

Publications (2000- present)

Reenan, R.A., Hanrahan, C.J. and Ganetzky, B. (2000) The *mle^{napt5}* RNA Helicase Mutation in *Drosophila* Results in a Splicing Catastrophe of the *para* Na⁺ Channel Transcript in a Region of RNA editing. Neuron **25**: 139-149.

C.J. Hanrahan, M.J. Palladino, B. Ganetzky and **R.A. Reenan** (2000) RNA Editing of the *Drosophila para* Na⁺ Channel Transcript: Evolutionary Conservation and Developmental Regulation. Genetics **155**:1149-1160.

M.J. Palladino, L.P. Keegan, M.A. O'Connell and **R.A. Reenan** (2000) *dADAR*, a *Drosophila* Double-stranded RNA-specific Adenosine Deaminase is Highly Developmentally Regulated and is Itself a Target for RNA Editing. RNA **6**:1004

R.L. Martin, B. Pittendrigh, J. Liu, **R.A. Reenan**, R. ffrench-Constant and D.A. Hanck. (2000) Point Mutations in Domain III of a *Drosophila* Neuronal Na⁺ Channel Confer Resistance to Allethrin. Insect Biochem. and Mol. Biol. **30**: 1051-1059.

M.J. Palladino, L.P. Keegan, M.A. O'Connell and **R.A. Reenan** (2000) A-to-I pre-mRNA Editing In *Drosophila* is Primarily Involved in Adult Nervous System Function and Integrity. Cell **102**:437-449.

B. Rogina, **R.A. Reenan**, Nilsen, S.P. and S.L. Helfand (2000) Extended Life Span Conferred by Cotransporter Gene Mutations in *Drosophila*. Science **290**:2137-2140.

R.A. Reenan (2001) The RNA World Meets Behavior: A-to-I Pre-mRNA Editing in Animals. Trends in Genetics **17(2)**:53-55.

M. Grauso, **R.A. Reenan**, E. Culetto, D.B. Sattelle. (2002) Novel Putative Nicotinic Acetylcholine Receptor Subunit Genes, Da5, Da6 and Da7, in *Drosophila melanogaster* Identify a New and Highly Conserved Target of Adenosine Deaminase Acting on RNA-Mediated A-to-I Pre-mRNA Editing. Genetics **160(4)**:1519-1533

B. Hoopengardner, T. Bhalla, C. Staber, and **R.A. Reenan**. (2003) Nervous System Targets of RNA Editing Identified By Comparative Genomics. Science **301**:832-836.

J. Pedra, A. Hostetler, P. Gaffney, **R.A. Reenan** and B. Pittendrigh. (2004) Hyper-susceptibility to deltamethrin in *para^{ts1}* DDT resistant *Drosophila melanogaster*. Pesticide Biochemistry and Physiology **78**:58-66.

T. Bhalla, J. Rosenthal, M. Holmgren and **R.A. Reenan** (2004) Control of human potassium channel inactivation by editing of a small mRNA hairpin. Nature Structural and Molecular Biology **11**:950-956

J.W. Park, K. Parisky, A.M. Celotto, **R.A. Reenan** and B.R. Graveley (2004). Identification of alternative splicing regulators by RNA interference in *Drosophila*. P.N.A.S **101**:15974-15979.

D. B. Sattelle, A. K. Jones, B. M. Sattelle, K. Matsuda, **R.A. Reenan** and P. C. Biggin (2005) Edit, cut and paste in the nicotinic acetylcholine receptor gene family of *Drosophila melanogaster*. Bioessays **27**: 366-376.

R.A. Reenan (2005) Molecular determinants and guided evolution of species-specific RNA editing. Nature **434**: 409-413.

L.P. Keegan, J. Brindle, A. Gallo, A. Leroy, **R.A. Reenan** and M.A.O'Connell.

(2005) Tuning of RNA editing by ADAR is required in *Drosophila*. EMBO Journal 24(12): 2183-2193.

H.W. Tedford, F. Maggio, **R.A. Reenan** and G. King. (2006) A model genetic system for testing the in vivo function of peptide toxins. *Peptides* (accepted).