

***An RNA interference screen for genes required to shape the anteroposterior compartment boundary in *Drosophila* identifies the eph receptor.**

Umetsu D, Dunst S, Dahmann C.

PLoS One. 2014 Dec 4;9(12):e114340.

[\[Abstract\]](#)

***A genome-scale in vivo RNAi analysis of epithelial development in *Drosophila* identifies new proliferation domains outside of the stem cell niche.**

Berns N, Woichansky I, Friedrichsen S, Kraft N, Riechmann V.

J Cell Sci. 2014 Jun 15;127(Pt 12):2736-48.

[\[Abstract\]](#)

***An ongoing role for structural sarcomeric components in maintaining *Drosophila melanogaster* muscle function and structure.**

Perkins AD, Tanentzapf G.

PLoS One. 2014 Jun 10;9(6):e99362.

[\[Abstract\]](#)

***A *Drosophila* in vivo screen identifies store-operated calcium entry as a key regulator of adiposity.**

Baumbach J, Hummel P, Bickmeyer I, Kowalczyk KM, Frank M, Knorr K, Hildebrandt A, Riedel D, Jäckle H, Kühnlein RP.

Cell Metab. 2014 Feb 4;19(2):331-43.

[\[Abstract\]](#)

***A *Drosophila* RNAi collection is subject to dominant phenotypic effects.**

Green EW, Fedele G, Giorgini F, Kyriacou CP.

Nat Methods. 2014 Mar;11(3):222-3.

[\[Abstract\]](#)

The systematic identification of cytoskeletal genes required for *Drosophila melanogaster* muscle maintenance.

Perkins AD, Lee MJJ, Tanentzapf G.

Scientific Data. 2014. 1, Article number: 140002

[\[Abstract\]](#)

The rhino-deadlock-cutoff complex licenses noncanonical transcription of dual-strand piRNA clusters in *Drosophila*.

Mohn F, Sienski G, Handler D, Brennecke J.

Cell. 2014 Jun 5;157(6):1364-79.

[\[Abstract\]](#)

SWI/SNF complex prevents lineage reversion and induces temporal patterning in neural stem cells.

Eroglu E, Burkard TR, Jiang Y, Saini N, Homem CC, Reichert H, Knoblich JA.
Cell. 2014 Mar 13;156(6):1259-73.

[\[Abstract\]](#)

A regulatory transcriptional loop controls proliferation and differentiation in *Drosophila* neural stem cells.

Yasugi T, Fischer A, Jiang Y, Reichert H, Knoblich JA.
PLoS One. 2014 May 7;9(5):e97034.

[\[Abstract\]](#)

The conserved discs-large binding partner Banderuola regulates asymmetric cell division in *Drosophila*.

Mauri F, Reichardt I, Mummery-Widmer JL, Yamazaki M, Knoblich JA.
Curr Biol. 2014 Aug 18;24(16):1811-25.

[\[Abstract\]](#)

Ecdysone and mediator change energy metabolism to terminate proliferation in *Drosophila* neural stem cells.

Homem CC, Steinmann V, Burkard TR, Jais A, Esterbauer H, Knoblich JA.
Cell. 2014 Aug 14;158(4):874-88.

[\[Abstract\]](#)

The TRIM-NHL protein Brat promotes axon maintenance by repressing *src64B* expression.

Marchetti G, Reichardt I, Knoblich JA, Besse F.
J Neurosci. 2014 Oct 8;34(41):13855-64.

[\[Abstract\]](#)

The corepressor Atrophin specifies odorant receptor expression in *Drosophila*.

Alkhori L, Öst A, Alenius M.
FASEB J. 2014 Mar;28(3):1355-64.

[\[Abstract\]](#)

The effect of neurospecific knockdown of candidate genes for locomotor behavior and sound production in *Drosophila melanogaster*.

Fedotov SA, Bragina JV, Besedina NG, Danilenkova LV, Kamysheva EA, Panova AA, Kamyshev NG.
Fly (Austin). 2014 Jul 3;8(3):176-87.

[\[Abstract\]](#)

Subcellular Trafficking of FGF Controls Tracheal Invasion of *Drosophila* Flight Muscle.

Peterson SJ, Krasnow MA.
Cell. 2014 Dec 30. pii: S0092-8674(14)01520-7.

[\[Abstract\]](#)

Dissociation of mitochondrial from sarcoplasmic reticular stress in *Drosophila* cardiomyopathy induced by molecularly distinct mitochondrial fusion defects.

Bhandari P, Song M, Dorn GW 2nd.

J Mol Cell Cardiol. 2014 Dec 30. pii: S0022-2828(14)00430-1.

[\[Abstract\]](#)

Dpp/Gbb signaling is required for normal intestinal regeneration during infection.

Zhou J, Florescu S, Boettcher AL, Luo L, Dutta D, Kerr G, Cai Y, Edgar BA, Boutros M.

Dev Biol. 2014 Dec 29. pii: S0012-1606(14)00647-2.

[\[Abstract\]](#)

RNAi screening in *Drosophila* cells and in vivo.

Mohr SE.

Methods. 2014 Jun 15;68(1):82-8.

[\[Abstract\]](#)

Piwi is required in multiple cell types to control germline stem cell lineage development in the *Drosophila* ovary.

Ma X, Wang S, Do T, Song X, Inaba M, Nishimoto Y, Liu LP, Gao Y, Mao Y, Li H, McDowell W, Park J, Malanowski K, Peak A, Perera A, Li H, Gaudenz K, Haug J, Yamashita Y, Lin H, Ni JQ, Xie T.

PLoS One. 2014 Mar 21;9(3):e90267.

[\[Abstract\]](#)

The atypical cadherin fat directly regulates mitochondrial function and metabolic state.

Sing A, Tsatskis Y, Fabian L, Hester I, Rosenfeld R, Serricchio M, Yau N, Bietenhader M, Shanbhag R, Jurisicova A, Brill JA, McQuibban GA, McNeill H.

Cell. 2014 Sep 11;158(6):1293-308.

[\[Abstract\]](#)

The conserved misshapen-warts-yorkie pathway acts in enteroblasts to regulate intestinal stem cells in *Drosophila*.

Li Q, Li S, Mana-Capelli S, Roth Flach RJ, Danai LV, Amcheslavsky A, Nie Y, Kaneko S, Yao X, Chen X, Cotton JL, Mao J, McCollum D, Jiang J, Czech MP, Xu L, Ip YT.

Dev Cell. 2014 Nov 10;31(3):291-304.

[\[Abstract\]](#)

Ubiquitin-conjugating enzyme UbcD4 as an essential component of *Drosophila* immune deficiency pathway (LB192).

Park ES, Kim YJ, Yoo YJ.

FASEB 2014 28(1)Suppl.

[\[Abstract\]](#)

Rabaptin-5 and Rabex-5 are neoplastic tumour suppressor genes that interact to modulate Rab5 dynamics in *Drosophila melanogaster*.

Thomas C, Strutt D.

Dev Biol. 2014 Jan 1;385(1):107-21.

[\[Abstract\]](#)

CNBP regulates wing development in *Drosophila melanogaster* by promoting IRES-dependent translation of dMyc.

Antonucci L, D'Amico D, Di Magno L, Coni S, Di Marcotullio L, Cardinali B, Gulino A, Ciapponi L, Canettieri G.

Cell Cycle. 2014 Feb 1;13(3):434-9.

[\[Abstract\]](#)

RNAi screen in *Drosophila* larvae identifies histone deacetylase 3 as a positive regulator of the hsp70 heat shock gene expression during heat shock.

Achary BG, Campbell KM, Co IS, Gilmour DS.

Biochim Biophys Acta. 2014 May;1839(5):355-63.

[\[Abstract\]](#)

The ADAR RNA editing enzyme controls neuronal excitability in *Drosophila melanogaster*.

Li X, Overton IM, Baines RA, Keegan LP, O'Connell MA.

Nucleic Acids Res. 2014 Jan;42(2):1139-51.

[\[Abstract\]](#)

Context-dependent enhancer selection confers alternate modes of notch regulation on argos.

Housden BE, Terriente-Felix A, Bray SJ.

Mol Cell Biol. 2014 Feb;34(4):664-72.

[\[Abstract\]](#)

Presynaptic CK2 promotes synapse organization and stability by targeting Ankyrin2.

Bulat V, Rast M, Pielage J.

J Cell Biol. 2014 Jan 6;204(1):77-94.

[\[Abstract\]](#)

Resources for functional genomics studies in *Drosophila melanogaster*.

Mohr SE, Hu Y, Kim K, Housden BE, Perrimon N.

Genetics. 2014 May;197(1):1-18.

[\[Abstract\]](#)

The Brm-HDAC3-Erm repressor complex suppresses dedifferentiation in *Drosophila* type II neuroblast lineages.

Koe CT, Li S, Rossi F, Wong JJ, Wang Y, Zhang Z, Chen K, Aw SS, Richardson HE, Robson P, Sung WK, Yu F, Gonzalez C, Wang H.
Elife. 2014 Mar 11;3:e01906.

[\[Abstract\]](#)

Genome-wide RNAi screen identifies broadly-acting host factors that inhibit arbovirus infection.

Yasunaga A, Hanna SL, Li J, Cho H, Rose PP, Spiridigliozzi A, Gold B, Diamond MS, Cherry S.
PLoS Pathog. 2014 Feb 13;10(2):e1003914.

[\[Abstract\]](#)

Role of SCOX in determination of *Drosophila melanogaster* lifespan.

Nguyen TB, Ida H, Shimamura M, Kitazawa D, Akao S, Yoshida H, Inoue YH, Yamaguchi M.
Am J Cancer Res. 2014 Jul 16;4(4):325-36.

[\[Abstract\]](#)

The E3 ubiquitin ligase UBE3A is an integral component of the molecular circadian clock through regulating the BMAL1 transcription factor.

Gossan NC, Zhang F, Guo B, Jin D, Yoshitane H, Yao A, Glossop N, Zhang YQ, Fukada Y, Meng QJ.
Nucleic Acids Res. 2014 May;42(9):5765-75.

[\[Abstract\]](#)

In vivo RNAi screen identifies candidate signaling genes required for collective cell migration in *Drosophila* ovary.

Luo J, Zuo J, Wu J, Wan P, Kang D, Xiang C, Zhu H, Chen J.
Sci China Life Sci. 2014 Dec 20.

[\[Abstract\]](#)

Genetic link between Cabeza, a *Drosophila* homologue of Fused in Sarcoma (FUS), and the EGFR signaling pathway.

Shimamura M, Kyotani A, Azuma Y, Yoshida H, Binh Nguyen T, Mizuta I, Yoshida T, Mizuno T, Nakagawa M, Tokuda T, Yamaguchi M.
Exp Cell Res. 2014 Aug 1;326(1):36-45.

[\[Abstract\]](#)

Genome-wide identification of *Drosophila* Hb9 targets reveals a pivotal role in directing the transcriptome within eight neuronal lineages, including activation of nitric oxide synthase and Fd59a/Fox-D.

Lacin H, Rusch J, Yeh RT, Fujioka M, Wilson BA, Zhu Y, Robie AA, Mistry H, Wang T, Jaynes JB, Skeath JB.
Dev Biol. 2014 Apr 1;388(1):117-33.

[\[Abstract\]](#)

Tools and methods for studying the *Drosophila* JAK/STAT pathway.

Chen Q, Giedt M, Tang L, Harrison DA.
Methods. 2014 Jun 15;68(1):160-72.

[\[Abstract\]](#)

Mutation in the *Drosophila melanogaster* adenosine receptor gene selectively decreases the mosaic hyperplastic epithelial outgrowth rates in *wts* or *dco* heterozygous flies.

