

## VDRC publications 2019 (total 367)

### **Sensory neuron lineage mapping and manipulation in the *Drosophila* olfactory system.**

Chai PC, Cruchet S, Wigger L, Benton R.

Nat Commun. 2019 Feb 7;10(1):643. doi: 10.1038/s41467-019-08345-4.

PMID: 30733440

[\[Abstract\]](#)

### **Chaperonin TRiC/CCT supports mitotic exit and entry into endocycle in *Drosophila*.**

Ohhara Y, Nakamura A, Kato Y, Yamakawa-Kobayashi K.

PLoS Genet. 2019 Apr 29;15(4):e1008121. doi: 10.1371/journal.pgen.1008121. eCollection 2019 Apr.

PMID: 31034473

[\[Abstract\]](#)

### **Cross-species genetic screens to identify kinase targets for APP reduction in Alzheimer's disease.**

Huichalaf CH, Al-Ramahi I, Park KW, Grunke SD, Lu N, de Haro M, El-Zein K, Gallego-Flores T, Perez AM, Jung SY, Botas J, Zoghbi HY, Jankowsky JL.

Hum Mol Genet. 2019 Jun 15;28(12):2014-2029. doi: 10.1093/hmg/ddz034.

PMID: 30753434

[\[Abstract\]](#)

### **Chronic dysfunction of Stromal interaction molecule by pulsed RNAi induction in fat tissue impairs organismal energy homeostasis in *Drosophila*.**

Xu Y, Borcharding AF, Heier C, Tian G, Roeder T, Kühnlein RP.

Sci Rep. 2019 May 6;9(1):6989. doi: 10.1038/s41598-019-43327-y.

PMID:1061470

[\[Abstract\]](#)

### **Female Genetic Contributions to Sperm Competition in *Drosophila melanogaster*.**

Chen DS, Delbare SYN, White SL, Sitnik J, Chatterjee M, DoBell E, Weiss O, Clark AG, Wolfner MF.

Genetics. 2019 Jul;212(3):789-800. doi: 10.1534/genetics.119.302284. Epub 2019 May 17.

PMID: 31101677

[\[Abstract\]](#)

### **Genetic and Molecular Analysis of Essential Genes in Centromeric Heterochromatin of the Left Arm of Chromosome 3 in *Drosophila melanogaster*.**

Syrzycka M, Hallson G, Fitzpatrick KA, Kim I, Cotsworth S, Hollebakk RE, Simonetto K, Yang L, Luongo S, Beja K, Coulthard AB, Hilliker AJ, Sinclair DA, Honda BM.

G3 (Bethesda). 2019 May 7;9(5):1581-1595. doi: 10.1534/g3.119.0003.

PMID: 30948422

[\[Abstract\]](#)

**Phosphatidic acid as a limiting host metabolite for the proliferation of the microsporidium *Tubulinosema ratisbonensis* in *Drosophila* flies.**

Franchet A, Niehus S, Caravello G, Ferrandon D.

Nat Microbiol. 2019 Apr;4(4):645-655. doi: 10.1038/s41564-018-0344-y. Epub 2019 Jan 28.

PMID: 30692666

[\[Abstract\]](#)

**Regulation of fiber-specific actin expression by the *Drosophila* SRF ortholog Blistered.**

DeAgüero AA, Castillo L, Oas ST, Kiani K, Bryantsev AL, Cripps RM.

Development. 2019 Apr 4;146(7). pii: dev164129. doi: 10.1242/dev.164129.

PMID: 30872277

[\[Abstract\]](#)

**Inter-Organ Growth Coordination Is Mediated by the *Xrp1-Dilp8* Axis in *Drosophila*.**

Boulan L, Andersen D, Colombani J, Boone E, Léopold P.

Dev Cell. 2019 Jun 3;49(5):811-818.e4. doi: 10.1016/j.devcel.2019.03.016. Epub 2019 Apr 18.

PMID: 31006647

[\[Abstract\]](#)

**Effects of regular exercise on sleep and activity status in aging and *Clk* RNAi *Drosophila melanogaster*.**

Qiufang Li, Lan Zheng, Fan Yang, Hanzhe Li, Jinxiu Li & Dan Cheng.

Biological Rhythm Research, DOI: 10.1080/09291016.2019.1566990. Received 18 Dec 2018, Accepted 30 Dec 2018, Published online: 06 Feb 2019.

[\[Abstract\]](#) *not included in 2018 list*

**A fat-tissue sensor couples growth to oxygen availability by remotely controlling insulin secretion.**

Texada MJ, Jørgensen AF, Christensen CF, Koyama T, Malita A, Smith DK, Marple DFM, Danielsen ET, Petersen SK, Hansen JL, Halberg KA, Rewitz KF.

Nat Commun. 2019 Apr 26;10(1):1955. doi: 10.1038/s41467-019-09943-y.

PMID: 31028268

[\[Abstract\]](#)

**Transsynaptic Fish-lips signaling prevents misconnections between nonsynaptic partner olfactory neurons.**

Xie Q, Wu B, Li J, Xu C, Li H, Luginbuhl DJ, Wang X, Ward A, Luo L.

Proc Natl Acad Sci U S A. 2019 Aug 6;116(32):16068-16073. doi: 10.1073/pnas.1905832116. Epub 2019 Jul 24.

PMID: 31341080

[\[Abstract\]](#)

**Developmental regulation of Wnt signaling by Nagk and the UDP-GlcNAc salvage pathway.**

Neitzel LR, Spencer ZT, Nayak A, Cselenyi CS, Benchabane H, Youngblood CQ, Zouaoui A, Ng V, Stephens L, Hann T, Patton JG, Robbins D, Ahmed Y, Lee E.

Mech Dev. 2019 Apr;156:20-31. doi: 10.1016/j.mod.2019.03.002. Epub 2019 Mar 20.

PMID: 30904594

[\[Abstract\]](#)

**Tumor-Derived Ligands Trigger Tumor Growth and Host Wasting via Differential MEK Activation.**

Song W, Kir S, Hong S, Hu Y, Wang X, Binari R, Tang HW, Chung V, Banks AS, Spiegelman B, Perrimon N.

Dev Cell. 2019 Jan 28;48(2):277-286.e6. doi: 10.1016/j.devcel.2018.12.003. Epub 2019 Jan 10.

PMID: 30639055

[\[Abstract\]](#)

**NF- $\kappa$ B Shapes Metabolic Adaptation by Attenuating Foxo-Mediated Lipolysis in Drosophila.**

Molaei M, Vandehoef C, Karpac J.

Dev Cell. 2019 Jun 3;49(5):802-810.e6. doi: 10.1016/j.devcel.2019.04.009. Epub 2019 May 9.

PMID: 31080057

[\[Abstract\]](#)

**The Integrator Complex Prevents Dedifferentiation of Intermediate Neural Progenitors back into Neural Stem Cells.**

Zhang Y, Koe CT, Tan YS, Ho J, Tan P, Yu F, Sung WK, Wang H.

Cell Rep. 2019 Apr 23;27(4):987-996.e3. doi: 10.1016/j.celrep.2019.03.089.

PMID: 31018143

[\[Abstract\]](#)

**The endoplasmic reticulum unfolded protein response varies depending on the affected region of the tissue but independently from the source of stress.**

Perochon J, Grandon B, Roche D, Wintz C, Demay Y, Mignotte B, Szuplewski S, Gaumer S.

Cell Stress Chaperones. 2019 Jul;24(4):817-824. doi: 10.1007/s12192-019-01009-8. Epub 2019 May 30.

PMID: 31144193

[\[Abstract\]](#)

**Kinetochore Proteins Have a Post-Mitotic Function in Neurodevelopment.**

Zhao G, Oztan A, Ye Y, Schwarz TL.

Dev Cell. 2019 Mar 25;48(6):873-882.e4. doi: 10.1016/j.devcel.2019.02.003. Epub 2019 Feb 28.

PMID: 30827899

[\[Abstract\]](#)

**Tao Negatively Regulates BMP Signaling During Neuromuscular Junction Development in Drosophila.**

Politano SF, Salemme RR, Ashley J, López-Rivera JA, Bakula TA, Puhalla KA, Quinn JP, Juszczak MJ, Phillip LK, Carrillo RA, Vanderzalm PJ.

Dev Neurobiol. 2019 Apr;79(4):335-349. doi: 10.1002/dneu.22681. Epub 2019 May 11.

PMID: 31002474

[\[Abstract\]](#)

**The glial sodium-potassium-2-chloride cotransporter is required for synaptic transmission in the *Drosophila* visual system.**

Stenesen D, Moehlman AT, Schellinger JN, Rodan AR, Krämer H.  
Sci Rep. 2019 Feb 21;9(1):2475. doi: 10.1038/s41598-019-38850-x.  
PMID: 30792494

[\[Abstract\]](#)

**Autophagy-Mediated Cholesterol Trafficking Controls Steroid Production.**

Texada MJ, Malita A, Christensen CF, Dall KB, Faergeman NJ, Nagy S, Halberg KA, Rewitz K.  
Dev Cell. 2019 Mar 11;48(5):659-671.e4. doi: 10.1016/j.devcel.2019.01.007. Epub 2019 Feb 21.  
PMID: 30799225

[\[Abstract\]](#)

**Patronin governs minus-end-out orientation of dendritic microtubules to promote dendrite pruning in *Drosophila*.**

Wang Y, Rui M, Tang Q, Bu S, Yu F.  
Elife. 2019 Mar 28;8. pii: e39964. doi: 10.7554/eLife.39964.  
PMID: 30920370

[\[Abstract\]](#)

**AstA Signaling Functions as an Evolutionary Conserved Mechanism Timing Juvenile to Adult Transition.**

Deveci D, Martin FA, Leopold P, Romero NM.  
Curr Biol. 2019 Mar 4;29(5):813-822.e4. doi: 10.1016/j.cub.2019.01.053. Epub 2019 Feb 21.  
PMID: 30799245

[\[Abstract\]](#)

**Functional Analysis of ESCRT-Positive Extracellular Vesicles in the *Drosophila* Wing Imaginal Disc.**

Matusek T, Théron P, Fürthauer M.  
Methods Mol Biol. 2019;1998:31-47. doi: 10.1007/978-1-4939-9492-2\_3. June  
PMID: 31250292

[\[Abstract\]](#)

**Organization and function of tension-dependent complexes at adherens junctions.**

Rauskolb C, Cervantes E, Madere F, Irvine KD.  
J Cell Sci. 2019 Apr 3;132(7). pii: jcs224063. doi: 10.1242/jcs.224063.  
PMID: 30837288

[\[Abstract\]](#)

**Electrical synapses between mushroom body neurons are critical for consolidated memory retrieval in *Drosophila*.**

Shyu WH, Lee WP, Chiang MH, Chang CC, Fu TF, Chiang HC, Wu T, Wu CL.

