

List of our full text publications based on microcirculatory measurements using the orthogonal polarization spectral imaging (OPS) technique

1. Nógrády M, Varga G, Szűcs S, Kaszaki J, Boros M, Érces D. Effects of complement C5a inhibitor therapy in animal models of non-occlusive mesenteric ischemia. *Magy Seb.* 2017 Sep;70(3):221-231. doi: 10.1556/1046.70.2017.3.2. Hungarian.
2. Bari G, Szűcs S, Érces D, Ugocsai M, Bozsó N, Balog D, Boros M, Varga G. Experimental model for cardiogenic shock with pericardial tamponade. *Magy Seb.* 2017 Dec;70(4):297-302. doi: 10.1556/1046.70.2017.4.1. Hungarian.
3. Mészáros AT, Büki T, Fazekas B, Tuboly E, Horváth K, Poles MZ, Szűcs S, Varga G, Kaszaki J, Boros M. Inhalation of methane preserves the epithelial barrier during ischemia and reperfusion in the rat small intestine. *Surgery.* 2017 Jun;161(6):1696-1709. doi: 10.1016/j.surg.2016.12.040.
4. Varga G, Lajkó N, Ugocsai M, Érces D, Horváth G, Tóth G, Boros M, Ghyczy M. Reduced mucosal side-effects of acetylsalicylic acid after conjugation with tris-hydroxymethyl-aminomethane. Synthesis and biological evaluation of a new anti-inflammatory compound. *Eur J Pharmacol.* 2016 Jun 15;781:181-9. doi: 10.1016/j.ejphar.2016.04.019.
5. Érces D, Nógrády M, Varga G, Szűcs S, Mészáros AT, Fischer-Szatmári T, Cao C, Okada N, Okada H, Boros M, Kaszaki J. Complement C5a inhibition improves late hemodynamic and inflammatory changes in a rat model of nonocclusive mesenteric ischemia. *Surgery.* 2016 Mar;159(3):960-71. doi: 10.1016/j.surg.2015.10.020.
6. Palágyi P, Kaszaki J, Rostás A, Érces D, Németh M, Boros M, Molnár Z. Monitoring Microcirculatory Blood Flow with a New Sublingual Tonometer in a Porcine Model of Hemorrhagic Shock. *Biomed Res Int.* 2015;2015:847152. doi: 10.1155/2015/847152.
7. Cserni T, Cervellione RM, Hajnal D, Varga G, Kubiak R, Rakoczy G, Kaszaki J, Boros M, Goyal A, Dickson A. Alternative ileal flap for bladder augmentation if mesentery is short. *J Pediatr Urol.* 2015 Apr;11(2):64.e1-6. doi: 10.1016/j.jpuro.2014.10.008.
8. Cervellione RM, Hajnal D, Varga G, Rakoczy G, Kubiak R, Kaszaki J, Boros M, Harwood R, Dickson AP, Cserni T. New alternative Mitrofanoff channel based on spiral intestinal lengthening and tailoring. *J Pediatr Urol.* 2015 Jun;11(3):131.e1-5. doi: 10.1016/j.jpuro.2015.01.013.
9. Varga R, Janovszky Á, Szabó A, Garab D, Bodnár D, Boros M, Neunzehn J, Wiesmann HP, Piffkó J. A novel method for in vivo visualization of the microcirculation of the mandibular periosteum in rats. *Microcirculation.* 2014 Aug;21(6):524-31. doi: 10.1111/micc.12128.
10. Bajory Z, Varga R, Janovszky Á, Pajor L, Szabó A. Microcirculatory effects of selective endothelin-A receptor antagonism in testicular torsion. *J Urol.* 2014 Dec;192(6):1871-7. doi: 10.1016/j.juro.2014.06.086.
11. Érces D, Nógrády M, Nagy E, Varga G, Vass A, Süveges G, Imai M, Okada N, Okada H, Boros M, Kaszaki J. Complement C5A antagonist treatment improves the acute circulatory and inflammatory consequences of experimental cardiac tamponade. *Crit Care Med.* 2013 Nov;41(11):e344-51. doi: 10.1097/CCM.0b013e31828a6768.
12. Bajory Z, Szabó A, Deák G, Varga R, Pajor L. Orthogonal polarization spectral imaging: a novel tool for examination of microcirculatory changes in the testis. *J Androl.* 2012 May-Jun;33(3):499-504. doi: 10.2164/jandrol.111.013599.
13. Kovács T, Varga G, Érces D, Tőkés T, Tiszlavicz L, Ghyczy M, Vécsei L, Boros M, Kaszaki J. Comparative study of novel therapeutic possibilities in animal experimental model of inflammatory bowel disease. *Magy Seb.* 2012 Aug;65(4):191-7. doi: 10.1556/MaSeb.65.2012.4.4. Hungarian.
14. Érces D, Varga G, Fazekas B, Kovács T, Tőkés T, Tiszlavicz L, Fülöp F, Vécsei L, Boros M, Kaszaki J. N-methyl-D-aspartate receptor antagonist therapy suppresses colon motility and inflammatory activation six days after the onset of experimental colitis in rats. *Eur J Pharmacol.* 2012 Sep 15;691(1-3):225-34. doi: 10.1016/j.ejphar.2012.06.044.