Sidorov R, Kucerova L, Kiss I, Zurovec M.
Purinergic Signal. 2014 Dec 21.

[\[Abstract\]](#)

The ubiquitin ligase FbxL7 regulates the Dachous-Fat-Dachs system in *Drosophila*.

Rodrigues-Campos M, Thompson BJ.
Development. 2014 Nov;141(21):4098-103.

[\[Abstract\]](#)

The *Drosophila* Chmp1 protein determines wing cell fate through regulation of epidermal growth factor receptor signaling.

Valentine M, Hogan J, Collier S.
Dev Dyn. 2014 Aug;243(8):977-87.

[\[Abstract\]](#)

The Role of PPK26 in *Drosophila* Larval Mechanical Nociception.

Guo Y, Wang Y, Wang Q, Wang Z.
Cell Rep. 2014 Nov 6;9(4):1183-1190.

[\[Abstract\]](#)

Glial wingless/Wnt regulates glutamate receptor clustering and synaptic physiology at the *Drosophila* neuromuscular junction.

Kerr KS, Fuentes-Medel Y, Brewer C, Barria R, Ashley J, Abruzzi KC, Sheehan A, Tasdemir-Yilmaz OE, Freeman MR, Budnik V.
J Neurosci. 2014 Feb 19;34(8):2910-20.

[\[Abstract\]](#)

***Drosophila* USP5 controls the activation of apoptosis and the Jun N-terminal kinase pathway during eye development.**

Fan X, Huang Q, Ye X, Lin Y, Chen Y, Lin X, Qu J.
PLoS One. 2014 Mar 18;9(3):e92250.

[\[Abstract\]](#)

Contributions of DNA repair, cell cycle checkpoints and cell death to suppressing the DNA damage-induced tumorigenic behavior of *Drosophila* epithelial cells.

Dekanty A, Barrio L, Milán M.
Oncogene. 2014 Mar 17.

[\[Abstract\]](#)

The role of Bro1- domain-containing protein Myopic in endosomal trafficking of Wnt/Wingless.

Pradhan-Sundt T, Verheyen EM.
Dev Biol. 2014 Aug 1;392(1):93-107.

[\[Abstract\]](#)

Uby controls the stability of the ESCRT-0 subunit Hrs in development.

Zhang J, Du J, Lei C, Liu M, Zhu AJ.
Development. 2014 Apr;141(7):1473-9.

[\[Abstract\]](#)

The Kto-Skd complex can regulate ptc expression by interacting with Cubitus interruptus (Ci) in the Hedgehog signaling pathway.

Mao F, Yang X, Fu L, Lv X, Zhang Z, Wu W, Yang S, Zhou Z, Zhang L, Zhao Y.
J Biol Chem. 2014 Aug 8;289(32):22333-41.

[\[Abstract\]](#)

Identification of Redeye, a new sleep-regulating protein whose expression is modulated by sleep amount.

Shi M, Yue Z, Kuryatov A, Lindstrom JM, Sehgal A.
Elife. 2014;3:e01473.

[\[Abstract\]](#)

Hyperplastic discs differentially regulates the transcriptional outputs of hedgehog signaling.

Wang G, Tang X, Chen Y, Cao J, Huang Q, Ling X, Ren W, Liu S, Wu Y, Ray L, Lin X.
Mech Dev. 2014 Aug;133:117-25.

[\[Abstract\]](#)

Juvenile hormone regulates body size and perturbs insulin signaling in Drosophila.

Mirth CK, Tang HY, Makohon-Moore SC, Salhadar S, Gokhale RH, Warner RD, Koyama T, Riddiford LM, Shingleton AW.
Proc Natl Acad Sci U S A. 2014 May 13;111(19):7018-23.

[\[Abstract\]](#)

Dscam1 is required for normal dendrite growth and branching but not for dendritic spacing in Drosophila motoneurons.

Hutchinson KM, Vonhoff F, Duch C.
J Neurosci. 2014 Jan 29;34(5):1924-31.

[\[Abstract\]](#)

Yorkie promotes transcription by recruiting a histone methyltransferase complex.

Oh H, Slattery M, Ma L, White KP, Mann RS, Irvine KD.

Cell Rep. 2014 Jul 24;8(2):449-59.

[\[Abstract\]](#)

Genome-wide screen for modifiers of Na⁺/K⁺ ATPase alleles identifies critical genetic loci.

Talsma AD, Chaves JF, LaMonaca A, Wieczorek ED, Palladino MJ.

Mol Brain. 2014 Dec 5;7(1):89.

[\[Abstract\]](#)

PDF neuron firing phase-shifts key circadian activity neurons in Drosophila.

Guo F, Cerullo I, Chen X, Rosbash M.

Elife. 2014 Jun 17;3.

[\[Abstract\]](#)

Glia are critical for the neuropathology of complex I deficiency in Drosophila.

Hegde VR, Vogel R, Feany MB.

Hum Mol Genet. 2014 Sep 1;23(17):4686-92.

[\[Abstract\]](#)

Requirement for CRIF1 in RNA interference and Dicer-2 stability.

Lim SJ, Scott A, Xiong X, Vahidpour S, Karijolic J, Guo D, Pei S, Yu Y, Zhou R, Li WX.

RNA Biol. 2014 Oct 31:0.

[\[Abstract\]](#)

Modulating and measuring Wingless signalling.

Vincent JP.

Methods. 2014 Jun 15;68(1):194-8.

[\[Abstract\]](#)

Local control of intestinal stem cell homeostasis by enteroendocrine cells in the adult Drosophila midgut.

Scopelliti A, Cordero JB, Diao F, Strathdee K, White BH, Sansom OJ, Vidal M.

Curr Biol. 2014 Jun 2;24(11):1199-211.

[\[Abstract\]](#)

A conserved transcriptional network regulates lamina development in the Drosophila visual system.

Piñeiro C, Lopes CS, Casares F.

Development. 2014 Jul;141(14):2838-47.

[\[Abstract\]](#)

Heat shock proteins mediate trade-offs between early-life reproduction and late survival in *Drosophila melanogaster*.

Okada Y, Teramura K, Takahashi KH.
Physiol Entomol. 2014 39(40): 304–312.

[\[Abstract\]](#)

Different effects of Atg2 and Atg18 mutations on Atg8a and Atg9 trafficking during starvation in *Drosophila*.

Nagy P, Hegedűs K, Piracs K, Varga Á, Juhász G.
FEBS Lett. 2014 Jan 31;588(3):408-13.

[\[Abstract\]](#)

V-ATPase/mTOR signaling regulates megalin-mediated apical endocytosis.

Gleixner EM, Canaud G, Hermle T, Guida MC, Kretz O, Helmstädter M, Huber TB, Eimer S, Terzi F, Simons M.
Cell Rep. 2014 Jul 10;8(1):10-9.

[\[Abstract\]](#)

Evidence for chromatin-remodeling complex PBAP-controlled maintenance of the *Drosophila* ovarian germline stem cells.

He J, Xuan T, Xin T, An H, Wang J, Zhao G, Li M.
PLoS One. 2014 Jul 28;9(7):e103473.

[\[Abstract\]](#)

Steroid signaling promotes stem cell maintenance in the *Drosophila* testis.

Li Y, Ma Q, Cherry CM, Matunis EL.
Dev Biol. 2014 Oct 1;394(1):129-41.

[\[Abstract\]](#)

Crosstalk between epithelial and mesenchymal tissues in tumorigenesis and imaginal disc development.

Herranz H, Weng R, Cohen SM.
Curr Biol. 2014 Jul 7;24(13):1476-84.

[\[Abstract\]](#)

Identification of a novel insect neuropeptide, CNMa and its receptor.

Jung SH, Lee JH, Chae HS, Seong JY, Park Y, Park ZY, Kim YJ.
FEBS Lett. 2014 Jun 5;588(12):2037-41.

[\[Abstract\]](#)

Arrest is a regulator of fiber-specific alternative splicing in the indirect flight muscles of *Drosophila*.

Oas ST, Bryantsev AL, Cripps RM.
J Cell Biol. 2014 Sep 29;206(7):895-908.

[\[Abstract\]](#)

VPS35 dysfunction impairs lysosomal degradation of α -synuclein and exacerbates neurotoxicity in a *Drosophila* model of Parkinson's disease.

Miura E, Hasegawa T, Konno M, Suzuki M, Sugeno N, Fujikake N, Geisler S, Tabuchi M, Oshima R, Kikuchi A, Baba T, Wada K, Nagai Y, Takeda A, Aoki M.
Neurobiol Dis. 2014 Nov;71:1-13.

[\[Abstract\]](#)

The bHLH-PAS transcription factor dysfusion regulates tarsal joint formation in response to Notch activity during *Drosophila* leg development.

Córdoba S, Estella C.
PLoS Genet. 2014 Oct 16;10(10):e1004621.

[\[Abstract\]](#)

Evolutionary changes in TGF α distribution underlie morphological diversity in eggshells from *Drosophila* species.

Niepielko MG, Yakoby N.
Development. 2014 Dec 15;141(24):4710-5.

[\[Abstract\]](#)

Insight into insulin secretion from transcriptome and genetic analysis of insulin-producing cells of *Drosophila*.

Cao J, Ni J, Ma W, Shiu V, Milla LA, Park S, Spletter ML, Tang S, Zhang J, Wei X, Kim SK, Scott MP.
Genetics. 2014 May;197(1):175-92.

[\[Abstract\]](#)

G α q, G γ 1 and Plc21C control *Drosophila* body fat storage.

Baumbach J, Xu Y, Hehlert P, Kühnlein RP.
J Genet Genomics. 2014 May 20;41(5):283-92.

[\[Abstract\]](#)

Suppressor of fused impedes Ci/Gli nuclear import by opposing Trn/Kap β 2 in Hedgehog signaling.

Shi Q, Han Y, Jiang J.
J Cell Sci. 2014 Mar 1;127(Pt 5):1092-103.

[\[Abstract\]](#)

PI3K signaling and Stat92E converge to modulate glial responsiveness to axonal injury.

Doherty J, Sheehan AE, Bradshaw R, Fox AN, Lu TY, Freeman MR.
PLoS Biol. 2014 Nov 4;12(11):e1001985.

[\[Abstract\]](#)

Class IIa Histone Deacetylases Are Conserved Regulators of Circadian Function.

Fogg PC, O'Neill JS, Dobrzycki T, Calvert S, Lord EC, McIntosh RL, Elliott CJ, Sweeney ST, Hastings MH, Chawla S.

J Biol Chem. 2014 Dec 5;289(49):34341-8.

[\[Abstract\]](#)

A tobacco homolog of DCN1 is involved in pollen development and embryogenesis.

Hosp J, Ribarits A, Retzer K, Jin Y, Tashpulatov A, Resch T, Friedmann C, Ankele E, Voronin V, Palme K, Heberle-Bors E, Touraev A.

Plant Cell Rep. 2014 Jul;33(7):1187-202.

[\[Abstract\]](#)

Hedgehog-regulated atypical PKC promotes phosphorylation and activation of Smoothed and Cubitus interruptus in Drosophila.

Jiang K, Liu Y, Fan J, Epperly G, Gao T, Jiang J, Jia J.

Proc Natl Acad Sci U S A. 2014 Nov 11;111(45):E4842-50.

[\[Abstract\]](#)

The putative HORMA domain protein Atg101 dimerizes and is required for starvation-induced and selective autophagy in Drosophila.

Hegedűs K, Nagy P, Gáspári Z, Juhász G.

