

## VDRRC publications 2017 (total 376)

### **The APC/C Coordinates Retinal Differentiation with G1 Arrest through the Nek2-Dependent Modulation of Wingless Signaling.**

Martins T, Meghini F, Florio F, Kimata Y.

Dev Cell. 2017 Jan 9;40(1):67-80. doi: 10.1016/j.devcel.2016.12.005.

PMID: 28041905

[\[Abstract\]](#)

### **APC/CFzr/Cdh1-Dependent Regulation of Planar Cell Polarity Establishment via Nek2 Kinase Acting on Dishevelled.**

Weber U, Mlodzik M.

Dev Cell. 2017 Jan 9;40(1):53-66. doi: 10.1016/j.devcel.2016.12.006.

PMID: 28041906

[\[Abstract\]](#)

### **EGFR/ARF6 regulation of Hh signalling stimulates oncogenic Ras tumour overgrowth.**

Chabu C, Li DM, Xu T.

Nat Commun. 2017 Mar 10;8:14688. doi: 10.1038/ncomms14688.

PMID: 28281543

[\[Abstract\]](#)

### **Warts Signaling Controls Organ and Body Growth through Regulation of Ecdysone.**

Moeller ME, Nagy S, Gerlach SU, Soegaard KC, Danielsen ET, Texada MJ, Rewitz KF.

Curr Biol. 2017 Jun 5;27(11):1652-1659.e4. doi: 10.1016/j.cub.2017.04.048. Epub 2017 May 18.

PMID: 28528906

[\[Abstract\]](#)

### **RNAi of arcRNA hsrw affects sub-cellular localization of Drosophila FUS to drive neurodegeneration.**

Lo Piccolo L, Yamaguchi M.

Exp Neurol. 2017 Jun;292:125-134. doi: 10.1016/j.expneurol.2017.03.011. Epub 2017 Mar 22.

PMID: 28342748

[\[Abstract\]](#)

### **Free flight odor tracking in Drosophila: Effect of wing chemosensors, sex and pheromonal gene regulation.**

Houot B, Gigot V, Robichon A, Ferveur JF.

Sci Rep. 2017 Jan 9;7:40221. doi: 10.1038/srep40221.

PMID:28067325

[\[Abstract\]](#)

**In vivo RNAi in the Drosophila Follicular Epithelium: Analysis of Stem Cell Maintenance, Proliferation, and Differentiation.**

Riechmann V.

Methods Mol Biol. 2017;1622:185-206. doi: 10.1007/978-1-4939-7108-4\_14.

PMID:28674810

[\[Abstract\]](#)

**Drosophila MIC60/mitofilin conducts dual roles in mitochondrial motility and crista structure.**

Tsai PI, Papakyrikos AM, Hsieh CH, Wang X.

Mol Biol Cell. 2017 Nov 15;28(24):3471-3479. doi: 10.1091/mbc.E17-03-0177. Epub 2017 Sep 13.

PMID: 28904209

[\[Abstract\]](#)

**Hearing regulates Drosophila aggression.**

Versteven M, Vanden Broeck L, Geurten B, Zwarts L, Decraecker L, Beelen M, Göpfert MC, Heinrich R, Callaerts P.

Proc Natl Acad Sci U S A. 2017 Feb 21;114(8):1958-1963. doi: 10.1073/pnas.1605946114. Epub 2017 Jan 23.

PMID: 28115690

[\[Abstract\]](#)

**A STRIPAK complex mediates axonal transport of autophagosomes and dense core vesicles through PP2A regulation.**

Neisch AL, Neufeld TP, Hays TS.

J Cell Biol. 2017 Feb;216(2):441-461. doi: 10.1083/jcb.201606082. Epub 2017 Jan 18.

PMID: 28100687

[\[Abstract\]](#)

**Class III phosphatidylinositol-3-OH kinase controls epithelial integrity through endosomal LKB1 regulation.**

O'Farrell F, Lobert VH, Sneegen M, Jain A, Katheder NS, Wenzel EM, Schultz SW, Tan KW, Brech A, Stenmark H, Rusten TE.

Nat Cell Biol. 2017 Dec;19(12):1412-1423. doi: 10.1038/ncb3631. Epub 2017 Oct 30.

PMID: 29084199

[\[Abstract\]](#)

**Capping Enzyme mRNA-cap/RNGTT Regulates Hedgehog Pathway Activity by Antagonizing Protein Kinase A.**

Chen P, Zhou Z, Yao X, Pang S, Liu M, Jiang W, Jiang J, Zhang Q.

Sci Rep. 2017 Jun 6;7(1):2891. doi: 10.1038/s41598-017-03165-2.

PMID: 28588207

[\[Abstract\]](#)

**A *Drosophila* model of myeloproliferative neoplasm reveals a feed-forward loop in the JAK pathway mediated by p38 MAPK signalling.**

Terriente-Félix A, Pérez L, Bray SJ, Nebreda AR, Milán M.

Dis Model Mech. 2017 Apr 1;10(4):399-407. doi: 10.1242/dmm.028118. Epub 2017 Feb 24.

PMID: 28237966

[\[Abstract\]](#)

**RNAi-Mediated Reverse Genetic Screen Identified *Drosophila* Chaperones Regulating Eye and Neuromuscular Junction Morphology.**

Raut S, Mallik B, Parichha A, Amrutha V, Sahi C, Kumar V.

G3 (Bethesda). 2017 Jul 5;7(7):2023-2038. doi: 10.1534/g3.117.041632.

PMID: 28500055

[\[Abstract\]](#)

**Juvenile Hormone Suppresses Resistance to Infection in Mated Female *Drosophila melanogaster*.**

Schwenke RA, Lazzaro BP.

Curr Biol. 2017 Feb 20;27(4):596-601. doi: 10.1016/j.cub.2017.01.004. Epub 2017 Feb 9.

PMID: 28190728

[\[Abstract\]](#)

**Prevention of medulla neuron dedifferentiation by Nerfin-1 requires inhibition of Notch activity.**

Xu J, Hao X, Yin MX, Lu Y, Jin Y, Xu J, Ge L, Wu W, Ho M, Yang Y, Zhao Y, Zhang L.

Development. 2017 Apr 15;144(8):1510-1517. doi: 10.1242/dev.141341. Epub 2017 Feb 27.

PMID: 28242614

[\[Abstract\]](#)

**The tumor suppressor Brat controls neuronal stem cell lineages by inhibiting Deadpan and Zelda.**

Reichardt I, Bonnay F, Steinmann V, Loedige I, Burkard TR, Meister G, Knoblich JA.

EMBO Rep. 2017 Nov 30. pii: e201744188. doi: 10.15252/embr.201744188. [Epub ahead of print]

PMID: 29191977

[\[Abstract\]](#)

**Cyclic nucleotide signaling is required during synaptic refinement at the *Drosophila* neuromuscular junction.**

Vonhoff F, Keshishian H.

Dev Neurobiol. 2017 Jan;77(1):39-60. doi: 10.1002/dneu.22407. Epub 2016 Jun 20.

PMID: 27281494

[\[Abstract\]](#)

**Engrailed acts with Nejire to control decapentaplegic expression in the *Drosophila* ovarian stem cell niche.**

Luo L, Siah CK, Cai Y.

Development. 2017 Sep 15;144(18):3224-3231. doi: 10.1242/dev.145474.

PMID: 28928281

[\[Abstract\]](#)

**Gene CG15630 (fipi) is involved in regulation of the interpulse interval in Drosophila courtship song.**

Fedotov SA, Bragina JV, Besedina NG, Danilenkova LV, Kamysheva EA, Kamyshev NG.

J Neurogenet. 2017 Nov 30:1-12. doi: 10.1080/01677063.2017.1405000. [Epub ahead of print]

PMID: 29191114

[\[Abstract\]](#)

**Local Juvenile Hormone activity regulates gut homeostasis and tumor growth in adult Drosophila.**

Rahman MM, Franch-Marro X, Maestro JL, Martin D, Casali A.

Sci Rep. 2017 Sep 15;7(1):11677. doi: 10.1038/s41598-017-11199-9.

PMID: 28916802

[\[Abstract\]](#)

**PWP1 Mediates Nutrient-Dependent Growth Control through Nucleolar Regulation of Ribosomal Gene Expression.**

Liu Y, Mattila J, Ventelä S, Yadav L, Zhang W, Lamichane N, Sundström J, Kauko O, Grénman R, Varjosalo M, Westermarck J, Hietakangas V.

Dev Cell. 2017 Oct 23;43(2):240-252.e5. doi: 10.1016/j.devcel.2017.09.022.

PMID: 29065309

[\[Abstract\]](#)

**Golgi-Resident Gao Promotes Protrusive Membrane Dynamics.**

Solis GP, Bilousov O, Koval A, Lüchtenborg AM, Lin C, Katanaev VL.

Cell. 2017 Aug 24;170(5):939-955.e24. doi: 10.1016/j.cell.2017.07.015.

