

Scientific Papers

Korpáš, J.: Mechanoreception of the respiratory tract in rats. *Physiologia Bohemoslovaca* 1970; 19: 403-407.

Korpáš, J. Hanáček, J. Plank, J.: Influence of experimental pleurisy on the character of reflex from mechanoreceptors of the rat respiratory tract. *Physiologia Bohemoslovaca* 1970; 19:409-413.

Korpáš, J. Giačová, D. Plank, J.: Respiratory reflex changes in the rat after toxic injury of the lungs with croton and turpentine oil. *Physiologia Bohemoslovaca* 1970; 19:413-416.

Korpáš, J. Giačová, D.: Effect of codeine in the aspiration reflex of the rat. *Physiologia Bohemoslovaca* 1971; 20:611-615.

Korpáš, J. Gajdoš, E.: Effect of cold on the aspiration reflex. *Physiologia Bohemoslovaca* 1971; 20: 617-622.

Korpáš, J. Giačová, D. Plank, J. Buranský, J.: Effect of Staphylococcus aureus on respiratory reflexes of the rat. *Physiologia Bohemoslovaca* 1972; 21:381-386.

Korpáš, J. Tatár, M.: The expiration reflex from the vocal folds of the rat. *Physiologia Bohemoslovaca* 1972; 21:667-670

Korpáš, J.: Expiration reflex from the vocal folds. *Physiologia Bohemoslovaca* 1972; 21:671-675.

Korpáš, J.: Differentiation of the expiration and the cough reflex. *Physiologia Bohemoslovaca* 1972; 21:677-680.

Korpáš, J. Kalocsayová, G.: Mechanoreception of the cat respiratory tract on the first days of postnatal life. *Physiologia Bohemoslovaca* 1973; 22:365-373.

Korpáš, J. Kalocsayová, G.: The expiration reflex from the vocal folds of the rabbit. *Physiologia Bohemoslovaca* 1974; 23:333-340.

Korpáš, J. Kalocsayová, G.: The expiration reflex in the mouse. *Physiologia Bohemoslovaca* 1975; 24: 253-256.

Korpáš, J. Tatár, M.: The expiration reflex during ontogenesis in the rat. *Physiologia Bohemoslovaca* 1975:257-261.

Korpáš, J. Nosáľová, G. Strapková, A.: Effect of silomat and medazonamide on cough. *Physiologia Bohemoslovaca* 1975; 24:447-448.

Korpáš, J. Mišík, A. Kalocsayová, G.: The expiration reflex during pathological conditions in men. *Clinical Respiratory Physiology* 1975; 11:107-109.

Korpáš, J. Nosáľová, G. Widdicombe, J.G : The antitussive actions of the drug Ru 20201 given as an aerosol to cats. *Journal of Pharmacy and Pharmacology* 1978; 30:563-565.

Hanáček, J. Porubanová, M. Korec, L. Beseda, A.: Cough reflex changes in local tracheitis. *Physiologia Bohemoslovaca* 1979; 27:375-380.

Tatár, M. Korpáš, J.: Effect of Experimental Hydrothorax on the Cough Reflex in Conscious Cats. *Physiologia Bohemoslovaca* 1979; 28:411-417.

Poláček, H. Korpáš, J.: Circadian changes in cough in the cat. *Physiologia Bohemoslovaca* 1981; 30: 281-284.

Korpáš, J. Widdicombe, J.G : Defensive respiratory reflexes in ferrets. *Respiration* 1983; 44:128-135.

Hanáček, J. Davies, A. Widdicombe, J.G: Influence of lung stretch receptors on the cough reflex in rabbits. *Respiration* 1984; 45:161-168.

Bánovčín, P. Višňovský, P. **Korpáš, J. Hanáček, J.:** Reactivity of cat tracheal smooth muscle to histamine under conditions of experimentally induced inflammation. *Respiration* 1985; 48:103-107.

Tatár, M. Korpáš, J. Poláček, H. Záhradný, V. I: Effect of hypoxia on respiratory defence reflexes. Effects of thirty hours oxygen deficiency on cough, the expiration reflex and sneezing in awake cats. *Physiologia Bohemoslovaca* 1985; 34:41-48.

Tatár, M. Korpáš, J. Poláček, H. Záhradný, V.: Changes Induced by Severe Hypoxia in Respiratory Defence Reflexes in Anaesthetized Cats. *Respiration* 1986; 49:114-121.

Bánovčín, P. Višňovský, P. **Hanáček, J. Korpáš, J.:** Influence of experimentally induced airway inflammation on the reactivity of cat lung parenchymal strips to histamine and acetylcholine. *Respiration* 1987; 51:1-9.