Biomed Res Int. 2014;2014:470482.

[\[Abstract\]](#)

Do candidate genes mediating conspecific sperm precedence affect sperm competitive ability within species? A test case in Drosophila.

Civetta A, Finn S.

G3 (Bethesda). 2014 Jul 16;4(9):1701-7.

[\[Abstract\]](#)

Autophagy regulates tissue overgrowth in a context-dependent manner.

Pérez E, Das G, Bergmann A, Baehrecke EH.

Oncogene. 2014 Sep 1;0.

[\[Abstract\]](#)

H3K79 methylation: a new conserved mark that accompanies H4 hyperacetylation prior to histone-to-protamine transition in Drosophila and rat.

Dottermusch-Heidel C, Gärtner SM, Tegeder I, Rathke C, Barckmann B, Bartkuhn M, Bhushan S, Steger K, Meinhardt A, Renkawitz-Pohl R.

Biol Open. 2014 May 2;3(6):444-52.

[\[Abstract\]](#)

Unexpected role of the steroid-deficiency protein ecdysoneless in pre-mRNA splicing.

Claudius AK, Romani P, Lamkemeyer T, Jindra M, Uhlirova M.
PLoS Genet. 2014 Apr 10;10(4):e1004287.

[\[Abstract\]](#)

The Jak-STAT Target Chinmo Prevents Sex Transformation of Adult Stem Cells in the Drosophila Testis Niche.

Ma Q, Wawersik M, Matunis EL.
Dev Cell. 2014 Nov 24;31(4):474-86.

[\[Abstract\]](#)

β v integrin inhibits chronic and high level activation of JNK to repress senescence phenotypes in Drosophila adult midgut.

Okumura T, Takeda K, Taniguchi K, Adachi-Yamada T.
PLoS One. 2014 Feb 20;9(2):e89387.

[\[Abstract\]](#)

Dendrites are dispensable for basic motoneuron function but essential for fine tuning of behavior.

Ryglewski S, Kadas D, Hutchinson K, Schuetzler N, Vonhoff F, Duch C.
Proc Natl Acad Sci U S A. 2014 Dec 16;111(50):18049-54.

[\[Abstract\]](#)

Metabolic and transcriptional response to a high-fat diet in Drosophila melanogaster.

Heinrichsen ET, Zhang H, Robinson JE, Ngo J, Diop S, Bodmer R, Joiner WJ, Metallo CM, Haddad GG.
Mol Metab. 2013 Oct 23;3(1):42-54.

[\[Abstract\]](#)

Rab11 facilitates cross-talk between autophagy and endosomal pathway through regulation of Hook localization.

Szatmári Z, Kis V, Lippai M, Hegedus K, Faragó T, Lorincz P, Tanaka T, Juhász G, Sass M.
Mol Biol Cell. 2014 Feb;25(4):522-31.

[\[Abstract\]](#)

Enteroendocrine cells support intestinal stem-cell-mediated homeostasis in Drosophila.

Amcheslavsky A, Song W, Li Q, Nie Y, Bragatto I, Ferrandon D, Perrimon N, Ip YT.
Cell Rep. 2014 Oct 9;9(1):32-9.

[\[Abstract\]](#)

Slik and the receptor tyrosine kinase Breathless mediate localized activation of Moesin in terminal tracheal cells.

Ukken FP, Aprill I, JayaNandanan N, Leptin M.
PLoS One. 2014 Jul 25;9(7):e103323.

[\[Abstract\]](#)

The Hippo effector Yorkie activates transcription by interacting with a histone methyltransferase complex through Ncoa6.

Qing Y, Yin F, Wang W, Zheng Y, Guo P, Schozer F, Deng H, Pan D.
Elife. 2014 Jul 15;3.

[\[Abstract\]](#)

The NAV2 homolog Sickie regulates F-actin-mediated axonal growth in Drosophila mushroom body neurons via the non-canonical Rac-Cofilin pathway.

Abe T, Yamazaki D, Murakami S, Hiroi M, Nitta Y, Maeyama Y, Tabata T.
Development. 2014 Dec 15;141(24):4716-28.

[\[Abstract\]](#)

Cilia-mediated hedgehog signaling in Drosophila.

Kuzhandaivel A, Schultz SW, Alkhori L, Alenius M.
Cell Rep. 2014 May 8;7(3):672-80.

[\[Abstract\]](#)

The novel zinc finger protein dASCIZ regulates mitosis in Drosophila via an essential role in dynein light-chain expression.

Zaytseva O, Tennis N, Mitchell N, Kanno S, Yasui A, Heierhorst J, Quinn LM.
Genetics. 2014 Feb;196(2):443-53.

[\[Abstract\]](#)

Kismet positively regulates glutamate receptor localization and synaptic transmission at the Drosophila neuromuscular junction.

Ghosh R, Vegesna S, Safi R, Bao H, Zhang B, Marendra DR, Liebl FL.
PLoS One. 2014 Nov 20;9(11):e113494.

[\[Abstract\]](#)

Drosophila heparan sulfate 3-O sulfotransferase B null mutant is viable and exhibits no defects in Notch signaling.

Guo Y, Feng Y, Li Z, Lin X.
J Genet Genomics. 2014 Jul 20;41(7):369-78.

[\[Abstract\]](#)

Oncogenic Ras stimulates Eiger/TNF exocytosis to promote growth.

Chabu C, Xu T.
Development. 2014 Dec 15;141(24):4729-39.

[\[Abstract\]](#)

Methods for studying oogenesis.

Hudson AM, Cooley L.

Methods. 2014 Jun 15;68(1):207-17.

[\[Abstract\]](#)

The E3 ligase CUL3/RDX controls centromere maintenance by ubiquitylating and stabilizing CENP-A in a CAL1-dependent manner.

Bade D, Pauleau AL, Wendler A, Erhardt S.

Dev Cell. 2014 Mar 10;28(5):508-19.

[\[Abstract\]](#)

The Drosophila MAPK p38c regulates oxidative stress and lipid homeostasis in the intestine.

Chakrabarti S, Poidevin M, Lemaitre B.

PLoS Genet. 2014 Sep 25;10(9):e1004659.

[\[Abstract\]](#)

Altered GPM6A/M6 dosage impairs cognition and causes phenotypes responsive to cholesterol in human and Drosophila.

Gregor A, Kramer JM, van der Voet M, Schanze I, Uebe S, Donders R, Reis A, Schenck A, Zweier C.

Hum Mutat. 2014 Dec;35(12):1495-505.

[\[Abstract\]](#)

Calpain inhibition mediates autophagy-dependent protection against polyglutamine toxicity.

Menzies FM, Garcia-Arencibia M, Imarisio S, O'Sullivan NC, Ricketts T, Kent BA, Rao MV, Lam W, Green-Thompson ZW, Nixon RA, Saksida LM, Bussey TJ, O'Kane CJ, Rubinsztein DC.

Cell Death Differ. 2014 Sep 26.

[\[Abstract\]](#)

Diacylglycerol lipase regulates lifespan and oxidative stress response by inversely modulating TOR signaling in Drosophila and C. elegans.

Lin YH, Chen YC, Kao TY, Lin YC, Hsu TE, Wu YC, Ja WW, Brummel TJ, Kapahi P, Yuh CH, Yu LK, Lin ZH, You RJ, Jhong YT, Wang HD.

Aging Cell. 2014 Aug;13(4):755-64.

[\[Abstract\]](#)

The Anoctamin Family Channel Subdued Mediates Thermal Nociception in Drosophila.

Jang W, Kim JY, Cui S, Jo J, Lee BC, Lee Y, Kwon KS, Park CS, Kim C.

J Biol Chem. 2014 Dec 10.

[\[Abstract\]](#)

The sterile 20-like kinase tao controls tissue homeostasis by regulating the hippo pathway in *Drosophila* adult midgut.

Huang X, Shi L, Cao J, He F, Li R, Zhang Y, Miao S, Jin L, Qu J, Li Z, Lin X.
J Genet Genomics. 2014 Aug 20;41(8):429-38.

[\[Abstract\]](#)

***Drosophila* heparan sulfate 3-O sulfotransferase B null mutant is viable and exhibits no defects in Notch signaling.**

Guo Y, Feng Y, Li Z, Lin X.
J Genet Genomics. 2014 Jul 20;41(7):369-78.

[\[Abstract\]](#)

Rejuvenation of meiotic cohesion in oocytes during prophase I is required for chiasma maintenance and accurate chromosome segregation.

Weng KA, Jeffreys CA, Bickel SE.
PLoS Genet. 2014 Sep 11;10(9):e1004607.

[\[Abstract\]](#)

Natural antisense transcripts regulate the neuronal stress response and excitability.

Zheng X, Valakh V, Diantonio A, Ben-Shahar Y.
Elife. 2014 Jan 1;3:e01849.

[\[Abstract\]](#)

The irre cell recognition module (IRM) protein Kirre is required to form the reciprocal synaptic network of L4 neurons in the *Drosophila* lamina.

Lüthy K, Ahrens B, Rawal S, Lu Z, Tarnogorska D, Meinertzhagen IA, Fischbach KF.
J Neurogenet. 2014 Sep-Dec;28(3-4):291-301.

[\[Abstract\]](#)

O-glycosylation regulates polarized secretion by modulating Tango1 stability.

Zhang L, Syed ZA, van Dijk Härd I, Lim JM, Wells L, Ten Hagen KG.
Proc Natl Acad Sci U S A. 2014 May 20;111(20):7296-301.

[\[Abstract\]](#)

Loss of *Drosophila* Ataxin-7, a SAGA subunit, reduces H2B ubiquitination and leads to neural and retinal degeneration.

Mohan RD, Dialynas G, Weake VM, Liu J, Martin-Brown S, Florens L, Washburn MP, Workman JL, Abmayr SM.
Genes Dev. 2014 Feb 1;28(3):259-72.

[\[Abstract\]](#)

Src64B phosphorylates Dumbfounded and regulates slit diaphragm dynamics: Drosophila as a model to study nephropathies.

Tutor AS, Prieto-Sánchez S, Ruiz-Gómez M.

Development. 2014 Jan;141(2):367-76.

[\[Abstract\]](#)

Neuronal control of metabolism through nutrient-dependent modulation of tracheal branching.

Linneweber GA, Jacobson J, Busch KE, Hudry B, Christov CP, Dormann D, Yuan M, Otani T, Knust E, de Bono M, Miguel-Aliaga I.

Cell. 2014 Jan 16;156(1-2):69-83.

[\[Abstract\]](#)

Notch directly regulates the cell morphogenesis genes Reck, talin and trio in adult muscle progenitors.

Pézeron G, Millen K, Boukhatmi H, Bray S.

J Cell Sci. 2014 Nov 1;127(21):4634-44.

[\[Abstract\]](#)

The role of pygopus in the differentiation of intracardiac valves in Drosophila.

Tang M, Yuan W, Bodmer R, Wu X, Ocorr K.

Genesis. 2014 Jan;52(1):19-28.

[\[Abstract\]](#)

Centralspindlin is required for thorax development during Drosophila metamorphosis.

Sfregola M.

Genesis. 2014 May;52(5):387-98.

[\[Abstract\]](#)

Sudestada1, a Drosophila ribosomal prolyl-hydroxylase required for mRNA translation, cell homeostasis, and organ growth.

Katz MJ, Acevedo JM, Loenarz C, Galagovsky D, Liu-Yi P, Pérez-Pepe M, Thalhammer A, Sekirnik R, Ge W, Melani M, Thomas MG, Simonetta S, Boccaccio GL, Schofield CJ, Cockman ME, Ratcliffe PJ, Wappner P.