15. Greksa F, Tóth K, Boros M, Szabó A. Periosteal microvascular reorganization after tibial reaming and intramedullary nailing in rats. *J Orthop Sci.* 2012 Jul;17(4):477-83. doi: 10.1007/s00776-012-0222-z.
16. Kovács T, Varga G, Erces D, Tőkés T, Tiszlavicz L, Ghyczy M, Boros M, Kaszaki J. Dietary phosphatidylcholine supplementation attenuates inflammatory mucosal damage in a rat model of experimental colitis. *Shock.* 2012 Aug;38(2):177-85. doi: 10.1097/SHK.0b013e31825d1ed0.
17. Varga G, Erces D, Fazekas B, Fülöp M, Kovács T, Kaszaki J, Fülöp F, Vécsei L, Boros M. N-Methyl-D-aspartate receptor antagonism decreases motility and inflammatory activation in the early phase of acute experimental colitis in the rat. *Neurogastroenterol Motil.* 2010 Feb;22(2):217-25, e68. doi: 10.1111/j.1365-2982.2009.01390.x.
18. Wolfárd A, Kaszaki J, Varga S, Lázár G, Boros M. Early microcirculatory changes after ischemic preconditioning and small bowel autotransplantation. *Eur Surg Res.* 2007;39(5):284-90.
19. Eros G, Kaszaki J, Czobél M, Boros M. Systemic phosphatidylcholine pretreatment protects canine esophageal mucosa during acute experimental biliary reflux. *World J Gastroenterol.* 2006 Jan 14;12(2):271-9.
20. Eros G, Kaszaki J, Czobél M, Boros M. Effects of phosphatidylcholine pretreatment during acute experimental biliary reflux. *Magy Seb.* 2005 Dec;58(6):406-14. Hungarian
21. Vajda K, Szabó A, Boros M. Heterogeneous microcirculation in the rat small intestine during hemorrhagic shock: quantification of the effects of hypertonic-hyperoncotic resuscitation. *Eur Surg Res.* 2004 Nov-Dec;36(6):338-44.
22. Vajda K, Szabó A, Kucska K, Suki B, Boros M. Microcirculatory heterogeneity in the rat small intestine during compromised flow conditions. *Microcirculation.* 2004 Jun;11(4):307-15.
23. Szabó A, Suki B, Csonka E, Eszlári E, Kucska K, Vajda K, Kaszaki J, Boros M. Flow motion in the intestinal villi during hemorrhagic shock: a new method to characterize the microcirculatory changes. *Shock.* 2004 Apr;21(4):320-8.
24. Szentpáli K, Erös G, Kaszaki J, Tiszlavicz L, Lázár G, Wolfárd A, Balogh A, Boros M. Microcirculatory changes in the canine oesophageal mucosa during experimental reflux oesophagitis: comparison of the effects of acid and bile. *Scand J Gastroenterol.* 2003 Oct;38(10):1016-22.
25. Lázár G, Kaszaki J, Abrahám S, Wolfárd A, Horváth G, Szentpáli K, Paszt A. Thoracic epidural anesthesia improves the gastric microcirculation during experimental gastric tube formation. *Magy Seb.* 2003 Feb;56(1):25-30. Hungarian
26. Lázár G, Kaszaki J, Abrahám S, Horváth G, Wolfárd A, Szentpáli K, Paszt A, Balogh A, Boros M. Thoracic epidural anesthesia improves the gastric microcirculation during experimental gastric tube formation. *Surgery.* 2003 Nov;134(5):799-805.
27. Szentpáli K, Kaszaki J, Erös G, Tiszlavicz L, Paszt A, Lázár G, Balogh A, Boros M. Changes in microcirculation of esophageal mucosa during acute experimental reflux. Pathogenic role of the biliary component. *Magy Seb.* 2003 Apr;56(2):61-7. Hungarian.