Korpáš, J.: Recent advances concerning the cough reflex. *Acta Physiologica Hungarica* 1987; 70:161-165.

Bánovčín, P. Višňovský, P. **Korpáš, J.:** Pharmacological analysis of reactivity changes in airways due to acute inflammation in cats. *Acta Physiologica Hungarica* 1987; 70:181-187.

Korpáš, J. Sadloňová, J. Salát, D. Masárová, E.: The Origin of cough sounds. *Clinical Respiratory Physiology* 1987; 23:47-50.

Debreczeni, L. A. **Korpáš, J.** Salát, D.: Spectral analysis of cough sounds recorded with and without a nose clip. *Clinical Respiratory Physiology* 1987; 23:57-61.

Korpáš, J. Kelemen, S.: Tussiphonographic analysis of cough sound recordings performed by Schmidt-Voigt and Hirschberg and Szende. *Acta Physiologica Hungarica* 1987; 70:167-170.

Poláček, H. Votava, F. **Korpáš, J. Tatár, M.:** Measurement of airway resistance in awake cats. *Acta Physiologica Hungarica* 1987; 70:177-180.

Tatár, M. Tarkanov, I.A. **Korpáš, J.** Kulik, A. M: Effect of Hypoxia and Hypercapnia on the Airways Defence Reflexes. *Acta Physiologica Hungarica* 1987; 70:195-200.

Višňovský, P. Bánovčín, P. **Korpáš, J.:** Age- and body-weight dependent changes in the reactivity to histamine of the airways smooth muscles in cats. *Acta Physiologica Hungarica* 1987; 70:201-206.

Strapková, A. Nosálová, G. **Korpáš, J.:** Effects of antitussive drugs under normal and pathological conditions. *Acta Physiologica Hungarica* 1987; 70:207-213.

Salát, D. **Korpáš, J.** Salátová, V. Sadloňová, J. Paleček, D.: The Tusiphonogram during asthmatic affect. *Acta Physiologica Hungarica* 1987; 70:223-225.

Hanáček, J.: Influence of sulphur dioxide breathing on defensive reflexes of the airways. *Acta Physiologica Hungarica* 1987; 70:227-233.

Kulik, A. M. **Giačová, D. Korpáš, J.** Tarakanov, I.A. Guljan, V.M.: Elektrophysiological estimation of the

intensity of defensive respiratory reflexes. *Bjul exp. biol. med.* 1987; 54:5-8.

Tatár, M. Webber, S.E. Widdicombe, J.G.: Lung C-Fibre Receptor Activation and Defensive Reflexes in Anaesthetized Cats. *Journal of Physiology- London* 1988; 402:411-420.

Poláček, H. Korpáš, J. Tatár, M. Plank, L. Pullmann, R.: Study of cough in anaesthetized cats with experimental pulmonary oedema. *Physiologia Bohemoslovaca* 1988; 35:481-489.

Bánovčín, P. Višňovský, P. **Hanáček, J.** Plank, L. **Korpáš, J.**: Effects of atropine, acetylsalicylic acid, FPL 55712, and phentolamine on increased histamine responsiveness of cat lung strips under conditions of airway inflammation. *European Respiratory Journal* 1989; 2:516-521.

Nosálová, G. Strapková, A. **Korpáš, J.** Crisculo, D.: Objective assessment of cough suppressants under normal and pathological experimental conditions. *Drugs under Experimental and Clinical Research* 1989; 15:77-81.

Debreczeni, L. A. **Korpáš, J.** Salát, D. Sadloňová, J. Vértes, C. Masárová, E. Kavcová, E.: Spectra of the voluntary first cough sounds. *Acta Physiologica Hungarica* 1990; 75:117-131.

Nosálová, G. Strapková, A. **Korpáš, J.**: Relationship between the antitussic and analgesic activity of substances. *Acta Physiologica Hungarica* 1991; 77:173-178.

Tatár, M. Nagyová, B. Widdicombe, J.G: Veratrine-Induced Reflexes and Cough. *Respiratory Medicine* 1991; 85(suppl. A):51-55.

Hanáček, J. Adamicová, K. **Brieštenská, J. Jankovska, D.**: Cough reflex in rabbits 24 h and 48 h after sulphur dioxide breathing. *Acta Physiologica Hungarica* 1991; 77:179-185.

Korpáš, J. Widdicombe, J.G: Aspects of the cough reflex. *Respiratory Medicine* 1991; 85:3-5.

Korpáš, J. Widdicombe, J.G. **Vrabec, M.**: Influence of simulated mucus on cough sounds in cats. *Respiratory Medicine* 1993; 87:49-54.