PMID: 28803726

[\[Abstract\]](#)

**Functional studies of Drosophila zinc transporters reveal the mechanism for zinc excretion in Malpighian tubules.**

Yin S, Qin Q, Zhou B.

BMC Biol. 2017 Feb 14;15(1):12. doi: 10.1186/s12915-017-0355-9.

PMID: 28196538

[\[Abstract\]](#)

**dMyc is required in retinal progenitors to prevent JNK-mediated retinal glial activation.**

Tavares L, Correia A, Santos MA, Relvas JB, Pereira PS.

PLoS Genet. 2017 Mar 7;13(3):e1006647. doi: 10.1371/journal.pgen.1006647. eCollection 2017 Mar.

PMID: 28267791

[\[Abstract\]](#)

**Auxilin Underlies Progressive Locomotor Deficits and Dopaminergic Neuron Loss in a *Drosophila* Model of Parkinson's Disease.**

Song L, He Y, Ou J, Zhao Y, Li R, Cheng J, Lin CH, Ho MS.

Cell Rep. 2017 Jan 31;18(5):1132-1143. doi: 10.1016/j.celrep.2017.01.005.

PMID: 28147270

[\[Abstract\]](#)

**TRiC/CCT chaperonins are essential for maintaining myofibril organization, cardiac physiological rhythm, and lifespan.**

Melkani GC, Bhide S, Han A, Vyas J, Livelio C, Bodmer R, Bernstein SI.

FEBS Lett. 2017 Nov;591(21):3447-3458. doi: 10.1002/1873-3468.12860. Epub 2017 Oct 10.

PMID: 28963798

[\[Abstract\]](#)

**The Ubiquitin Ligase CHIP Integrates Proteostasis and Aging by Regulation of Insulin Receptor Turnover.**

Tawo R, Pokrzywa W, Kevei É, Akyuz ME, Balaji V, Adrian S, Höhfeld J, Hoppe T.

Cell. 2017 Apr 20;169(3):470-482.e13. doi: 10.1016/j.cell.2017.04.003.

PMID: 28431247

[\[Abstract\]](#)

**Glial-Specific Functions of Microcephaly Protein WDR62 and Interaction with the Mitotic Kinase AURKA Are Essential for *Drosophila* Brain Growth.**

Lim NR, Shohayeb B, Zaytseva O, Mitchell N, Millard SS, Ng DCH, Quinn LM.

Stem Cell Reports. 2017 Jul 11;9(1):32-41. doi: 10.1016/j.stemcr.2017.05.015. Epub 2017 Jun 15.

PMID: 28625535

[\[Abstract\]](#)

**Transcription Factor Antagonism Controls Enteroendocrine Cell Specification from Intestinal Stem Cells.**

Li Y, Pang Z, Huang H, Wang C, Cai T, Xi R.

Sci Rep. 2017 Apr 20;7(1):988. doi: 10.1038/s41598-017-01138-z.

PMID: 28428611

[\[Abstract\]](#)

**Central metabolic sensing remotely controls nutrient-sensitive endocrine response in *Drosophila* via Sir2/Sirt1-upd2-IIS axis.**

Banerjee KK, Deshpande RS, Koppula P, Ayyub C, Kolthur-Seetharam U.

J Exp Biol. 2017 Apr 1;220(Pt 7):1187-1191. doi: 10.1242/jeb.150805. Epub 2017 Jan 19.

PMID: 28104798

[\[Abstract\]](#)

**Kibra and Merlin Activate the Hippo Pathway Spatially Distinct from and Independent of Expanded.**

Su T, Ludwig MZ, Xu J, Fehon RG.

Dev Cell. 2017 Mar 13;40(5):478-490.e3. doi: 10.1016/j.devcel.2017.02.004.

PMID: 28292426

[\[Abstract\]](#)

**Laminin Levels Regulate Tissue Migration and Anterior-Posterior Polarity during Egg Morphogenesis in *Drosophila*.**

Díaz de la Loza MC, Díaz-Torres A, Zurita F, Rosales-Nieves AE, Moeendarbary E, Franze K, Martín-Bermudo MD, González-Reyes A.

Cell Rep. 2017 Jul 5;20(1):211-223. doi: 10.1016/j.celrep.2017.06.031.

PMID: 28683315

[\[Abstract\]](#)

**Functional characterisation of the *Drosophila* cg6568 gene in host defence against *Mycobacterium marinum*.**

Jin HS, Lee HM, Lee DH, Cha GH, Cho KS, Jang J, Jo EK.

Microbes Infect. 2017 Jun;19(6):351-357. doi: 10.1016/j.micinf.2017.02.001. Epub 2017 Feb 27.

PMID: 28245983

[\[Abstract\]](#)

**Fibroblast growth factor signaling instructs ensheathing glia wrapping of *Drosophila* olfactory glomeruli.**

Wu B, Li J, Chou YH, Luginbuhl D, Luo L.

Proc Natl Acad Sci U S A. 2017 Jul 18;114(29):7505-7512. doi: 10.1073/pnas.1706533114. Epub 2017 Jul 3.

PMID: 28674010

[\[Abstract\]](#)

**Imp and Syp RNA-binding proteins govern decommissioning of *Drosophila* neural stem cells.**

Yang CP, Samuels TJ, Huang Y, Yang L, Ish-Horowicz D, Davis I, Lee T.

Development. 2017 Oct 1;144(19):3454-3464. doi: 10.1242/dev.149500. Epub 2017 Aug 29.

PMID: 28851709

[\[Abstract\]](#)

**Restraint of presynaptic protein levels by Wnd/DLK signaling mediates synaptic defects associated with the kinesin-3 motor Unc-104.**

Li J, Zhang YV, Asghari Adib E, Stanchev DT, Xiong X, Klinedinst S, Soppina P, Jahn TR, Hume RI, Rasse TM, Collins CA.

Elife. 2017 Sep 19;6. pii: e24271. doi: 10.7554/eLife.24271.

PMID: 28925357

[\[Abstract\]](#)

**julius seizure, a Drosophila Mutant, Defines a Neuronal Population Underlying Epileptogenesis.**

Horne M, Krebushevski K, Wells A, Tunio N, Jarvis C, Francisco G, Geiss J, Recknagel A, Deitcher DL. Genetics. 2017 Mar;205(3):1261-1269. doi: 10.1534/genetics.116.199083. Epub 2017 Jan 11.

PMID: 28082408

[\[Abstract\]](#)

**Drosophila muscles regulate the immune response against wasp infection via carbohydrate metabolism.**

Yang H, Hultmark D.

Sci Rep. 2017 Nov 16;7(1):15713. doi: 10.1038/s41598-017-15940-2.

PMID: 29146985

[\[Abstract\]](#)

**Identification of genetic networks that act in the somatic cells of the testis to mediate the developmental program of spermatogenesis.**

Fairchild MJ, Islam F, Tanentzapf G.

PLoS Genet. 2017 Sep 28;13(9):e1007026. doi: 10.1371/journal.pgen.1007026. eCollection 2017 Sep.

PMID: 28957323

[\[Abstract\]](#)

**Injury-stimulated and self-restrained BMP signaling dynamically regulates stem cell pool size during Drosophila midgut regeneration.**

Tian A, Wang B, Jiang J.

Proc Natl Acad Sci U S A. 2017 Mar 28;114(13):E2699-E2708. doi: 10.1073/pnas.1617790114. Epub 2017 Mar 13.

PMID: 28289209

[\[Abstract\]](#)

**Drosophila Sulf1 is required for the termination of intestinal stem cell division during regeneration.**

Takemura M, Nakato H.

J Cell Sci. 2017 Jan 15;130(2):332-343. doi: 10.1242/jcs.195305. Epub 2016 Nov 25.

PMID: 27888216

[\[Abstract\]](#)

**The initiator caspase Dronc plays a non-apoptotic role in promoting DNA damage signalling in D. melanogaster.**

Khan C, Muliylil S, Ayyub C, Rao BJ.

J Cell Sci. 2017 Sep 15;130(18):2984-2995. doi: 10.1242/jcs.200782. Epub 2017 Jul 27.

PMID: 28751499

[\[Abstract\]](#)

**Feedback amplification loop drives malignant growth in epithelial tissues.**

Muzzopappa M, Murcia L, Milán M.

Proc Natl Acad Sci U S A. 2017 Aug 29;114(35):E7291-E7300. doi: 10.1073/pnas.1701791114. Epub 2017 Aug 14.

PMID: 28808034

[\[Abstract\]](#)

**The spliceosome-associated protein Mfap1 binds to VCP in Drosophila.**

Rode S, Ohm H, Zipfel J, Rumpf S.

PLoS One. 2017 Aug 24;12(8):e0183733. doi: 10.1371/journal.pone.0183733. eCollection 2017.

PMID: 28837687

[\[Abstract\]](#)

**Protein phosphatase 4 coordinates glial membrane recruitment and phagocytic clearance of degenerating axons in Drosophila.**

Winfree LM, Speese SD, Logan MA.

Cell Death Dis. 2017 Feb 23;8(2):e2623. doi: 10.1038/cddis.2017.40.

