Committee for Drug Investigations. Ministry of Health, Ankara, Turkey

## ACADEMIC AWARDS & DISTINCTIONS

1998 – Turkish Scientific and Technique Research Council (TUBITAK), Junior Scientist Award  
1987 – Sandoz (Novartis) Medicine Award  
2004-2009 – Treasurer & Council Member (elected), Turkish Pharmacological Society.

## MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

2015- Science Academy, Turkey (Member)  
2012- The Academy of Transdisciplinary Learning and Advanced Studies (Fellow)  
1997- American Physiological Society (Member)  
1997- International Brain research Organization (Member)  
1994- Society for Neuroscience (Member)  
1988- Turkish Pharmacological Association (Member)

## SELECTED PUBLICATIONS

- Barman S.M., Gebber G.L., **Orer H.S.** Medullary lateral tegmental field: an important source of basal sympathetic nerve discharge in the cat. *Am J Physiol Reg Integr Comp Physiol.* 2000;278: R995-R1004/
- Barman S.M., **Orer H.S.**, Gebber GL. The role of the medullary lateral tegmental field in the generation and baroreceptor reflex control of sympathetic nerve discharge in the cat. *Neuro-Cardiovascular Regulation: From Molecules to Man.* 2001;940:270-85.
- Orer H.S.**, Barman S.M., Gebber GL. Effects on sympathetic activity of 8- OHDPAT and clonidine in cat medullary lateral tegmental field. *Am J Physiol Heart Circ Physiol.* 2001;281:H613-22,
- Otcu S., Durakogugil M., **Orer H.S.**, Tanyel FC. Contralateral genitofemoral sympathetic nerve discharge increases following ipsilateral testicular torsion. *Urol Res* 2002;30:324-8.
- Barman SM, **Orer HS**, and Gebber GL. Differential effects of an NMDA and a non-NMDA receptor antagonist on medullary lateral tegmental field neurons. *Am J Physiol Reg Integr Comp Physiol.* 2002;282:R100-3.
- Barman S.M., Gebber G.L., **Orer H.S.** Sympathetic vasomotor tone - time to move beyond the Network Oscillator Hypothesis? Reply. *Am J Physiol Reg Integr Comp Physiol.* 2002;283:R1286-7.
- Orer H.S.**, Das M., Barman S.M., Gebber G.L. Fractal activity generated independently by medullary sympathetic premotor and preganglionic sympathetic neurons. *J Neurophysiol.* 2003;90:47-54.
- Orer H.S.**, Gebber G.L., Phillips S.W., Barman S.M. Role of the medullary lateral tegmental field in reflex-mediated sympathoexcitation in cats. *Am J Physiol Reg Integr Comp Physiol.* 2004;286:R451-64.
- Fadel PJ, **Orer HS**, Barman SM, Vongpatanasin W, Victor RG, Gebber GL. Fractal properties of human muscle sympathetic nerve activity. *Am J Physiol Heart Circ Physiol* 2004;286:H1076-87.
- Barman S.M., **Orer H.S.**, Gebber G.L. The role of the medullary lateral tegmental field in the control of sympathetic nerve discharge. In S. G. Pandalai (Ed.) *Recent Research Developments in Physiology* (Vol. 2). Kerala, India, 2004.
- Barman S.M., **Orer H.S.**, Gebber GL. Role of medullary excitatory amino acid receptors in mediating the 10-Hz rhythm in sympathetic nerve discharge of cats. *Brain Res.* 2005;1049:249-53.
- Firat MM, Gelebek V, **Orer HS**, Belen D, Firat AK, Balkanci F. Selective intra-arterial nimodipine treatment in an experimental subarachnoid haemorrhage model. *Am J Neuroradiol.* 2005;26:1357-62.
- Gebber GL, **Orer HS**, Barman SM. Fractal noises and motions in time series of presympathetic and sympathetic neural activities. *J Neurophysiol.* 2006; 95:1176-84.
- Orer HS**, Gebber GL, Barman SM. Medullary lateral tegmental field neurons influence the timing and pattern of phrenic nerve activity in cats. *Journal of Applied Physiology* 2006;101:521-530.
- Durakoglugil M.S., **Orer H.S.** Cannabinoid receptor activation in the nucleus tractus solitaries produces baroreflex-like responses in the rat. *Int J Biomed Sci.* 2008;4:229-237.
- Barman S.M., **Orer H.S.** Rostral ventrolateral medullary but not medullary lateral tegmental field neurons mediate sympatho-sympathetic reflexes in cats. *Am J Physiol Reg Integr Comp Physiol.* 2010;299:R1269-1278.
- Orer H.S.** An Overview of the Doctoral Education in Health Sciences in Turkey. *Turk J Biochem.* 2011;36:S35-S41.
- Darios E.S., Barman S.M., **Orer H.S.**, Morrison S.F., Davis R.P., Seitz B.M., Burnett R., Watts S. W. 5-Hydroxytryptamine does not reduce sympathetic nerve activity or neuroeffector function in the splanchnic circulation. *Eur J Pharmacol.* 2015;754:140-147.