

Dr. Thomas Eddinger's Publications

- 2019** John F. LaDisa, Aoy Tomita-Mitchell, Karl Stamm, Kathleen Bazan, Donna K. Mahnke, Mary A. Goetsch, Brandon J. Wegter, Jesse W. Gerringer, Kathryn Repp, Oleg Palygin, Adrian P. Zietara, Mary M. Krolikowski, Thomas J. Eddinger, Abdel A. Alli, and Michael E. Mitchell. Human genotyping and an experimental model reveal NPR-C as a possible contributor to morbidity in coarctation of the aorta. *Physiological Genomics* Volume 51, Issue 62019 May 22, 177-185, 2019
- 2017** Thomas J Eddinger. Reversible plasticity of detrusor smooth muscle: evidence for a key role of "slipping" actomyosin cross-bridges in the control of urinary bladder compliance. *Am. J. Physiol. Renal.* Vol. 313 no. 4, F862-F8632017 DOI: 10.1152/ajprenal.00227.2017
- Thomas J Eddinger. Structure of Differentiated/Contractile Vascular Smooth Muscle Cells. In: *Vascular Smooth Muscle: Structure and Function in Health and Disease*. 2017. Edited by CM Hai. World Scientific Publishing Co. Singapore
- 2015** John F. LaDisa, Jr., Serdar Bozdog, Jessica Olson, Ramani Ramchandran, Judy R. Kersten, Thomas J. Eddinger. Gene Expression in Experimental Aortic Coarctation and Repair: Candidate Genes for Therapeutic Intervention? *PLOS ONE* DOI:10.1371/journal.pone.0133356 July 24, 10: (7) 1-22, 2015.
- 2014** Eddinger, T.J. 2014. Smooth Muscle-Protein Translocation and Tissue Function. *The Anatomical Record* 297:1734-1746.
- Mynlieff, M., Manogaran, A., St. Maurice, M., and Eddinger, T.J. 2014. Writing assignments with a metacognitive component enhance learning in a large introductory biology course. *Cell Biology Education* 13, 311-321.
- 2013** Zhang Y., Hermanson, M.E., and Eddinger, T.J. 2013. Tonic and phasic muscle contraction in not regulated by the PKC α - CPI-17 pathway in Swine stomach antrum and fundus. *PLOS ONE* 8 (9) e74608.
- Huang, Q., Babu, G.J., Periasamy, M., and Eddinger T.J. 2013. SMB myosin heavy chain knockout enhances tonic contraction and reduces the rate of force generation in ileum and stomach antrum. *Am. J. Physiol. Cell Physiol.* 304(2): C194-206.
- 2012** Menon, A., Eddinger, T.J., Wang, H., Wendell, D.C., Toth, J.M., and LaDisa, J.F. 2012. Altered hemodynamics, endothelial function and protein expression occur with aortic coarctation and persist after repair. *Am J Physiol Heart Circ. Physiol.* 303: H1304-H1318.
- 2011** Menon, A., Wendell, D.C., Wang, H., Eddinger, T.J., Toth, J.M., Dholakia, R.J., Larsen, P.M., Jensen, E.S., LaDisa, J.F. Jr. 2012. A coupled experimental and computational approach to quantify deleterious hemodynamics, vascular alterations, and mechanisms of long-term morbidity in response to aortic coarctation. *J Pharmacol Toxicol Methods.* 65(1):18-28. Epub. Nov 4, 2011.
- 2009** Eddinger, T.J. Unique contractile and structural protein expression in dog ileal inner circular smooth muscle. *J. Smooth Muscle Research*, 45: 217-230, 2009
- 2008** Govindaraju, S.R., J.L. Bain, T.J. Eddinger and D.A. Riley. 2008. Vibration causes acute vascular injury in a two-step process: vasoconstriction and vacuole disruption. *Anat. Record*, 291:999-1006.
- 2007** Eddinger, T.J., D.P. Meer, A.S. Miner, J.T. Meehl, A.S. Rovner, and P.H. Ratz. 2007. Potent inhibition of Arterial smooth muscle tonic contractions by the selective myosin II inhibitor, Blebbistatin. *J. Pharmacol. Exp. Ther.*, 2007 320: 865-870.
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- 2006** Han, S., J.E. Speich, T.J. Eddinger, K.M. Berg, A.S. Miner, C. Call, and P.H. Ratz. 2006. Evidence for absence of latchbridge formation in muscular saphenous artery. *Am. J. Physiol. Heart Circ. Physiol.*, 291:H138-H146.
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- 2005** Eddinger, T.J., J.D. Schiebout, and D.R. Swartz. 2005. Smooth muscle adherens junctions associated proteins are stable at the cell periphery during relaxation and activation. *Am. J. Physiol. Cell Physiol.*, 289:C1379-1387.
- 2004** Wahl, M., T.J. Eddinger and C.M. Hai. 2004. Sinusoidal Length Oscillation- and Receptor-mediated mRNA Expression of Myosin Isoforms and α -SM Actin in Airway Smooth Muscle. *Am. J. Physiol. Cell Physiol.* 287:C1697-1708.
- 2002** Parisi, J.A., and T.J. Eddinger. 2002. Smooth muscle myosin heavy chain isoform distribution in the swine stomach. *J. Histochem. Cytochem.*, 50(3):385-393.
- Sherwood, J.J. and T.J. Eddinger. 2002. Shortening velocity and myosin heavy and light chain isoform mRNA in rabbit arterial smooth muscle cells. *Am. J. Physiol. Cell Physiol.*, 282:C1093-C1102.
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- 2000** Eddinger, T.J., Korwek, A.A., Meer, D.P. and Sherwood, J.J. 2000. Expression of smooth muscle myosin light chain 17 isoforms and unloaded shortening in single smooth muscle cells. *Am. J. Physiol. Cell Physiol.* 278:C1133-1142.
- 1998-99** Eddinger, T.J. 1998. Myosin heavy chain isoforms and dynamic contractile properties: Skeletal vs. smooth muscle. *Comp. Biochem. Physiol. (B)*, 119:425-434.
- 1997-98** Eddinger, T.J. and P.H. Ratz. 1997. Alpha-adrenoceptor activation induces rhythmic contractile activity in carotid arteries from young, not adult rats. *Acta Physiol. Scand.* 159:123-125.
- Eddinger, T.J. and D.P. Meer. 1997. Myosin isoform heterogeneity in single smooth muscle cells. *Comp. Biochem. Physiol.* 117B:29-38.
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- Meer, D.P. and T.J. Eddinger. 1996. Polymerase chain reaction for detection of male tissue in pork products. *Meat Science*, 44:285-291.

- 1992-93** Tsao, A.E. and T.J. Eddinger. 1993. Smooth muscle myosin heavy chains combine to form three myosin isoforms. *Am. J. Physiol.*, 264:H1653-H1662.
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- 1990-91** Eddinger, T.J. and R.A. Murphy. 1991. Developmental changes in actin and myosin heavy chain isoform expression in smooth muscle. *Arch. Biochem. Biophys.*, 284:232-237.
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