PMID: 28230857

[\[Abstract\]](#)

**Regulation of Drosophila hematopoietic sites by Activin- $\beta$  from active sensory neurons.**

Makhijani K, Alexander B, Rao D, Petraki S, Herboso L, Kukar K, Batool I, Wachner S, Gold KS, Wong C, O'Connor MB, Brückner K.

Nat Commun. 2017 Jul 27;8:15990. doi: 10.1038/ncomms15990.

PMID: 28748922

[\[Abstract\]](#)

**Actomyosin contractility modulates Wnt signaling through adherens junction stability**

ET Hall, EA Hoising, ED Sinkovics, EM Verheyen

doi: <https://doi.org/10.1101/220178>

[\[Abstract\]](#)

**Functional redundancy and nonredundancy between two Troponin C isoforms in Drosophila adult muscles.**

Chechenova MB, Maes S, Oas ST, Nelson C, Kiani KG, Bryantsev AL, Cripps RM.

Mol Biol Cell. 2017 Mar 15;28(6):760-770. doi: 10.1091/mbc.E16-07-0498. Epub 2017 Jan 11.

PMID: 28077621

[\[Abstract\]](#)



**A Series of Suppressive Signals within the Drosophila Circadian Neural Circuit Generates Sequential Daily Outputs.**

Liang X, Holy TE, Taghert PH.

Neuron. 2017 Jun 21;94(6):1173-1189.e4. doi: 10.1016/j.neuron.2017.05.007. Epub 2017 May 25.

PMID: 28552314

[\[Abstract\]](#)

**Cytoskeleton-mediated cell-cell contacts for Hedgehog reception.**

González-Méndez L, Seijo-Barandiarán I, Guerrero I.

Elife. 2017 Aug 21;6. pii: e24045. doi: 10.7554/eLife.24045.

PMID: 28825565

[\[Abstract\]](#)

**A Peptidergic Circuit Links the Circadian Clock to Locomotor Activity.**

King AN, Barber AF, Smith AE, Dreyer AP, Sitaraman D, Nitabach MN, Cavanaugh DJ, Sehgal A.

Curr Biol. 2017 Jul 10;27(13):1915-1927.e5. doi: 10.1016/j.cub.2017.05.089. Epub 2017 Jun 29.

PMID: 28669757

[\[Abstract\]](#)

**Regulatory Role of RNA Chaperone TDP-43 for RNA Misfolding and Repeat-Associated Translation in SCA31.**

Ishiguro T, Sato N, Ueyama M, Fujikake N, Sellier C, Kanegami A, Tokuda E, Zamiri B, Gall-Duncan T, Mirceta M, Furukawa Y, Yokota T, Wada K, Taylor JP, Pearson CE, Charlet-Berguerand N, Mizusawa H, Nagai Y, Ishikawa K.

Neuron. 2017 Apr 5;94(1):108-124.e7. doi: 10.1016/j.neuron.2017.02.046. Epub 2017 Mar 23.

PMID: 28343865

[\[Abstract\]](#)

**Data of sperm-entry inability in Drosophila melanogaster ovarian follicles that are depleted of s36 chorionic protein.**

Velentzas AD, Velentzas PD, Katarachia S, Mpakou VE, Papassideri IS, Stravopodis DJ.

Data Brief. 2017 Apr 8;12:180-183. doi: 10.1016/j.dib.2017.03.052. eCollection 2017 Jun.

PMID: 28443296

[\[Abstract\]](#)

**Long-term memory requires sequential protein synthesis in three subsets of mushroom body output neurons in Drosophila.**

Wu JK, Tai CY, Feng KL, Chen SL, Chen CC, Chiang AS.

Sci Rep. 2017 Aug 2;7(1):7112. doi: 10.1038/s41598-017-07600-2.

PMID: 28769066

[\[Abstract\]](#)

**Scalloped a member of the Hippo tumor suppressor pathway controls mushroom body size in *Drosophila* brain by non-canonical regulation of neuroblast proliferation.**

Rohith BN, Shyamala BV.

Dev Biol. 2017 Dec 15;432(2):203-214. doi: 10.1016/j.ydbio.2017.10.016.

PMID: 29080790

[\[Abstract\]](#)

**A Role for the Twins Protein Phosphatase (PP2A-B55) in the Maintenance of *Drosophila* Genome Integrity.**

Merigliano C, Marzio A, Renda F, Somma MP, Gatti M, Verni F.

Genetics. 2017 Mar;205(3):1151-1167. doi: 10.1534/genetics.116.192781. Epub 2016 Dec 30.

PMID: 28040742

[\[Abstract\]](#)

**Adipocyte Metabolic Pathways Regulated by Diet Control the Female Germline Stem Cell Lineage in *Drosophila melanogaster*.**

Matsuoka S, Armstrong AR, Sampson LL, Laws KM, Drummond-Barbosa D.

Genetics. 2017 Jun;206(2):953-971. doi: 10.1534/genetics.117.201921. Epub 2017 Apr 10.

PMID: 28396508

[\[Abstract\]](#)

**The protein phosphatase 4 complex promotes the Notch pathway and wingless transcription.**

Hall ET, Pradhan-Sundt T, Samnani F, Verheyen EM.

Biol Open. 2017 Aug 15;6(8):1165-1173. doi: 10.1242/bio.025221.

PMID: 28652317

[\[Abstract\]](#)

**Naturally-segregating Variation at *Ugt86Dd* Contributes to Nicotine Resistance in *Drosophila melanogaster***

C Highfill, J Tran, S Nguyen, T Moldenhauer, X Wang...

Genetics. 2017 Sep;207(1):311-325. doi: 10.1534/genetics.117.300058. Epub 2017 Jul 25.

PMID: 28743761

[\[Abstract\]](#)

**The deubiquitinating enzyme *Usp5* regulates Notch and RTK signaling during *Drosophila* eye development.**

Ling X, Huang Q, Xu Y, Jin Y, Feng Y, Shi W, Ye X, Lin Y, Hou L, Lin X.

FEBS Lett. 2017 Mar;591(6):875-888. doi: 10.1002/1873-3468.12580. Epub 2017 Mar 6.

PMID: 28140449

[\[Abstract\]](#)

**The splicing co-factor Barricade/Tat-SF1 is required for cell cycle and lineage progression in Drosophila neural stem cells.**

Abramczuk MK, Burkard TR, Rolland V, Steinmann V, Duchek P, Jiang Y, Wissel S, Reichert H, Knoblich JA. Development. 2017 Nov 1;144(21):3932-3945. doi: 10.1242/dev.152199. Epub 2017 Sep 21.

PMID: 28935704

[\[Abstract\]](#)

**Intestinal stem cell ablation reveals differential requirements for survival in response to chemical challenge.**

Resende LP, Truong ME, Gomez A, Jones DL.

Dev Biol. 2017 Apr 1;424(1):10-17. doi: 10.1016/j.ydbio.2017.01.004. Epub 2017 Jan 17.

PMID: 28104389

[\[Abstract\]](#)

**A Population of Projection Neurons that Inhibits the Lateral Horn but Excites the Antennal Lobe through Chemical Synapses in Drosophila.**

Shimizu K, Stopfer M.

Front Neural Circuits. 2017 May 3;11:30. doi: 10.3389/fncir.2017.00030. eCollection 2017.

PMID: 28515683

[\[Abstract\]](#)

**E2F/DP Prevents Cell-Cycle Progression in Endocycling Fat Body Cells by Suppressing dATM Expression**

Ana Guarner, Robert Morris, Michael Korenjak, Myriam Boukhali, Maria Paula Zappia, Capucine Van Rechem, Johnathan R. Whetstine, Sridhar Ramaswamy, Lee Zou, Maxim V. Frolov, Wilhelm Haas  
Dev Cell (2107) <https://doi.org/10.1016/j.devcel.2017.11.008> - in press

**UbcD1 regulates Hedgehog signaling by directly modulating Ci ubiquitination and processing.**

Pan C, Xiong Y, Lv X, Xia Y, Zhang S, Chen H, Fan J, Wu W, Liu F, Wu H, Zhou Z, Zhang L, Zhao Y.

EMBO Rep. 2017 Nov;18(11):1922-1934. doi: 10.15252/embr.201643289. Epub 2017 Sep 8.

PMID: 28887318

[\[Abstract\]](#)

**Drosophila LKB1 is required for the assembly of the polarized actin structure that allows spermatid individualization.**

Couderc JL, Richard G, Vachias C, Mirouse V.

PLoS One. 2017 Aug 2;12(8):e0182279. doi: 10.1371/journal.pone.0182279. eCollection 2017.

PMID: 28767695

[\[Abstract\]](#)

**Studying Nonproliferative Roles for Egfr Signaling in Tissue Morphogenesis Using Dorsal Closure of the Drosophila Embryo.**

Reed B, Harden N.

Methods Mol Biol. 2017;1652:229-256. doi: 10.1007/978-1-4939-7219-7\_16.