Korpáš, J. Widdicombe, J.G. **Vrabec, M.** Kudlička, J.: Effect of experimental lung oedema on cough sound creation. *Respiratory Medicine* 1993; 87:55-59.

Tatár, M. Sant'Ambrogio, G. Sant'Ambrogio, F.B.: Laryngeal and tracheobronchial cough in anaesthetized dogs. *Journal of Applied Physiology* 1994; 76:2672-2679.

Nagyová, B. Dorrington, K.L. Robbins, P.A.: Effect of low-dose enflurane on the ventilatory response to hypoxia in humans. *British Journal of Anaesthesia* 1994; 72:509-514.

O'Neill, M. Vejlsrup, N.G. **Nagyová, B.** Dorrington, K.L.: Dependence of pulmonary venous admixture on inspired oxygen fraction and time during regional hypoxia in the rabbit. *British Journal of Anaesthesia* 1995; 75:603-609.

Nagyová, B. Dorrington, K.L. Gill, E.W. Robbins, P.A.: Comparison of the effects of sub-hypnotic concentrations of propofol and halothane on the acute ventilatory response to hypoxia. *British Journal of Anaesthesia* 1995; 75:713-718.

Sadloňová, J. **Korpáš, J.** Žucha, J. **Vrabec, M.**: Cough sounds changes after application of magnetotherapy. *Acta Physiologica Hungarica* 1996; 83:117-121.

Korpáš, J. Sadloňová, J. **Vrabec, M.**: Analysis of the cough sound: an overview. *Pulmonary Pharmacology* 1996; 9:261-268.

Hanáček, J. Brozmanová, M. Tatár, M. Čaderová, D. Strapková, A. Szépe, P.: Effects of Long Term High Oxygen Concentration Breathing on Defensive Respiratory Reflexes in Guinea-pigs. *Pulmonary Pharmacology* 1996; 9:367-368.

Tatár, M. Čaderová, D. Péčová, R. Brozmanová, M.: The role of partial laryngeal denervation on the cough reflex in awake guinea-pigs, rats, and rabbits. *Pulmonary Pharmacology* 1996; 9:371-372.

Korpáš, J. Galgóczy, G.: Pollutants and airway receptors - pathophysiological aspects. *Pathophysiology* 1996; 3:5-9.

Korpáš, J. Honda, Y.: Aspects of airway defence mechanisms. *Pathophysiology* 1996; 3:81-86.

Korpáš, J. Jakuš, J.: The expiration reflex from the vocal folds. *Acta Physiologica Hungarica* 2000; 87:201-215.

Hanáček, J.: Reflex inputs to cough. *European Respiratory Review* 2002; 12:259-263.

Brozmanová, M. Hanáček, J. Tatár, M. Strapková, A. Szépe, P.: Effects of hyperoxia and allergic airway inflammation on cough reflex intensity in guinea pigs. *Physiological Research* 2002; 51:529-536.

Kollárik, M. Udem, B.J.: Mechanisms of acid-induced activation of airway afferent nerve fibres in guinea-pig. *Journal of Physiology- London* 2002; 543:591-600.

Udem, B.J. **Kollárik, M.:** Characterization of the vanilloid receptor 1 antagonist Iodo-resiniferatoxin on the afferent and efferent function of vagal sensory C-Fibers. *Journal of Pharmacology and Experimental Therapeutics* 2002; 303:716-722.

Hanáček, J.:

Tatár, M. Čaderová, D. Péčová, R. Kollárik, M. Plevková, J. Brozmanová, M.: Experimental modulation of the cough reflex. *European Respiratory Review* 2002; 12:264-269.

Udem, B.J. Carr, M. J. **Kollárik, M.:** Physiology and plasticity of putative cough fibres in the guinea pig. *Pulmonary Pharmacology and Therapeutics* 2002; 15:193-198.

Carr, M. J. **Kollárik, M. Meeker, S.N. Udem, B.J.:** A role for TRPV1 in bradykinin-induced excitation of vagal airway afferent nerve terminals. *Journal of Pharmacology and Experimental Therapeutics* 2003; 304:1275-1279.

Kollárik, M. Dinh, T. Q. Fischer, A. Udem, B.J.: Capsaicin-sensitive and -insensitive vagal bronchopulmonary C-fibres in the mouse. *Journal of Physiology- London* 2003; 551:869-879.

Péčová, R. Frličková, Z. Péč, J. Tatár, M.: Cough sensitivity in atopic dermatitis. *Pulmonary Pharmacology and Therapeutics* 2003; 16:203-206.

