

# CURRICULUM VITAE

## BIOGRAPHICAL SECTION

**Name:** MUSTAFA SERTAC YILMAZ

**Date of birth** 04.08.1973

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## EDUCATION

1998 **M.D.** Istanbul University Istanbul, Turkey  
Istanbul Medical College

2005 **Ph.D.** Uludag University Medical College, Bursa, Turkey  
Department of Pharmacology and  
Clinical Pharmacology

## APPOINTMENTS

2005 - 2007 **Post-doctoral fellow** Albany College of Pharmacy, New York,  
Department of Pharmaceutical U.S.A.  
Sciences

2007 - Current **Research Assistant** Albany College of Pharmacy, New York,  
**Professor** Department of Pharmaceutical U.S.A.  
Sciences

## RESEARCH INTERESTS

- Sepsis/Septic shock
- Myocardial ischemia-reperfusion
- Neuronal regulation of cardiovascular system
- Opiate addiction and toxicity
- Inflammation

## SOCIETY MEMBERSHIPS

01/1999 – Present	Turkish Medical Association
06/2001 – Present	Turkish Pharmacological Society
04/2006 – Present	Society for Neuroscience
02/2008 – Present	American Society for Pharmacology and Experimental Therapeutics (ASPET)

## ORGANIZATION OF NATIONAL/INTERNATIONAL CONFERENCES: ADMINISTRATIVE POSITIONS

2. National Congress of Neuroscience, Bursa, Turkey, April 2003	Secretary of Congress
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## BIBLIOGRAPHY: RESEARCH ARTICLES

- 1) Savci V, Goktalay G, Cansev M, Cavun S, **Yilmaz MS**, Ulus IH (2003) Intravenously injected CDP-choline increases blood pressure and reverses hypotension in haemorrhagic shock: effect is mediated by central cholinergic activation. *Eur J Pharmacol*, 468(2):129-139
- 2) Yalcin M, Cavun S, **Yilmaz MS**, Savci V (2005) The involvement of central cholinergic system in the pressor effect of intracerebroventricularly injected U-46619, a thromboxane A2 analog, in conscious normotensive rats. *Naunyn Schmiedeberg's Arch Pharmacol*, 372(1):31-40
- 3) Yalcin M, Cavun S, **Yilmaz MS**, Cengiz F, Savci V (2005) The involvement of brain thromboxane A2 in hypo tension induced by haemorrhage in rats. *Clin Exp Pharmacol Physiol*, 32(11):960-967
- 4) **Yilmaz MS**, Yalcin M, Savci V (2006) CDP-choline restores the blood flow of superior mesenteric and renal artery, prolongs the survival time in haemorrhaged anaesthetised rats. *Clin Exp Pharmacol Physiol*, 33:415-420
- 5) Yalcin M, Cavun S, **Yilmaz MS**, Savci V (2006) Activation of the central cholinergic system mediates the reversal of hypotension by centrally administered U-46619, a thromboxane A2 analog, in hemorrhaged rats. *Brain Res*. 1118(1):43-51
- 6) Cansev M, **Yilmaz MS**, Ilcol YO, Hamurtekin E, Ulus IH (2007) Cardiovascular effects of CDP-choline and its metabolites: involvement of peripheral autonomic nervous system. *Eur J Pharmacol*. 577:129-142
- 7) Ilcol YO, Cansev M, **Yilmaz MS**, Hamurtekin E, Ulus IH (2007) Intraperitoneal administration of CDP-choline and its cholinergic and pyrimidinergic metabolites induce hyperglycemia in rats: involvement of the sympathoadrenal system. *Arch Physiol Biochem*. 113(4/5):186-201
- 8) Ilcol YO, Cansev M, **Yilmaz MS**, Hamurtekin E, Ulus IH (2008) Peripheral administration of CDP-choline and its cholinergic metabolites increases serum insulin: peripheral muscarinic and nicotinic acetylcholine receptors are both involved in its action. *Neurosci Lett*. 431(1):71-76
- 9) Cansev M, Ilcol YO, **Yilmaz MS**, Hamurtekin E, Ulus IH (2008) Peripheral administration of CDP-choline, phosphocholine or choline increases plasma

adrenaline and noradrenaline concentrations. *Autonomic and Autacoid Pharmacology*. 28:41-58

