

**\*\*A large-scale RNAi screen identifies functional classes of genes shaping synaptic development and maintenance.**

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PMID: 22542760

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Vossfeldt H, Butzlaff M, Prüssing K, Ní Chárthaigh RA, Karsten P, Lankes A, Hamm S, Simons M, Adryan B, Schulz JB, Voigt A.

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Zhang J, Liu M, Su Y, Du J, Zhu AJ.

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Molnar C, Casado M, López-Varea A, Cruz C, de Celis JF.

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PMID: 22606343

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**Control of neuronal cell fate and number by integration of distinct daughter cell proliferation modes with temporal progression.**

Ulvklo C, MacDonald R, Bivik C, Baumgardt M, Karlsson D, Thor S.  
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PMID: 22411915

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**Gustatory habituation in *Drosophila* relies on rutabaga (adenylate cyclase)-dependent plasticity of GABAergic inhibitory neurons.**

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PMID: 22567167

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Vilain S, Esposito G, Haddad D, Schaap O, Dobрева MP, Vos M, Van Meensel S, Morais VA, De Strooper B, Verstreken P.

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Schmidt I, Thomas S, Kain P, Risse B, Naffin E, Klämbt C.

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PMID: 22649226

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**The function of the M-line protein obscurin in controlling the symmetry of the sarcomere in the flight muscle of *Drosophila*.**

Katzemich A, Kreisköther N, Alexandrovich A, Elliott C, Schöck F, Leonard K, Sparrow J, Bullard B.

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PMID: 22467859

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**Antagonistic regulation of apoptosis and differentiation by the Cut transcription factor represents a tumor-suppressing mechanism in *Drosophila*.**

Zhai Z, Ha N, Papagiannouli F, Hamacher-Brady A, Brady N, Sorge S, Bezdán D, Lohmann I.

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**Seventy-five genetic loci influencing the human red blood cell.**

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PMID: 23222517

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PMID: 22426252

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Zeng X, Hou SX.

Development. 2012 Nov;139(21):3917-25. doi: 10.1242/dev.083030.

PMID: 23048182

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**The Notch signalling system: recent insights into the complexity of a conserved pathway.**

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**Extradenticle and homothorax control adult muscle fiber identity in Drosophila.**

Bryantsev AL, Duong S, Brunetti TM, Chechenova MB, Lovato TL, Nelson C, Shaw E, Uhl JD, Gebelein B, Cripps RM.

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**Wnt/PCP proteins regulate stereotyped axon branch extension in Drosophila.**

Ng J.

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PMID: 22147954

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**Developmental expression of drop-dead is required for early adult survival and normal body mass in Drosophila melanogaster.**

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**Genetic analysis of fibroblast growth factor signaling in the Drosophila eye.**

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**The cell cycle timing of centromeric chromatin assembly in Drosophila meiosis is distinct from mitosis yet requires CAL1 and CENP-C.**

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**The tumour suppressor Lethal (2) giant discs is required for the function of the ESCRT-III component Shrub/CHMP4.**

Troost T, Jaeckel S, Ohlenhard N, Klein T.

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PMID: 22389409

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**New negative feedback regulators of Egfr signaling in Drosophila.**

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Kang MJ, Chung J, Ryou HD.

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**Nuclear envelope budding enables large ribonucleoprotein particle export during synaptic Wnt signaling.**

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Sampson CJ, Valanne S, Fauvarque MO, Hultmark D, Rämét M, Williams MJ.

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**Alterations of the CIB2 calcium- and integrin-binding protein cause Usher syndrome type 1J and nonsyndromic deafness DFNB48.**

Riazuddin S, Belyantseva IA, Giese AP, Lee K, Indzhykulian AA, Nandamuri SP, Yousaf R, Sinha GP, Lee S, Terrell D, Hegde RS, Ali RA, Anwar S, Andrade-Elizondo PB, Sirmaci A, Parise LV, Basit S, Wali A, Ayub M, Ansar M, Ahmad W, Khan SN, Akram J, Tekin M, Riazuddin S, Cook T, Buschbeck EK, Frolenkov GI, Leal SM, Friedman TB, Ahmed ZM.

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**Uracil-containing DNA in Drosophila: stability, stage-specific accumulation, and developmental involvement.**

Muha V, Horváth A, Békési A, Pukáncsik M, Hodoscsek B, Merényi G, Róna G, Batki J, Kiss I, Jankovics F, Vilmos P, Erdélyi M, Vértessy BG.

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**A role for O-GlcNAcylation in setting circadian clock speed.**

Kim EY, Jeong EH, Park S, Jeong HJ, Edery I, Cho JW.  
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PMID: 22327476

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Xia R, Liu Y, Yang L, Gal J, Zhu H, Jia J.  
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PMID: 22443542

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PMID: 23152840

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**The unique GGA clathrin adaptor of Drosophila melanogaster is not essential.**

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PMID: 22732571

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**Differential requirements for Myocyte Enhancer Factor-2 during adult myogenesis in Drosophila.**

Bryantsev AL, Baker PW, Lovato TL, Jaramillo MS, Cripps RM.  
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**Novel regulators of planar cell polarity: a genetic analysis in Drosophila.**

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**miR-92b regulates Mef2 levels through a negative-feedback circuit during Drosophila muscle development.**

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PMID: 22899845

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**Septin 4, the drosophila ortholog of human CDCrel-1, accumulates in parkin mutant brains and is functionally related to the Nedd4 E3 ubiquitin ligase.**

Muñoz-Soriano V, Nieto-Arellano R, Paricio N.

