Dr. Allison Abbott's Publications

2012 Kemp, B.J., Allman, E., Immerman, L., Mohnen, M., Peters, M.A., Nehrke, K., and Abbott, A.L. 2012. miR-786 regulation of a fatty-acid elongase contributes to rhythmic calcium-wave initiation in *C. elegans*. *Curr. Biol*. 22: 2213-2220.

Brenner, J.L., Kemp, B.J., Abbott, A.L. 2012. The *mir-51* family of microRNAs functions in diverse regulatory pathways in *Caenorhabditis elegans. PLoS ONE 7(5): e37185.*

2011 Abbott, A.L. 2011. Uncovering New Functions for MicroRNAs in *Caenorhabditis elegans. Curr Biol* 21, R668–71.

2010 Brenner, J.L., Jasiewicz, K.L., Fahley, A.F., Kemp, B.J., and Abbott, A.L. 2010. Loss of individual microRNAs causes mutant phenotypes in sensitized genetic backgrounds in C. elegans. Current Biology 20:1321-1325.

2007 *Miska E.A., *Alvarez-Saavedra E., *Abbott A.L., Lau N.C., Hellman, A.B, McGonagle, S.M., Bartel D.P., Ambros V, Horvitz H.R. Most *Caenorhabditis elegans* microRNAs are individually not essential for development or viability. *PLoS Genet* 3(12): e215, doi:10.1371/journal.pgen. 0030215.eor. * authors contributed equally

At Marquette University

2005 Abbott, A.L., E. Alvarez-Saavedra, E.A. Miksa, N.C. Lau, D.P. Bartel, D.P., H.R. Horvitz and V. Ambros, V. 2005. The *let-7* microRNA family members *mir-48, mir-84*, and *mir-241* function together to regulate developmental time in *Caenorhabditis elegans. Develop. Cell,* 9:403-14.

2003 Abbott, A.L. 2003. Heterochronic genes. *Current Biology,* 13:R824-25.

Markoulaki, S., S. Matson, A.L. Abbott and T. Ducibella. 2003. Oscillatory CaMKII activity in mouse egg activation. *Develop. Biol.*, 258:464-74.

2002 Smyth, J.T., A.L. Abbott, B. Lee, I. Sienaert, N.N. Kasri, H. De Smedt, T. Ducibella, L. Missiaen, J.B. Parys and R.A. Fissore. 2002. Inhibition of the inositol triphosphate receptor of mouse eggs and A7r5 cells by KN-93 via a mechanism unrelated to Ca^{2+}/calmodulin-dependent protein inase II antagonism. *J. of Biol. Chem.*, 277:35061-70.

2001 Abbott, A.L., R.A. Fissore and T. Ducibella. 2001. Identification of a translocation deficiency in cortical granule secretion in preovulatory mouse oocytes. *Biol. of Reprod.,* 65:1640-7.

Abbott, A.L. and T. Ducibella. 2001. Calcium and control of mammalian cortical granule exocytosis. *Frontiers in Biosciene,* 6:D792-806.

1999 Abbott, A.L. R.A. Fissore and T. Ducibella. 1999. Incompetence of pre-ovulatory mouse oocytes to undergo cortical granule exocytosis following induced calcium oscillations. *Develop. Biol.,* 207:38-48.

1998 Abbott, A.L., Z. Xu, G.S. Kopf, T. Ducibella and R.M. Schultz. 1998. *In vitro* culture retards spontaneous activation of cell cycle progression and cortical granuel exocytosis that normally occur in *in vivo* fertilized mouse eggs. *Biol of Reprod.,* 59:1515-21.

1997 Xu, Z., A.L. Abbott, G.S. Kopf, R.M. Schultz and T. Ducibella. 1997. Spontaneous activation of ovulated mouse eggs: time-dependent effects on M-phase exit, cortical granule exocytosis, maternal messenger ribonucleic acid recruitment, and inositol 1,4,5-Trisphosophate sensitivity. *Biol. of Reprod.,* 57:743-50.