

## **Dr. Edward Blumenthal's Publications**

- 2018** Conway, S., Sansone, C.L., Benske, A., Kentala, K., Billen, J., Vanden Broeck, J., and Blumenthal, E.M. 2018. Pleiotropic and novel phenotypes in the *Drosophila* gut caused by mutation of *drop-dead*. *Journal of Insect Physiology* 105: 76-84. doi: 10.1016/j.jinsphys.2018.01.007
- 2017** Zhang, H. and E.M. Blumenthal. 2017. Identification of multiple functional receptors for tyramine on an insect secretory epithelium. *Scientific Reports* 7(1):168. doi: 10.1038/s41598-017-00120-z.
- 2014** Cabrero, P., S. Terhzaz, M. F. Romero, S. A. Davies, E. M. Blumenthal, and J. A. Dow. 2014. Chloride channels in stellate cells are essential for uniquely high secretion rates in neuropeptide-stimulated *Drosophila* diuresis." *Proceedings of the National Academy of Sciences USA* 111.39: 14301-6. 10.1073/pnas.1412706111.
- 2013** Sansone, C.L. and E.M. Blumenthal. 2013. Neurodegeneration in *drop-dead* mutant *Drosophila melanogaster* is associated with the respiratory system but not with hypoxia. *PLoS One*, 8.7:e68032. doi:10.1371/journal.pone.0068032.
- Nickell, P.K., M.V. Joyce, S. Sass, D. Verleye, E.M. Blumenthal, and J.G. Duman. 2013. Antifreeze proteins in the primary urine of larvae of the beetle *Dendroides canadensis*. *Journal of Experimental Biology*, 216.9:1695-1703. doi:10.1242/jeb.082461.
- Ruka, K.A., A.P. Miller, and E.M. Blumenthal. 2013. Inhibition of diuretic stimulation of an insect secretory epithelium by a cGMP-dependent protein kinase. *American Journal of Physiology: Renal Physiology*, 304.9:F1210-6. doi:10.1152/ajprenal.00231.2012.
- 2012** Blumenthal, E.M., and Sansone, C.L. 2012. Developmental expression of *drop-dead* is required for early adult survival and normal body mass in *Drosophila melanogaster*. *Insect Biochem. Mol. Biol.* 42(9): 690-698.
- 2009** Blumenthal, E.M. Isoform- and cell-specific function of tyrosine decarboxylase in the *Drosophila* Malpighian tubule. *Journal of Experimental Biology*, 212:3802-3809. doi:10.1242/jeb.035782.
- Peller, C.R., E.M. Bacon, J.M. Bucheger, and E.M. Blumenthal. 2009. Defective gut function in *drop-dead* mutant *Drosophila*. *Journal of Insect Physiology*, 55:834-839. First published online 7/19/2009; 10.1016/j.jinsphys.2009.05.011
- 2008** Blumenthal, E.M. 2008. Cloning of the neurodegeneration gene *drop-dead* and characterization of additional phenotypes of its mutation. *Fly*, 2(4):180-188. First published online; <http://landesbioscience.com/journals/fly/article/6546>
- 2005** Blumenthal, E.M. 2005. Modulation of tyramine signaling by osmolality in an insect secretory epithelium. *Am. J. Physiol. Cell Physiol.* 289, C1261-C1267. First published 6/29/2005; 10.1152/ajpcell.00026.2005
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- At Marquette University
- 2003** Blumenthal, E.M. 2003. Regulation of chloride permeability by endogenously produced tyramine in the *Drosophila* Malpighian tubule. *Am. J. Physiol Cell Physiol.*, 284:C718-C728. First published 11/20/2002; 10.1152/ajpcell.00359.2002

- 2001** Blumenthal, E.M. 2001. Characterization of transepithelial potential oscillations in the *Drosophila* Malpighian tubule. *J. Exp. Biol.*, 204:3075-3084.
- 1999** Blumenthal, E.M., R.D. Shoop, and D.K. Berg. 1999. Developmental changes in the nicotinic responses of ciliary ganglion neurons. *J. Neurophys.*, 81:111-120.
- 1997** Blumenthal, E.M., W.G. Conroy, S.J. Romano, P.D. Kassner, and D.K. Berg. 1997. Detection of functional nicotinic receptors blocked by  $\alpha$ -bungarotoxin on PC12 cells and dependence of their expression on posttranslational events. *J. Neurosci.*, 17:6094-6104.
- 1995** Vijayaraghavan, S., B. Huang, E.M. Blumenthal, and D.K. Berg. 1995. Arachidonic acid as a possible negative feedback inhibitor of nicotinic acetylcholine receptors on neurons. *J. Neurosci.*, 15:3679-3687.
- 1994** Blumenthal, E.M., and L.K. Kaczmarek. 1994. The MinK potassium channel exists in functional and nonfunctional forms when expressed in the plasma membrane of *Xenopus* oocytes. *J. Neurosci.*, 14:3097-3105.
- 1993** Blumenthal, E.M., and L.K. Kaczmarek. 1993. Inward rectification of the MinK potassium channel. *J. Memb. Biol.*, 136:23-29.
- 1992** Blumenthal, E.M., and L.K. Kaczmarek. 1992. Modulation by cAMP of a slowly activating potassium channel expressed in *Xenopus* oocytes. *J. Neurosci.*, 12:290-96.
- Cook, J.S., D.H. Wolsing, J. Lameh, C.A. Olson, P.E. Correa, W. Sadee, E.M. Blumenthal, and J.S. Rosenbaum. 1992. Characterization of the RDC1 gene which encodes the canine homolog of a proposed human VIP receptor. *FEBS Lett.*, 300:149-52.
- 1990** Tong, M.K., E.M. Blumenthal, and B. Ganem. 1990. Inhibition of plant glycosidases by a D-galacturonic acid analog. *Tetrahedron Lett.*, 31:1683-4.