

## Prof Andrew Jarman

### Selected publications

#### 2012

Powell, L.M., Chen, A., Huang, Y.C., Want, P.Y. Kemp, S.E., and Jarman, A.P. 2012. The SUMO pathway promotes bHLH proneural factor activity via a direct effect on the zinc finger protein, Senseless. *Mol. Cell. Biol.* In press.

Newton, F.G., zur Lage, P.I., Karak, S., Moore, D.J., Göpfert, M.C., and Jarman, A.P. 2012. Forkhead transcription factor Fd3F cooperates with Rfx to regulate a gene expression program for mechanosensory cilia specialization. *Dev. Cell*, 22: 1221-1233.

#### 2011

Suslak, T.J., Armstrong, J.D., and Jarman, A.P. 2011. A general mathematical model for transduction events in mechanosensory receptors. *Network: Computation in Neural Systems*, 22: 133-142.

zur Lage, P.I., Simpson, T.I., Jarman, A.P. 2011. Linking specification to differentiation: from proneural genes to the regulation of ciliogenesis. *Fly*, in press.

Gallone, G., Simpson, T.I., Armstrong, J.D., and Jarman, A.P. 2011. Bio::Homology:InterologWalk — a Perl module to build putative protein-protein interaction networks through interolog mapping. *BMC Bioinformatics*, **12**: 289. [Highly accessed.](#)

Ma, L., and Jarman, A.P. 2011. Dilatory is a *Drosophila* protein related to AZI1/CEP131 that is located at the ciliary base and required for cilium formation. *J. Cell Sci.* 123: 2622-2630 e1504.

Cachero, S., Simpson, T.I., zur Lage, P.I., Ma, L., Newton, F.G., Holohan, E.E., Armstrong, J.D. and Jarman, A.P. 2011. The gene regulatory cascade linking proneural specification with differentiation in *Drosophila* sensory neurons. *PLoS Biology* **9(1)**: e1000568.

#### 2010

Simpson, T.I., Armstrong, J.D., and Jarman, A.P. 2010. Merged consensus clustering to assess and improve class discovery with microarray data. *BMC Bioinformatics* 11:590. [Highly accessed.](#)

zur Lage, P.I. and Jarman, A.P. 2010. The function and regulation of the bHLH gene, *cato*, in *Drosophila* neurogenesis. *BMC Developmental Biology* **10**: 34.

#### 2008

Powell, L.M. and Jarman, A.P. 2008. Context dependence of proneural bHLH proteins. *Curr. Op. Genet. Dev.* **18**: 411-417.

Powell, L.M., Deaton, A.M., Wear, M.A. and Jarman, A.P. 2008. The specificity of Atonal and Scute bHLH factors: analysis of cognate E box binding sites and the influence of Senseless. *Genes to Cells*. **13**, 915-927.

#### 2007

Clark IBN, Jarman AP, Finnegan DJ (2007) Live imaging of *Drosophila* gonad formation reveals roles for Six4 in regulating germline and somatic cell migration. *Bmc Developmental Biology* 7

Maung S, Jarman AP (2007) Functional distinctness of closely related transcription factors: A comparison of the Atonal and Amos proneural factors. *Mechanisms of Development* 124:647-656

#### **2006**

Clark IBN, Boyd J, Hamilton G, Finnegan DJ, Jarman AP (2006) D-six4 plays a key role in patterning cell identities deriving from the *Drosophila* mesoderm. *Developmental Biology* 294:220-231

Holohan EE, zur Lage PI, Jarman AP (2006) Multiple enhancers contribute to spatial but not temporal complexity in the expression of the proneural gene, amos. *BMC Developmental Biology* 6: 53

#### **2004**

Powell LM, zur Lage PI, Prentice DRA, Senthinathan B, Jarman AP (2004) The proneural proteins Atonal and Scute regulate neural target genes through different E-box binding sites. *Mol Cell Biol* 24: 9517-9526

zur Lage PI, Powell LM, Prentice DRA, Jarman AP (2004) EGF receptor signalling triggers recruitment of *Drosophila* sense organ precursors by stimulating proneural gene autoregulation. *Developmental Cell* 5: 687-696

#### **2003**

Rawlins EL, Lovegrove B, Jarman AP (2003) Echinoid facilitates Notch pathway signalling during *Drosophila* neurogenesis through functional interaction with Delta. *Development* 130: 6475-6484

Rawlins EL, White N, Jarman AP (2003) Echinoid limits R8 photoreceptor specification by inhibiting inappropriate EGF receptor signalling within R8 equivalence groups. *Development* 130: 3715-3724

zur Lage PI, Prentice DRA, Holohan E, Jarman AP (2003) The *Drosophila* proneural gene amos promotes olfactory sensillum formation and suppresses bristle formation. *Development* 130: 4683-4689

#### **2002**

Bownes M, Charlesworth B, Davis I, Finnegan D, Heck M, Jarman A, Keegan L, Ohkura H, Rabouille C (2002) Report on the 17th European *Drosophila* research conference. *BioEssays* 24: 99-101

Chanut F, Woo K, Pereira S, Donohoe TJ, Chang S-Y, Lavery T, Jarman AP, Heberlein U (2002) Rough eye is a gain-of-function allele of amos that disrupts regulation of the proneural gene atonal during *Drosophila* retinal differentiation. *Genetics* 160: 623-635

Jarman AP (2002) Studies of mechanosensation in *Drosophila*. *Hum Mol Genet* 11: 1215-1218

#### **2001**

Jarman AP (2001) Developmental genetics of the eye. (Guest editor) *Seminars in Cell and Developmental Biology* 12(6)

Kirby RJ, Hamilton GM, Finnegan DJ, Johnson KJ, Jarman AP (2001) The *Drosophila* homologue of the myotonic dystrophy associated gene, SIX5, is required for muscle and gonad development. *Curr Biol* 11: 1044-1049

Rawlins EL, Jarman AP (2001) Mitogens match cell numbers to local demand. *Trends Cell Biol* 11: 277-278