Péčová, R. Frličková, Z. Péč, J. Tatár, M.: Cough sensitivity in localized scleroderma with no clinical symptoms from lower airways. *Journal of Physiology and Pharmacology* 2003; 54(suppl. 1):25-28.

Korpáš, J. Vrabec, M. Sadloňová, J. Salát, D. Debreczeni, L. A.: Analysis of the cough sound frequency in adults and children with bronchial asthma. *Acta Physiologica Hungarica* 2003; 90:27-34.

Sadloňová, J. **Korpáš, J. Salát, D. Miko, L. Kudlička, J.:** The effect of the pulsatile electromagnetic field in children suffering from bronchial asthma. *Acta Physiologica Hungarica* 2003; 90:327-334.

Plevková, J. Kollárik, M. Brozmanová, M. Revallo, M. Varechová, S. Tatár, M.: Modulation of

experimentally-induced cough by stimulation of nasal mucosa in cats and guinea pigs. *Respiratory Physiology & Neurobiology* 2004; 142:225-235.

Brozmanová, M. Čalkovský, V. Plevková, J. Tatár, M.: Effects of inhaled corticosteroids on cough in awake guinea pigs with experimental allergic rhinitis - the first experience. *Journal of Physiology and Pharmacology* 2004; 55(suppl. 3):23-30.

Plevková, J. Brozmanová, M. Péčová, R. Tatár, M.: Effects of intranasal capsaicin challenge on cough reflex in healthy human volunteers. *Journal of Physiology and Pharmacology* 2004; 55(suppl. 3):101-106.

Korpáš, J. Vrabec, M. Sadloňová, J. Javorka, M. Javorková, N.: Single, double and multi cough sound differentiation. *Acta Physiologica Hungarica* 2005; 92:203-209.

Brozmanová, M. Plevková, J. Bartoš, V. Plank, L. Tatár, M.: Antileukotriene treatment and allergic rhinitis - related cough in guinea pigs. *Journal of Physiology and Pharmacology* 2005; 56(Suppl. 4):21-30.

Péčová, R. Vrlík, M. Tatár, M.: Cough sensitivity in allergic rhinitis. *Journal of Physiology and Pharmacology* 2005; 56(Suppl. 4):171-178.

Plevková, J. Brozmanová, M. Péčová, R. Tatár, M.: Effects of intranasal histamine on the cough reflex in subjects with allergic rhinitis. *Journal of Physiology and Pharmacology* 2005; 56(Suppl. 4):185-195.

Tatár, M. Petrisková, J. Žucha, J. Péčová, R. Huťka, Z. Raffajová, J. Brozmanová, M.: Induced sputum eosinophils, bronchial reactivity, and cough sensitivity in subjects with allergic rhinitis. *Journal of Physiology and Pharmacology* 2005; 56(Suppl. 4):227-236.

Plevková, J. Brozmanová, M. Péčová, R. Tatár, M.: The effects of nasal histamine challenge on cough reflex in healthy volunteers. *Pulmonary Pharmacology and Therapeutics* 2006; 19:120-127.

Brozmanová, M. Plevková, J. Bartoš, V. Plank, L. Javorka, M. Tatár, M.: The interaction of dietary antioxidant vitamins and oxidative stress on cough reflex in guinea-pigs after long term oxygen therapy. *Journal of Physiology and Pharmacology* 2006; 57(Suppl. 4):45-54.

Javorková, N. Brozmanová, M. Hajtmanová, E. Zámečník, L. Bartoš, V. Plank, L. Javorka, M. Hanáček, J. Tatár, M.: Effects of thorax irradiation on citric acid-induced cough in guinea pigs. *Journal of Physiology and Pharmacology* 2006; 57(Suppl. 4):149-156.

Javorková, N. Hajtmanová, E. Kostková, L. Zámečník, L. Péčová, R. Hanáček, J. Tatár, M.: Changes of cough reflex sensitivity induced by cancer radiotherapy of chest and neck regions. *Journal of Physiology and Pharmacology* 2006; 57(Suppl. 4):157-163.

Plevková, J. Varechová, S. Brozmanová, M. Tatár, M.: Testing of cough reflex sensitivity in children suffering from allergic rhinitis and common cold. *Journal of Physiology and Pharmacology* 2006; 57(Suppl. 4):289-296.

Varechová, S. Plevková, J. Javorka, M. Hanáček, J.: Reliability of the capsaicin cough reflex sensitivity test in healthy children. *Journal of Physiology and Pharmacology* 2006; 57(Suppl. 4):365-373.