PMID: 28791646

[\[Abstract\]](#)

**Gene regulation and species-specific evolution of free-flight odor-tracking in *Drosophila*.**

Houot B, Cazalé-Debat L, Fraichard S, Everaerts C, Saxena N, Sane SP, Ferveur JF.

Mol Biol Evol. 2017 Sep 12. doi: 10.1093/molbev/msx241. [Epub ahead of print]

PMID: 28961885

[\[Abstract\]](#)

**SUMO regulates the activity of Smoothed and Costal-2 in *Drosophila* Hedgehog signaling.**

Zhang J, Liu Y, Jiang K, Jia J.

Sci Rep. 2017 Feb 14;7:42749. doi: 10.1038/srep42749.

PMID: 28195188

[\[Abstract\]](#)

**Variations in basement membrane mechanics are linked to epithelial morphogenesis.**

Chlasta J, Milani P, Runel G, Duteyrat JL, Arias L, Lamiré LA, Boudaoud A, Grammont M.

Development. 2017 Dec 1;144(23):4350-4362. doi: 10.1242/dev.152652. Epub 2017 Oct 16.

PMID: 29038305

[\[Abstract\]](#)

**In vivo screening reveals interactions between *Drosophila* Manf and genes involved in the mitochondria and the ubiquinone synthesis pathway.**

Lindström R, Lindholm P, Palgi M, Saarma M, Heino TI.

BMC Genet. 2017 Jun 2;18(1):52. doi: 10.1186/s12863-017-0509-3.

PMID: 28578657

[\[Abstract\]](#)

**Spatio-temporally separated cortical flows and spindle geometry establish physical asymmetry in fly neural stem cells.**

Roubinet C, Tsankova A, Pham TT, Monnard A, Caussinus E, Affolter M, Cabernard C.

Nat Commun. 2017 Nov 9;8(1):1383. doi: 10.1038/s41467-017-01391-w.

PMID: 29123099

[\[Abstract\]](#)

**Reactive oxygen species-dependent Toll/NF- $\kappa$ B activation in the *Drosophila* hematopoietic niche confers resistance to wasp parasitism.**

Louradour I, Sharma A, Morin-Poulard I, Letourneau M, Vincent A, Crozatier M, Vanzo N.

Elife. 2017 Nov 1;6. pii: e25496. doi: 10.7554/eLife.25496.

PMID: 29091025

[\[Abstract\]](#)

**Dysfunction of different cellular degradation pathways contributes to specific  $\beta$ -amyloid42-induced pathologies.**

Ji XR, Cheng KC, Chen YR, Lin TY, Cheung CHA, Wu CL, Chiang HC.

FASEB J. 2017 Nov 10. pii: fj.201700199RR. doi: 10.1096/fj.201700199RR. [Epub ahead of print]

PMID: 29127191

[\[Abstract\]](#)

**Amyloid- $\beta$ 42 clearance and neuroprotection mediated by X-box binding protein 1 signaling decline with aging in the *Drosophila* brain.**

Marcora MS, Belfiori-Carrasco LF, Bocai NI, Morelli L, Castaño EM.

Neurobiol Aging. 2017 Dec;60:57-70. doi: 10.1016/j.neurobiolaging.2017.08.012. Epub 2017 Aug 24.

PMID: 28917667

[\[Abstract\]](#)

**The *Drosophila* small conductance potassium channel (SK) negatively regulates nociception.**

K Walcott, S Mauthner, A Tsubouchi, J Robertson

doi: <https://doi.org/10.1101/208868>

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**Shavenbaby and Yorkie mediate Hippo signaling to protect adult stem cells from apoptosis**

J Bohere, A Mancheno-Ferris, K Akino, Y Yamabe...

doi: <https://doi.org/10.1101/163279>

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**C-terminal Src kinase (Csk) regulates the tricellular junction protein Gliotactin independent of Src.**

Samarasekera GDNG, Auld VJ.

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PMID: 29167383

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**CycD/Cdk4 and Discontinuities in Dpp Signaling Activate TORC1 in the *Drosophila* Wing Disc.**

Romero-Pozuelo J, Demetriades C, Schroeder P, Telean AA.

Dev Cell. 2017 Aug 21;42(4):376-387.e5. doi: 10.1016/j.devcel.2017.07.019.

PMID: 28829945

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**JAK/STAT controls organ size and fate specification by regulating morphogen production and signalling.**

Recasens-Alvarez C, Ferreira A, Milán M.

Nat Commun. 2017 Jan 3;8:13815. doi: 10.1038/ncomms13815.

PMID: 28045022

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**highroad is induced by retinoids and clears mutant Rhodopsin-1 in Drosophila Retinitis Pigmentosa models.**

HW Huang, B Brown, J Chung, PM Domingos...

doi: <https://doi.org/10.1101/204131>

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**A Mesh-Duox pathway regulates homeostasis in the insect gut.**

Xiao X, Yang L, Pang X, Zhang R, Zhu Y, Wang P, Gao G, Cheng G.

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PMID: 28248301

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**Deep sequencing of the prothoracic gland transcriptome reveals new players in insect ecdysteroidogenesis.**

Nakaoka T, Iga M, Yamada T, Koujima I, Takeshima M, Zhou X, Suzuki Y, Ogiwara MH, Kataoka H.

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**Roles for the VCP co-factors Npl4 and Ufd1 in neuronal function in Drosophila melanogaster.**

Byrne DJ, Harmon MJ, Simpson JC, Blackstone C, O'Sullivan NC.

J Genet Genomics. 2017 Oct 20;44(10):493-501. doi: 10.1016/j.jgg.2017.06.003. Epub 2017 Sep 21.

PMID: 29037990

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**Neutral Competition for Drosophila Follicle and Cyst Stem Cell Niches Requires Vesicle Trafficking Genes.**

Cook MS, Cazin C, Amoyel M, Yamamoto S, Bach E, Nystul T.

Genetics. 2017 Jul;206(3):1417-1428. doi: 10.1534/genetics.117.201202. Epub 2017 May 16.

PMID: 28512187

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**Developmental diet regulates Drosophila lifespan via lipid autotoxins.**

Stefana MI, Driscoll PC, Obata F, Pengelly AR, Newell CL, MacRae JI, Gould AP.

Nat Commun. 2017 Nov 9;8(1):1384. doi: 10.1038/s41467-017-01740-9.

PMID: 29123106

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**Neuron-specific knockdown of the Drosophila fat induces reduction of life span, deficient locomotive ability, shortening of motoneuron terminal branches and defects in axonal targeting.**

Nakamura A, Tanaka R, Morishita K, Yoshida H, Higuchi Y, Takashima H, Yamaguchi M.  
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PMID: 28488382

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**A genetic framework controlling the differentiation of intestinal stem cells during regeneration in *Drosophila*.**

Zhai Z, Boquete JP, Lemaitre B.

PLoS Genet. 2017 Jun 29;13(6):e1006854. doi: 10.1371/journal.pgen.1006854. eCollection 2017 Jun.  
PMID: 28662029

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**Ret receptor tyrosine kinase sustains proliferation and tissue maturation in intestinal epithelia.**

Perea D, Guiu J, Hudry B, Konstantinidou C, Milona A, Hadjieconomou D, Carroll T, Hoyer N, Natarajan D, Kallijärvi J, Walker JA, Soba P, Thapar N, Burns AJ, Jensen KB, Miguel-Aliaga I.

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PMID: 28899900

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**An AMPK-dependent regulatory pathway in tau-mediated toxicity.**

Galasso A, Cameron CS, Frenguelli BG, Moffat KG.

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**Molecular Chaperone Calnexin Regulates the Function of *Drosophila* Sodium Channel Paralytic.**

Xiao X, Chen C, Yu TM, Ou J, Rui M, Zhai Y, He Y, Xue L, Ho MS.

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**AF-6 Protects Against Dopaminergic Dysfunction and Mitochondrial Abnormalities in *Drosophila* Models of Parkinson's Disease.**

Basil AH, Sim JPL, Lim GGY, Lin S, Chan HY, Engelender S, Lim KL.

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PMID: 28848400

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**Sec71 functions as a GEF for the small GTPase Arf1 to govern dendrite pruning of *Drosophila* sensory neurons.**

Wang Y, Zhang H, Shi M, Liou YC, Lu L, Yu F.

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**Complement-Related Regulates Autophagy in Neighboring Cells.**

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**The deubiquitinase UCHL5/UCH37 positively regulates Hedgehog signaling by deubiquitinating Smoothed.**

Zhou Z, Yao X, Pang S, Chen P, Jiang W, Shan Z, Zhang Q.

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**Zonda is a novel early component of the autophagy pathway in Drosophila.**

Melani M, Valko A, Romero NM, Aguilera MO, Acevedo JM, Bhujabal Z, Perez-Perri J, de la Riva-Carrasco RV, Katz MJ, Soriano E, D'Alessio C, Juhász G, Johansen T, Colombo MI, Wappner P.

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PMID: 28904211

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**Glial Draper Rescues A $\beta$  Toxicity in a Drosophila Model of Alzheimer's Disease.**

Ray A, Speese SD, Logan MA.