Proc Natl Acad Sci U S A. 2014 Mar 18;111(11):4025-30.

[\[Abstract\]](#)

Gene duplication, lineage-specific expansion, and subfunctionalization in the MADF-BESS family patterns the Drosophila wing hinge.

Shukla V, Habib F, Kulkarni A, Ratnaparkhi GS.

Genetics. 2014 Feb;196(2):481-96.

[\[Abstract\]](#)

Drosophila melanogaster LRPPRC2 is involved in coordination of mitochondrial translation.

Baggio F, Bratic A, Mourier A, Kauppila TE, Tain LS, Kukat C, Habermann B, Partridge L, Larsson NG.

Nucleic Acids Res. 2014 Dec 16;42(22):13920-38.

[\[Abstract\]](#)

The Arf family G protein Arl1 is required for secretory granule biogenesis in Drosophila.

Torres IL, Rosa-Ferreira C, Munro S.

J Cell Sci. 2014 May 15;127(Pt 10):2151-60.

[\[Abstract\]](#)

A dual role for integrin-linked kinase and β 1-integrin in modulating cardiac aging.

Nishimura M, Kumsta C, Kaushik G, Diop SB, Ding Y, Bisharat-Kernizan J, Catan H, Cammarato A, Ross RS, Engler AJ, Bodmer R, Hansen M, Ocorr K.

Aging Cell. 2014 Jun;13(3):431-40.

[\[Abstract\]](#)

The chromatin regulator DMAP1 modulates activity of the nuclear factor B (NF-B) transcription factor Relish in the Drosophila innate immune response.

Goto A, Fukuyama H, Imler JL, Hoffmann JA.

J Biol Chem. 2014 Jul 25;289(30):20470-6.

[\[Abstract\]](#)

Knockdown expression of eukaryotic initiation factor 5 C-terminal domain containing protein extends lifespan in Drosophila melanogaster.

Wang D, Cui Y, Jiang Z, Xie W.

Biochem Biophys Res Commun. 2014 Apr 4;446(2):465-9.

[\[Abstract\]](#)

Loss of Drosophila Ataxin-7, a SAGA subunit, reduces H2B ubiquitination and leads to neural and retinal degeneration.

Mohan RD, Dialynas G, Weake VM, Liu J, Martin-Brown S, Florens L, Washburn MP, Workman JL, Abmayr SM.

Genes Dev. 2014 Feb 1;28(3):259-72.

[\[Abstract\]](#)

Control of Drosophila blood cell activation via Toll signaling in the fat body.

Schmid MR, Anderl I, Vesala L, Vanha-aho LM, Deng XJ, R met M, Hultmark D.

PLoS One. 2014 Aug 7;9(8):e102568.

[\[Abstract\]](#)

Extensive use of RNA-binding proteins in Drosophila sensory neuron dendrite morphogenesis.

Olesnicky EC, Killian DJ, Garcia E, Morton MC, Rathjen AR, Sola IE, Gavis ER.

G3 (Bethesda). 2014 Feb 19;4(2):297-306.

[\[Abstract\]](#)

The PERK pathway independently triggers apoptosis and a Rac1/Slpr/JNK/Dilp8 signaling favoring tissue homeostasis in a chronic ER stress Drosophila model.

Demay Y, Perochon J, Szuplewski S, Mignotte B, Gaumer S.
Cell Death Dis. 2014 Oct 9;5:e1452.

[\[Abstract\]](#)

Functional characterization of dopamine transporter in vivo using Drosophila melanogaster behavioral assays.

Ueno T, Kume K.
Front Behav Neurosci. 2014 Sep 3;8:303.

[\[Abstract\]](#)

Modulation of feeding behavior by odorant-binding proteins in Drosophila melanogaster.

Swarup S, Morozova TV, Sridhar S, Nokes M, Anholt RR.
Chem Senses. 2014 Feb;39(2):125-32.

[\[Abstract\]](#)

p53- and ERK7-dependent ribosome surveillance response regulates Drosophila insulin-like peptide secretion.

Hasygar K, Hietakangas V.
PLoS Genet. 2014 Nov 13;10(11):e1004764.

[\[Abstract\]](#)

Nemo promotes Notch-mediated lateral inhibition downstream of proneural factors.

Fernandes VM, Panchapakesan SS, Braid LR, Verheyen EM.
Dev Biol. 2014 Aug 15;392(2):334-43.

[\[Abstract\]](#)

Homeodomain-interacting protein kinase (Hipk) phosphorylates the small SPOC family protein Spenito.

Dewald DN, Steinmetz EL, Walldorf U.
Insect Mol Biol. 2014 Dec;23(6):706-19.

[\[Abstract\]](#)

Drosophila COP9 signalosome subunit 7 interacts with multiple genomic loci to regulate development.

Singer R, Atar S, Atias O, Oron E, Segal D, Hirsch JA, Tuller T, Orian A, Chamovitz DA.
Nucleic Acids Res. 2014 Sep;42(15):9761-70.

[\[Abstract\]](#)

Proneural proteins Achaete and Scute associate with nuclear actin to promote formation of external sensory organs.

Hsiao YL, Chen YJ, Chang YJ, Yeh HF, Huang YC, Pi H.
J Cell Sci. 2014 Jan 1;127(Pt 1):182-90.

[\[Abstract\]](#)

Rgn gene is required for gut cell homeostasis after ingestion of sodium dodecyl sulfate in Drosophila.

Pan J, Jin LH.

Gene. 2014 Oct 1;549(1):141-8.

[\[Abstract\]](#)

Pvr expression regulators in equilibrium signal control and maintenance of Drosophila blood progenitors.

Mondal BC, Shim J, Evans CJ, Banerjee U.

Elife. 2014 Sep 8;3:e03626.

[\[Abstract\]](#)

Experimental assessment of the network properties of the Drosophila circadian clock.

Beckwith EJ, Ceriani MF.

J Comp Neurol. 2014 Dec 13.

[\[Abstract\]](#)

Sensing of amino acids in a dopaminergic circuitry promotes rejection of an incomplete diet in Drosophila.

Bjordal M, Arquier N, Kniazeff J, Pin JP, Léopold P.

Cell. 2014 Jan 30;156(3):510-21.

[\[Abstract\]](#)

The four aldehyde oxidases of Drosophila melanogaster have different gene expression patterns and enzyme substrate specificities.

Marelja Z, Dambowsky M, Bolis M, Georgiou ML, Garattini E, Missirlis F, Leimkühler S.

J Exp Biol. 2014 Jun 15;217(Pt 12):2201-11.

[\[Abstract\]](#)

CDP-diacylglycerol synthetase coordinates cell growth and fat storage through phosphatidylinositol metabolism and the insulin pathway.

Liu Y, Wang W, Shui G, Huang X.

PLoS Genet. 2014 Mar 6;10(3):e1004172.

[\[Abstract\]](#)

Kinesin-II recruits Armadillo and Dishevelled for Wingless signaling in Drosophila.

Vuong LT, Mukhopadhyay B, Choi KW.

Development. 2014 Aug;141(16):3222-32.

[\[Abstract\]](#)

DAAM is required for thin filament formation and Sarcomerogenesis during muscle development in *Drosophila*.

Molnár I, Migh E, Szikora S, Kalmár T, Végh AG, Deák F, Barkó S, Bugyi B, Orfanos Z, Kovács J, Juhász G, Váró G, Nyitrai M, Sparrow J, Mihály J.

PLoS Genet. 2014 Feb 27;10(2):e1004166.

[\[Abstract\]](#)

Ubr3 E3 ligase regulates apoptosis by controlling the activity of DIAP1 in *Drosophila*.

Huang Q, Tang X, Wang G, Fan Y, Ray L, Bergmann A, Belenkaya TY, Ling X, Yan D, Lin Y, Ye X, Shi W, Zhou X, Lu F, Qu J, Lin X.

Cell Death Differ. 2014 Dec;21(12):1961-70.

[\[Abstract\]](#)

The control of lipid metabolism by mRNA splicing in *Drosophila*.

Gingras RM, Warren ME, Nagengast AA, Diangelo JR.

Biochem Biophys Res Commun. 2014 Jan 10;443(2):672-6.

[\[Abstract\]](#)

Macroglobulin complement-related encodes a protein required for septate junction organization and paracellular barrier function in *Drosophila*.

Hall S, Bone C, Oshima K, Zhang L, McGraw M, Lucas B, Fehon RG, Ward RE 4th.

Development. 2014 Feb;141(4):889-98.

[\[Abstract\]](#)

Forward and feedback regulation of cyclic steroid production in *Drosophila melanogaster*.

Parvy JP, Wang P, Garrido D, Maria A, Blais C, Poidevin M, Montagne J.

Development. 2014 Oct;141(20):3955-65.

[\[Abstract\]](#)

The transmembrane protein Macroglobulin complement-related is essential for septate junction formation and epithelial barrier function in *Drosophila*.

Bätz T, Förster D, Luschnig S.

Development. 2014 Feb;141(4):899-908.

[\[Abstract\]](#)

An ancient defense system eliminates unfit cells from developing tissues during cell competition.

Meyer SN, Amoyel M, Bergantiños C, de la Cova C, Schertel C, Basler K, Johnston LA.

Science. 2014 Dec 5;346(6214):1258236.

[\[Abstract\]](#)

The actin-binding protein profilin is required for germline stem cell maintenance and germ cell enclosure by somatic cyst cells.

Shields AR, Spence AC, Yamashita YM, Davies EL, Fuller MT.
Development. 2014 Jan;141(1):73-82.

[\[Abstract\]](#)

Persistent replicative stress alters polycomb phenotypes and tissue homeostasis in *Drosophila melanogaster*.

Landais S, D'Alterio C, Jones DL.
Cell Rep. 2014 May 8;7(3):859-70.

[\[Abstract\]](#)

Mode of action of a *Drosophila* FMRFamide in inducing muscle contraction.

Milakovic M, Ormerod KG, Klose MK, Mercier AJ.
J Exp Biol. 2014 May 15;217(Pt 10):1725-36.

[\[Abstract\]](#)

dBrms1 acts as a positive regulator of notch signaling in *Drosophila* Wing.

Zhang Q, Zhang Y, Wu L, Yang Y, Li X, Gao L, Hou X, Wu Y, Hou G, Li Z, Lin X.
J Genet Genomics. 2014 Jun 20;41(6):317-25.

[\[Abstract\]](#)

Tools and methods for studying Notch signaling in *Drosophila melanogaster*.

Zacharioudaki E, Bray SJ.
Methods. 2014 Jun 15;68(1):173-82.

[\[Abstract\]](#)

Sequential axon-derived signals couple target survival and layer specificity in the *Drosophila* visual system.

Pecot MY, Chen Y, Akin O, Chen Z, Tsui CY, Zipursky SL.
Neuron. 2014 Apr 16;82(2):320-33.

[\[Abstract\]](#)

Intestinal epithelium-derived BMP controls stem cell self-renewal in *Drosophila* adult midgut.

Tian A, Jiang J.
Elife. 2014 Mar 11;3:e01857.

[\[Abstract\]](#)

The deubiquitinase USP15 antagonizes Parkin-mediated mitochondrial ubiquitination and mitophagy.

Cornelissen T, Haddad D, Wauters F, Van Humbeeck C, Mandemakers W, Koentjoro B, Sue C, Gevaert K, De Strooper B, Verstreken P, Vandenberghe W.
Hum Mol Genet. 2014 Oct 1;23(19):5227-42.

[\[Abstract\]](#)

The pro-apoptotic activity of *Drosophila* Rbf1 involves dE2F2-dependent downregulation of diap1 and buffy mRNA.