Brozmanová, M. Čalkovský, V. Plevková, J. Bartoš, V. Plank, L. Tatár, M.: Early and late allergic phase related cough response in sensitized guinea pigs with experimental allergic rhinitis. *Physiological Research* 2006; 55:578-584.

Hanáček, J. Tatár, M. Widdicombe, J.G.: Regulation of cough by secondary sensory inputs. *Respiratory Physiology & Neurobiology* 2006; 152:282-297.

Brozmanová, M. Bartoš, V. Plank, L. **Tatár, M.**: Experimental allergic rhinitis-related cough and airway eosinophilia in sensitized guinea pigs. *Journal of Physiology and Pharmacology* 2007; 58(suppl. 5):57-65.

Brozmanová, M. Javorková, N. Hajtmanová, E. Zámečník, L. Javorka, M. **Hanáček, J. Tatár, M.**: Influence of chest gamma-irradiation on cough response in awake guinea pigs. *Journal of Physiology and Pharmacology* 2007; 58(suppl. 5):67-74.

Brozmanová, M. Plevková, J. Bartoš, V. Plank, L. Javorka, M. Masár, J. **Tatár, M.**: Oral N-acetylcysteine reverses hyperoxia-related cough suppression in guinea pigs. *Journal of Physiology and Pharmacology* 2007; 58(suppl. 5):75-84.

Pěčová, R. Javorková, N. Kudlička, J. **Tatár, M.**: Tussigenic agents in the measurement of cough reflex sensitivity. *Journal of Physiology and Pharmacology* 2007; 58(suppl. 5):531-538.

Varechová, S. Ďurdík, P. Červenková, V. Čiljaková, M. Bánovčín, P. **Hanáček, J.**: The influence of autonomic neuropathy on cough reflex sensitivity in children with diabetes mellitus type 1. *Journal of Physiology and Pharmacology* 2007; 58(suppl. 5):705-715.

Varechová, S. Mikler, J. Murgaš, D. Dragula, M. Bánovčín, P. **Hanáček, J.**: Cough reflex sensitivity in children with suspected and confirmed gastroesophageal reflux disease. *Journal of Physiology and Pharmacology* 2007; 58(suppl. 5):717-727.

Morice, A. H. Fontana, G. A. Belvisi, M.G. Birring, S. S. Chung, K. F. Dicpinigaitis, P. V. Kastelik, J. A. McGarvey, L. P. Smith, J. A. **Tatár, M.** Widdicombe, J.G.: ERS guidelines on the assessment of cough. *European Respiratory Journal* 2007; 29:1256-1276.

Tatár, M. Hanáček, J. Widdicombe, J.G.: The expiration reflex from the trachea and bronchi. *European Respiratory Journal* 2008; 31:385-390.

Brozmanová, M. Plevková, J. Tatár, M. Kollárik, M.: Cough reflex sensitivity is increased in the guinea pig model of allergic rhinitis. *Journal of Physiology and Pharmacology* 2008; 59(suppl. 6):153-161.

Čalkovská, A. Engler, I. Mokrý, D. Drgová, A. Sivoňová, M. Tatarková, Z. Čalkovský, V. **Brozmanová, M. Tatár, M.**: Differences in oxidative status, lung function, and pulmonary surfactant during long-term inhalation of medical oxygen and partially ionized oxygen in guinea pigs. *Journal of Physiology and Pharmacology* 2008; 59(suppl. 6):173-181.

Knociková, J. **Korpáš, J. Vrabec, M.** Javorka, M.: Wavelet analysis of voluntary cough sound in patients with respiratory diseases. *Journal of Physiology and Pharmacology* 2008; 59(suppl. 6):331-340.

Martinek, J. Tatár, M. Javorka, M.: Distinction between voluntary cough sound and speech in volunteers by spectral and complexity analysis. *Journal of Physiology and Pharmacology* 2008; 59(suppl. 6):433-440.

Pěčová, R. Žucha, J. Pěč, M. Neuschlová, M. Hanzel, P. **Tatár, M.**: Cough reflex sensitivity testing in seasonal allergic rhinitis patients and healthy volunteers. *Journal of Physiology and Pharmacology* 2008; 59(suppl. 6):557-564.

Varechová, S. Plevková, J. Hanáček, J. Tatár, M.: Role of gender and pubertal stage on cough sensitivity in childhood and adolescence. *Journal of Physiology and Pharmacology* 2008; 59(suppl. 6):719-726.

Javorková, N. Varechová, S. Péčová, R. Tatár, M. Baláž, D. Demeter, M. Hyrdel, R. Kollárik, M.: Acidification of the oesophagus acutely increases the cough sensitivity in patients with gastro-oesophageal reflux and chronic cough. *Neurogastroenterology and Motility* 2008; 20:119-124.