J Neurosci. 2017 Dec 6;37(49):11881-11893. doi: 10.1523/JNEUROSCI.0862-17.2017. Epub 2017 Nov 6.

PMID: 29109235

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**Functional screening of Alzheimer risk loci identifies PTK2B as an in vivo modulator and early marker of Tau pathology.**

Dourlen P, Fernandez-Gomez FJ, Dupont C, Grenier-Boley B, Bellenguez C, Obriot H, Caillierez R, Sottejeau Y, Chapuis J, Bretteville A, Abdelfettah F, Delay C, Malmanche N, Soininen H, Hiltunen M, Galas MC, Amouyel P, Sergeant N, Buée L, Lambert JC, Dermaut B.

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**Dendritic and Axonal L-Type Calcium Channels Cooperate to Enhance Motoneuron Firing Output during Drosophila Larval Locomotion.**

Kadas D, Klein A, Krick N, Worrell JW, Ryglewski S, Duch C.

J Neurosci. 2017 Nov 8;37(45):10971-10982. doi: 10.1523/JNEUROSCI.1064-17.2017. Epub 2017 Oct 6.



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**Characterization of a set of abdominal neuroendocrine cells that regulate stress physiology using colocalized diuretic peptides in *Drosophila*.**

Zandawala M, Marley R, Davies SA, Nässel DR.

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***Drosophila* p115 is required for Cdk1 activation and G2/M cell cycle transition.**

Ibar C, Glavic Á.

Mech Dev. 2017 Apr;144(Pt B):191-200. doi: 10.1016/j.mod.2017.04.001. Epub 2017 Apr 8.

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**Interplay between trauma and *Pseudomonas entomophila* infection in flies: a central role of the JNK pathway and of CrebA.**

Ragheb R, Chuyen A, Torres M, Defaye A, Seyres D, Kremmer L, Fernandez-Nunez N, Tricoire H, Rihet P, Nguyen C, Röder L, Perrin L.

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PMID: 29176735

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***Drosophila* neural stem cells are polarized by their daughter cells**

N Loyer, J Januschke

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**Essential basal cytonemes take up Hedgehog in the *Drosophila* wing imaginal disc.**

Chen W, Huang H, Hatori R, Kornberg TB. Development. 2017 Sep 1;144(17):3134-3144. doi:

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**Major hnRNP proteins act as general TDP-43 functional modifiers both in *Drosophila* and human neuronal cells.**

Appocher C, Mohagheghi F, Cappelli S, Stuani C, Romano M, Feiguin F, Buratti E.

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Simoes da Silva CJ, Fereres S, Simón R, Busturia A.

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PMID: 28712876

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**Signaling pathway for phagocyte priming upon encounter with apoptotic cells.**

Nonaka S, Ando Y, Kanetani T, Hoshi C, Nakai Y, Nainu F, Nagaosa K, Shiratsuchi A, Nakanishi Y.

J Biol Chem. 2017 May 12;292(19):8059-8072. doi: 10.1074/jbc.M116.769745. Epub 2017 Mar 21.

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**Hippo Reprograms the Transcriptional Response to Ras Signaling.**

Pascual J, Jacobs J, Sansores-Garcia L, Natarajan M, Zeitlinger J, Aerts S, Halder G, Hamaratoglu F.

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PMID: 28950103

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**Imp/Syp Temporal Gradients Govern Decommissioning Of Drosophila Neural Stem Cells**

CP Yang, TJ Samuels, Y Huang, L Yang...

doi: <https://doi.org/10.1101/136655>

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**Linker histone H1 prevents R-loop accumulation and genome instability in heterochromatin.**

Bayona-Feliu A, Casas-Lamesa A, Reina O, Bernués J, Azorín F.

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PMID: 28819201

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**The Super Elongation Complex Drives Neural Stem Cell Fate Commitment.**

Liu K, Shen D, Shen J, Gao SM, Li B, Wong C, Feng W, Song Y.

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Cannon L, Zambon AC, Cammarato A, Zhang Z, Vogler G, Munoz M, Taylor E, Cartry J, Bernstein SI, Melov S, Bodmer R.

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Ocorr K, Zambon A, Nudell Y, Pineda S, Diop S, Tang M, Akasaka T, Taylor E.

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Santana E, Casas-Tintó S.

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PMID: 29105522

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**The extracellular metalloprotease AdamTS-A anchors neural lineages in place within and preserves the architecture of the central nervous system.**

Skeath JB, Wilson BA, Romero SE, Snee MJ, Zhu Y, Lacin H.

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**Downregulation of DmMANF in Glial Cells Results in Neurodegeneration and Affects Sleep and Lifespan in *Drosophila melanogaster*.**

Walkowicz L, Kijak E, Krzeptowski W, Górská-Andrzejak J, Stratoulas V, Woznicka O, Chwastek E, Heino TI, Pyza EM.

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PMID: 29163014

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**An intracellular activation of Smoothed independent of Hedgehog stimulation in *Drosophila*.**

Jiang K, Liu Y, Zhang J, Jia J.

J Cell Sci. 2017 Nov 15. pii: jcs.211367. doi: 10.1242/jcs.211367. [Epub ahead of print]

PMID: 29142103

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**Maintenance of Miranda Localization in *Drosophila* Neuroblasts Involves Interaction with the Cognate mRNA.**

Ramat A, Hannaford M, Januschke J.

Curr Biol. 2017 Jul 24;27(14):2101-2111.e5. doi: 10.1016/j.cub.2017.06.016. Epub 2017 Jul 6.

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**Genetics of alcohol consumption in *Drosophila melanogaster*.**

Fochler S, Morozova TV, Davis MR, Gearhart AW, Huang W, Mackay TFC, Anholt RRH.  
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**A population of adult satellite-like cells in *Drosophila* is maintained through a switch in RNA-isoforms**

H Boukhatmi, S Bray

doi: <https://doi.org/10.1101/174151>

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**A hormonal cue promotes timely follicle cell migration by modulating transcription profiles.**

Manning L, Sheth J, Bridges S, Saadin A, Odinammadu K, Andrew D, Spencer S, Montell D, Starz-Gaiano M.

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**Myosin II governs collective cell migration behaviour downstream of guidance receptor signalling.**

Combedazou A, Choesmel-Cadamuro V, Gay G, Liu J, Dupré L, Ramel D, Wang X.

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**Metal-metal interaction mediates the iron induction of *Drosophila* MtnB.**

Qiang W, Huang Y, Wan Z, Zhou B.

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**The gap junction protein Innexin3 is required for eye disc growth in *Drosophila*.**

Richard M, Bauer R, Tavosanis G, Hoch M.

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PMID: 28390801

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**The age- and sex-specific decline of the 20s proteasome and the Nrf2/CncC signal transduction pathway in adaption and resistance to oxidative stress in *Drosophila melanogaster*.**

Pomatto LCD, Wong S, Carney C, Shen B, Tower J, Davies KJA.

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**An in vivo genetic screen in *Drosophila* identifies the orthologue of human cancer/testis gene SPO11 among a network of targets to inhibit lethal (3 ) malignant brain tumour growth.**

Rossi F, Molnar C, Hashiyama K, Heinen JP, Pampalona J, Llamazares S, Reina J, Hashiyama T, Rai M, Pollarolo G, Fernández-Hernández I, Gonzalez C.

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**Minos-insertion mutant of the *Drosophila* GBA gene homologue showed abnormal phenotypes of climbing ability, sleep and life span with accumulation of hydroxy-glucocerebroside.**

Kawasaki H, Suzuki T, Ito K, Takahara T, Goto-Inoue N, Setou M, Sakata K, Ishida N.

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**LSM12 and ME31B/DDX6 Define Distinct Modes of Posttranscriptional Regulation by ATAXIN-2 Protein Complex in *Drosophila* Circadian Pacemaker Neurons.**

Lee J, Yoo E, Lee H, Park K, Hur JH, Lim C.

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**Cooperative Control of Ecdysone Biosynthesis in *Drosophila* by Transcription Factors Séance, Ouija board, and Molting Defective.**

Uryu O, Ou Q, Komura-Kawa T, Kamiyama T, Iga M, Syrzycka M, Hirota K, Kataoka H, Honda BM, King-Jones K, Niwa R.

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PMID: 29187506

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**The essential requirement of an animal heme peroxidase protein during the wing maturation process in *Drosophila*.**

Bailey D, Basar MA, Nag S, Bondhu N, Teng S, Duttaroy A.

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**Identification of Genes that Maintain Behavioral and Structural Plasticity during Sleep Loss.**

Seugnet L, Dissel S, Thimgan M, Cao L, Shaw PJ.

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**New genes often acquire male-specific functions but rarely become essential in *Drosophila*.**

Kondo S, Vedanayagam J, Mohammed J, Eizadshenass S, Kan L, Pang N, Aradhya R, Siepel A, Steinhauer J, Lai EC.