Clavier A, Baillet A, Rincheval-Arnold A, Coléno-Costes A, Lasbleiz C, Mignotte B, Guéna I.
Cell Death Dis. 2014 Sep 4;5:e1405.

[\[Abstract\]](#)

Slit/Robo signaling regulates cell fate decisions in the intestinal stem cell lineage of *Drosophila*.

Biteau B, Jasper H.
Cell Rep. 2014 Jun 26;7(6):1867-75.

[\[Abstract\]](#)

Adipocyte amino acid sensing controls adult germline stem cell number via the amino acid response pathway and independently of Target of Rapamycin signaling in *Drosophila*.

Armstrong AR, Laws KM, Drummond-Barbosa D.
Development. 2014 Dec;141(23):4479-88.

[\[Abstract\]](#)

Astrocytes engage unique molecular programs to engulf pruned neuronal debris from distinct subsets of neurons.

Tasdemir-Yilmaz OE, Freeman MR.
Genes Dev. 2014 Jan 1;28(1):20-33.

[\[Abstract\]](#)

Conserved role of *Drosophila melanogaster* FoxP in motor coordination and courtship song.

Lawton KJ, Wassmer TL, Deitcher DL.
Behav Brain Res. 2014 Jul 15;268:213-21.

[\[Abstract\]](#)

Regulation of *Drosophila* intestinal stem cell maintenance and differentiation by the transcription factor Escargot.

Loza-Coll MA, Southall TD, Sandall SL, Brand AH, Jones DL.
EMBO J. 2014 Dec 17;33(24):2983-96.

[\[Abstract\]](#)

The zinc finger homeodomain-2 gene of *Drosophila* controls Notch targets and regulates apoptosis in the tarsal segments.

Guarner A, Manjón C, Edwards K, Steller H, Suzanne M, Sánchez-Herrero E.
Dev Biol. 2014 Jan 15;385(2):350-65.

The Role of Casein Kinase I in the Drosophila Circadian Clock.

Pri ce JL, Fan JY, Keightley K, Means JC.

Methods Enzymol.

[\[Abstract\]](#)

PICALM modulates autophagy activity and tau accumulation.

Moreau K, Fleming A, Imarisio S, Lopez Ramirez A, Mercer JL, Jimenez-Sanchez M, Bento CF, Puri C, Zavodszky E, Siddiqi F, Lavau CP, Betton M, O'Kane CJ, Wechsler DS, Rubinsztein DC.

Nat Commun. 2014 Sep 22;5:4998.

[\[Abstract\]](#)

Cyclin-dependent kinase 8 module expression profiling reveals requirement of mediator subunits 12 and 13 for transcription of Serpent-dependent innate immunity genes in Drosophila.

Kuuluvainen E, Hakala H, Havula E, Sahal Estimé M, Rämetsä M, Hietakangas V, Mäkelä TP.

J Biol Chem. 2014 Jun 6;289(23):16252-61.

[\[Abstract\]](#)

Investigating spermatogenesis in Drosophila melanogaster.

Demarco RS, Eikenes ÅH, Haglund K, Jones DL.

Methods. 2014 Jun 15;68(1):218-27.

[\[Abstract\]](#)

Induction of endocycles represses apoptosis independently of differentiation and predisposes cells to genome instability.

Hassel C, Zhang B, Dixon M, Calvi BR.

Development. 2014 Jan;141(1):112-23.

[\[Abstract\]](#)

Exosomes as Hedgehog carriers in cytoneme-mediated transport and secretion.

Gradilla AC, González E, Seijo I, Andrés G, Bischoff M, González-Mendez L, Sánchez V, Callejo A, Ibáñez C, Guerra M, Ortigão-Farias JR, Sutherland JD, González M, Barrio R, Falcón-Pérez JM, Guerrero I.

Nat Commun. 2014 Dec 4;5:5649.

[\[Abstract\]](#)

Ciona intestinalis NADH dehydrogenase NDX confers stress-resistance and extended lifespan on Drosophila.

Gospodaryov DV, Lushchak OV, Rovenko BM, Perkhulyn NV, Gerards M, Tuomela T, Jacobs HT.

Biochim Biophys Acta. 2014 Nov;1837(11):1861-9.

[\[Abstract\]](#)

Identification of seven genes essential for male fertility through a genome-wide association study of non-obstructive azoospermia and RNA interference-mediated large-scale functional screening in *Drosophila*.

Yu J, Wu H, Wen Y, Liu Y, Zhou T, Ni B, Lin Y, Dong J, Zhou Z, Hu Z, Guo X, Sha J, Tong C.
Hum Mol Genet. 2014 Oct 30.

[\[Abstract\]](#)

Identification of genes involved in the biology of atypical teratoid/rhabdoid tumours using *Drosophila melanogaster*.

Jeibmann A, Eikmeier K, Linge A, Kool M, Koos B, Schulz J, Albrecht S, Bartelheim K, Frühwald MC, Pfister SM, Paulus W, Hasselblatt M.
Nat Commun. 2014 Jun 3;5:4005.

[\[Abstract\]](#)

Mitochondrial defects and neuromuscular degeneration caused by altered expression of *Drosophila Gdap1*: implications for the Charcot-Marie-Tooth neuropathy.

López Del Amo V, Seco-Cervera M, García-Giménez JL, Whitworth AJ, Pallardó FV, Galindo MI.
Hum Mol Genet. 2015 Jan 1;24(1):21-36.

[\[Abstract\]](#)

Onset of atonal expression in *Drosophila* retinal progenitors involves redundant and synergistic contributions of *Ey/Pax6* and *So* binding sites within two distant enhancers.

Zhou Q, Zhang T, Jemc JC, Chen Y, Chen R, Rebay I, Pignoni F.
Dev Biol. 2014 Feb 1;386(1):152-64.

[\[Abstract\]](#)

CMT-associated mutations in glycyl- and tyrosyl-tRNA synthetases exhibit similar pattern of toxicity and share common genetic modifiers in *Drosophila*.

Ermanoska B, Motley WW, Leitão-Gonçalves R, Asselbergh B, Lee LH, De Rijk P, Slegers K, Ooms T, Godenschwege TA, Timmerman V, Fischbeck KH, Jordanova A.
Neurobiol Dis. 2014 Aug;68:180-9.

[\[Abstract\]](#)

Impairment of *Drosophila* orthologs of the human orphan protein C19orf12 induces bang sensitivity and neurodegeneration.

Iuso A, Sibon OC, Gorza M, Heim K, Organisti C, Meitinger T, Prokisch H.
PLoS One. 2014 Feb 21;9(2):e89439.

[\[Abstract\]](#)

Double-sieving-defective aminoacyl-tRNA synthetase causes protein mistranslation and affects cellular physiology and development.

Lu J, Bergert M, Walther A, Suter B.

Nat Commun. 2014 Nov 27;5:5650.

[\[Abstract\]](#)

Identification of *ter94*, *Drosophila* VCP, as a strong modulator of motor neuron degeneration induced by knockdown of *Caz*, *Drosophila* FUS.

Azuma Y, Tokuda T, Shimamura M, Kyotani A, Sasayama H, Yoshida T, Mizuta I, Mizuno T, Nakagawa M, Fujikake N, Ueyama M, Nagai Y, Yamaguchi M.

Hum Mol Genet. 2014 Jul 1;23(13):3467-80.

[\[Abstract\]](#)

Coordination of insulin and Notch pathway activities by microRNA miR-305 mediates adaptive homeostasis in the intestinal stem cells of the *Drosophila* gut.

Foronda D, Weng R, Verma P, Chen YW, Cohen SM.

Genes Dev. 2014 Nov 1;28(21):2421-31.

[\[Abstract\]](#)

Lgl regulates Notch signaling via endocytosis, independently of the apical aPKC-Par6-Baz polarity complex.

Parsons LM, Portela M, Grzeschik NA, Richardson HE.

Curr Biol. 2014 Sep 22;24(18):2073-84.

[\[Abstract\]](#)

Identification of a new stem cell population that generates *Drosophila* flight muscles.

Gunage RD, Reichert H, VijayRaghavan K.

Elife. 2014 Aug 18;3.

[\[Abstract\]](#)

Contrasting influences of *Drosophila* white/mini-white on ethanol sensitivity in two different behavioral assays.

Chan RF, Lewellyn L, DeLoyht JM, Sennett K, Coffman S, Hewitt M, Bettinger JC, Warrick JM, Grotewiel M.

Alcohol Clin Exp Res. 2014 Jun;38(6):1582-93.

[\[Abstract\]](#)

Evolutionarily conserved heterogeneous nuclear ribonucleoprotein (hnRNP) A/B proteins functionally interact with human and *Drosophila* TAR DNA-binding protein 43 (TDP-43).

Romano M, Buratti E, Romano G, Klima R, Del Bel Belluz L, Stuani C, Baralle F, Feiguin F.

J Biol Chem. 2014 Mar 7;289(10):7121-30.

[\[Abstract\]](#)

A genetic screen identifies Tor as an interactor of VAPB in a *Drosophila* model of amyotrophic lateral sclerosis.

Deivasigamani S, Verma HK, Ueda R, Ratnaparkhi A, Ratnaparkhi GS.
Biol Open. 2014 Oct 31;3(11):1127-38.

[\[Abstract\]](#)

Drosophila insulin-producing cells are differentially modulated by serotonin and octopamine receptors and affect social behavior.

Luo J, Lushchak OV, Goergen P, Williams MJ, Nässel DR.
PLoS One. 2014 Jun 12;9(6):e99732.

[\[Abstract\]](#)

Sara endosomes and the asymmetric division of intestinal stem cells.

Montagne C, Gonzalez-Gaitan M.
Development. 2014 May;141(10):2014-23.

[\[Abstract\]](#)

The Drosophila FHOD1-like formin Knittrig acts through Rok to promote stress fiber formation and directed macrophage migration during the cellular immune response.

Lammel U, Bechtold M, Risse B, Berh D, Fleige A, Bunse I, Jiang X, Klämbt C, Bogdan S.
Development. 2014 Mar;141(6):1366-80.

[\[Abstract\]](#)

Mechanical and non-mechanical functions of Dystrophin can prevent cardiac abnormalities in Drosophila.

Taghli-Lamalle O, Jagla K, Chamberlain JS, Bodmer R.
Exp Gerontol. 2014 Jan;49:26-34.

[\[Abstract\]](#)

EGFR and Notch signaling respectively regulate proliferative activity and multiple cell lineage differentiation of Drosophila gastric stem cells.

Wang C, Guo X, Xi R.
Cell Res. 2014 May;24(5):610-27.

[\[Abstract\]](#)

Assessing Pseudomonas virulence with a nonmammalian host: Drosophila melanogaster.

Haller S, Limmer S, Ferrandon D.
Methods Mol Biol. 2014;1149:723-40.

[\[Abstract\]](#)

A hard-wired glutamatergic circuit pools and relays UV signals to mediate spectral preference in Drosophila.

Karuppururai T, Lin TY, Ting CY, Pursley R, Melnattur KV, Diao F, White BH, Macpherson LJ, Gallio M, Pohida T, Lee CH.

Neuron. 2014 Feb 5;81(3):603-15.

[\[Abstract\]](#)

Escargot restricts niche cell to stem cell conversion in the *Drosophila* testis.

Voog J, Sandall SL, Hime GR, Resende LP, Loza-Coll M, Aslanian A, Yates JR 3rd, Hunter T, Fuller MT, Jones DL.

Cell Rep. 2014 May 8;7(3):722-34.