Christianson, J.A. Bielefeldt, J. Altier, C. Cenac, N. Davis, B.M. Gebhart, G.F. High, K.W. **Kollárik, M. Randich, A. Udem, B.J. Vergnolle, N.:** Development, plasticity and modulation of visceral afferents. *Brain Research Reviews* 2009; 60:171-186.

Liu, Q. Tang, Z. **Surdeniková, L. Kim, S. Patel, K.N. Kim, A. Ru, F. Guan, Y. Weng, H.-J. Geng, Y. Udem, B. J. Kollárik, M. Chen, Z.-F. Anderson, D.J. Dong, X.:** Sensory neuron-specific GPCR mrgprs are itch receptors mediating chloroquine-induced pruritus. *Cell* 2009; 139:1353-1356.

Plevková, J. Antosiewicz, J. Varechová, S. Poliaček, I. Jakuš, J. Tatár, M. Pokorski, M.: Convergence of nasal and trachea lneural pathways in modulating the cough response in guinea pigs. *Journal of Physiology and Pharmacology* 2009; 60:89-93.

Plevková, J. Antosiewicz, J. Poliaček, I. Adamkov, M. Jakuš, J. Švirlochová, K. Tatár, M.: Influence of stimulation of nasal afferents on expiration reflex evoked from vocal folds. *Journal of Physiology and Pharmacology* 2009; 60:93-97.

Tatár, M. Plevková, J. Brozmanová, M. Péčová, R. Kollárik, M.: Mechanisms of the cough associated with rhinosinuitis. *Pulmonary Pharmacology and Therapeutics* 2009; 22:121-126.

Kollárik, M. Brozmanová, M.: Cough and gastroesophageal reflux: insights from animal models. *Pulmonary Pharmacology and Therapeutics* 2009; 22:130-134.

Plevková, J. Poliaček, I. Antosiewicz, J. Adamkov, M. Jakuš, J. Švirlochová, K. Tatár, M.: Intranasal TRPV1 agonist capsaicin challenge and its effect on c-fos expression in the guinea pig brainstem. *Respiratory Physiology & Neurobiology* 2010; 173:11-15.

Kollárik, M. Ru, F. Brozmanová, M.: Vagal afferent nerves with the properties of nociceptors. *Autonomic Neuroscience : Basic & Clinical* 2010; 153:12-20.

Lieu, T. M. **Kollárik, M. Myers, A.C. Udem, B.J.:** Neurotrophin and GDNF family ligand receptor expression in vagal sensory nerve subtypes innervating the adult guinea pig respiratory tract. *American Journal of Physiology - Lung Cellular and Molecular Physiology* 2011; 300:L790-L798.

Brozmanová, Mariana - Ru, Fei - Surdeniková, Lenka - Mazúrová, Lenka - Taylor-Clark, Thomas E. - Kollárik, Marián: Preferential activation of the vagal nodose nociceptive subtype by TRPA1 agonists in the guinea pig esophagus In: *Neurogastroenterology and Motility*. - Roč. 23, č. 10 (2011), s. e437-e445.

Muroi, Y. Ru, F. **Kollárik, M. Canning, B.J. Hughes, S. A. Walsh, S. Sigg, M. Carr, M. J. Udem, B.J.:** Selective silencing of Nav 1.7 decreases excitability and conduction in vagal sensory neurons. *Journal of Physiology-London* 2011; 589:5663-5676.

Ru, F. **Surdeniková, L. Brozmanová, M. Kollárik, M.:** Adenosine induced activation of esophageal nociceptors. *American Journal of Physiology -Gastrointestinal and Liver Physiology* 2011; 300:G485-G493.

Widdicombe, J.G. **Tatár, M.** Fontana, G.A. **Hanáček, J.** Davenport, P. W. Lavorini, F. Bolser, D.C. Hull, D. Chung, F. **Kollárik, M.** Udem, B.J. Canning, B.J. Millquist, E. Dispignaitis, P. Saturo, E. Pitts, T.E. Workshop: Tuning the 'cough center'. *Pulmonary Pharmacology and Therapeutics* 2011; 24:344-352.

Plevková, J. Poliaček, I. Adamkov, M. Svirlochová, K. Varga, I.: Brainstem neuronal populations activated in the model of ovalbumine induced allergic rhinitis in guinea pigs - the c-Fos study. *Biologia* 2011; 66:922-927.

Surdeniková, L. Ru, F. Nassenstein, C. **Tatár, M. Kollárik, M.:** The neural crest- and placodes-derived afferent innervation of the mouse esophagus. *Neurogastroenterology and Motility* 2012; 24:e517-e525.