PLoS Genet. 2019 May 9;15(5):e1008153. doi: 10.1371/journal.pgen.1008153. eCollection 2019 May.

PMID: 31071084

[\[Abstract\]](#)

**Diminished Expression of Fat and Dachous PCP Proteins Impaired Centriole Planar Polarization in *Drosophila*.**

Garrido-Jimenez S, Roman AC, Carvajal-Gonzalez JM.

Front Genet. 2019 Apr 12;10:328. doi: 10.3389/fgene.2019.00328. eCollection 2019.

PMID: 31031805

[\[Abstract\]](#)

**Dying Neurons Utilize Innate Immune Signaling to Prime Glia for Phagocytosis during Development.**

McLaughlin CN, Perry-Richardson JJ, Coutinho-Budd JC, Broihier HT.

Dev Cell. 2019 Feb 25;48(4):506-522.e6. doi: 10.1016/j.devcel.2018.12.019. Epub 2019 Feb 7.

PMID: 30745142

[\[Abstract\]](#)

***Drosophila jumu* modulates apoptosis via a JNK-dependent pathway and is required for other processes in wing development.**

Wang XC, Liu Z, Jin LH.

Apoptosis. 2019 Jun;24(5-6):465-477. doi: 10.1007/s10495-019-01527-x.

PMID: 30796611

[\[Abstract\]](#)

**Histidine is selectively required for the growth of Myc-dependent dedifferentiation tumours in the *Drosophila* CNS.**

Froldi F, Pachnis P, Szuperák M, Costas O, Fernando T, Gould AP, Cheng LY.

EMBO J. 2019 Apr 1;38(7). pii: e99895. doi: 10.15252/embj.201899895. Epub 2019 Feb 25.

PMID: 30804004

[\[Abstract\]](#)

***Drosophila* Hcf regulates the Hippo signaling pathway via association with the histone H3K4 methyltransferase Trr.**

Nan Z, Yang W, Lyu J, Wang F, Deng Q, Xi Y, Yang X, Ge W.

Biochem J. 2019 Feb 28;476(4):759-768. doi: 10.1042/BCJ20180717.

PMID: 30733258

[\[Abstract\]](#)

**TRiC/CCT chaperonins are essential for organ growth by interacting with insulin/TOR signaling in *Drosophila*.**

Kim AR, Choi KW.

Oncogene. 2019 Jun;38(24):4739-4754. doi: 10.1038/s41388-019-0754-1. Epub 2019 Feb 21.

PMID: 30792539

[\[Abstract\]](#)

**Axin proteolysis by Iduna is required for the regulation of stem cell proliferation and intestinal homeostasis in *Drosophila*.**

Gultekin Y, Steller H.

Development. 2019 Mar 15;146(6). pii: dev169284. doi: 10.1242/dev.169284.

PMID: 30796047

[\[Abstract\]](#)

**Novel roles for GATAe in growth, maintenance and proliferation of cell populations in the *Drosophila* renal tubule.**

Martínez-Corrales G, Cabrero P, Dow JAT, Terhzaz S, Davies SA.

Development. 2019 May 9;146(9). pii: dev178087. doi: 10.1242/dev.178087.

PMID: 31036543

[\[Abstract\]](#)

**Division of Labor: Roles of Groucho and CtBP in Notch-Mediated Lateral Inhibition that Controls Intestinal Stem Cell Differentiation in *Drosophila*.**

Guo X, Huang H, Yang Z, Cai T, Xi R.

Stem Cell Reports. 2019 May 14;12(5):1007-1023. doi: 10.1016/j.stemcr.2019.03.005. Epub 2019 Apr 11.

PMID: 30982741

[\[Abstract\]](#)

**Polarization of Myosin II Refines Tissue Material Properties to Buffer Mechanical Stress.**

Duda M, Kirkland NJ, Khalilgharibi N, Tozluoglu M, Yuen AC, Carpi N, Bove A, Piel M, Charras G, Baum B, Mao Y.

Dev Cell. 2019 Jan 28;48(2):245-260.e7. doi: 10.1016/j.devcel.2018.12.020.

PMID: 30695698

[\[Abstract\]](#)

**Functional analysis of Niemann-Pick disease type C family protein, NPC1a, in *Drosophila melanogaster*.**

Bialistoky T, Manry D, Smith P, Ng C, Kim Y, Zamir S, Moyal V, Kalifa R, Schedl P, Gerlitz O, Deshpande G.

Development. 2019 May 15;146(10). pii: dev168427. doi: 10.1242/dev.168427.

PMID: 31092503

[\[Abstract\]](#)

**Eph signaling controls mitotic spindle orientation and cell proliferation in neuroepithelial cells.**

Franco M, Carmena A.

J Cell Biol. 2019 Apr 1;218(4):1200-1217. doi: 10.1083/jcb.201807157. Epub 2019 Feb 26.

PMID: 30808706

[\[Abstract\]](#)

**Epidermis-Derived L1CAM Homolog Neuroglian Mediates Dendrite Enclosure and Blocks Heteroneuronal Dendrite Bundling.**

Yang WK, Chueh YR, Cheng YJ, Siegenthaler D, Pielage J, Chien CT.

Curr Biol. 2019 May 6;29(9):1445-1459.e3. doi: 10.1016/j.cub.2019.03.050. Epub 2019 Apr 18.

PMID: 31006568

[\[Abstract\]](#)

**dTcf/Pangolin suppresses growth and tumor formation in Drosophila.**

Song S, Andrejeva D, Freitas FCP, Cohen SM, Herranz H.

Proc Natl Acad Sci U S A. 2019 Jul 9;116(28):14055-14064. doi: 10.1073/pnas.1816981116. Epub 2019 Jun 24.

PMID: 31235567

[\[Abstract\]](#)

**Individual components of the SWI/SNF chromatin remodelling complex have distinct roles in memory neurons of the Drosophila mushroom body.**

Chubak MC, Nixon KCJ, Stone MH, Raun N, Rice SL, Sarikahya M, Jones SG, Lyons TA, Jakub TE, Mainland RLM, Knip MJ, Edwards TN, Kramer JM.

Dis Model Mech. 2019 Mar 25;12(3). pii: dmm037325. doi: 10.1242/dmm.037325.

PMID: 30923190

[\[Abstract\]](#)

**CRL4Mahj E3 ubiquitin ligase promotes neural stem cell reactivation.**

Ly PT, Tan YS, Koe CT, Zhang Y, Xie G, Endow S, Deng WM, Yu F, Wang H.

PLoS Biol. 2019 Jun 6;17(6):e3000276. doi: 10.1371/journal.pbio.3000276. eCollection 2019 Jun.

PMID: 31170139

[\[Abstract\]](#)

**MKK3 modulates JNK-dependent cell migration and invasion.**

Sun Y, Zhang D, Guo X, Li W, Li C, Luo J, Zhou M, Xue L.

Cell Death Dis. 2019 Feb 15;10(3):149. doi: 10.1038/s41419-019-1350-6.

PMID: 30770795

[\[Abstract\]](#)

**Vps8 overexpression inhibits HOPS-dependent trafficking routes by outcompeting Vps41/Lt.**

Lőrincz P, Kenéz LA, Tóth S, Kiss V, Varga Á, Csizmadia T, Simon-Vecsei Z, Juhász G.

Elife. 2019 Jun 13;8. pii: e45631. doi: 10.7554/eLife.45631.

PMID: 31194677

[\[Abstract\]](#)

**FipoQ/FBXO33, a Cullin-1-based ubiquitin ligase complex component modulates ubiquitination and solubility of polyglutamine disease protein.**

Chen ZS, Wong AKY, Cheng TC, Koon AC, Chan HYE.

J Neurochem. 2019 Jun;149(6):781-798. doi: 10.1111/jnc.14669. Epub 2019 Feb 28.

PMID: 30685895

[\[Abstract\]](#)

**Somatic support cells regulate germ cell survival through the Baz/aPKC/Par6 complex.**

Brantley SE, Fuller MT.

Development. 2019 Apr 15;146(8). pii: dev169342. doi: 10.1242/dev.169342.

PMID: 30918053

[\[Abstract\]](#)

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

Hall ET, Hoelsing E, Sinkovics E, Verheyen EM.

Mol Biol Cell. 2019 Feb 1;30(3):411-426. doi: 10.1091/mbc.E18-06-0345. Epub 2018 Dec 12.

PMID: 30540525

[\[Abstract\]](#) *not included in 2018*

**Loss of miR-210 leads to progressive retinal degeneration in Drosophila melanogaster.**

Weigelt CM, Hahn O, Arlt K, Gruhn M, Jahn AJ, Eßer J, Werner JA, Klein C, Büschges A, Grönke S, Partridge L.

Life Sci Alliance. 2019 Jan 22;2(1). pii: e201800149. doi: 10.26508/lsa.201800149. Print 2019 Feb.

PMID: 30670478

[\[Abstract\]](#)

**A Cut/cohesin axis alters the chromatin landscape to facilitate neuroblast death.**

Arya R, Gyonjyan S, Harding K, Sarkissian T, Li Y, Zhou L, White K.

Development. 2019 May 1;146(9). pii: dev166603. doi: 10.1242/dev.166603.

PMID: 30952666

[\[Abstract\]](#)

**E3 ligase Herc4 regulates Hedgehog signaling through promoting Smoothened degradation.**

Jiang W, Yao X, Shan Z, Li W, Gao Y, Zhang Q.

J Mol Cell Biol. 2019 Mar 29. pii: mjz024. doi: 10.1093/jmcb/mjz024. [Epub ahead of print]

PMID: 30925584

[\[Abstract\]](#)



**Drosophila ZIP13 is posttranslationally regulated by iron-mediated stabilization.**

Xu J, Wan Z, Zhou B.

Biochim Biophys Acta Mol Cell Res. 2019 Sep;1866(9):1487-1497. doi: 10.1016/j.bbamcr.2019.06.009.

Epub 2019 Jun 20.

PMID: 31229649

[\[Abstract\]](#)

**Allatostatin-C/AstC-R2 Is a Novel Pathway to Modulate the Circadian Activity Pattern in Drosophila.**

Díaz MM, Schlichting M, Abruzzi KC, Long X, Rosbash M.

Curr Biol. 2019 Jan 7;29(1):13-22.e3. doi: 10.1016/j.cub.2018.11.005. Epub 2018 Dec 13.

PMID: 30554904

[\[Abstract\]](#) *not included in 2018*

**Early girl is a novel component of the Fat signaling pathway.**

Misra JR, Irvine KD.

PLoS Genet. 2019 Jan 30;15(1):e1007955. doi: 10.1371/journal.pgen.1007955. eCollection 2019 Jan.

PMID: 30699121

[\[Abstract\]](#)

**The Conserved IgSF9 Protein Borderless Regulates Axonal Transport of Presynaptic Components and Color Vision in Drosophila.**

Shaw HS, Cameron SA, Chang WT, Rao Y.