[\[Abstract\]](#)

UCP4C mediates uncoupled respiration in larvae of *Drosophila melanogaster*.

Da-Ré C, De Pittà C, Zordan MA, Teza G, Nestola F, Zeviani M, Costa R, Bernardi P.

EMBO Rep. 2014 May;15(5):586-91.

[\[Abstract\]](#)

Negative regulation of MAP kinase signaling in *Drosophila* by Ptp61F/PTP1B.

Tchankouo-Nguetchou S, Udinotti M, Durand M, Meng TC, Taouis M, Rabinow L.

Mol Genet Genomics. 2014 Oct;289(5):795-806.

[\[Abstract\]](#)

Hs3st-A and Hs3st-B regulate intestinal homeostasis in *Drosophila* adult midgut.

Guo Y, Li Z, Lin X.

Cell Signal. 2014 Nov;26(11):2317-25.

[\[Abstract\]](#)

Post-transcriptional gene expression control by NANOS is up-regulated and functionally important in pRb-deficient cells.

Miles WO, Korenjak M, Griffiths LM, Dyer MA, Provero P, Dyson NJ.

EMBO J. 2014 Oct 1;33(19):2201-15.

[\[Abstract\]](#)

Staufen targets coracle mRNA to *Drosophila* neuromuscular junctions and regulates GluRIIA synaptic accumulation and bouton number.

Gardiol A, St Johnston D.

Dev Biol. 2014 Aug 15;392(2):153-67.

[\[Abstract\]](#)

Glia ECM interactions are required to shape the *Drosophila* nervous system.

Meyer S, Schmidt I, Klämbt C.

Mech Dev. 2014 Aug;133:105-16.

[\[Abstract\]](#)

Identification of gamma-interferon-inducible lysosomal thiol reductase (GILT) homologues in the fruit fly *Drosophila melanogaster*.

Kongton K, McCall K, Phongdara A.

Dev Comp Immunol. 2014 Jun;44(2):389-96.

[\[Abstract\]](#)

An investigation of nutrient-dependent mRNA translation in *Drosophila* larvae.

Nagarajan S, Grewal SS.

Biol Open. 2014 Oct 10;3(11):1020-31.

[\[Abstract\]](#)

Regulation of c-Myc protein stability by proteasome activator REGy

Li S, Jiang C, Pan J, Wang X, Jin J, Zhao L, Pan W, Liao G, Cai X, Li X, Xiao J, Jiang J, Wang P.

Cell Death Differ. 2014 Nov 21.

[\[Abstract\]](#)

Functional genomic analysis of the periodic transcriptome in the developing *Drosophila* wing.

Liang L, Haug JS, Seidel CW, Gibson MC.

Dev Cell. 2014 Apr 14;29(1):112-27.

[\[Abstract\]](#)

Phosphorylation of Mitochondrial Polyubiquitin by PINK1 Promotes Parkin Mitochondrial Tethering.

Shiba-Fukushima K, Arano T, Matsumoto G, Inoshita T, Yoshida S, Ishihama Y, Ryu KY, Nukina N, Hattori N, Imai Y.

PLoS Genet. 2014 Dec 4;10(12):e1004861.

[\[Abstract\]](#)

Nepriylsins: an evolutionarily conserved family of metalloproteases that play important roles in reproduction in *Drosophila*.

Sitnik JL, Francis C, Hens K, Huybrechts R, Wolfner MF, Callaerts P.

Genetics. 2014 Mar;196(3):781-97.

[\[Abstract\]](#)

***Drosophila melanogaster* cellular repressor of E1A-stimulated genes is a lysosomal protein essential for fly development.**

Kowalewski-Nimmerfall E, Schähls P, Maresch D, Rendic D, Krämer H, Mach L.

Biochim Biophys Acta. 2014 Dec;1843(12):2900-12.

[\[Abstract\]](#)

Mmp1 and Mmp2 cooperatively induce *Drosophila* fat body cell dissociation with distinct roles.

Jia Q, Liu Y, Liu H, Li S.

Sci Rep. 2014 Dec 18;4:7535.

[\[Abstract\]](#)

Genetic analysis of dTSPO, an outer mitochondrial membrane protein, reveals its functions in apoptosis, longevity, and Ab42-induced neurodegeneration.

Lin R, Angelin A, Da Settimo F, Martini C, Taliani S, Zhu S, Wallace DC.

Aging Cell. 2014 Jun;13(3):507-18.

[\[Abstract\]](#)

Guidance of subcellular tubulogenesis by actin under the control of a synaptotagmin-like protein and Moesin.

JayaNandanan N, Mathew R, Leptin M.

Nat Commun. 2014;5:3036.

[\[Abstract\]](#)

Beadex function in the motor neurons is essential for female reproduction in Drosophila melanogaster.

Kairamkonda S, Nongthomba U.

PLoS One. 2014 Nov 14;9(11):e113003.

[\[Abstract\]](#)

The COP9 signalosome converts temporal hormone signaling to spatial restriction on neural competence.

Huang YC, Lu YN, Wu JT, Chien CT, Pi H.

PLoS Genet. 2014 Nov 13;10(11):e1004760.

[\[Abstract\]](#)

Nucleoporin Nup98 associates with Trx/MLL and NSL histone-modifying complexes and regulates Hox gene expression.

Pascual-Garcia P, Jeong J, Capelson M.

Cell Rep. 2014 Oct 23;9(2):433-42.

[\[Abstract\]](#)

Drosophila Erect wing (Ewg) controls mitochondrial fusion during muscle growth and maintenance by regulation of the Opa1-like gene.

Rai M, Katti P, Nongthomba U.

J Cell Sci. 2014 Jan 1;127(Pt 1):191-203.

[\[Abstract\]](#)

FMRP and Ataxin-2 function together in long-term olfactory habituation and neuronal translational control.

Sudhakaran IP, Hillebrand J, Dervan A, Das S, Holohan EE, Hülsmeier J, Sarov M, Parker R, VijayRaghavan K, Ramaswami M.

Proc Natl Acad Sci U S A. 2014 Jan 7;111(1):E99-E108.

[\[Abstract\]](#)

Hedgehog signaling downregulates suppressor of fused through the HIB/SPOP-Crn axis in Drosophila.

Liu C, Zhou Z, Yao X, Chen P, Sun M, Su M, Chang C, Yan J, Jiang J, Zhang Q.

Cell Res. 2014 May;24(5):595-609.

[\[Abstract\]](#)

The octopamine receptor oct β 2R is essential for ovulation and fertilization in the fruit fly Drosophila melanogaster.

Li Y, Fink C, El-Kholy S, Roeder T.

Arch Insect Biochem Physiol. 2014 Oct 29.

[\[Abstract\]](#)

Double suppression of the G α protein activity by RGS proteins.

Lin C, Koval A, Tishchenko S, Gabdulkhakov A, Tin U, Solis GP, Katanaev VL.

Mol Cell. 2014 Feb 20;53(4):663-71.

[\[Abstract\]](#)

Drosophila as a model for intestinal infections.

Lestradet M, Lee KZ, Ferrandon D.

Methods Mol Biol. 2014;1197:11-40.

[\[Abstract\]](#)

dLin52 is crucial for dE2F and dRBF mediated transcriptional regulation of pro-apoptotic gene hid.

Bhaskar PK, Surabhi S, Tripathi BK, Mukherjee A, Mutsuddi M.

Biochim Biophys Acta. 2014 Sep;1839(9):800-12.

[\[Abstract\]](#)

Four GABAergic interneurons impose feeding restraint in Drosophila.

Pool AH, Kvello P, Mann K, Cheung SK, Gordon MD, Wang L, Scott K.

Neuron. 2014 Jul 2;83(1):164-77.

[\[Abstract\]](#)

Notch signaling mediates the age-associated decrease in adhesion of germline stem cells to the niche.

Tseng CY, Kao SH, Wan CL, Cho Y, Tung SY, Hsu HJ.

PLoS Genet. 2014 Dec 18;10(12):e1004888.

[\[Abstract\]](#)

dREAM co-operates with insulator-binding proteins and regulates expression at divergently paired genes.

Korenjak M, Kwon E, Morris RT, Anderssen E, Amzallag A, Ramaswamy S, Dyson NJ.

Nucleic Acids Res. 2014 Aug;42(14):8939-53.

[\[Abstract\]](#)

Regulation of food intake by mechanosensory ion channels in enteric neurons.

Olds WH, Xu T.

Elife. 2014 Oct 6;3.

[\[Abstract\]](#)

Mechanical feedback through E-cadherin promotes direction sensing during collective cell migration.

Cai D, Chen SC, Prasad M, He L, Wang X, Choesmel-Cadamuro V, Sawyer JK, Danuser G, Montell DJ.

Cell. 2014 May 22;157(5):1146-59.

[\[Abstract\]](#)

PGRP-SC2 promotes gut immune homeostasis to limit commensal dysbiosis and extend lifespan.

Guo L, Karpac J, Tran SL, Jasper H.

Cell. 2014 Jan 16;156(1-2):109-22.

[\[Abstract\]](#)

The ion transport peptide is a new functional clock neuropeptide in the fruit fly *Drosophila melanogaster*.

Hermann-Luibl C, Yoshii T, Senthilan PR, Dircksen H, Helfrich-Förster C.

J Neurosci. 2014 Jul 16;34(29):9522-36.

[\[Abstract\]](#)

The bHLH factors extramacrochaetae and daughterless control cell cycle in *Drosophila* imaginal discs through the transcriptional regulation of the Cdc25 phosphatase string.

Andrade-Zapata I, Baonza A.

PLoS Genet. 2014 Mar 20;10(3):e1004233.

[\[Abstract\]](#)

Activity-dependent regulation of astrocyte GAT levels during synaptogenesis.

Muthukumar AK, Stork T, Freeman MR.

Nat Neurosci. 2014 Oct;17(10):1340-50.

[\[Abstract\]](#)

The Hox gene Abd-B controls stem cell niche function in the *Drosophila* testis.

Papagiannouli F, Schardt L, Grajcarek J, Ha N, Lohmann I.

Dev Cell. 2014 Jan 27;28(2):189-202.

[\[Abstract\]](#)

TIF-1A-dependent regulation of ribosome synthesis in *Drosophila* muscle is required to maintain systemic insulin signaling and larval growth.

Ghosh A, Rideout EJ, Grewal SS.
PLoS Genet. 2014 Oct 30;10(10):e1004750.

[\[Abstract\]](#)

miR-8 controls synapse structure by repression of the actin regulator enabled.

Loya CM, McNeill EM, Bao H, Zhang B, Van Vactor D.
Development. 2014 May;141(9):1864-74.

[\[Abstract\]](#)

Akirin specifies NF- κ B selectivity of Drosophila innate immune response via chromatin remodeling.

Bonnay F, Nguyen XH, Cohen-Berros E, Troxler L, Batsche E, Camonis J, Takeuchi O, Reichhart JM, Matt N.
EMBO J. 2014 Oct 16;33(20):2349-62.

[\[Abstract\]](#)

Specification of differentiated adult progenitors via inhibition of endocycle entry in the Drosophila trachea.

Djabrayan NJ, Cruz J, de Miguel C, Franch-Marro X, Casanova J.
Cell Rep. 2014 Nov 6;9(3):859-65.

[\[Abstract\]](#)

Identification of Ppk26, a DEG/ENaC Channel Functioning with Ppk1 in a Mutually Dependent Manner to Guide Locomotion Behavior in Drosophila.

Gorczyca DA, Younger S, Meltzer S, Kim SE, Cheng L, Song W, Lee HY, Jan LY, Jan YN.
Cell Rep. 2014 Nov 20;9(4):1446-58.