Brozmanová, M. Mazúrová, L. Ru, F. **Tatár, M. Kollárik, M.:** Comparison of TRPA1-versus TRPV1-mediated cough in guinea pigs. *European Journal of Pharmacology* 2012; 689:211-218.

Plevková, J. Biringerová, Z. **Gavliaková, S.:** Thermo sensitive TRPM8 channel and its role in cold induced airway symptoms. *Open Journal of Molecular and Integrative Physiology* 2012; 2:21-26.

Buday, T. Brozmanová, M. Biringerová, Z. **Gavliaková, S.** Poliaček, I. Čalkovský, V. Shetthalli, M. **Plevková, J.:** Modulation of cough response by sensory inputs from the nose - role of trigeminal TRPA1 versus TRPM8 channels. *Cough* 2012; 8:1-9.

Gavliaková, S. Buday, T. Shetthalli, M. **Plevková, J.:** Analysis of pathomechanisms involved in side effects of menthol treatment in respiratory diseases. *Open Journal of Molecular and Integrative Physiology* 2013; 3:21-26.

Kováčová, E. Plevková, J.: The role of histamine H4 receptors as a potential targets in allergic rhinitis and asthma. *Open Journal of Molecular and Integrative Physiology* 2013; 3:6-14.

Biringerová, Z. Gavliaková, S. Kováčová, E. Buday, T. Plevková, J.: Discrimination between upper versus lower airway components to the rise of total airway resistance measured by Pennock's method after nasal irritant challenge. *Open Journal of Molecular and Integrative Physiology* 2013; 3: 104-110.

Bálenťová, S. Hajtmanová, E. **Plevková, J.** Lehotský, J. Adamkov, M.: Fractionated irradiation-induced altered spatio-temporal cell distribution in the rat forebrain. *Acta Histochemica* 2013; 115:308-314.

Biringerová, Z. Gavliaková, S. Brozmanová, M. Tatár, M. Kováčová, E. Poliaček, I. **Plevková, J.:** The effects of nasal irritant induced responses on breathing and cough in anaesthetized and conscious animal models. *Respiratory Physiology & Neurobiology* 2013; 89:588-593.

Plevková, J. Woo-Jung S.: Chronic cough in subjects with upper airway diseases - analysis of mechanisms and clinical applications. *Asia Pacific Allergy* 2013; 3:127-135.

Brozmanová, M. Mazúrová, L. Tatár, M. Kollárik, M.: Evaluation of the effect of GABA(B) agonists on the vagal nodose C-fibers in the esophagus. *Physiological Research* 2013; 62:285-295.

Gavliaková, S. Biringerová, Z. Buday, T. Brozmanová, M. Čalkovský, V. Poliaček, I. **Plevková, J.:** Antitussive effects of nasal thymol challenges in healthy volunteers. *Respiratory Physiology & Neurobiology* 2013; 187:104-107.

Plevková, J. Kollárik, M. Poliaček, I. **Brozmanová, M. Surdeniková, L. Tatár, M.** Mori, M. Canning, B.J.: The role of trigeminal nasal TRPM8-expressing afferent neurons in the antitussive effects of

menthol. *Journal of Applied Physiology* 2013; 115:268-274.

Halička, J. Bánovčín, P. **Haličková, M.** Demeter, M. Hyrdel, R. **Tatár, M.** **Kollárik, M.:** Acid infusion into the esophagus increases the number of meal-induced transient lower esophageal sphincter relaxations (TLESRs) in healthy volunteers. *Neurogastroenterology and Motility* 2014; 26:1469-1476.

Buday, T. **Plevková, J.:** House dust mite allergy models - reliability for research of airway defensive mechanisms. *Open Journal of Molecular and Integrative Physiology* 2014; 4:27-35.

Ioan, I. Poussel, M. Coutier, L. **Plevková, J.** Poliaček, I. Bolser, D. Davenport, P.W. Derelle, J. **Hanáček, J.** **Tatár, M.** Marchal, F. Schweitzer, C. Fontana, G.A. Varechová, S.: What is chronic cough in children? *Frontiers in Physiology* 2014; 5:1-7.

Poliaček, I. Jakuš, J. Šimera, M. Veterník, M. **Plevková, J.:** Control of coughing by medullary raphé. *Progress in Brain Research* 2014; 212:277-295.

Kováčová, E. **Gavliaková, S.** **Buday, T.** Košútová, P. Mokrý, D. Urbanová, A. Mokrý, J. **Plevková, J.:** The effect of selective antagonist of H4 receptor JNJ7777120 on nasal symptoms, cough, airway reactivity and inflammation in guinea pigs. *Respiratory Physiology & Neurobiology* 2015; 216:9-14.

