

CURRICULUM VITAE

SYLVIA CECHOVA

Department of Chemistry
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EDUCATION

- Ph.D. in Chemistry, Comenius University, School of Sciences, Bratislava, Slovakia 1991
Dissertation: Nitrobenzene radiolysis products in two-liquid extraction systems (in Slovak)
Advisor: Fedor Macasek
- M.Sc. in Chemistry, Comenius University, School of Sciences, Bratislava, Slovakia 1985
Thesis: Nitrophenols and nitrosophenols as a product of radiolysis in two phase systems nitrobenzene-water (in Slovak)
Adviser: Fedor Macasek

APPOINTMENTS

- Research Associate, Department of Chemistry, University of Virginia, Charlottesville, Virginia, September 2005- present
- Instructor of Research, Department of Anesthesiology, University of Virginia Heath Sciences Center, Charlottesville, Virginia, September 2002 – September 2005
- Research Associate, Department of Anesthesiology, University of Virginia Heath Sciences Center, Charlottesville, Virginia, August 1996 – August 2002
- Clinical Research Assistant, McGuire Veterans Affairs Medical Center, Richmond, Virginia, January - August 1996
- Assistant Professor, Comenius University, School of Natural Sciences, Bratislava, Slovakia, 1985 – 1993

ACADEMIC AWARDS

The award of the Minister of education of the Slovak Republic for excellent results in university studies and the outstanding scientific and research work, 1985

PROFESSIONAL MEMBERSHIPS

American Chemical Society

Society for Neuroscience

Slovak Chemical Society at Slovak Academic of Sciences 1985-1993

PUBLICATIONS

Cechova S, Venton BJ: Transient adenosine efflux follows dopamine neuron stimulation in rat caudate-putamen: Submitted to Journal of Neuroscience, July 2007

Cechova S, Zuo Z: Inhibition of glutamate transporters increases the minimum alveolar concentration for isoflurane in rats: Br. J. Anaesth.: 97(2): 192-195, 2006

Cechova S, Pajewski TN: The soluble guanylyl cyclase inhibitor ODQ, 1H-[1,2,4]oxadiazolo[4,3,-a]quinoxalin-1-one, dose-dependently reduces the threshold for isoflurane anesthesia: Anesth Analgesia: 99(3): 752-757, 2004

Choudhury I, Schenck HA, **Cechova S**, Pajewski TN, Kapur J, Ellena J, Cafiso DS, Brown ML: Design, synthesis and evaluation of novel analogues of 3,3,3-trifluoro-2-hydroxy-2-phenyl-propionamide as orally available general anesthetics: J Med Chem: 46(12); 2494-2501, 2003

Cechova S, Choudhury IM, Brown ML, Pajewski TN: Novel Phenylamide Analogs Reduce The Threshold For Isoflurane Anesthesia In The Rat. Anesthesia and Analgesia 94: S270, 2002

Tsou MY, **Cechova S**, Yeaton P, Pajewski TN: Effect Of Lidocaine Pretreatment In Preventing The Induction Of Acute Necrotizing Pancreatitis In The Rat. Anesthesiology 93(3A): A134, 2000

Blank RA, **Cechova S**, Pajewski TN: Lidocaine Dose-Dependently Decreases The Threshold For Isoflurane Anesthesia In The Rat. Anesthesia and Analgesia 90(2): S394, 1999

Kovach D, **Cechova S**, Pajewski TN: Magnesium Potentiates Ketamine-Induced Changes In The Threshold For Isoflurane Anesthesia In The Rat. Anesthesia and Analgesia 88(2): S 354, 1999

Pajewski TN, **Cechova S**, Johns RA: The Soluble Guanylyl Cyclase Inhibitor ODQ, 1H-[1,2,4]Oxadiazolo[4,3,-A]Quinoxalin-1-One, Dose-Dependently Reduces The Threshold For Isoflurane Anesthesia. Anesthesiology 89(3A): U755, A800, 1998

Pajewski TN, **Cechova S**, Johns RA: The Soluble Guanylyl Cyclase Inhibitor ODQ, 1H-[1,2,4]Oxadiazolo[4,3,-A]Quinoxalin-1-One, Dose-Dependently Reduces The Threshold For Isoflurane Anesthesia. J Neurosurg Anesth 10(4): 1105, 1998

Pajewski TN, **Cechova S**: The Neuronally-Selective Nitric Oxide Synthase Inhibitor 7-Nitro Indazole and Ketamine Inhibit NMDA-Stimulated In Vivo Cyclic GMP Production In Rat Cerebellum. *Anesthesiology* 87: A666, 1997

Cechova S, Macasek F: Solvent extraction of Niobium cations with products of the Nitrobenzene radiolysis: *J. Radioanal. Nucl. Chem., Articles*, 149(2): 281-286, 1991

Matel L, Rajec P, **Cechova S**: Assessment of ⁹⁰Sr and alfa surface activity. Report VC-358-24/89, Comenius University Faculty of Sciences, Bratislava, 1989

Cechova S, Macasek F, Cech R: Radiation yields of phenol derivatives in nitrobenzene–water systems: *Radiat. Phys. Chem.*, 30, 119-123, 1987

Cefova (Cechova) S, Rajec P: Separation and analysis of nitrophenols isomers by capillary isotachopheresis: *J. Radioanal. Nucl. Chem., Articles*, 101(1): 17-19, 1986

Cefova (Cechova) S, Macasek F, Cech R: Two-Phase formation of nitrophenols at the radiolysis of nitrobenzene-water emulsions: *J. Radioanal. Nucl. Chem., Articles*, 103(5): 305-312, 1986.

CONFERENCE PRESENTATIONS

Cechova S, Venton BJ: Transient release of adenosine detected by fast-scan voltammetry: Society for Neuroscience Meeting, San Diego, CA, November 2007

Venton BJ, **Cechova S**: Real-time measurement of adenosine in vivo using carbon-fiber microelectrodes: Southeast Regional Meeting of American Chemical Society, Greenville, SC, October 2007

Lee Y. Yian, **Cechova S**, Bazemore-Walker CR: Development and optimization of a sensitive ELISA to measure monocyte chemoattractant protein-1 (MCP-1) in mouse urine: The American Chemical Society, undergraduate research poster session, Charlottesville, April 14, 2006

Schenk HA, **Cechova S**, Pajewski TN, Stables JP, Brown ML: Design, synthesis, and discovery of hydroxyamides as orally available general anesthetics and anticonvulsants: National Organic Symposium, Bloomington, Indiana, June 2003

Schenk HA, **Cechova S**, Pajewski TN, Stables JP, Brown ML: Design, synthesis, and discovery of hydroxyamides as orally available general anesthetics and anticonvulsants: Abstract of papers of The American Chemical Society, 225: U 211, 213 Med Part, March 2003

Cechova S, Pajewski TN: Acute Phenytoin Administration Dose-Dependently Decreases The Threshold of Isoflurane Anesthesia In The Rat. American Society of Anesthesiologists Annual Meeting, Orlando, FL, 2002

Cechova S, Macasek F: Proceedings of the 4th International Conference on the Separation of ionic solutes (SIS 91) – Smolenice (Czechoslovakia), December 9-13, 1991, *J Radioanal Nucl Chem Article* 163(1): 9-9, 1992

Cechova S, Macasek F, Cech, R: "Gross and Radiation Yields of Phenol Derivatives In Nitrobenzene Systems With Aqueous Phase And Its Use For Extraction of Niobium." In: Proc. Int. Solvent Extr. Conf. ISEC '88, v.IV, p.165, USSR, Academy of Science, Moscow.