[\[Abstract\]](#)

The conserved transmembrane proteoglycan Perdido/Kon-tiki is essential for myofibrillogenesis and sarcomeric structure in Drosophila.

Pérez-Moreno JJ, Bischoff M, Martín-Bermudo MD, Estrada B.
J Cell Sci. 2014 Jul 15;127(Pt 14):3162-73.

[\[Abstract\]](#)

Genetic studies in Drosophila and humans support a model for the concerted function of CISD2, PPT1 and CLN3 in disease.

Jones MA, Amr S, Ferebee A, Huynh P, Rosenfeld JA, Miles MF, Davies AG, Korey CA, Warrick JM, Shiang R, Elsea SH, Girirajan S, Grotewiel M.
Biol Open. 2014 Apr 4;3(5):342-52.

[\[Abstract\]](#)

Obesity-linked homologues TfAP-2 and Twz establish meal frequency in Drosophila melanogaster.

Williams MJ, Goergen P, Rajendran J, Zheleznyakova G, Hägglund MG, Perland E, Bagchi S, Kalogeropoulou A, Khan Z, Fredriksson R, Schiöth HB.
PLoS Genet. 2014 Sep 4;10(9):e1004499.

[\[Abstract\]](#)

Temporal patterning of neuroblasts controls Notch-mediated cell survival through regulation of Hid or Reaper.

Bertet C, Li X, Erclik T, Cavey M, Wells B, Desplan C.
Cell. 2014 Aug 28;158(5):1173-86.

[\[Abstract\]](#)

The roles of troponin C isoforms in the mechanical function of Drosophila indirect flight muscle.

Eldred CC, Katzemich A, Patel M, Bullard B, Swank DM.
J Muscle Res Cell Motil. 2014 Aug;35(3-4):211-23.

[\[Abstract\]](#)

Mutations in four glycosyl hydrolases reveal a highly coordinated pathway for rhodopsin biosynthesis and N-glycan trimming in Drosophila melanogaster.

Rosenbaum EE, Vasiljevic E, Brehm KS, Colley NJ.
PLoS Genet. 2014 May 1;10(5):e1004349.

[\[Abstract\]](#)

Yorkie and Scalloped Signaling Regulates Notch-Dependent Lineage Specification during Drosophila Hematopoiesis.

Ferguson GB, Martinez-Agosto JA.
Curr Biol. 2014 Nov 17;24(22):2665-72.

[\[Abstract\]](#)

NDST1 missense mutations in autosomal recessive intellectual disability.

Reuter MS, Musante L, Hu H, Diederich S, Sticht H, Ekici AB, Uebe S, Wienker TF, Bartsch O, Zechner U, Oppitz C, Keleman K, Jamra RA, Najmabadi H, Schweiger S, Reis A, Kahrizi K.
Am J Med Genet A. 2014 Nov;164A(11):2753-63.

[\[Abstract\]](#)

GOLPH3 is essential for contractile ring formation and Rab11 localization to the cleavage site during cytokinesis in Drosophila melanogaster.

Sechi S, Colotti G, Belloni G, Mattei V, Frappaolo A, Raffa GD, Fuller MT, Giansanti MG.
PLoS Genet. 2014 May 1;10(5):e1004305.

[\[Abstract\]](#)

DNA polymerase α interacts with PrSet7 and mediates H4K20 monomethylation in Drosophila.

Sahashi R, Crevel G, Pasko J, Suyari O, Nagai R, Saura MM, Yamaguchi M, Cotterill S.

J Cell Sci. 2014 Jul 15;127(Pt 14):3066-78.

[\[Abstract\]](#)

Dying cells protect survivors from radiation-induced cell death in Drosophila.

Bilak A, Uyetake L, Su TT.

PLoS Genet. 2014 Mar 27;10(3):e1004220.

[\[Abstract\]](#)

The retromer complex is required for rhodopsin recycling and its loss leads to photoreceptor degeneration.

Wang S, Tan KL, Agosto MA, Xiong B, Yamamoto S, Sandoval H, Jaiswal M, Bayat V, Zhang K, Charng WL, David G, Duraine L, Venkatachalam K, Wensel TG, Bellen HJ.

PLoS Biol. 2014 Apr 29;12(4):e1001847.

[\[Abstract\]](#)

Mutations in KATNB1 Cause Complex Cerebral Malformations by Disrupting Asymmetrically Dividing Neural Progenitors.

Mishra-Gorur K, Çağlayan AO, Schaffer AE, Chabu C, Henegariu O, Vonhoff F, Akgümüş GT, Nishimura S, Han W, Tu S, Baran B, Gümüş H, Dilber C, Zaki MS, Hossni HA, Rivière JB, Kayserili H, Spencer EG, Rosti RÖ, Schroth J, Per H, Çağlar C, Çağlar Ç, Dölen D, Baranoski JF, Kumandaş S, Minja FJ, Erson-Omay EZ, Mane SM, Lifton RP, Xu T, Keshishian H, Dobyns WB, Chi NC, Šestan N, Louvi A, Bilgüvar K, Yasuno K, Gleeson JG, Günel M.

Neuron. 2014 Dec 17;84(6):1226-39.

[\[Abstract\]](#)

Identification of novel elements of the Drosophila blisterome sheds light on potential pathological mechanisms of several human diseases.

Bilousov O, Koval A, Keshelava A, Katanaev VL.

PLoS One. 2014 Jun 26;9(6):e101133.

[\[Abstract\]](#)

Generation of a transgenic ORFeome library in Drosophila.

Bischof J, Sheils EM, Björklund M, Basler K.

Nat Protoc. 2014 Jul;9(7):1607-20.

[\[Abstract\]](#)

Retromer promotes immune quiescence by suppressing Spätzle-Toll pathway in Drosophila.

Zhou B, Yun EY, Ray L, You J, Ip YT, Lin X.

J Cell Physiol. 2014 Apr;229(4):512-20.

[\[Abstract\]](#)

ECM stiffness regulates glial migration in Drosophila and mammalian glioma models.

Kim SN, Jeibmann A, Halama K, Witte HT, Wälte M, Matzat T, Schillers H, Faber C, Senner V, Paulus W, Klämbt C.

Development. 2014 Aug;141(16):3233-42.

[\[Abstract\]](#)

Independent, Reciprocal Neuromodulatory Control of Sweet and Bitter Taste Sensitivity during Starvation in Drosophila.

Inagaki HK, Panse KM, Anderson DJ.

Neuron. 2014 Nov 19;84(4):806-20.

[\[Abstract\]](#)

Nuclear envelope protein MAN1 regulates clock through BMAL1.

Lin ST, Zhang L, Lin X, Zhang LC, Garcia VE, Tsai CW, Ptáček L, Fu YH.

Elife. 2014 Sep 2;3:e02981.

[\[Abstract\]](#)

The ESCRT machinery regulates the secretion and long-range activity of Hedgehog.

Matussek T, Wendler F, Polès S, Pizette S, D'Angelo G, Fürthauer M, Théron PP.

Nature. 2014 Dec 4;516(7529):99-103.

[\[Abstract\]](#)

Hox proteins mediate developmental and environmental control of autophagy.

Banreti A, Hudry B, Sass M, Saurin AJ, Graba Y.

Dev Cell. 2014 Jan 13;28(1):56-69.

[\[Abstract\]](#)

Neurons have an active glycogen metabolism that contributes to tolerance to hypoxia.

Saez I, Duran J, Sinadinos C, Beltran A, Yanes O, Tevy MF, Martínez-Pons C, Milán M, Guinovart JJ.

J Cereb Blood Flow Metab. 2014 Jun;34(6):945-55.

[\[Abstract\]](#)

Molecular characterization and evolution of a gene family encoding both female- and male-specific reproductive proteins in Drosophila.

Sirot LK, Findlay GD, Sitnik JL, Frasher D, Avila FW, Wolfner MF.

Mol Biol Evol. 2014 Jun;31(6):1554-67.

[\[Abstract\]](#)

Evolutionary rate covariation identifies new members of a protein network required for Drosophila melanogaster female post-mating responses.

Findlay GD, Sitnik JL, Wang W, Aquadro CF, Clark NL, Wolfner MF.

PLoS Genet. 2014 Jan;10(1):e1004108.

[\[Abstract\]](#)

Differentially timed extracellular signals synchronize pacemaker neuron clocks.

Collins B, Kaplan HS, Cavey M, Lelito KR, Bahle AH, Zhu Z, Macara AM, Roman G, Shafer OT, Blau J.
PLoS Biol. 2014 Sep 30;12(9):e1001959.

[\[Abstract\]](#)

A deterministic analysis of genome integrity during neoplastic growth in Drosophila.

Sievers C, Comoglio F, Seimiya M, Merdes G, Paro R.
PLoS One. 2014 Feb 6;9(2):e87090.

[\[Abstract\]](#)

The Scribble module regulates retromer-dependent endocytic trafficking during epithelial polarization.

de Vreede G, Schoenfeld JD, Windler SL, Morrison H, Lu H, Bilder D.
Development. 2014 Jul;141(14):2796-802.

[\[Abstract\]](#)

A nutritional conditional lethal mutant due to pyridoxine 5'-phosphate oxidase deficiency in Drosophila melanogaster.

Chi W, Zhang L, Du W, Zhuang X.
G3 (Bethesda). 2014 Apr 16;4(6):1147-54.

[\[Abstract\]](#)

A strand-specific switch in noncoding transcription switches the function of a Polycomb/Trithorax response element.

Herzog VA, Lempradl A, Trupke J, Okulski H, Altmutter C, Ruge F, Boidol B, Kubicek S, Schmauss G, Aumayr K, Ruf M, Pospisilik A, Dimond A, Senegin HB, Vargas ML, Simon JA, Ringrose L.
Nat Genet. 2014 Sep;46(9):973-81.

[\[Abstract\]](#)

Chemical mutagens, transposons, and transgenes to interrogate gene function in Drosophila melanogaster.

Venken KJ, Bellen HJ.
Methods. 2014 Jun 15;68(1):15-28.

[\[Abstract\]](#)

Homothorax plays autonomous and nonautonomous roles in proximodistal axis formation and migration of the Drosophila renal tubules.

Zohar-Stoopel A, Gonen N, Mahroum M, Ben-Zvi DS, Toledano H, Salzberg A.
Dev Dyn. 2014 Jan;243(1):132-44.

[\[Abstract\]](#)

Without children is required for Stat-mediated zfh1 transcription and for germline stem cell differentiation.

Maimon I, Popliker M, Gilboa L.

Development. 2014 Jul;141(13):2602-10.

[\[Abstract\]](#)

Coordinate regulation of stem cell competition by Slit-Robo and JAK-STAT signaling in the Drosophila testis.

Stine RR, Greenspan LJ, Ramachandran KV, Matunis EL.

PLoS Genet. 2014 Nov 6;10(11):e1004713.

[\[Abstract\]](#)

JNK signaling is needed to tolerate chromosomal instability.

Wong HW, Shaukat Z, Wang J, Saint R, Gregory SL.

Cell Cycle. 2014 Feb 15;13(4):622-31.

[\[Abstract\]](#)

Drosophila FoxP mutants are deficient in operant self-learning.

Mendoza E, Colomb J, Rybak J, Pflüger HJ, Zars T, Scharff C, Brembs B.

PLoS One. 2014 Jun 25;9(6):e100648.

[\[Abstract\]](#)

Cytoskeleton-mediated contact-dependent transport of the Drosophila decapentaplegic signaling protein.

Roy S, Huang H, Liu S, Kornberg TB.

Science. 2014 Feb 21;343(6173):1244624.