**10) Yilmaz MS**, Millington WR, Feleder C (2008) The preoptic anterior hypothalamic area mediates initiation of the hypotensive response induced by lipopolysaccharide in male rats. *Shock*. 29(2):232-237

**11) Yilmaz MS**, Coskun C, Yalcin M, Mutlu D, Savci V (2008) Hypotensive effects of intravenously administered uridine and cytidine in conscious rats: the involvement of adenosine receptors. *Eur J Pharmacol*. 584:125-136

**12) Yilmaz MS**, Coskun C, Yalcin M, Savci V (in press) The protective effect of CDP-choline in short term myocardial ischemia reperfusion injury in rats is mediated by central cholinergic muscarinic activation. *Naunyn Schmiedeberg's Arch Pharmacol*.

**13) Cansev M**, Ilcol YO, **Yilmaz MS**, Hamurtekin E, Ulus IH (in press) Choline, CDP-choline or phosphocholine increases plasma glucagon in rats: involvement of the peripheral autonomic nervous system. *Eur J Pharmacol*.

**14) Yilmaz MS**, Goktalay G, Millington WR, Myer BS, Cutrera RA, Feleder C (submitted) Lipopolysaccharide-induced hypotension is mediated by a neural pathway involving the vagus nerve, the nucleus tractus solitarius and alpha-adrenergic receptors in the preoptic anterior hypothalamic area.

#### BIBLIOGRAPHY: PRESENTATIONS

**1) Gurun MS**, Genc Z, Koseler A, **Yilmaz MS**, Ulus IH (2002). The effect of periferic administration of choline on blood glucose and plasma glucagon levels in rats : Description of the mechanisms. 1. *National Neuroscience Congress, Eskisehir, Turkey*

**2) Yilmaz MS**, Cansev M, Ilcol YO, Ulus IH (2002). Cardiovascular and metabolic-endocrine effects of intraperitoneally injected choline. 1. *National Neuroscience Congress, Eskisehir, Turkey*

**3) Cansev M**, **Yilmaz MS**, Ilcol YO, Ulus IH (2002). Cardiovascular and metabolic-endocrine effects of intraperitoneally injected CDP-choline. 1. *National Neuroscience Congress, Eskisehir, Turkey*

**4) Yilmaz MS**, Hamurtekin E, Cansev M, Ulus IH (2003). Effects of CDP-choline and its hydrolysis products on blood pressure and the role of sympathoadrenal system in the effect. 2. *National Neuroscience Congress, Bursa, Turkey*

**5) Hamurtekin E**, Cansev M, **Yilmaz MS**, Ulus IH (2003). Effects of CDP-choline and its hydrolysis products on serum glucose levels: the role of sympathoadrenal system. 2. *National Neuroscience Congress, Bursa, Turkey*

**6) Cansev M**, **Yilmaz MS**, Hamurtekin E, Ulus IH (2003). Neuroendocrine effects of CDP-choline and its hydrolysis products: changes in plasma insulin, glucagon and catecholamine levels. 2. *National Neuroscience Congress, Bursa, Turkey*

**7) Yilmaz MS**, Savci V, Ulus IH (2003) Effects of CDP-choline on arteria

mesenterica superior and arteria renalis perfusions in haemorrhagic shock. 17. *National Pharmacology Congress, Antalya, Turkey*

**8)** Cansev M, **Yilmaz MS**, Hamurtekin E, Ulus IH (2003) Cardiovascular effects of CDP-choline and its hydrolysis products: Investigating the mechanisms of action. 17. *National Pharmacology Congress, Antalya, Turkey*