J Neurosci. 2019 Aug 28;39(35):6817-6828. doi: 10.1523/JNEUROSCI.0075-19.2019. Epub 2019 Jun 24.

PMID: 31235647

[\[Abstract\]](#)

**Evaluating the Potential of Portulaca oleracea L. for Parkinson's Disease Treatment Using a Drosophila Model with dUCH-Knockdown.**

Truong HKT, Huynh MA, Vuu MD, Dang TPT.

Parkinsons Dis. 2019 Apr 18;2019:1818259. doi: 10.1155/2019/1818259. eCollection 2019.

PMID: 31143437

[\[Abstract\]](#)

**A conserved major facilitator superfamily member orchestrates a subset of O-glycosylation to aid macrophage tissue invasion.**

Valoskova K, Biebl J, Roblek M, Emtenani S, Gyoergy A, Misova M, Ratheesh A, Reis-Rodrigues P,

Shkarina K, Larsen ISB, Vakhrushev SY, Clausen H, Siekhaus DE.

Elife. 2019 Mar 26;8. pii: e41801. doi: 10.7554/eLife.41801.

PMID: 30910009

[\[Abstract\]](#)

**Methods for the study of innate immunity in Drosophila melanogaster.**

Troha K, Buchon N.

Wiley Interdiscip Rev Dev Biol. 2019 Sep;8(5):e344. doi: 10.1002/wdev.344. Epub 2019 Apr 16. Review.  
PMID: 30993906

[\[Abstract\]](#)

**TORC1 modulation in adipose tissue is required for organismal adaptation to hypoxia in Drosophila.**

Lee B, Barretto EC, Grewal SS.

Nat Commun. 2019 Apr 23;10(1):1878. doi: 10.1038/s41467-019-09643-7.

PMID: 31015407

[\[Abstract\]](#)

**An SH3PX1-Dependent Endocytosis-Autophagy Network Restrains Intestinal Stem Cell Proliferation by Counteracting EGFR-ERK Signaling.**

Zhang P, Holowatyj AN, Roy T, Pronovost SM, Marchetti M, Liu H, Ulrich CM, Edgar BA.

Dev Cell. 2019 May 20;49(4):574-589.e5. doi: 10.1016/j.devcel.2019.03.029. Epub 2019 Apr 18.

PMID: 31006650

[\[Abstract\]](#)

**Daywake, an Anti-siesta Gene Linked to a Splicing-Based Thermostat from an Adjoining Clock Gene.**

Yang Y, Edery I.

Curr Biol. 2019 May 20;29(10):1728-1734.e4. doi: 10.1016/j.cub.2019.04.039. Epub 2019 May 9.

PMID: 31080079

[\[Abstract\]](#)

**A Drosophila genetic screen for suppressors of S6kinase-dependent growth identifies the F-box subunit Archipelago/FBXW7.**

Zahoor MK, Poidevin M, Lecerf C, Garrido D, Montagne J.

Mol Genet Genomics. 2019 Jun;294(3):573-582. doi: 10.1007/s00438-018-01529-5. Epub 2019 Jan 17.

PMID: 30656413

[\[Abstract\]](#)

**Cytochrome P450s Cyp4p1 and Cyp4p2 associated with the DDT tolerance in the Drosophila melanogaster strain 91-R.**

Seong KM, Coates BS, Pittendrigh BR.

Pestic Biochem Physiol. 2019 Sep;159:136-143. doi: 10.1016/j.pestbp.2019.06.008. Epub 2019 Jun 14.

PMID: 31400775

[\[Abstract\]](#)

**Inhibition of Notch signaling by the p105 and p180 subunits of Drosophila chromatin assembly factor 1 is required for follicle cell proliferation.**

Lo PK, Huang YC, Corcoran D, Jiao R, Deng WM.

J Cell Sci. 2019 Jan 25;132(2). pii: jcs224170. doi: 10.1242/jcs.224170.

PMID: 30630896

[\[Abstract\]](#)

**Rapid depletion of ESCRT protein Vps4 underlies injury-induced autophagic impediment and Wallerian degeneration.**

Wang H, Wang X, Zhang K, Wang Q, Cao X, Wang Z, Zhang S, Li A, Liu K, Fang Y.

Sci Adv. 2019 Feb 13;5(2):eaav4971. doi: 10.1126/sciadv.aav4971. eCollection 2019 Feb.

PMID: 30788439

[\[Abstract\]](#)

**Mechanosensory circuits coordinate two opposing motor actions in Drosophila feeding.**

Zhou Y, Cao LH, Sui XW, Guo XQ, Luo DG.

Sci Adv. 2019 May 22;5(5):eaaw5141. doi: 10.1126/sciadv.aaw5141. eCollection 2019 May.

PMID: 31131327

[\[Abstract\]](#)

**Essential long-range action of Wingless/Wnt in adult intestinal compartmentalization.**

Tian A, Duwadi D, Benchabane H, Ahmed Y.

PLoS Genet. 2019 Jun 13;15(6):e1008111. doi: 10.1371/journal.pgen.1008111. eCollection 2019 Jun.

PMID: 31194729

[\[Abstract\]](#)

**Usp7 regulates Hippo pathway through deubiquitinating the transcriptional coactivator Yorkie.**

Sun X, Ding Y, Zhan M, Li Y, Gao D, Wang G, Gao Y, Li Y, Wu S, Lu L, Liu Q, Zhou Z.

Nat Commun. 2019 Jan 24;10(1):411. doi: 10.1038/s41467-019-08334-7.

PMID: 30679505

[\[Abstract\]](#)

**Aging-induced Akt activation involves in aging-related pathologies and A $\beta$ -induced toxicity.**

Chen YR, Li YH, Hsieh TC, Wang CM, Cheng KC, Wang L, Lin TY, Cheung CHA, Wu CL, Chiang H.

Aging Cell. 2019 Aug;18(4):e12989. doi: 10.1111/accel.12989. Epub 2019 Jun 11.

PMID: 31183966

[\[Abstract\]](#)

**CTCF variants in 39 individuals with a variable neurodevelopmental disorder broaden the mutational and clinical spectrum.**

Konrad EDH, Nardini N, Caliebe A, Nagel I, Young D, Horvath G, et al

Genet Med. 2019 Jun 26. doi: 10.1038/s41436-019-0585-z. [Epub ahead of print]

PMID: 31239556

[\[Abstract\]](#)

**Planar-Polarized Semaphorin-5c and Plexin A Promote the Collective Migration of Epithelial Cells in *Drosophila*.**

Stedden CG, Menegas W, Zajac AL, Williams AM, Cheng S, Özkan E, Horne-Badovinac S.  
Curr Biol. 2019 Mar 18;29(6):908-920.e6. doi: 10.1016/j.cub.2019.01.049. Epub 2019 Feb 28.  
PMID: 30827914

[\[Abstract\]](#)

**Functional analysis of Aarf domain-containing kinase 1 in *Drosophila melanogaster*.**

Wisidagama DR, Thomas SM, Lam G, Thummel CS.  
Dev Dyn. 2019 Sep;248(9):762-770. doi: 10.1002/dvdy.66. Epub 2019 Jun 19.  
PMID: 31175694

[\[Abstract\]](#)

**A toggle-switch and a feed-forward loop engage in the control of the *Drosophila* retinal determination gene network.**

García-Morales D, Navarro T, Iannini A, Pereira PS, Míguez DG, Casares F. Máximo Sánchez-Aragón1<sup>†</sup>, Julia Cantisán-Gómez2<sup>†‡</sup>, Carlos M. Luque CM, Brás-Pereira C, Lopes CS, Carmen Lemos M, Fernando Casares F.

Front. Ecol. Evol., 12 June 2019 | <https://doi.org/10.3389/fevo.2019.00221>

[\[Abstract\]](#)

**A Gene Expression Screen in *Drosophila melanogaster* Identifies Novel JAK/STAT and EGFR Targets During Oogenesis.**

Wittes J, Schüpbach T.  
G3 (Bethesda). 2019 Jan 9;9(1):47-60. doi: 10.1534/g3.118.200786.  
PMID: 30385460

[\[Abstract\]](#)

**Glutathione S-Transferase Regulates Mitochondrial Populations in Axons through Increased Glutathione Oxidation.**

Smith GA, Lin TH, Sheehan AE, Van der Goes van Naters W, Neukomm LJ, Graves HK, Bis-Brewer DM, Züchner S, Freeman MR.

Neuron. 2019 Jul 3;103(1):52-65.e6. doi: 10.1016/j.neuron.2019.04.017. Epub 2019 May 14.

PMID: 31101394

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**RNase H1 promotes replication fork progression through oppositely transcribed regions of *Drosophila* mitochondrial DNA.**

González de Cózar JM, Gerards M, Teeri E, George J, Dufour E, Jacobs HT, Jöers P.  
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PMID: 30635398

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Yoon W, Hwang SH, Lee SH, Chung J.

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PMID: 31125351

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**Protein phosphatase 2A interacts with Verthandi/Rad21 to regulate mitosis and organ development in Drosophila.**

Kim LH, Hong ST, Choi KW.

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PMID: 31110215

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**Rapamycin modulates tissue aging and lifespan independently of the gut microbiota in Drosophila.**

Schinaman JM, Rana A, Ja WW, Clark RI, Walker DW.

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PMID: 31127145

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**Troponin-I mediates the localization of selected apico-basal cell polarity signaling proteins.**

Casas-Tintó S, Ferrús A.

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PMID: 30872455

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**Cortex glia clear dead young neurons via Drpr/dCed-6/Shark and Crk/Mbc/dCed-12 signaling pathways in the developing Drosophila optic lobe.**

Nakano R, Iwamura M, Obikawa A, Togane Y, Hara Y, Fukuhara T, Tomaru M, Takano-Shimizu T, Tsujimura H.

Dev Biol. 2019 Sep 1;453(1):68-85. doi: 10.1016/j.ydbio.2019.05.003. Epub 2019 May 4.

PMID: 31063730

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**Dysfunction of LSD-1 induces JNK signaling pathway-dependent abnormal development of thorax and apoptosis cell death in Drosophila melanogaster.**

Binh TD, Pham TLA, Men TT, Kamei K.

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PMID: 31229267

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Böhme MA, McCarthy AW, Grasskamp AT, Beuschel CB, Goel P, Jusyte M, Laber D, Huang S, Rey U, Petzoldt AG, Lehmann M, Göttfert F, Haghghi P, Hell SW, Oswald D, Dickman D, Sigrist SJ, Walter AM. Nat Commun. 2019 Mar 6;10(1):1085. doi: 10.1038/s41467-019-08977-6.

PMID: 30842428

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PMID: 31023341

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**Hippo signaling is intrinsically regulated during cell cycle progression by APC/CCdh1.**

Kim W, Cho YS, Wang X, Park O, Ma X, Kim H, Gan W, Jho EH, Cha B, Jeung YJ, Zhang L, Gao B, Wei W, Jiang J, Chung KS, Yang Y.