McAlexander, M. A. Gavett, S. **Kollárik, M.** Udem, B.J.: Vagotomy reverses established allergen-induced airway hyperreactivity to methacholine in the mouse. *Respiratory Physiology & Neurobiology* 2015; 212:20-24.

Ru, F. Bánovčín, P. **Kollárik, M.:** Acid sensitivity of the spinal dorsal root ganglia C-fiber nociceptors innervating the guinea pig esophagus. *Neurogastroenterology and Motility* 2015; 27:865-874.

Song, W.-J. Chang, Y.-S. Faruqi, S. Kim, J.-Y. Kang, M.-G. Kim, S. Jo, E.-J. Kim, M.-H. **Plevková, J.** Park, H.-W. Cho, S.-H. Morice, A.H.: The global epidemiology of chronic cough in adults: a systematic review and meta-analysis. *European Respiratory Journal* 2015; 45:1479-1481.

Šimera, M. Poliaček, I. Dobroňubov, B. Veterník, M. **Plevková, J.** Jakuš, J.: Interactions of mechanically induced coughing and sneezing in cat. *Respiratory Physiology & Neurobiology* 2015; 205:21-27.

Yu, X. Hu, Y. Ru, F. **Kollárik, M.** Udem, B.J. Yu, S.: TRPM8 function and expression in vagal sensory neurons and afferent nerves innervating guinea pig esophagus. *American Journal of Physiology: Gastrointestinal and Liver Physiology* 2015; 308:G489-G496.

Hennel, M. **Brozmanová, M.** **Kollárik, M.:** Cough reflex sensitization from esophagus and nose. *Pulmonary Pharmacology and Therapeutics* 2015; 35:117-121.

Bánovčín, P. **Halička, J.** **Haličková, M.** Ďuríček, M. Hyrdel, R. **Tatár, M.** **Kollárik, M.:** Studies on the regulation of transient lower esophageal sphincter relaxations (TLESRs) by acid in the esophagus and stomach. *Diseases of the Esophagus* 2016; 29:484-489.

Brozmanová, M. **Mazúrová, L.** Ru, F. **Tatár, M.** Hu, Y. Yu, S. **Kollárik, M.:** Mechanisms of the adenosine A(2A)receptor-induced sensitization of esophageal C fibers. *American Journal of Physiology -Gastrointestinal and Liver Physiology* 2016; 310:G215-G223.

Poliaček, I. Šimera, M. Veterník, M. Kotmanová, Z. Pitts, T. **Hanáček, J.** **Plevková, J.** Macháč, P. Višňovcová, N. Míšek, J. Jakuš, J.: The course of lung inflation alters the central pattern of tracheobronchial cough in cat. The evidence for volume feedback during cough. *Respiratory*

Physiology & Neurobiology 2016; 229:43-50.

Buday, T. Kováčová, E. Gavliaková, S. Kavalčíková, N. Antošová, M. Plevková, J.: Imetit Dihydrobromide and Thioperamide Medication in Cough Hypersensitivity Model The Role of H3 Receptors. *Open Journal of Molecular and Integrative Physiology* 2016; 6:1-9.

Poliaček, I. **Plevková, J.** Pitts, T. Kotmanová, Z. Jakuš, J. Šimera, M.: Cough Modulation by Upper Airway Stimuli in Cat. Potential Clinical Application? *Open Journal of Molecular and Integrative Physiology* 2016; 6:35-43.

Demoulin-Alexiková, S. **Plevková, J. Mazúrová, L. Zaťko, T. Alexík, M. Hanáček, J. Tatár, M.:** Impact of Air Pollution on Age and Gender Related Increase in Cough Reflex Sensitivity of Healthy Children in Slovakia. *Frontiers in Physiology* 2016; 7:1-11.

Buday, T. Kováčiková, L. Ružinák, R. Plevková, J.: TRPV4 antagonist GSK2193874 does not modulate cough response to osmotic stimuli. *Respiratory Physiology & Neurobiology* 2017; 236:1-4.

Kocmálová, M. **Kollárik, M.** Canning, B. Ru, F. Herbstromer, R.A. Meeker, S. N. Fonquerna, S. Aparici, M. Miralpeix, M. Chi, X. Li, B. Wilenkin, B. McDermott, J. Nisenbaum, E. Krajewski, J. Udem, B.J.: Control of Neurotransmission by Nav1.7 in Human, Guinea pig, and Mouse airway Parasympathetic Nerves. *Journal of Pharmacology and Experimental Therapeutics* 2017; 361:172-180.