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PMID: 22562816

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**Functional genomics identifies neural stem cell sub-type expression profiles and genes regulating neuroblast homeostasis.**

Carney TD, Miller MR, Robinson KJ, Bayraktar OA, Osterhout JA, Doe CQ.

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**Requirement for Pak3 in Rac1-induced organization of actin and myosin during Drosophila larval wound healing.**

Baek SH, Cho HW, Kwon YC, Lee JH, Kim MJ, Lee H, Choe KM.

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**Cryptocephal, the Drosophila melanogaster ATF4, is a specific coactivator for ecdysone receptor isoform B2.**

Gauthier SA, VanHaften E, Cherbas L, Cherbas P, Hewes RS.  
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**Combinatorial control of temporal gene expression in the *Drosophila* wing by enhancers and core promoters.**

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PMID: 22992320

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**An in vivo large-scale chemical screening platform using *Drosophila* for anti-cancer drug discovery.**

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**Polycomb group genes *Psc* and *Su(z)2* maintain somatic stem cell identity and activity in *Drosophila*.**

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PMID: 23285219

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**Identification of human proteins that modify misfolding and proteotoxicity of pathogenic ataxin-1.**

Petrakis S, Raskó T, Russ J, Friedrich RP, Stroedicke M, Riechers SP, Muehlenberg K, Möller A, Reinhardt A, Vinayagam A, Schaefer MH, Boutros M, Tricoire H, Andrade-Navarro MA, Wanker EE.  
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**Transcriptional regulation of Profilin during wound closure in *Drosophila* larvae.**

Brock AR, Wang Y, Berger S, Renkawitz-Pohl R, Han VC, Wu Y, Galko MJ.  
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**In vivo Polycomb kinetics and mitotic chromatin binding distinguish stem cells from differentiated cells.**

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Genes Dev. 2012 Apr 15;26(8):857-71. doi: 10.1101/gad.184648.111.  
PMID: 22508729

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**Genetic identification of intracellular trafficking regulators involved in Notch-dependent binary cell fate acquisition following asymmetric cell division.**

Le Bras S, Rondanino C, Kriegel-Taki G, Dussert A, Le Borgne R.

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**Genome-wide transcription analysis of clinal genetic variation in Drosophila.**

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PMID: 22514645

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**Drosophila apc regulates delamination of invasive epithelial clusters.**

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**A differential requirement for SUMOylation in proliferating and non-proliferating cells during Drosophila development.**

Kanakousaki K, Gibson MC.

Development. 2012 Aug;139(15):2751-62. doi: 10.1242/dev.082974. Epub 2012 Jun 28.

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**Genetic screen for regulators of lymph gland homeostasis and hemocyte maturation in Drosophila.**

Tan KL, Goh SC, Minakhina S.

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PMID: 22413093

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**Loss of the starvation-induced gene Rack1 leads to glycogen deficiency and impaired autophagic responses in Drosophila.**

Erdi B, Nagy P, Zvara A, Varga A, Piracs K, Ménesi D, Puskás LG, Juhász G.

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PMID: 22562043

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**Ecdysone induced gene expression is associated with acetylation of histone H3 lysine 23 in Drosophila melanogaster.**

Bodai L, Zsindely N, Gáspár R, Kristó I, Komonyi O, Boros IM.  
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PMID: 22808194

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**Whacked and Rab35 polarize dynein-motor-complex-dependent seamless tube growth.**

Schottenfeld-Roames J, Ghabrial AS.  
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PMID: 22407366

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**Essential roles of the Tap42-regulated protein phosphatase 2A (PP2A) family in wing imaginal disc development of *Drosophila melanogaster*.**

Wang N, Leung HT, Mazalouskas MD, Watkins GR, Gomez RJ, Wadzinski BE.  
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PMID: 22701670

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**The homeodomain protein defective proventriculus is essential for male accessory gland development to enhance fecundity in *Drosophila*.**

Minami R, Wakabayashi M, Sugimori S, Taniguchi K, Kokuryo A, Imano T, Adachi-Yamada T, Watanabe N, Nakagoshi H.  
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**Mechanism of evenness interrupted (Evi)-exosome release at synaptic boutons.**

Koles K, Nunnari J, Korkut C, Barria R, Brewer C, Li Y, Leszyk J, Zhang B, Budnik V.  
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PMID: 22437826

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***Drosophila melanogaster* p24 trafficking proteins have vital roles in development and reproduction.**

Saleem S, Schwedes CC, Ellis LL, Grady ST, Adams RL, Johnson N, Whittington JR, Carney GE.  
Mech Dev. 2012 Jul;129(5-8):177-91. doi: 10.1016/j.mod.2012.04.002. Epub 2012 Apr 24.  
PMID: 22554671

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**Expression of a desaturase gene, *desat1*, in neural and nonneural tissues separately affects perception and emission of sex pheromones in *Drosophila*.**

Bousquet F, Nojima T, Houot B, Chauvel I, Chaudy S, Dupas S, Yamamoto D, Ferveur JF.  
Proc Natl Acad Sci U S A. 2012 Jan 3;109(1):249-54. doi: 10.1073/pnas.1109166108. Epub 2011 Nov 23.