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PMID: 31000600

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**Glial Ca<sup>2+</sup> signaling links endocytosis to K<sup>+</sup> buffering around neuronal somas to regulate excitability.**

Weiss S, Melom JE, Ormerod KG, Zhang YV, Littleton JT.

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PMID: 31025939

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**Methods for targeting membrane steroid transporters**

Naoki Yamanaka, Sachiko Yamanaka, Naoki Okamoto, Riyan BITTAR

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**Tissue-specific (ts)CRISPR as an efficient strategy for in vivo screening in Drosophila.**

Meltzer H, Marom E, Alyagor I, Maysel O, Berkun V, Segal-Gilboa N, Unger T, Luginbuhl D, Schuldiner O.

Nat Commun. 2019 May 8;10(1):2113. doi: 10.1038/s41467-019-10140-0.

PMID: 31068592

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**Stem Cell Proliferation Is Kept in Check by the Chromatin Regulators Kismet/CHD7/CHD8 and Trr/MLL3/4.**

Gervais L, van den Beek M, Josserand M, Sallé J, Stefanutti M, Perdigoto CN, Skorski P, Mazouni K, Marshall OJ, Brand AH, Schweisguth F, Bardin AJ.

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PMID: 31112698

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**JNK signaling coordinates with ecdysone signaling to promote pruning of *Drosophila* sensory neuron dendrites.**

Zhu S, Chen R, Soba P, Jan YN.

Development. 2019 Apr 17;146(8). pii: dev163592. doi: 10.1242/dev.163592.

PMID: 30936183

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Xiao G, Liu ZH, Zhao M, Wang HL, Zhou B.

Cell Rep. 2019 Jan 15;26(3):748-758.e5. doi: 10.1016/j.celrep.2018.12.053.

PMID: 30650364

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Tsai JW, Kostyleva R, Chen PL, Rivas-Serna IM, Clandinin MT, Meinertzhagen IA, Clandinin TR.

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PMID: 30635583

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PMID: 30972103

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

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PMID: 30718556

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**Insulin signaling in Drosophila melanogaster mediates A $\beta$  toxicity.**

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PMID: 30652125

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**Cooperation of axial and sex specific information controls Drosophila female genitalia growth by regulating the Decapentaplegic pathway.**

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PMID: 31251896

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**Cell Adhesion-Mediated Actomyosin Assembly Regulates the Activity of Cubitus Interruptus for Hematopoietic Progenitor Maintenance in Drosophila.**

Sharma SK, Ghosh S, Geetha AR, Mandal S, Mandal L.

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PMID: 31138608

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**PP1-Mediated Dephosphorylation of Lgl Controls Apical-basal Polarity.**

Moreira S, Osswald M, Ventura G, Gonçalves M, Sunkel CE, Morais-de-Sá E.

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**Neuron-specific knockdown of Drosophila HADHB induces a shortened lifespan, deficient locomotive ability, abnormal motor neuron terminal morphology and learning disability.**

Li J, Suda K, Ueoka I, Tanaka R, Yoshida H, Okada Y, Okamoto Y, Hiramatsu Y, Takashima H, Yamaguchi M.

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PMID: 30973325

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**The Septate Junction Protein Tsp2A Restricts Intestinal Stem Cell Activity via Endocytic Regulation of aPKC and Hippo Signaling.**

Xu C, Tang HW, Hung RJ, Hu Y, Ni X, Housden BE, Perrimon N.

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George LF, Pradhan SJ, Mitchell D, Josey M, Casey J, Belus MT, Fedder KN, Dahal GR, Bates EA.

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PMID: 30733380

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Goodman LD, Prudencio M, Kramer NJ, Martinez-Ramirez LF, Srinivasan AR, Lan M, Parisi MJ, Zhu Y, Chew J, Cook CN, Berson A, Gitler AD, Petrucelli L, Bonini NM.

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PMID: 31110321

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**Mechanical Function of the Nucleus in Force Generation during Epithelial Morphogenesis.**

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PMID: 31204174

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**CHP1 Regulates Compartmentalized Glycerolipid Synthesis by Activating GPAT4.**

Zhu XG, Nicholson Puthenveedu S, Shen Y, La K, Ozlu C, Wang T, Klompstra D, Gultekin Y, Chi J, Fidelin J, Peng T, Molina H, Hang HC, Min W, Birsoy K.

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**Oriented Cell Divisions Are Not Required for Drosophila Wing Shape.**

Zhou Z, Alégot H, Irvine KD.

Curr Biol. 2019 Mar 4;29(5):856-864.e3. doi: 10.1016/j.cub.2019.01.044. Epub 2019 Feb 21.

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PMID: 30871987

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Valsesia A, Wang QP, Gheldof N, Carayol J, Ruffieux H, Clark T, Shenton V, Oyston LJ, Lefebvre G, Metairon S, Chabert C, Walter O, Mironova P, Lau P, Descombes P, Viguerie N, Langin D, Harper ME, Astrup A, Saris WH, Dent R, Neely GG, Hager J.

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PMID: 30710084

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**A Neuron-Glial Trans-Signaling Cascade Mediates LRRK2-Induced Neurodegeneration.**

Maksoud E, Liao EH, Haghighi AP.

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PMID: 30759389

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**Spectraplakin Shot Maintains Perinuclear Microtubule Organization in Drosophila Polyploid Cells.**

Sun T, Song Y, Dai J, Mao D, Ma M, Ni JQ, Liang X, Pastor-Pareja JC.

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PMID: 31006649

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**Inverse Control of Turning Behavior by Dopamine D1 Receptor Signaling in Columnar and Ring Neurons of the Central Complex in Drosophila.**

Kottler B, Faville R, Bridi JC, Hirth F.

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PMID: 30713106

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PMID: 30847082

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**Oncogenic Pathways and Loss of the Rab11 GTPase Synergize To Alter Metabolism in Drosophila.**

Nie Y, Yu S, Li Q, Nirala NK, Amcheslavsky A, Edwards YJK, Shum PW, Jiang Z, Wang W, Zhang B, Gao N, Ip YT.

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PMID: 31213502

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**Ets21c Governs Tissue Renewal, Stress Tolerance, and Aging in the Drosophila Intestine.**

Mundorf J, Donohoe CD, McClure CD, Southall TD, Uhlirova M.

Cell Rep. 2019 Jun 4;27(10):3019-3033.e5. doi: 10.1016/j.celrep.2019.05.025.

PMID: 31167145

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**Conserved function of the matriptase-prostasin proteolytic cascade during epithelial morphogenesis.**

Drees L, Königsmann T, Jaspers MHJ, Pflanz R, Riedel D, Schuh R.

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**DNA damage-induced PARP1 activation confers cardiomyocyte dysfunction through NAD<sup>+</sup> depletion in experimental atrial fibrillation.**

Zhang D, Hu X, Li J, Liu J, Baks-Te Bulte L, Wiersma M, Malik NU, van Marion DMS, Tolouee M, Hoogstra-Berends F, Lanterers EAH, van Roon AM, de Vries AAF, Pijnappels DA, de Groot NMS, Henning RH, Brundel BJJM.

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PMID: 30898999

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**Odd-skipped and Stripe act downstream of Notch to promote the morphogenesis of long appendicular tendons in *Drosophila*.**

Laddada L, Jagla K, Soler C.

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PMID: 30796048

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**Similar effects of high-fructose and high-glucose feeding in a *Drosophila* model of obesity and diabetes.**

Musselman LP, Fink JL, Baranski TJ.

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**Small-molecule drug screening identifies drug Ro 31-8220 that reduces toxic phosphorylated tau in *Drosophila melanogaster*.**

Shim KH, Kim SH, Hur J, Kim DH, Demirev AV, Yoon SY.

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PMID: 31233882

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**Inhibition of the deubiquitinase USP8 corrects a *Drosophila* PINK1 model of mitochondria dysfunction.**

von Stockum S, Sanchez-Martinez A, Corrà S, Chakraborty J, Marchesan E, Locatello L, Da Rè C, Cusumano P, Caicci F, Ferrari V, Costa R, Bubacco L, Rasotto MB, Szabo I, Whitworth AJ, Scorrano L, Ziviani E.

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PMID: 30988163

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**ROS Inhibits Cell Growth by Regulating 4EBP and S6K, Independent of TOR, during Development.**

Toshniwal AG, Gupta S, Mandal L, Mandal S.

Dev Cell. 2019 May 6;49(3):473-489.e9. doi: 10.1016/j.devcel.2019.04.008.

PMID: 31063760

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**Stereotyped terminal axon branching of leg motor neurons mediated by IgSF proteins DIP- $\alpha$  and Dpr10.**

Venkatasubramanian L, Guo Z, Xu S, Tan L, Xiao Q, Nagarkar-Jaiswal S, Mann RS.

Elife. 2019 Feb 4;8. pii: e42692. doi: 10.7554/eLife.42692.

PMID: 30714901

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**Recycling Endosomes in Mature Epithelia Restrain Tumorigenic Signaling.**

D'Agostino L, Nie Y, Goswami S, Tong K, Yu S, Bandyopadhyay S, Flores J, Zhang X, Balasubramanian I, Joseph I, Sakamori R, Farrell V, Li Q, Yang CS, Gao B, Ferraris RP, Yehia G, Bonder EM, Goldenring JR, Verzi MP, Zhang L, Ip YT, Gao N.

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PMID: 31239271

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PMID: 30847993

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**The apical protein Apnoia interacts with Crumbs to regulate tracheal growth and inflation.**

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Gualtieri M, Vaccari T.

Methods Mol Biol. 2019;1998:13-29. doi: 10.1007/978-1-4939-9492-2\_2. Jun

PMID: 31250291

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**Inhibitory muscarinic acetylcholine receptors enhance aversive olfactory learning in adult Drosophila.**

Bielopolski N, Amin H, Apostolopoulou AA, Rozenfeld E, Lerner H, Huetteroth W, Lin AC, Parnas M.

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PMID: 31215865

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**Evaluating Dose- and Time-Dependent Effects of Vitamin C Treatment on a Parkinson's Disease Fly Model.**

Man Anh H, Linh DM, My Dung V, Thi Phuong Thao D.

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Yurgel ME, Kakad P, Zandawala M, Nässel DR, Godenschwege TA, Keene AC.

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PMID: 30759083

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**The pleiotropic effects of Innexin genes expressed in Drosophila glia encompass wing chemosensory sensilla.**

Raad H, Robichon A.

J Neurosci Res. 2019 Oct;97(10):1319-1330. doi: 10.1002/jnr.24485. Epub 2019 Jun 30.

PMID: 31257643

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**Pelota-interacting G protein Hbs1 is required for spermatogenesis in Drosophila.**

Li Z, Yang F, Xuan Y, Xi R, Zhao R.

Sci Rep. 2019 Mar 1;9(1):3226. doi: 10.1038/s41598-019-39530-6.