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PMID: 29051389

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**Transcriptome Analysis of *Drosophila melanogaster* Third Instar Larval Ring Glands Points to Novel Functions and Uncovers a Cytochrome p450 Required for Development.**

Christesen D, Yang YT, Somers J, Robin C, Sztal T, Batterham P, Perry T.

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PMID: 27974438

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**Intestinal microbial dysbiosis aggravates the progression of Alzheimer's disease in *Drosophila*.**

Wu SC, Cao ZS, Chang KM, Juang JL.

Nat Commun. 2017 Jun 20;8(1):24. doi: 10.1038/s41467-017-00040-6.

PMID: 28634323

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**Juvenile hormone and 20-hydroxyecdysone coordinately control the developmental timing of matrix metalloproteinase-induced fat body cell dissociation.**

Jia Q, Liu S, Wen D, Cheng Y, Bendena WG, Wang J, Li S.

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**Targeted sequencing identifies 91 neurodevelopmental-disorder risk genes with autism and developmental-disability biases.**

Stessman HA, Xiong B, Coe BP, Wang T, Hoekzema K, Fenckova M, Kvarnung M, Gerdtts J, Trinh S, Cosemans N, Vives L, Lin J, Turner TN, Santen G, Ruivenkamp C, Kriek M, van Haeringen A, Aten E, Friend K, Liebelt J, Barnett C, Haan E, Shaw M, Gecz J, Anderlid BM, Nordgren A, Lindstrand A, Schwartz C, Kooy RF, Vandeweyer G, Helsmoortel C, Romano C, Alberti A, Vinci M, Avola E, Giusto S, Courchesne E, Pramparo T, Pierce K, Nalabolu S, Amaral DG, Scheffer IE, Delatycki MB, Lockhart PJ, Hormozdiari F, Harich B, Castells-Nobau A, Xia K, Peeters H, Nordenskjöld M, Schenck A, Bernier RA, Eichler EE. Nat Genet. 2017 Apr;49(4):515-526. doi: 10.1038/ng.3792. Epub 2017 Feb 13.

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Sawala A, Gould AP.

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**Transient Dysregulation of Dopamine Signaling in a Developing Drosophila Arousal Circuit Permanently Impairs Behavioral Responsiveness in Adults.**

Ferguson L, Petty A, Rohrscheib C, Troup M, Kirszenblat L, Eyles DW, van Swinderen B.

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PMID: 28243212

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**The ABC transporter Snu drives formation of the lipid-based inward and outward barrier in the skin of Drosophila**

R Zuber, M Norum, Y Wang, K Oehl, D Accardi...

doi: <https://doi.org/10.1101/169466>

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**Hedgehog signalling is required for cell survival in Drosophila wing pouch cells.**

Lu J, Wang D, Shen J.

Sci Rep. 2017 Sep 12;7(1):11317. doi: 10.1038/s41598-017-10550-4.

PMID: 28900135

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**Regulatory Mechanisms of Metamorphic Neuronal Remodeling Revealed Through a Genome-Wide Modifier Screen in Drosophila melanogaster.**

Chen D, Gu T, Pham TN, Zachary MJ, Hewes RS.

Genetics. 2017 Jul;206(3):1429-1443. doi: 10.1534/genetics.117.200378. Epub 2017 May 5.

PMID: 28476867

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**Valosin-containing protein (VCP/p97) inhibitors relieve Mitofusin-dependent mitochondrial defects due to VCP disease mutants.**

Zhang T, Mishra P, Hay BA, Chan D, Guo M.

Elife. 2017 Mar 21;6. pii: e17834. doi: 10.7554/eLife.17834.

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**Proteolytic maturation of Drosophila Neuroligin 3 by tumor necrosis factor  $\alpha$ -converting enzyme in the nervous system.**

Wu J, Tao N, Tian Y, Xing G, Lv H, Han J, Lin C, Xie W.

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PMID: 29107812

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**Crumbs, Moesin and Yurt regulate junctional stability and dynamics for a proper morphogenesis of the Drosophila pupal wing epithelium.**

Salis P, Payre F, Valenti P, Bazellieres E, Le Bivic A, Mottola G.

Sci Rep. 2017 Dec 1;7(1):16778. doi: 10.1038/s41598-017-15272-1.

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**A novel duplication of PRMD13 causes North Carolina macular dystrophy: overexpression of PRDM13 orthologue in drosophila eye reproduces the human phenotype.**

Manes G, Joly W, Guignard T, Smirnov V, Berthemy S, Bocquet B, Audo I, Zeitz C, Sahel J, Cazevielle C, Sénéchal A, Deleuze JF, Blanché-Koch H, Boland A, Carroll P, Geneviève D, Zanlonghi X, Arndt C, Hamel CP, Defoort-Dhellemmes S, Meunier I.

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PMID: 28973654

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**Identification of Genes Mediating Drosophila Follicle Cell Progenitor Differentiation by Screening for Modifiers of GAL4::UAS Variegation.**

Lee MC, Skora AD, Spradling AC.

G3 (Bethesda). 2017 Jan 5;7(1):309-318. doi: 10.1534/g3.116.036038.

PMID: 27866148

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**Homeodomain interacting protein kinase promotes tumorigenesis and metastatic cell behavior.**

Blaquiere JA, Wong KKL, Kinsey SD, Wu J, Verheyen EM.

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**Pervasive epistasis in cell proliferation pathways modulates neurodevelopmental defects of autism-associated 16p11. 2 deletion**

J Iyer, MD Singh, M Jensen, P Patel, L Pizzo, E Huber...

doi: <https://doi.org/10.1101/185355>

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**Rab1 interacts with GOLPH3 and controls Golgi structure and contractile ring constriction during cytokinesis in *Drosophila melanogaster*.**

Sechi S, Frappaolo A, Fraschini R, Capalbo L, Gottardo M, Belloni G, Glover DM, Wainman A, Giansanti MG.

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**Genetic basis of octanoic acid resistance in *Drosophila sechellia*: functional analysis of a fine-mapped region.**

Andrade López JM, Lanno SM, Auerbach JM, Moskowitz EC, Sligar LA, Wittkopp PJ, Coolon JD.

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PMID: 28035709

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**Regulation of sleep plasticity by a thermo-sensitive circuit in *Drosophila*.**

Lamaze A, Öztürk-Çolak A, Fischer R, Peschel N, Koh K, Jepson JE.

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PMID: 28084307

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**Modulation of the Proteostasis Machinery to Overcome Stress Caused by Diminished Levels of t6A-Modified tRNAs in *Drosophila*.**

Rojas-Benítez D, Eggers C, Glavic A.

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**The chromatin remodeling BAP complex limits tumor-promoting activity of the Hippo pathway effector Yki to prevent neoplastic transformation in *Drosophila epithelia*.**

Song S, Herranz H, Cohen SM.

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**MRL proteins cooperate with activated Ras in glia to drive distinct oncogenic outcomes.**

Taylor E, Alqadri N, Dodgson L, Mason D, Lyulcheva E, Messina G, Bennett D.

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PMID: 28346426

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**Peroxisome-Mediated Metabolism Is Required for Immune Response to Microbial Infection.**

Di Cara F, Sheshachalam A, Braverman NE, Rachubinski RA, Simmonds AJ.

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**Steroid signaling in mature follicles is important for Drosophila ovulation.**

Knapp E, Sun J.

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PMID: 28069934

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**Bin1 directly remodels actin dynamics through its BAR domain.**

Dräger NM, Nachman E, Winterhoff M, Brühmann S, Shah P, Katsinelos T, Boulant S, Teleman AA, Faix J, Jahn TR.

EMBO Rep. 2017 Nov;18(11):2051-2066. doi: 10.15252/embr.201744137. Epub 2017 Sep 11.

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**Stem-Cell-Based Tumorigenesis in Adult Drosophila.**

Hou SX, Singh SR.

Curr Top Dev Biol. 2017;121:311-337. doi: 10.1016/bs.ctdb.2016.07.013. Epub 2016 Aug 4. Review.

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**An intrinsic mechanism controls reactivation of neural stem cells by spindle matrix proteins.**

Li S, Koe CT, Tay ST, Tan ALK, Zhang S, Zhang Y, Tan P, Sung WK, Wang H.

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**A Search for Genes Mediating the Growth-Promoting Function of TGF $\beta$  in the Drosophila melanogaster Wing Disc.**

Hevia CF, López-Varea A, Esteban N, de Celis JF.

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PMID: 28315837

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**A simple high throughput assay to evaluate water consumption in the fruit fly.**

Lau MT, Lin YQ, Kisling S, Cotterell J, Wilson YA, Wang QP, Khuong TM, Bakhshi N, Cole TA, Oyston LJ, Cole AR, Neely GG.

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PMID: 29196744

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**Insights into DDT Resistance from the *Drosophila melanogaster* Genetic Reference Panel.**

Schmidt JM, Battlay P, Gledhill-Smith RS, Good RT, Lumb C, Fournier-Level A, Robin C.

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PMID: 28935691

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**Dual role for Jumu in the control of hematopoietic progenitors in the *Drosophila* lymph gland.**

Hao Y, Jin LH.