**9)** Hamurtekin E, Cansev M, **Yilmaz MS**, Ulus IH (2004) Effects of CDP-choline and its endogenous metabolites on plasma catecholamine response to graded hemorrhage in rats. 3. *National Neuroscience Congress, Denizli, Turkey*

**10)** **Yilmaz MS**, Cansev M, Hamurtekin E, Ulus IH (2004) Effects of CDP-choline and its endogenous metabolites on plasma vasopressin response to graded hemorrhage in rats. 3. *National Neuroscience Congress, Denizli, Turkey*

**11)** **Yilmaz MS**, Mutlu D, Cansev M, Yalcin M, Savcı V (2005) Cardiovascular effects of intravenously injected uridine and cytidine: The role of adenosine receptors. 18. *National Pharmacology Congress, Izmir, Turkey*

**12)** Savcı V, **Yilmaz MS**, Yalcin M, Coskun C (2006) The protective effect of CDP-choline in short term myocardial ischemia-reperfusion injury in rats is mediated by central cholinergic muscarinic activation. *Society for Neuroscience 2006 Congress, Atlanta, GA, U.S.A*

**13)** Feleder C, **Yilmaz MS**, Goktalay G, Millington WR (2006) Evidence that activation of the vagus nerve initiates the fall in arterial pressure evoked by low, but not high, dose lipopolysaccharide. *Society for Neuroscience 2006 Congress, Atlanta, GA, U.S.A*

**14)** **Yilmaz MS**, Goktalay G, Millington WR, Feleder C (2006) Evidence that the Preoptic Anterior Hypothalamic Area plays a role in lipopolysaccharide induced hypotension. *Society for Neuroscience 2006 Congress, Atlanta, GA, U.S.A*

**15)** Marlow J, **Yilmaz MS**, Millington WR, Feleder C (2008) A Neural route signals the brain in endotoxic hypotension: Role of the vagus nerve and  $\alpha$ -adrenoceptors in the preoptic anterior hypothalamic area. *Experimental Biology Meeting 2008, San Diego, CA, U.S.A.*

**16)** **Yilmaz MS**, Myer BS, Feleder, Millington WR (2008) Blockade of  $\alpha$ -adrenergic receptors in the preoptic area/anterior hypothalamus prevents lipopolysaccharide evoked hypotension. *Experimental Biology Meeting 2008, San Diego, CA, U.S.A.*

## **BIBLIOGRAPHY: RESEARCH SUPPORT**

\* **Uludag University Research Foundation 2003/30** (3/20/2003-3/20/2006)

The effects of cytidine and its nucleotides on cardiovascular parameters, tissue perfusion and survival rates. (P.I. : Prof. Dr. Vahide Savcı)

Role: Co-investigator

Total Amount: 50.000 Euro

## BIBLIOGRAPHY: TRAINEES

- \* **Jessica Phelps** Albany College of Pharmacy Undergraduate Research Credit, 2007-2008
- \* **John Cosmello** Albany College of Pharmacy Undergraduate Research Credit, 2007-2008
- \* **Joshua Marlow** Albany College of Pharmacy Undergraduate Research Credit, 2007-2008
- \* **Alex Villeneuve** Albany College of Pharmacy Undergraduate Research Credit, 2007-2008
- \* **Patel Priyanki** Albany College of Pharmacy Undergraduate Research Credit, 2007-2008
- \* **Brian S Myer** Albany College of Pharmacy Undergraduate Research Credit, 2006-2007
- \* **Diana Khalil** Albany College of Pharmacy Undergraduate Research Credit, 2006-2007
- \* **Emilia Smal** Albany College of Pharmacy Undergraduate Research Credit, 2006-2007

## REFERENCES

- \* **Vahide Savci**, Uludag University School of Medicine, Department of Pharmacology and Clinical Pharmacology, Bursa, 16059, Turkey  
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