PMID: 30824860

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**The E3 ligase Highwire promotes synaptic transmission by targeting the NAD-synthesizing enzyme dNmnat.**

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PMID: 30692130

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**Sterol regulatory element binding protein 1 couples mechanical cues and lipid metabolism.**

Bertolio R, Napoletano F, Mano M, Maurer-Stroh S, Fantuz M, Zannini A, Bicciato S, Sorrentino G, Del Sal G.

Nat Commun. 2019 Mar 22;10(1):1326. doi: 10.1038/s41467-019-09152-7.

PMID: 30902980

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**The fruit fly at the interface of diagnosis and pathogenic mechanisms of rare and common human diseases.**

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**Immune-inducible non-coding RNA molecule lincRNA-IBIN connects immunity and metabolism in *Drosophila melanogaster*.**

Valanne S, Salminen TS, Järvelä-Stölting M, Vesala L, Rämetsä M.

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PMID: 30633769

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**Wingless modulates activator protein-1-mediated tumor invasion.**

Zhang S, Guo X, Wu H, Sun Y, Ma X, Li J, Xu Q, Wu C, Li Q, Jiang C, Li W, Ho MS, Lv Z, Xue L.

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PMID: 30683884

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**Two Nimrod receptors, NimC1 and Eater, synergistically contribute to bacterial phagocytosis in *Drosophila melanogaster*.**

Melcarne C, Ramond E, Dudzic J, Bretscher AJ, Kurucz É, Andó I, Lemaitre B.

FEBS J. 2019 Jul;286(14):2670-2691. doi: 10.1111/febs.14857. Epub 2019 May 13.

PMID: 30993828

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**Interphase cohesin regulation ensures mitotic fidelity after genome reduplication.**

Stormo BM, Fox DT.

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PMID: 30462577

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**Drak/STK17A Drives Neoplastic Glial Proliferation through Modulation of MRLC Signaling.**

Chen AS, Wardwell-Ozgo J, Shah NN, Wright D, Appin CL, Vigneswaran K, Brat DJ, Kornblum HI, Read RD.

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Myat MM, Louis D, Mavrommatis A, Collins L, Mattis J, Ledru M, Verghese S, Su TT.

Open Biol. 2019 May 31;9(5):180245. doi: 10.1098/rsob.180245.

PMID: 31039676

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Angulo B, Srinivasan S, Bolival BJ, Olivares GH, Spence AC, Fuller MT.

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**Intestinal NF- $\kappa$ B and STAT signalling is important for uptake and clearance in a Drosophila-Herpetomonas interaction model.**

Wang L, Sloan MA, Ligoxygakis P.

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PMID: 30822306

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**Competition for Space Induces Cell Elimination through Compaction-Driven ERK Downregulation.**

Moreno E, Valon L, Levillayer F, Levayer R.

Curr Biol. 2019 Jan 7;29(1):23-34.e8. doi: 10.1016/j.cub.2018.11.007. Epub 2018 Dec 13.

PMID: 30554899

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**Transsynaptic interactions between IgSF proteins DIP- $\alpha$  and Dpr10 are required for motor neuron targeting specificity.**

Ashley J, Sorrentino V, Lobb-Rabe M, Nagarkar-Jaiswal S, Tan L, Xu S, Xiao Q, Zinn K, Carrillo RA.

Elife. 2019 Feb 4;8. pii: e42690. doi: 10.7554/eLife.42690.

PMID: 30714906

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**Proteasome dysfunction induces excessive proteome instability and loss of mitostasis that can be mitigated by enhancing mitochondrial fusion or autophagy.**

Tsakiri EN, Gumeni S, Vougas K, Pendin D, Papassideri I, Daga A, Gorgoulis V, Juhász G, Scorrano L, Trougakos IP.

Autophagy. 2019 Oct;15(10):1757-1773. doi: 10.1080/15548627.2019.1596477. Epub 2019 Apr 19.

PMID: 31002009

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**GFP-Forked, a genetic reporter for studying Drosophila oocyte polarity.**

Baskar R, Bakrhat A, Abdu U.

Biol Open. 2019 Jan 17;8(1). pii: bio039552. doi: 10.1242/bio.039552.

PMID: 30598482



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**Cell surface molecule, Klingon, mediates the refinement of synaptic specificity in the Drosophila visual system.**

Shimozono M, Osaka J, Kato Y, Araki T, Kawamura H, Takechi H, Hakeda-Suzuki S, Suzuki T.  
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PMID: 31124270

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**Cytoskeletal tension and Bazooka tune interface geometry to ensure fusion fidelity and sheet integrity during dorsal closure.**

Das Gupta PT, Narasimha M.  
Elife. 2019 Apr 17;8. pii: e41091. doi: 10.7554/eLife.41091.  
PMID: 30995201

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**V232M substitution restricts a distinct O-glycosylation of PLD3 and its neuroprotective function.**

Demirev AV, Song HL, Cho MH, Cho K, Peak JJ, Yoo HJ, Kim DH, Yoon SY.  
Neurobiol Dis. 2019 Sep;129:182-194. doi: 10.1016/j.nbd.2019.05.015. Epub 2019 May 20.  
PMID: 31121321

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**Time-restricted feeding restores muscle function in Drosophila models of obesity and circadian-rhythm disruption.**

Villanueva JE, Livelio C, Trujillo AS, Chandran S, Woodworth B, Andrade L, Le HD, Manor U, Panda S, Melkani GC.  
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PMID: 31221967

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**Transcriptional Regulation of the Glutamate/GABA/Glutamine Cycle in Adult Glia Controls Motor Activity and Seizures in Drosophila.**

Mazaud D, Kottler B, Gonçalves-Pimentel C, Proelss S, Tüchler N, Deneubourg C, Yuasa Y, Diebold C, Jungbluth H, Lai EC, Hirth F, Giangrande A, Fanto M.  
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PMID: 31064860

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**Physical and functional cell-matrix uncoupling in a developing tissue under tension.**

Proag A, Monier B, Suzanne M.  
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PMID: 31064785

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**The Dlg Module and Clathrin-Mediated Endocytosis Regulate EGFR Signaling and Cyst Cell-Germline Coordination in the Drosophila Testis.**

Papagiannouli F, Berry CW, Fuller MT.

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**Serotonergic Modulation of Aggression in Drosophila Involves GABAergic and Cholinergic Opposing Pathways.**

Alekseyenko OV, Chan YB, Okaty BW, Chang Y, Dymecki SM, Kravitz EA.

Curr Biol. 2019 Jul 8;29(13):2145-2156.e5. doi: 10.1016/j.cub.2019.05.070. Epub 2019 Jun 20. PMID: 31231050

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**A personalized platform identifies trametinib plus zoledronate for a patient with KRAS-mutant metastatic colorectal cancer.**

Bangi E, Ang C, Smibert P, Uzilov AV, Teague AG, Antipin Y, Chen R, Hecht C, Gruszczynski N, Yon WJ, Malyshev D, Laspina D, Selkridge I, Rainey H, Moe AS, Lau CY, Taik P, Wilck E, Bhardwaj A, Sung M, Kim S, Yum K, Sebra R, Donovan M, Misiukiewicz K, Schadt EE, Posner MR, Cagan RL.

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**Distinct gene-selective roles for a network of core promoter factors in Drosophila neural stem cell identity.**

Neves A, Eisenman RN.

Biol Open. 2019 Apr 4;8(4). pii: bio042168. doi: 10.1242/bio.042168. PMID: 30948355

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**Drosophila Nrf2/Keap1 Mediated Redox Signaling Supports Synaptic Function and Longevity and Impacts on Circadian Activity.**

Spiers JG, Breda C, Robinson S, Giorgini F, Steinert JR.

Front Mol Neurosci. 2019 Apr 16;12:86. doi: 10.3389/fnmol.2019.00086. eCollection 2019. PMID: 31040766

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**Opposing transcriptional and post-transcriptional roles for Scalloped in binary Hippo-dependent neural fate decisions.**

Xie B, Morton DB, Cook TA.

Dev Biol. 2019 Nov 1;455(1):51-59. doi: 10.1016/j.ydbio.2019.06.022. Epub 2019 Jun 29.  
PMID: 31265830

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**Compositions and Methods for Treating Alzheimer's Disease and Other Tauopathies**

B Lu, SS Lee - US Patent App. 16/216,163, 2019

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**Atypical septate junctions maintain the somatic enclosure around maturing spermatids and prevent premature sperm release in *Drosophila* testis.**

Dubey P, Kapoor T, Gupta S, Shirolkar S, Ray K.

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PMID: 30635267

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**Conserved functions of RNA-binding proteins in muscle.**

Nikonova E, Kao SY, Ravichandran K, Wittner A, Spletter ML.

Int J Biochem Cell Biol. 2019 May;110:29-49. doi: 10.1016/j.biocel.2019.02.008. Epub 2019 Feb 25.

PMID: 30818081

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**Patronin-mediated minus end growth is required for dendritic microtubule polarity.**

Feng C, Thyagarajan P, Shorey M, Seebold DY, Weiner AT, Albertson RM, Rao KS, Sagasti A, Goetschius DJ, Rolls MM.

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PMID: 31076454

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**The microRNA-306/abrupt regulatory axis controls wing and haltere growth in *Drosophila*.**

Simoes da Silva CJ, Sospedra I, Aparicio R, Busturia A.

Mech Dev. 2019 Aug;158:103555. doi: 10.1016/j.mod.2019.103555. Epub 2019 May 18.

PMID: 31112748

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**Ask1 and Akt act synergistically to promote ROS-dependent regeneration in *Drosophila*.**

Santabárbara-Ruiz P, Esteban-Collado J, Pérez L, Viola G, Abril JF, Milán M, Corominas M, Serras F.

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PMID: 30677014

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**Mi-2/NuRD complex protects stem cell progeny from mitogenic Notch signaling.**

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PMID: 30694174

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**Neurocalcin regulates nighttime sleep and arousal in *Drosophila*.**

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PMID: 30865587

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PMID: 31160709

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**The histone methyltransferase G9a regulates tolerance to oxidative stress-induced energy consumption.**

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PMID: 30860988

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**Different Evolutionary Trajectories of Two Insect-Specific Paralogous Proteins Involved in Stabilizing Muscle Myofibrils.**

González-Morales N, Marsh TW, Katzemich A, Marescal O, Xiao YS, Schöck F.  
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PMID: 31123042

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**fs(1)h controls metabolic and immune function and enhances survival via AKT and FOXO in *Drosophila*.**

Sharrock J, Estacio-Gomez A, Jacobson J, Kierdorf K, Southall TD, Dionne MS.  
Dis Model Mech. 2019 Apr 4;12(4). pii: dmm037259. doi: 10.1242/dmm.037259.  
PMID: 30910908

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**The HisCl1 histamine receptor acts in photoreceptors to synchronize *Drosophila* behavioral rhythms with light-dark cycles.**

Alejevski F, Saint-Charles A, Michard-Vanhée C, Martin B, Galant S, Vasiliauskas D, Rouyer F.