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PMID: 28350299

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**A *Drosophila* model for toxicogenomics: Genetic variation in susceptibility to heavy metal exposure.**

Zhou S, Luoma SE, St Armour GE, Thakkar E, Mackay TFC, Anholt RRH.

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**Comparative analysis of gene expression profiles for several migrating cell types identifies cell migration regulators.**

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PMID: 28428068

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**The zinc finger protein CG12744 is essential for differentiation and regeneration after infection in the adult *Drosophila* midgut.**

Liu Q, Jin LH.

Exp Cell Res. 2017 Dec 15;361(2):225-235. doi: 10.1016/j.yexcr.2017.10.021. Epub 2017 Oct 24.

PMID: 29074370

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**Glycation potentiates  $\alpha$ -synuclein-associated neurodegeneration in synucleinopathies.**

Vicente Miranda H, Szego ÉM, Oliveira LMA, Breda C, Darendelioglu E, de Oliveira RM, Ferreira DG, Gomes MA, Rott R, Oliveira M, Munari F, Enguita FJ, Simões T, Rodrigues EF, Heinrich M, Martins IC, Zamolo I, Riess O, Cordeiro C, Ponces-Freire A, Lashuel HA, Santos NC, Lopes LV, Xiang W, Jovin TM, Penque D, Engelen S, Zweckstetter M, Klucken J, Giorgini F, Quintas A, Outeiro TF.

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PMID: 28398476

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**A *Drosophila* model of insulin resistance associated with the human Trib3 Q/R polymorphism.**

Fischer Z, Das R, Shipman A, Fan JY, Pence L, Bouyain S, Dobens LL.

Dis Model Mech. 2017 Oct 12. pii: dmm.030619. doi: 10.1242/dmm.030619. [Epub ahead of print]

PMID: 29025897

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**Modulation of yellow expression contributes to thermal plasticity of female abdominal pigmentation in *Drosophila melanogaster*.**

Gibert JM, Mouchel-Vielh E, Peronnet F.

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PMID: 28230190

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***Drosophila***

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**TGF $\beta$ /Activin signalling is required for ribosome biogenesis and cell growth in *Drosophila* salivary glands.**

Martins T, Eusebio N, Correia A, Marinho J, Casares F, Pereira PS.

Open Biol. 2017 Jan;7(1). pii: 160258. doi: 10.1098/rsob.160258.

PMID: 28123053

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***Drosophila* Chitinase 2 is expressed in chitin producing organs for cuticle formation.**

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PMID: 27832982

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**Sleep homeostasis regulated by 5HT2b receptor in a small subset of neurons in the dorsal fan-shaped body of drosophila.**

Qian Y, Cao Y, Deng B, Yang G, Li J, Xu R, Zhang D, Huang J, Rao Y.

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PMID: 28984573

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**Drosophila Neuropeptide F Signaling Independently Regulates Feeding and Sleep-Wake Behavior.**

Chung BY, Ro J, Hutter SA, Miller KM, Guduguntla LS, Kondo S, Pletcher SD.

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PMID: 28636933

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**Sensory integration and neuromodulatory feedback facilitate Drosophila mechanonociceptive behavior.**

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PMID: 28604684

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**Escort cells generate a dynamic compartment for germline stem cell differentiation via combined Stat and Erk signalling.**

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PMID: 28559239

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**Dendritic space-filling requires a neuronal type-specific extracellular permissive signal in Drosophila.**

Poe AR, Tang L, Wang B, Li Y, Sapar ML, Han C.

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PMID: 28874572

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**Mactosylceramide prevents glial cell overgrowth by inhibiting insulin and fibroblast growth factor receptor signaling.**

Gerdøe-Kristensen S, Lund VK, Wandall HH, Kjaerulff O.

J Cell Physiol. 2017 Nov;232(11):3112-3127. doi: 10.1002/jcp.25762. Epub 2017 Mar 31.

PMID: 28019653

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**Steroid hormone induction of temporal gene expression in *Drosophila* brain neuroblasts generates neuronal and glial diversity.**

Syed MH, Mark B, Doe CQ.

Elife. 2017 Apr 10;6. pii: e26287. doi: 10.7554/eLife.26287.

PMID: 28394252

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**Control of Hox transcription factor concentration and cell-to-cell variability by an auto-regulatory switch**

DK Papadopoulos, K Skouloudaki, Y Engstrom...

doi: <https://doi.org/10.1101/115220>

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**Shep regulates *Drosophila* neuronal remodeling by controlling transcription of its chromatin targets.**

Chen D, Dale RK, Lei EP.

Development. 2017 Nov 20. pii: dev.154047. doi: 10.1242/dev.154047. [Epub ahead of print]

PMID: 29158441

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**Repression of Abd-B by Polycomb is critical for cell identity maintenance in adult *Drosophila* testis.**

Zhang S, Pan C, Lv X, Wu W, Chen H, Wu W, Wu H, Zhang L, Zhao Y.

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**Control of intestinal stem cell function and proliferation by mitochondrial pyruvate metabolism.**

Schell JC, Wisidagama DR, Bensard C, Zhao H, Wei P, Tanner J, Flores A, Mohlman J, Sorensen LK, Earl CS, Olson KA, Miao R, Waller TC, Delker D, Kanth P, Jiang L, DeBerardinis RJ, Bronner MP, Li DY, Cox JE, Christofk HR, Lowry WE, Thummel CS, Rutter J.

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**Feedback regulation of steady-state epithelial turnover and organ size.**

Liang J, Balachandra S, Ngo S, O'Brien LE.

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PMID: 28847000

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**The *Zic* family homologue *Odd-paired* regulates *Alk* expression in *Drosophila*.**

Mendoza-García P, Hugosson F, Fallah M, Higgins ML, Iwasaki Y, Pfeifer K, Wolfstetter G, Varshney G, Popichenko D, Gergen JP, Hens K, Deplancke B, Palmer RH.

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PMID: 28369060

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**Tango1 spatially organizes ER exit sites to control ER export.**

Liu M, Feng Z, Ke H, Liu Y, Sun T, Dai J, Cui W, Pastor-Pareja JC.

J Cell Biol. 2017 Apr 3;216(4):1035-1049. doi: 10.1083/jcb.201611088. Epub 2017 Mar 9.

PMID: 28280122

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**Modeling of axonal endoplasmic reticulum network by spastic paraplegia proteins.**

Yalçın B, Zhao L, Stofanko M, O'Sullivan NC, Kang ZH, Roost A, Thomas MR, Zaessinger S, Blard O, Patto AL, Sohail A, Baena V, Terasaki M, O'Kane CJ.

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PMID: 28742022

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**ATF3 acts as a rheostat to control JNK signalling during intestinal regeneration.**

Zhou J, Edgar BA, Boutros M.

Nat Commun. 2017 Mar 8;8:14289. doi: 10.1038/ncomms14289.

PMID: 28272390

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**Regulation of phagocyte triglyceride by a STAT-ATG2 pathway controls mycobacterial infection.**

Péan CB, Schiebler M, Tan SW, Sharrock JA, Kierdorf K, Brown KP, Maserumule MC, Menezes S, Pilátová M, Bronda K, Guermonprez P, Stramer BM, Andres Floto R, Dionne MS.

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**The Conserved, Disease-Associated RNA Binding Protein dNab2 Interacts with the Fragile X Protein Ortholog in Drosophila Neurons.**

Bienkowski RS, Banerjee A, Rounds JC, Rha J, Omotade OF, Gross C, Morris KJ, Leung SW, Pak C, Jones SK, Santoro MR, Warren ST, Zheng JQ, Bassell GJ, Corbett AH, Moberg KH.