[\[Abstract\]](#)

Ecdysone-induced receptor tyrosine phosphatase PTP52F regulates Drosophila midgut histolysis by enhancement of autophagy and apoptosis.

Santhanam A, Peng WH, Yu YT, Sang TK, Chen GC, Meng TC.

Mol Cell Biol. 2014 May;34(9):1594-606.

[\[Abstract\]](#)

An ecdysone-responsive nuclear receptor regulates circadian rhythms in Drosophila.

Kumar S, Chen D, Jang C, Nall A, Zheng X, Sehgal A.

Nat Commun. 2014 Dec 16;5:5697.

[\[Abstract\]](#)

chaoptin, prominin, eyes shut and crumbs form a genetic network controlling the apical compartment of Drosophila photoreceptor cells.

Gurudev N, Yuan M, Knust E.

Biol Open. 2014 Apr 4;3(5):332-41.

[\[Abstract\]](#)

Isoform-specific functions of Mud/NuMA mediate binucleation of *Drosophila* male accessory gland cells.

Taniguchi K, Kokuryo A, Imano T, Minami R, Nakagoshi H, Adachi-Yamada T.

BMC Dev Biol. 2014 Dec 20;14(1):46.

[\[Abstract\]](#)

UBE2E ubiquitin-conjugating enzymes and ubiquitin isopeptidase Y regulate TDP-43 protein ubiquitination.

Hans F, Fiesel FC, Strong JC, Jäckel S, Rasse TM, Geisler S, Springer W, Schulz JB, Voigt A, Kahle PJ.

J Biol Chem. 2014 Jul 4;289(27):19164-79.

[\[Abstract\]](#)

miR-14 Regulates Autophagy during Developmental Cell Death by Targeting ip3-kinase 2.

Nelson C, Ambros V, Baehrecke EH.

Mol Cell. 2014 Nov 6;56(3):376-88.

[\[Abstract\]](#)

Water sensor ppk28 modulates *Drosophila* lifespan and physiology through AKH signaling.

Waterson MJ, Chung BY, Harvanek ZM, Ostojic I, Alcedo J, Pletcher SD.

Proc Natl Acad Sci U S A. 2014 Jun 3;111(22):8137-42.

[\[Abstract\]](#)

Identifying USPs regulating immune signals in *Drosophila*: USP2 deubiquitinates Imd and promotes its degradation by interacting with the proteasome.

Engel E, Viargues P, Mortier M, Taillebourg E, Couté Y, Thevenon D, Fauvarque MO.

Cell Commun Signal. 2014 Jul 16;12:41.

[\[Abstract\]](#)

The analysis of mutant alleles of different strength reveals multiple functions of topoisomerase 2 in regulation of *Drosophila* chromosome structure.

Mengoli V, Bucciarelli E, Lattao R, Piergentili R, Gatti M, Bonaccorsi S.

PLoS Genet. 2014 Oct 23;10(10):e1004739.

[\[Abstract\]](#)

Regulation of branching dynamics by axon-intrinsic asymmetries in Tyrosine Kinase Receptor signaling.

Zschätzsch M, Oliva C, Langen M, De Geest N, Ozel MN, Williamson WR, Lemon WC, Soldano A, Munck S, Hiesinger PR, Sanchez-Soriano N, Hassan BA.

Elife. 2014 Apr 22;3:e01699.

[\[Abstract\]](#)

Decoding odor quality and intensity in the *Drosophila* brain.

Strutz A, Soelter J, Baschwitz A, Farhan A, Grabe V, Rybak J, Knaden M, Schmucker M, Hansson BS, Sachse S.

Elife. 2014 Dec 16;3.

[\[Abstract\]](#)

A guide to study *Drosophila* muscle biology.

Weitkunat M, Schnorrer F.

Methods. 2014 Jun 15;68(1):2-14.

[\[Abstract\]](#)

Apical accumulation of the Sevenless receptor tyrosine kinase during *Drosophila* eye development is promoted by the small GTPase Rap1.

Baril C, Lefrançois M, Sahmi M, Knævelsrud H, Therrien M.

Genetics. 2014 Aug;197(4):1237-50.

[\[Abstract\]](#)

c-Src drives intestinal regeneration and transformation.

Cordero JB, Ridgway RA, Valeri N, Nixon C, Frame MC, Muller WJ, Vidal M, Sansom OJ.

EMBO J. 2014 Jul 1;33(13):1474-91.

[\[Abstract\]](#)

***Drosophila* eyes absent is required for normal cone and pigment cell development.**

Karandikar UC, Jin M, Jusiak B, Kwak S, Chen R, Mardon G.

PLoS One. 2014 Jul 24;9(7):e102143.

[\[Abstract\]](#)

Transformed epithelia trigger non-tissue-autonomous tumor suppressor response by adipocytes via activation of Toll and Eiger/TNF signaling.

Parisi F, Stefanatos RK, Strathdee K, Yu Y, Vidal M.

Cell Rep. 2014 Mar 13;6(5):855-67.

[\[Abstract\]](#)

A functional screen reveals an extensive layer of transcriptional and splicing control underlying RAS/MAPK signaling in *Drosophila*.

Ashton-Beaucage D, Udell CM, Gendron P, Sahmi M, Lefrançois M, Baril C, Guenier AS, Duchaine J, Lamarre D, Lemieux S, Therrien M.

PLoS Biol. 2014 Mar 18;12(3):e1001809.

[\[Abstract\]](#)

Gap junction proteins in the blood-brain barrier control nutrient-dependent reactivation of *Drosophila* neural stem cells.

Spéder P, Brand AH.

Dev Cell. 2014 Aug 11;30(3):309-21.

[\[Abstract\]](#)

Loss of Na(+)/K(+)-ATPase in *Drosophila* photoreceptors leads to blindness and age-dependent neurodegeneration.

Luan Z, Reddig K, Li HS.

Exp Neurol. 2014 Nov;261:791-801.

[\[Abstract\]](#)

Epidermal cells are the primary phagocytes in the fragmentation and clearance of degenerating dendrites in *Drosophila*.

Han C, Song Y, Xiao H, Wang D, Franc NC, Jan LY, Jan YN.

Neuron. 2014 Feb 5;81(3):544-60.

[\[Abstract\]](#)

SCF(Slmb) E3 ligase-mediated degradation of Expanded is inhibited by the Hippo pathway in *Drosophila*.

Zhang H, Li C, Chen H, Wei C, Dai F, Wu H, Dui W, Deng WM, Jiao R.

Cell Res. 2015 Jan;25(1):93-109.

[\[Abstract\]](#)

The RNA-binding protein Arrest (Bruno) regulates alternative splicing to enable myofibril maturation in *Drosophila* flight muscle.

Spletter ML, Barz C, Yeroslaviz A, Schönbauer C, Ferreira IR, Sarov M, Gerlach D, Stark A, Habermann BH, Schnorrer F.

EMBO Rep. 2014 Dec 22. pii: e201439791.

[\[Abstract\]](#)

Endocytic pathways downregulate the L1-type cell adhesion molecule neuroglian to promote dendrite pruning in *Drosophila*.

Zhang H, Wang Y, Wong JJ, Lim KL, Liou YC, Wang H, Yu F.

Dev Cell. 2014 Aug 25;30(4):463-78.

[\[Abstract\]](#)

ROS regulate cardiac function via a distinct paracrine mechanism.

Lim HY, Wang W, Chen J, Ocorr K, Bodmer R.

Cell Rep. 2014 Apr 10;7(1):35-44.

[\[Abstract\]](#)

Genetic models of apoptosis-induced proliferation decipher activation of JNK and identify a requirement of EGFR signaling for tissue regenerative responses in Drosophila.

Fan Y, Wang S, Hernandez J, Yenigun VB, Hertlein G, Fogarty CE, Lindblad JL, Bergmann A.
PLoS Genet. 2014 Jan 30;10(1):e1004131.

[\[Abstract\]](#)

Wnt pathway activation increases hypoxia tolerance during development.

Gersten M, Zhou D, Azad P, Haddad GG, Subramaniam S.
PLoS One. 2014 Aug 5;9(8):e103292.

[\[Abstract\]](#)

Drosophila Mcm10 is required for DNA replication and differentiation in the compound eye.

Vo N, Taga A, Inaba Y, Yoshida H, Cotterill S, Yamaguchi M.
PLoS One. 2014 Mar 31;9(3):e93450.

[\[Abstract\]](#)

The Little Fly that Could: Wizardry and Artistry of Drosophila Genomics.

Ejsmont RK, Hassan BA.
Genes (Basel). 2014 May 13;5(2):385-414.

[\[Abstract\]](#)

Pri peptides are mediators of ecdysone for the temporal control of development.

Chanut-Delalande H, Hashimoto Y, Pelissier-Monier A, Spokony R, Dib A, Kondo T, Bohère J, Niimi K, Latapie Y, Inagaki S, Dubois L, Valenti P, Polesello C, Kobayashi S, Moussian B, White KP, Plaza S, Kageyama Y, Payre F.
Nat Cell Biol. 2014 Nov;16(11):1035-44.

[\[Abstract\]](#)

Decoding Ci: From partial degradation to inhibition.

Xiong Y, Liu C, Zhao Y.
Dev Growth Differ. 2014 Dec 14.

[\[Abstract\]](#)

A proteomic screen with Drosophila Opa1-like identifies Hsc70-5/Mortalin as a regulator of mitochondrial morphology and cellular homeostasis.

Banerjee S, Chinthapalli B.
Int J Biochem Cell Biol. 2014 Sep;54:36-48.

[\[Abstract\]](#)

Bromine is an essential trace element for assembly of collagen IV scaffolds in tissue development and architecture.

McCall AS, Cummings CF, Bhawe G, Vanacore R, Page-McCaw A, Hudson BG.

Cell. 2014 Jun 5;157(6):1380-92.

[\[Abstract\]](#)

Orbit/CLASP is required for myosin accumulation at the cleavage furrow in Drosophila male meiosis.

Kitazawa D, Matsuo T, Kaizuka K, Miyauchi C, Hayashi D, Inoue YH.

PLoS One. 2014 May 21;9(5):e93669.

[\[Abstract\]](#)

CYLD negatively regulates Hippo signaling by limiting Hpo phosphorylation in Drosophila.

Chen Y, Wang Z, Wang P, Li D, Zhou J, Wu S.

Biochem Biophys Res Commun. 2014 Sep 26;452(3):808-12.

[\[Abstract\]](#)

Escargot maintains stemness and suppresses differentiation in Drosophila intestinal stem cells.

Korzelius J, Naumann SK, Loza-Coll MA, Chan JS, Dutta D, Oberheim J, Gläßer C, Southall TD, Brand AH, Jones DL, Edgar BA.

EMBO J. 2014 Dec 17;33(24):2967-82.

[\[Abstract\]](#)

Fascin links Btl/FGFR signalling to the actin cytoskeleton during Drosophila tracheal morphogenesis.

Okenve-Ramos P, Llimargas M.

Development. 2014 Feb;141(4):929-39.

[\[Abstract\]](#)

Sizing up models of heart failure: Proteomics from flies to humans.

Kooij V, Venkatraman V, Tra J, Kirk JA, Rowell J, Blice-Baum A, Cammarato A, Van Eyk JE.

Proteomics Clin Appl. 2014 Oct;8(9-10):653-64.

[\[Abstract\]](#)

Carrier of Wingless (Cow), a secreted heparan sulfate proteoglycan, promotes extracellular transport of Wingless.

Chang YH, Sun YH.

PLoS One. 2014 Oct 31;9(10):e111573.

[\[Abstract\]](#)