Nat Commun. 2019 Jan 16;10(1):252. doi: 10.1038/s41467-018-08116-7.

PMID: 30651542

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**The Exchangeable Apolipoprotein Nplp2 Sustains Lipid Flow and Heat Acclimation in Drosophila.**

Rommelaere S, Boquete JP, Piton J, Kondo S, Lemaitre B.

Cell Rep. 2019 Apr 16;27(3):886-899.e6. doi: 10.1016/j.celrep.2019.03.074.

PMID: 30995484

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**Branch-restricted localization of phosphatase Prl-1 specifies axonal synaptogenesis domains.**

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PMID: 31048465

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**De Novo Variants in TAOK1 Cause Neurodevelopmental Disorders.**

Dulovic-Mahlow M, Trinh J, Kandaswamy KK, Braathen GJ, Di Donato N, Rahikkala E, Beblo S, Werber M, Krajka V, Busk ØL, Baumann H, Al-Sanna NA, Hinrichs F, Affan R, Navot N, Al Balwi MA, Oprea G, Holla ØL, Weiss MER, Jamra RA, Kahlert AK, Kishore S, Tveten K, Vos M, Rolfs A, Lohmann K.

Am J Hum Genet. 2019 Jul 3;105(1):213-220. doi: 10.1016/j.ajhg.2019.05.005. Epub 2019 Jun 20.

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Song Y, Li D, Farrelly O, Miles L, Li F, Kim SE, Lo TY, Wang F, Li T, Thompson-Peer KL, Gong J, Murthy SE, Coste B, Yakubovich N, Patapoutian A, Xiang Y, Rompolas P, Jan LY, Jan YN.

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PMID: 30819546

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**A new role for Drosophila Aurora-A in maintaining chromosome integrity.**

Merigliano C, Mascolo E, Cesta A, Saggio I, Verni F.

Chromosoma. 2019 Mar;128(1):41-52. doi: 10.1007/s00412-018-00687-0. Epub 2019 Jan 5.

PMID: 30612150

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**Inhibitors of srsf1 to treat neurodegenerative disorders**

G Hautbergue, M Azzouz, A Whitworth... - US Patent App. 16 ..., 2019

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**Vps11 and Vps18 of Vps-C membrane traffic complexes are E3 ubiquitin ligases and fine-tune signalling.**

Segala G, Bennesch MA, Ghahhari NM, Pandey DP, Echeverria PC, Karch F, Maeda RK, Picard D. Nat Commun. 2019 Apr 23;10(1):1833. doi: 10.1038/s41467-019-09800-y.

PMID: 31015428

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**Strip and Cka negatively regulate JNK signalling during Drosophila spermatogenesis.**

La Marca JE, Diepstraten ST, Hodge AL, Wang H, Hart AH, Richardson HE, Somers WG. Development. 2019 Jun 28;146(13). pii: dev174292. doi: 10.1242/dev.174292.

PMID: 31164352

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**Maintenance of homeostatic plasticity at the Drosophila neuromuscular synapse requires continuous IP3-directed signaling.**

James TD, Zwiefelhofer DJ, Frank CA.

Elife. 2019 Jun 10;8. pii: e39643. doi: 10.7554/eLife.39643.

PMID: 31180325

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**The RNA Helicase BELLE Is Involved in Circadian Rhythmicity and in Transposons Regulation in Drosophila melanogaster.**

Cusumano P, Damulewicz M, Carbognin E, Caccin L, Puricella A, Specchia V, Bozzetti MP, Costa R, Mazzotta GM.

Front Physiol. 2019 Feb 20;10:133. doi: 10.3389/fphys.2019.00133. eCollection 2019.

PMID: 30842743

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**Composition of the Survival Motor Neuron (SMN) Complex in Drosophila melanogaster.**

Matera AG, Raimer AC, Schmidt CA, Kelly JA, Droby GN, Baillat D, Ten Have S, Lamond AI, Wagner EJ, Gray KM.

G3 (Bethesda). 2019 Feb 7;9(2):491-503. doi: 10.1534/g3.118.200874.

PMID: 30563832

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**Dual role of FGF in proliferation and endoreplication of Drosophila tracheal adult progenitor cells.**

Miguel C, Cruz J, Martín D, Franch-Marro X.

J Mol Cell Biol. 2019 Jun 25. pii: mjz055. doi: 10.1093/jmcb/mjz055. [Epub ahead of print]

PMID: 31237953

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**The role of Sevenless in Drosophila R7 photoreceptor specification.**

Tomlinson A, Mavromatakis YE, Arias R.

Dev Biol. 2019 Oct 15;454(2):181-189. doi: 10.1016/j.ydbio.2019.06.007. Epub 2019 Jun 14.

PMID: 31207209

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**CRISPR Gene Drive Efficiency and Resistance Rate Is Highly Heritable with No Common Genetic Loci of Large Effect.**

Champer J, Wen Z, Luthra A, Reeves R, Chung J, Liu C, Lee YL, Liu J, Yang E, Messer PW, Clark AG.

Genetics. 2019 May;212(1):333-341. doi: 10.1534/genetics.119.302037. Epub 2019 Mar 27.

PMID: 30918006

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**Control of basal autophagy rate by vacuolar peduncle.**

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PMID: 30735514

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**The E3-ligases SCFPpa and APC/CCdh1 co-operate to regulate CENP-ACID expression across the cell cycle.**

Moreno-Moreno O, Torras-Llort M, Azorin F.

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PMID: 30753559

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**The plus-tip tracking and microtubule stabilizing activities of Javelin-like regulate microtubule organization and cell polarity.**

Baskar R, Bahkrat A, Otani T, Wada H, Davidov G, Pandey H, Gheber L, Zarivach R, Hayashi S, Abdu U.

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PMID: 31152621

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**Drosophila Mediator Subunit Med1 Is Required for GATA-Dependent Developmental Processes: Divergent Binding Interfaces for Conserved Coactivator Functions.**

Immarigeon C, Bernat-Fabre S, Augé B, Faucher C, Gobert V, Haenlin M, Waltzer L, Payet A, Cribbs DL, Bourbon HG, Boube M.

Mol Cell Biol. 2019 Mar 19;39(7). pii: e00477-18. doi: 10.1128/MCB.00477-18. Print 2019 Apr 1.

PMID: 30670567

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**The use of Drosophila melanogaster as a model organism to study immune-nanotoxicity.**

Ng CT, Yu LE, Ong CN, Bay BH, Baeg GH.

Nanotoxicology. 2019 May;13(4):429-446. doi: 10.1080/17435390.2018.1546413. Epub 2018 Nov 19.  
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González A, Jafari S, Zenere A, Alenius M, Altafini C.

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**Regulation of the Elongation Phase of Protein Synthesis Enhances Translation Accuracy and Modulates Lifespan.**

Xie J, de Souza Alves V, von der Haar T, O'Keefe L, Lenchine RV, Jensen KB, Liu R, Coldwell MJ, Wang X, Proud CG.

Curr Biol. 2019 Mar 4;29(5):737-749.e5. doi: 10.1016/j.cub.2019.01.029. Epub 2019 Feb 14.

PMID: 30773367

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**The  $\alpha/\beta$ -hydrolase domain-containing 4- and 5-related phospholipase Pummelig controls energy storage in Drosophila.**

Hehlert P, Hofferek V, Heier C, Eichmann TO, Riedel D, Rosenberg J, Takaács A, Nagy HM, Oberer M, Zimmermann R, Kühnlein RP.

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PMID: 31164391

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**Expressional Profiling of Carpet Glia in the Developing Drosophila Eye Reveals Its Molecular Signature of Morphology Regulators.**

Ho TY, Wu WH, Hung SJ, Liu T, Lee YM, Liu YH.

Front Neurosci. 2019 Mar 29;13:244. doi: 10.3389/fnins.2019.00244. eCollection 2019.

PMID: 30983950

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**A Change in ECM Composition Affects Sensory Organ Mechanics and Function.**

Hassan A, Sapir L, Nitsan I, Greenblatt Ben-El RT, Halachmi N, Salzberg A, Tzlil S.

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PMID:31116974

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**A small proportion of Talin molecules transmit forces at developing muscle attachments in vivo.**

Lemke SB, Weidemann T, Cost AL, Grashoff C, Schnorrer F.



PLoS Biol. 2019 Mar 27;17(3):e3000057. doi: 10.1371/journal.pbio.3000057. eCollection 2019 Mar.  
PMID: 30917109

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**Shaping of Drosophila Neural Cell Lineages Through Coordination of Cell Proliferation and Cell Fate by the BTB-ZF Transcription Factor Tramtrack-69.**

Simon F, Ramat A, Louvet-Vallée S, Lacoste J, Burg A, Audibert A, Gho M.

Genetics. 2019 Jul;212(3):773-788. doi: 10.1534/genetics.119.302234. Epub 2019 May 9.

PMID: 31073020

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**TDP-43 induces mitochondrial damage and activates the mitochondrial unfolded protein response.**

Wang P, Deng J, Dong J, Liu J, Bigio EH, Mesulam M, Wang T, Sun L, Wang L, Lee AY, McGee WA, Chen X, Fushimi K, Zhu L, Wu JY.

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PMID: 31100073

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**The desaturase1 gene affects reproduction before, during and after copulation in Drosophila melanogaster.**

Nojima T, Chauvel I, Houot B, Bousquet F, Farine JP, Everaerts C, Yamamoto D, Ferveur JF.

J Neurogenet. 2019 Mar - Jun;33(2):96-115. doi: 10.1080/01677063.2018.1559843. Epub 2019 Feb 6.

PMID: 30724684

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**Nerve injury drives a heightened state of vigilance and neuropathic sensitization in Drosophila.**

Khuong TM, Wang QP, Manion J, Oyston LJ, Lau MT, Towler H, Lin YQ, Neely GG.

Sci Adv. 2019 Jul 10;5(7):eaaw4099. doi: 10.1126/sciadv.aaw4099. eCollection 2019 Jul.

PMID: 31309148

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**Ferritin heavy chain protects the developing wing from reactive oxygen species and ferroptosis.**

Mumbauer S, Pascual J, Kolotuev I, Hamaratoglu F.

PLoS Genet. 2019 Sep 30;15(9):e1008396. doi: 10.1371/journal.pgen.1008396. eCollection 2019 Sep.

PMID: 31568497

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**Straightjacket/ $\alpha 2\delta 3$  deregulation is associated with cardiac conduction defects in myotonic dystrophy type 1.**

Auxerre-Plantié E, Nakamori M, Renaud Y, Huguet A, Choquet C, Dondi C, Miquerol L, Takahashi MP, Gourdon G, Junion G, Jagla T, Zmojdzian M, Jagla K.

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PMID: 31829940

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**Extended Flight Bouts Require Disinhibition from GABAergic Mushroom Body Neurons.**

Manjila SB, Kuruvilla M, Ferveur JF, Sane SP, Hasan G.