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**Oxygenation and adenosine deaminase support growth and proliferation of ex vivo cultured Drosophila wing imaginal discs.**

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**Functional male accessory glands and fertility in *Drosophila* require novel ecdysone receptor.**

Sharma V, Pandey AK, Kumar A, Misra S, Gupta HPK, Gupta S, Singh A, Buehner NA, Ravi Ram K. PLoS Genet. 2017 May 11;13(5):e1006788. doi: 10.1371/journal.pgen.1006788. eCollection 2017 May. PMID: 28493870

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**Heparan sulfate proteoglycans regulate autophagy in *Drosophila*.**

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**IP3R-mediated Ca<sup>2+</sup> release regulates protein metabolism in *Drosophila* neuroendocrine cells: implications for development under nutrient stress.**

Megha, Hasan G. Development. 2017 Apr 15;144(8):1484-1489. doi: 10.1242/dev.145235. Epub 2017 Mar 13. PMID: 28289132

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**Clinical, pathological and functional characterization of riboflavin-responsive neuropathy.**

Manole A, Jaunmuktane Z, Hargreaves I, Ludtmann MHR, Salpietro V, Bello OD, Pope S, Pandraud A, Horga A, Scalco RS, Li A, Ashokkumar B, Lourenço CM, Heales S, Horvath R, Chinnery PF, Toro C, Singleton AB, Jacques TS, Abramov AY, Muntoni F, Hanna MG, Reilly MM, Revesz T, Kullmann DM, Jepson JEC, Houlden H. Brain. 2017 Nov 1;140(11):2820-2837. doi: 10.1093/brain/awx231. PMID: 29053833

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**A rhodopsin in the brain functions in circadian photoentrainment in *Drosophila*.**

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**Phosphorylation by NLK inhibits YAP-14-3-3-interactions and induces its nuclear localization.**

Moon S, Kim W, Kim S, Kim Y, Song Y, Bilousov O, Kim J, Lee T, Cha B, Kim M, Kim H, Katanaev VL, Jho EH. EMBO Rep. 2017 Jan;18(1):61-71. doi: 10.15252/embr.201642683. Epub 2016 Dec 15. PMID: 27979972

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**Mutations in the X-linked ATP6AP2 cause a glycosylation disorder with autophagic defects.**

Rujano MA, Cannata Serio M, Panasyuk G, Péanne R, Reunert J, Rymen D, Hauser V, Park JH, Freisinger P, Souche E, Guida MC, Maier EM, Wada Y, Jäger S, Krogan NJ, Kretz O, Nobre S, Garcia P, Quelhas D, Bird TD, Raskind WH, Schwake M, Duvet S, Foulquier F, Matthijs G, Marquardt T, Simons M. J Exp Med. 2017 Dec 4;214(12):3707-3729. doi: 10.1084/jem.20170453. Epub 2017 Nov 10. PMID: 29127204

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**The equilibrium between antagonistic signaling pathways determines the number of synapses in Drosophila.**

Jordán-Álvarez S, Santana E, Casas-Tintó S, Acebes Á, Ferrús A. PLoS One. 2017 Sep 11;12(9):e0184238. doi: 10.1371/journal.pone.0184238. eCollection 2017. PMID: 28892511

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**Formation and function of intracardiac valve cells in the Drosophila heart.**

Lammers K, Abeln B, Hüsken M, Lehmacher C, Psathaki OE, Alcorta E, Meyer H, Paululat A. J Exp Biol. 2017 May 15;220(Pt 10):1852-1863. doi: 10.1242/jeb.156265. Epub 2017 Mar 2. PMID: 28254880

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**LRRK2(I2020T) functional genetic interactors that modify eye degeneration and dopaminergic cell loss in Drosophila.**

Marcogliese PC, Abuaish S, Kabbach G, Abdel-Messih E, Seang S, Li G, Slack RS, Haque ME, Venderova K, Park DS. Hum Mol Genet. 2017 Apr 1;26(7):1247-1257. doi: 10.1093/hmg/ddx030. PMID: 28158614

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**Post-transcriptional modulation of Dscam1 enhances axonal growth in development and after injury**

M Koch, M Nicolas, M Zschaetzsch, N de Geest...  
doi: <https://doi.org/10.1101/148239>

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**Different modes of APC/C activation control growth and neuron-glia interaction in the developing Drosophila eye.**

Neuert H, Yuva-Aydemir Y, Silies M, Klämbt C. Development. 2017 Oct 30. pii: dev.152694. doi: 10.1242/dev.152694. [Epub ahead of print] PMID: 29084807

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**The laminar organization of the *Drosophila* ellipsoid body is semaphorin-dependent and prevents the formation of ectopic synaptic connections.**

Xie X, Tabuchi M, Brown MP, Mitchell SP, Wu MN, Kolodkin AL.

Elife. 2017 Jun 20;6. pii: e25328. doi: 10.7554/eLife.25328.

PMID: 28632130

[\[Abstract\]](#)

**How well do you know your mutation? Complex effects of genetic background on expressivity, complementation, and ordering of allelic effects.**

Chandler CH, Chari S, Kowalski A, Choi L, Tack D, DeNieu M, Pitchers W, Sonnenschein A, Marvin L, Hummel K, Marier C, Victory A, Porter C, Mammel A, Holms J, Sivaratnam G, Dworkin I.

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PMID: 29166655

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***Drosophila* Kruppel homolog 1 represses lipolysis through interaction with dFOXO.**

Kang P, Chang K, Liu Y, Bouska M, Birnbaum A, Karashchuk G, Thakore R, Zheng W, Post S, Brent CS, Li S, Tatar M, Bai H.

Sci Rep. 2017 Nov 27;7(1):16369. doi: 10.1038/s41598-017-16638-1.

PMID: 29180716

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**Hippo, TGF- $\beta$ , and Src-MAPK pathways regulate transcription of the *upd3* cytokine in *Drosophila* enterocytes upon bacterial infection.**

Houtz P, Bonfini A, Liu X, Revah J, Guillou A, Poidevin M, Hens K, Huang HY, Deplancke B, Tsai YC, Buchon N.

PLoS Genet. 2017 Nov 6;13(11):e1007091. doi: 10.1371/journal.pgen.1007091. eCollection 2017 Nov.

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**High throughput in vivo functional validation of candidate congenital heart disease genes in *Drosophila*.**

Zhu JY, Fu Y, Nettleton M, Richman A, Han Z.

Elife. 2017 Jan 20;6. pii: e22617. doi: 10.7554/eLife.22617.

PMID: 28084990

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**Patterning of the *Drosophila* L2 vein is driven by regulatory interactions between region-specific transcription factors expressed in response to Dpp signalling.**

Martín M, Ostalé CM, de Celis JF.

Development. 2017 Sep 1;144(17):3168-3176. doi: 10.1242/dev.143461. Epub 2017 Jul 31.

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**Two receptor tyrosine phosphatases dictate the depth of axonal stabilizing layer in the visual system.**

Hakeda-Suzuki S, Takechi H, Kawamura H, Suzuki T.

Elife. 2017 Nov 8;6. pii: e31812. doi: 10.7554/eLife.31812.

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**Integration of temporal and spatial patterning generates neural diversity.**

Erclik T, Li X, Courgeon M, Bertet C, Chen Z, Baumert R, Ng J, Koo C, Arain U, Behnia R, del Valle

Rodriguez A, Senderowicz L, Negre N, White KP, Desplan C.

Nature. 2017 Jan 19;541(7637):365-370. doi: 10.1038/nature20794. Epub 2017 Jan 11.

PMID: 28077877

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**Endocrine network essential for reproductive success in *Drosophila melanogaster*.**

Meiselman M, Lee SS, Tran RT, Dai H, Ding Y, Rivera-Perez C, Wijesekera TP, Dauwalder B, Noriega FG, Adams ME.

Proc Natl Acad Sci U S A. 2017 May 9;114(19):E3849-E3858. doi: 10.1073/pnas.1620760114. Epub 2017 Apr 24.

PMID: 28439025

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**SLP-2 interacts with Parkin in mitochondria and prevents mitochondrial dysfunction in Parkin-deficient human iPSC-derived neurons and *Drosophila*.**

Zanon A, Kalvakuri S, Rakovic A, Foco L, Guida M, Schwienbacher C, Serafin A, Rudolph F, Trilck M,

Grünwald A, Stanslowsky N, Wegner F, Giorgio V, Lavdas AA, Bodmer R, Pramstaller PP, Klein C, Hicks AA, Pichler I, Seibler P.

Hum Mol Genet. 2017 Jul 1;26(13):2412-2425. doi: 10.1093/hmg/ddx132.

PMID: 28379402

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**SMAD dependent signaling plays a detrimental role in a fly model of SMARCB1-deficiency and the biology of atypical teratoid/rhabdoid tumors.**

Jeibmann A, Schulz J, Eikmeier K, Johann PD, Thiel K, Tegeder I, Ambrée O, Frühwald MC, Pfister SM, Kool M, Paulus W, Hasselblatt M.

J Neurooncol. 2017 Feb;131(3):477-484. doi: 10.1007/s11060-016-2326-3. Epub 2017 Jan 20.

PMID: 28108836

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**FlyBase at 25: looking to the future.**

Gramates LS, Marygold SJ, Santos GD, Urbano JM, Antonazzo G, Matthews BB, Rey AJ, Tabone CJ, Crosby MA, Emmert DB, Falls K, Goodman JL, Hu Y, Ponting L, Schroeder AJ, Strelets VB, Thurmond J, Zhou P; the FlyBase Consortium.

Nucleic Acids Res. 2017 Jan 4;45(D1):D663-D671. doi: 10.1093/nar/gkw1016. Epub 2016 Oct 30.

PMID: 27799470

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### **Identification of Tau Toxicity Modifiers in the Drosophila Eye.**

Dourlen P.

Methods Mol Biol. 2017;1523:375-389.

PMID: 27975266

[\[Abstract\]](#)

### **Key role of piRNAs in telomeric chromatin maintenance and telomere nuclear positioning in Drosophila germline**

E Radion, V Morgunova, S Ryazansky, N Akulenko...

doi: <https://doi.org/10.1101/163030>

[\[Abstract\]](#)

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An PNT, Shimaji K, Tanaka R, Yoshida H, Kimura H, Fukusaki E, Yamaguchi M.

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