PMID: 22114190

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Meier K, Mathieu EL, Finkernagel F, Reuter LM, Scharfe M, Doehlemann G, Jarek M, Brehm A. PLoS Genet. 2012;8(5):e1002676. doi: 10.1371/journal.pgen.1002676. Epub 2012 May 3.

PMID: 22570633

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**The HIV-1 Vpu protein induces apoptosis in Drosophila via activation of JNK signaling.**

Marchal C, Vinatier G, Sanial M, Plessis A, Pret AM, Limbourg-Bouchon B, Théodore L, Netter S. PLoS One. 2012;7(3):e34310. doi: 10.1371/journal.pone.0034310. Epub 2012 Mar 29.

PMID: 22479597

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**The ubiquitin-specific protease 12 (USP12) is a negative regulator of notch signaling acting on notch receptor trafficking toward degradation.**

Moretti J, Chastagner P, Liang CC, Cohn MA, Israël A, Brou C.

J Biol Chem. 2012 Aug 24;287(35):29429-41. doi: 10.1074/jbc.M112.366807. Epub 2012 Jul 9.

PMID: 22778262

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**Identified peptidergic neurons in the Drosophila brain regulate insulin-producing cells, stress responses and metabolism by coexpressed short neuropeptide F and corazonin.**

Kapan N, Lushchak OV, Luo J, Nässel DR.

Cell Mol Life Sci. 2012 Dec;69(23):4051-66. doi: 10.1007/s00018-012-1097-z. Epub 2012 Jul 25.

PMID: 22828865

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**Genetic inhibition of solute-linked carrier 39 family transporter 1 ameliorates a $\beta$  pathology in a Drosophila model of Alzheimer's disease.**

Lang M, Wang L, Fan Q, Xiao G, Wang X, Zhong Y, Zhou B.

PLoS Genet. 2012;8(4):e1002683. doi: 10.1371/journal.pgen.1002683. Epub 2012 Apr 26.

PMID: 22570624

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**Dopamine neurons modulate pheromone responses in Drosophila courtship learning.**

Keleman K, Vrontou E, Krüttner S, Yu JY, Kurtovic-Kozaric A, Dickson BJ.

Nature. 2012 Sep 6;489(7414):145-9. doi: 10.1038/nature11345.

PMID: 22902500

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**The conserved transcription factor Mef2 has multiple roles in adult Drosophila musculature formation.**

Soler C, Han J, Taylor MV.

Development. 2012 Apr;139(7):1270-5. doi: 10.1242/dev.077875. Epub 2012 Feb 22.

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**Drosophila activated Cdc42 kinase has an anti-apoptotic function.**

Schoenherr JA, Drennan JM, Martinez JS, Chikka MR, Hall MC, Chang HC, Clemens JC.

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PMID: 22615583

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**The Drosophila RZZ complex - roles in membrane trafficking and cytokinesis.**

Wainman A, Giansanti MG, Goldberg ML, Gatti M.

J Cell Sci. 2012 Sep 1;125(Pt 17):4014-25. doi: 10.1242/jcs.099820. Epub 2012 Jun 8.

PMID: 22685323

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**A Drosophila asthma model - what the fly tells us about inflammatory diseases of the lung.**

Roeder T, Isermann K, Kallsen K, Uliczka K, Wagner C.

Adv Exp Med Biol. 2012;710:37-47. doi: 10.1007/978-1-4419-5638-5\_5. Review.

PMID: 22127884

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**Visualizing neuromodulation in vivo: TANGO-mapping of dopamine signaling reveals appetite control of sugar sensing.**

Inagaki HK, Ben-Tabou de-Leon S, Wong AM, Jagadish S, Ishimoto H, Barnea G, Kitamoto T, Axel R, Anderson DJ.

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PMID: 22304923

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**Dendritic filopodia, Ripped Pocket, NOMPC, and NMDARs contribute to the sense of touch in Drosophila larvae.**

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PMID: 22474327

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Berger C, Harzer H, Burkard TR, Steinmann J, van der Horst S, Laurenson AS, Novatchkova M, Reichert H, Knoblich JA.

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PMID: 22467854

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Lloyd TE, Machamer J, O'Hara K, Kim JH, Collins SE, Wong MY, Sahin B, Imlach W, Yang Y, Levitan ES, McCabe BD, Kolodkin AL.

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PMID: 22223681

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