Curr Biol. 2019 Jan 21;29(2):283-293.e5. doi: 10.1016/j.cub.2018.11.070. Epub 2019 Jan 3.

PMID: 30612904

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**Targeted Downregulation of *kdm4a* Ameliorates Tau-engendered Defects in *Drosophila melanogaster*.**

Park SY, Seo J, Chun YS.

J Korean Med Sci. 2019 Aug 26;34(33):e225. doi: 10.3346/jkms.2019.34.e225.

PMID: 31436053

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**Distinct CoREST complexes act in a cell-type-specific manner.**

Mačinković I, Theofel I, Hundertmark T, Kovač K, Awe S, Lenz J, Forné I, Lamp B, Nist A, Imhof A, Stiewe T, Renkawitz-Pohl R, Rathke C, Brehm A.

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PMID: 31701127

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**Molecular Basis for Autosomal-Dominant Renal Fanconi Syndrome Caused by *HNF4A*.**

Marchesin V, Pérez-Martí A, Le Meur G, Pichler R, Grand K, Klootwijk ED, Kesselheim A, Kleta R, Lienkamp S, Simons M.

Cell Rep. 2019 Dec 24;29(13):4407-4421.e5. doi: 10.1016/j.celrep.2019.11.066.

PMID: 31875549

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**Ecdysone-Induced 3D Chromatin Reorganization Involves Active Enhancers Bound by Pipsqueak and Polycomb.**

Gutierrez-Perez I, Rowley MJ, Lyu X, Valadez-Graham V, Vallejo DM, Ballesta-Illan E, Lopez-Atalaya JP, Kremisky I, Caparros E, Corces VG, Dominguez M.

Cell Rep. 2019 Sep 3;28(10):2715-2727.e5. doi: 10.1016/j.celrep.2019.07.096.

PMID: 31484080

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**Differential toxicity of ataxin-3 isoforms in *Drosophila* models of Spinocerebellar Ataxia Type 3.**

Johnson SL, Blount JR, Libohova K, Ranxhi B, Paulson HL, Tsou WL, Todi SV.

Neurobiol Dis. 2019 Dec;132:104535. doi: 10.1016/j.nbd.2019.104535. Epub 2019 Jul 13.

PMID: 31310802

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**Degeneration of Injured Axons and Dendrites Requires Restraint of a Protective JNK Signaling Pathway by the Transmembrane Protein Raw.**

Hao Y, Waller TJ, Nye DM, Li J, Zhang Y, Hume RI, Rolls MM, Collins CA.

J Neurosci. 2019 Oct 23;39(43):8457-8470. doi: 10.1523/JNEUROSCI.0016-19.2019. Epub 2019 Sep 6.

PMID: 31492772

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**The SR proteins SF2 and RBP1 regulate triglyceride storage in the fat body of Drosophila.**

Bennick RA, Nagengast AA, DiAngelo JR.

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**Drosophila melanogaster and its nephrocytes: A versatile model for glomerular research.**

Odenthal J, Brinkkoetter PT.

Methods Cell Biol. 2019;154:217-240. doi: 10.1016/bs.mcb.2019.03.011. Epub 2019 Apr 30.

PMID: 31493819

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**Drosophila PSI controls circadian period and the phase of circadian behavior under temperature cycle via tim splicing.**

Foley LE, Ling J, Joshi R, Evantal N, Kadener S, Emery P.

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PMID: 31278365

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PMID: 31390561

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**Tango1 coordinates the formation of endoplasmic reticulum/Golgi docking sites to mediate secretory granule formation.**

Reynolds HM, Zhang L, Tran DT, Ten Hagen KG.

J Biol Chem. 2019 Dec 20;294(51):19498-19510. doi: 10.1074/jbc.RA119.011063. Epub 2019 Nov 5.

PMID: 31690624

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**Diphthamide modification of eEF2 is required for gut tumor-like hyperplasia induced by oncogenic Ras.**

Tsuda-Sakurai K, Kimura M, Miura M.

Genes Cells. 2019 Dec 11. doi: 10.1111/gtc.12742. [Epub ahead of print]

PMID: 31828897

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**The WT1-like transcription factor Klumpfuss maintains lineage commitment of enterocyte progenitors in the *Drosophila* intestine.**

Korzelius J, Azami S, Ronnen-Oron T, Koch P, Baldauf M, Meier E, Rodriguez-Fernandez IA, Groth M, Sousa-Victor P, Jasper H.

Nat Commun. 2019 Sep 11;10(1):4123. doi: 10.1038/s41467-019-12003-0.

PMID: 31511511

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**Reduction of Rpd3 suppresses defects in locomotive ability and neuronal morphology induced by the knockdown of *Drosophila* SLC25A46 via an epigenetic pathway.**

Suda K, Muraoka Y, Ortega-Yáñez A, Yoshida H, Kizu F, Hochin T, Kimura H, Yamaguchi M.

Exp Cell Res. 2019 Dec 15;385(2):111673. doi: 10.1016/j.yexcr.2019.111673. Epub 2019 Oct 12.

PMID: 31614134

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**Neural stem cell temporal patterning and brain tumour growth rely on oxidative phosphorylation.**

van den Aamele J, Brand AH.

Elife. 2019 Sep 12;8. pii: e47887. doi: 10.7554/eLife.47887.

PMID: 31513013

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**Novel genetic link between the ATP-binding cassette subfamily A gene and hippo gene in *Drosophila*.**

Ueoka I, Takai A, Yamaguchi M, Chiyonobu T, Yoshida H, Yamaguchi M.

Exp Cell Res. 2020 Jan 15;386(2):111733. doi: 10.1016/j.yexcr.2019.111733. Epub 2019 Nov 18.

PMID: 31751555

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**Pyridox (am) ine 5'-phosphate oxidase deficiency induces seizures in *Drosophila melanogaster*.**

Chi W, Iyengar ASR, Albersen M, Bosma M, Verhoeven-Duif NM, Wu CF, Zhuang X.

Hum Mol Genet. 2019 Sep 15;28(18):3126-3136. doi: 10.1093/hmg/ddz143.

PMID: 31261385

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**Rapid Evolution of Gained Essential Developmental Functions of a Young Gene via Interactions with Other Essential Genes.**

Lee YCG, Ventura IM, Rice GR, Chen DY, Colmenares SU, Long M.

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PMID: 31187122



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**Coopted temporal patterning governs cellular hierarchy, heterogeneity and metabolism in *Drosophila* neuroblast tumors.**

Genovese S, Clément R, Gaultier C, Besse F, Narbonne-Reveau K, Daian F, Foppolo S, Luis NM, Maurange C.

Elife. 2019 Sep 30;8. pii: e50375. doi: 10.7554/eLife.50375.

PMID: 31566561

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***Drosophila* Zic family member odd-paired is needed for adult post-ecdysis maturation.**

Simon E, de la Puebla SF, Guerrero I.

Open Biol. 2019 Dec;9(12):190245. doi: 10.1098/rsob.190245. Epub 2019 Dec 18.

PMID: 31847787

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**Modulators of hormonal response regulate temporal fate specification in the *Drosophila* brain.**

Marchetti G, Tavosanis G.

PLoS Genet. 2019 Dec 6;15(12):e1008491. doi: 10.1371/journal.pgen.1008491. eCollection 2019 Dec.

PMID: 31809495

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**Regulation of Tumor Initiation by the Mitochondrial Pyruvate Carrier.**

Bensard CL, Wisidagama DR, Olson KA, Berg JA, Krah NM, Schell JC, Nowinski SM, Fogarty S, Bott AJ, Wei P, Dove KK, Tanner JM, Panic V, Cluntun A, Lettlova S, Earl CS, Namnath DF, Vázquez-Arreguín K, Villanueva CJ, Tantin D, Murtaugh LC, Evason KJ, Ducker GS, Thummel CS, Rutter J.

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**Heparan sulfate negatively regulates intestinal stem cell proliferation in *Drosophila* adult midgut.**

Ma H, Zhao H, Liu F, Zhao H, Kong R, Shi L, Wei M, Li Z.

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PMID: 31628141

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**Mamo decodes hierarchical temporal gradients into terminal neuronal fate.**

Liu LY, Long X, Yang CP, Miyares RL, Sugino K, Singer RH, Lee T.

Elife. 2019 Sep 23;8. pii: e48056. doi: 10.7554/eLife.48056.

PMID: 31545163

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**Endocrine regulation of MFS2 by branchless controls phosphate excretion and stone formation in *Drosophila* renal tubules.**

Rose E, Lee D, Xiao E, Zhao W, Wee M, Cohen J, Bergwitz C.

Sci Rep. 2019 Jun 19;9(1):8798. doi: 10.1038/s41598-019-45269-x.

PMID: 31217461

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***Drosophila melanogaster* as a powerful tool for studying insect toxicology.**

Scott JG, Buchon N.

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PMID: 31685202

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**A sperm peptide enhances long-term memory in female *Drosophila*.**

Scheunemann L, Lampin-Saint-Amaux A, Schor J, Preat T.

Sci Adv. 2019 Nov 20;5(11):eaax3432. doi: 10.1126/sciadv.aax3432. eCollection 2019 Nov.

PMID: 31799390

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**The Hippo pathway integrates PI3K-Akt signals with mechanical and polarity cues to control tissue growth.**

Borreguero-Muñoz N, Fletcher GC, Aguilar-Aragon M, Elbediwy A, Vincent-Mistiaen ZI, Thompson BJ.

PLoS Biol. 2019 Oct 15;17(10):e3000509. doi: 10.1371/journal.pbio.3000509. eCollection 2019 Oct.

PMID: 31613895

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**Crumbs organizes the transport machinery by regulating apical levels of PI(4,5)P2 in *Drosophila*.**

Lattner J, Leng W, Knust E, Brankatschk M, Flores-Benitez D.

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PMID: 31697234

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**Hipk is required for JAK/STAT activity during development and tumorigenesis.**

Tettweiler G, Blaquièrre JA, Wray NB, Verheyen EM.

PLoS One. 2019 Dec 31;14(12):e0226856. doi: 10.1371/journal.pone.0226856. eCollection 2019.

PMID: 31891940

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**Recurrent Circuitry Sustains *Drosophila* Courtship Drive While Priming Itself for Satiety.**

Zhang SX, Rogulja D, Crickmore MA.

Curr Biol. 2019 Oct 7;29(19):3216-3228.e9. doi: 10.1016/j.cub.2019.08.015. Epub 2019 Aug 29.

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**Drosophila CIC-a is required in glia of the stem cell niche for proper neurogenesis and wiring of neural circuits.**

Plazaola-Sasieta H, Zhu Q, Gaitán-Peñas H, Rios M, Estévez R, Morey M.  
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PMID: 31479171

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**Myofibril diameter is set by a finely tuned mechanism of protein oligomerization in Drosophila.**

González-Morales N, Xiao YS, Schilling MA, Marescal O, Liao KA, Schöck F.  
Elife. 2019 Nov 20;8. pii: e50496. doi: 10.7554/eLife.50496.  
PMID: 31746737

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**Muscarinic acetylcholine receptor signaling generates OFF selectivity in a simple visual circuit.**

Qin B, Humberg TH, Kim A, Kim HS, Short J, Diao F, White BH, Sprecher SG, Yuan Q.  
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PMID: 31501438

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**Usp10 Modulates the Hippo Pathway by Deubiquitinating and Stabilizing the Transcriptional Coactivator Yorkie.**

Gao Y, Zhang X, Xiao L, Zhai C, Yi T, Wang G, Wang E, Ji X, Hu L, Shen G, Wu S.  
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PMID: 31795326

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**Neuroprotective Effects of Methanolic Extract of Avocado Persea americana (var. Colinred) Peel on Paraquat-Induced Locomotor Impairment, Lipid Peroxidation and Shortage of Life Span in Transgenic knockdown Parkin Drosophila melanogaster.**

Ortega-Arellano HF, Jimenez-Del-Rio M, Velez-Pardo C.  
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PMID: 31309393

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**SUR-8 interacts with PP1-87B to stabilize PERIOD and regulate circadian rhythms in Drosophila.**

Xue Y, Chiu JC, Zhang Y.  
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PMID: 31710605

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**Drosophila macrophages switch to aerobic glycolysis to mount effective antibacterial defense.**

Krejčová G, Danielová A, Nedbalová P, Kazek M, Strych L, Chawla G, Tennessen JM, Lieskovská J, Jindra M, Doležal T, Bajgar A.

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PMID: 31609200

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**IRE1 promotes neurodegeneration through autophagy-dependent neuron death in the Drosophila model of Parkinson's disease.**

Yan C, Liu J, Gao J, Sun Y, Zhang L, Song H, Xue L, Zhan L, Gao G, Ke Z, Liu Y, Liu J.

Cell Death Dis. 2019 Oct 22;10(11):800. doi: 10.1038/s41419-019-2039-6.

PMID: 31641108

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**Notch and EGFR regulate apoptosis in progenitor cells to ensure gut homeostasis in Drosophila.**

Reiff T, Antonello ZA, Ballesta-Illán E, Mira L, Sala S, Navarro M, Martinez LM, Dominguez M.

EMBO J. 2019 Oct 4;38(21):e101346. doi: 10.15252/embj.2018101346. Epub 2019 Sep 30.

PMID: 31566767

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**Drosophila Doublefault protein coordinates multiple events during male meiosis by controlling mRNA translation.**

Sechi S, Frappaolo A, Karimpour-Ghahnavieh A, Gottardo M, Burla R, Di Francesco L, Szafer-Glusman E, Schininà E, Fuller MT, Saggio I, Riparbelli MG, Callaini G, Giansanti MG.

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PMID: 31645358

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**North Sea Progressive Myoclonus Epilepsy is Exacerbated by Heat, A Phenotype Primarily Associated with Affected Glia.**

Lambrechts RA, Polet SS, Hernandez-Pichardo A, van Ninhuys L, Gorter JA, Grzeschik NA, de Koning-Tijssen MAJ, de Koning TJ, Sibon OCM.

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**Rapid single-wavelength lightsheet localization microscopy for clarified tissue.**

Chu LA, Lu CH, Yang SM, Liu YT, Feng KL, Tsai YC, Chang WK, Wang WC, Chang SW, Chen P, Lee TK, Hwu YK, Chiang AS, Chen BC.

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PMID: 31628310

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**A neural mechanism for deprivation state-specific expression of relevant memories in *Drosophila*.**

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PMID: 31659341

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**Endoplasmic reticulum stress-induced cellular dysfunction and cell death in insulin-producing cells results in diabetes-like phenotypes in *Drosophila*.**

Katsube H, Hinami Y, Yamazoe T, Inoue YH.

Biol Open. 2019 Dec 20;8(12). pii: bio046524. doi: 10.1242/bio.046524.

PMID: 31822470

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**Overexpression of isoform B of *Dgp-1* gene enhances locomotor activity in senescent *Drosophila* males and under heat stress.**

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

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PMID: 31686134

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**MISTERMINATE Mechanistically Links Mitochondrial Dysfunction with Proteostasis Failure.**

Wu Z, Tantray I, Lim J, Chen S, Li Y, Davis Z, Sitron C, Dong J, Gispert S, Auburger G, Brandman O, Bi X, Snyder M, Lu B.

Mol Cell. 2019 Aug 22;75(4):835-848.e8. doi: 10.1016/j.molcel.2019.06.031. Epub 2019 Aug 1.

PMID: 31378462

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**Role of  $\alpha$ -Catenin and its mechanosensing properties in regulating Hippo/YAP-dependent tissue growth.**

Sarpal R, Yan V, Kazakova L, Sheppard L, Yu JC, Fernandez-Gonzalez R, Tepass U.

PLoS Genet. 2019 Nov 7;15(11):e1008454. doi: 10.1371/journal.pgen.1008454. eCollection 2019 Nov.

PMID: 31697683

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**A glucose-sensing neuron pair regulates insulin and glucagon in *Drosophila*.**

Oh Y, Lai JS, Mills HJ, Erdjument-Bromage H, Giammarinaro B, Saadipour K, Wang JG, Abu F, Neubert TA, Suh GSB.

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PMID: 31645735

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**Interactions between Dpr11 and DIP- $\gamma$  control selection of amacrine neurons in *Drosophila* color vision circuits.**

Menon KP, Kulkarni V, Takemura SY, Anaya M, Zinn K.  
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PMID: 31692445

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**Pleiotropic role of *Drosophila* phosphoribosyl pyrophosphate synthetase in autophagy and lysosome homeostasis.**

Delos Santos K, Kim M, Yergeau C, Jean S, Moon NS.  
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PMID: 31487280

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**Casein kinase 1 family proteins promote Slimb-dependent Expanded degradation.**

Fulford AD, Holder MV, Frith D, Snijders AP, Tapon N, Ribeiro PS.  
Elife. 2019 Sep 30;8. pii: e46592. doi: 10.7554/eLife.46592.  
PMID: 31567070

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**Social Context Enhances Hormonal Modulation of Pheromone Detection in *Drosophila*.**

Sethi S, Lin HH, Shepherd AK, Volkan PC, Su CY, Wang JW.  
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**Polo regulates Spindly to prevent premature stabilization of kinetochore-microtubule attachments.**

Barbosa J, Martins T, Bange T, Tao L, Conde C, Sunkel C.  
EMBO J. 2020 Jan 15;39(2):e100789. doi: 10.15252/embj.2018100789. Epub 2019 Dec 18.  
PMID: 31849090

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**Genetic and genomic studies of pathogenic EXOSC2 mutations in the newly described disease SHRF implicate the autophagy pathway in disease pathogenesis.**

Yang X, Bayat V, DiDonato N, Zhao Y, Zarnegar B, Siprashvili Z, Lopez-Pajares V, Sun T, Tao S, Li C, Rump A, Khavari P, Lu B.  
Hum Mol Genet. 2019 Oct 19. pii: ddz251. doi: 10.1093/hmg/ddz251. [Epub ahead of print]  
PMID: 31628467

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**Sex-dependent and sex-independent regulatory systems of size variation in natural populations.**

Okada H, Yagi R, Gardeux V, Deplancke B, Hafen E.

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PMID: 31777173

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**Snail modulates JNK-mediated cell death in Drosophila.**

Wu C, Li Z, Ding X, Guo X, Sun Y, Wang X, Hu Y, Li T, La X, Li J, Li JA, Li W, Xue L.

Cell Death Dis. 2019 Nov 26;10(12):893. doi: 10.1038/s41419-019-2135-7.

PMID: 31772150

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**The cytoskeletal motor proteins Dynein and MyoV direct apical transport of Crumbs.**

Aguilar-Aragon M, Fletcher G, Thompson BJ.

Dev Biol. 2019 Dec 24. pii: S0012-1606(19)30419-1. doi: 10.1016/j.ydbio.2019.12.009. [Epub ahead of print]

PMID: 31881198

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**Drosophila melanogaster as a model for nutrient regulation of ovarian function.**

Armstrong AR.

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Review.

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**Semaphorin 2b Regulates Sleep-Circuit Formation in the Drosophila Central Brain.**

Xie X, Tabuchi M, Corver A, Duan G, Wu MN, Kolodkin AL.

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**Efa6 protects axons and regulates their growth and branching by inhibiting microtubule polymerisation at the cortex.**

Qu Y, Hahn I, Lees M, Parkin J, Voelzmann A, Dorey K, Rathbone A, Friel CT, Allan VJ, Okenve-Ramos P, Sanchez-Soriano N, Prokop A.

Elife. 2019 Nov 13;8. pii: e50319. doi: 10.7554/eLife.50319.

PMID: 31718774

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**The ArfGAP Drongo Promotes Actomyosin Contractility during Collective Cell Migration by Releasing Myosin Phosphatase from the Trailing Edge.**

Zeledon C, Sun X, Plutoni C, Emery G.

Cell Rep. 2019 Sep 17;28(12):3238-3248.e3. doi: 10.1016/j.celrep.2019.08.044.

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**Spz/Toll-6 signal guides organotropic metastasis in *Drosophila*.**

Mishra-Gorur K, Li D, Ma X, Yarman Y, Xue L, Xu T.

Dis Model Mech. 2019 Oct 7;12(10). pii: dmm039727. doi: 10.1242/dmm.039727.

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**Phosphatidylserine synthase regulates cellular homeostasis through distinct metabolic mechanisms.**

Yang X, Liang J, Ding L, Li X, Lam SM, Shui G, Ding M, Huang X.

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**Insulin signalling elicits hunger-induced feeding in *Drosophila*.**

Sudhakar SR, Pathak H, Rehman N, Fernandes J, Vishnu S, Varghese J.

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**Exocyst-mediated apical Wg secretion activates signaling in the *Drosophila* wing epithelium.**

Chaudhary V, Boutros M.

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**Transcription elongation factor AFF2/FMR2 regulates expression of expanded GGGGCC repeat-containing C9ORF72 allele in ALS/FTD.**

Yuva-Aydemir Y, Almeida S, Krishnan G, Gendron TF, Gao FB.

Nat Commun. 2019 Nov 29;10(1):5466. doi: 10.1038/s41467-019-13477-8.

PMID: 31784536

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**The organization of Golgi in *Drosophila* bristles requires microtubule motor protein function and a properly organized microtubule array.**

Melkov A, Baskar R, Shachal R, Alcalay Y, Abdu U.

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PMID: 31577833



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**Bi-allelic Variants in IQSEC1 Cause Intellectual Disability, Developmental Delay, and Short Stature.**

Ansar M, Chung HL, Al-Otaibi A, Elagabani MN, Ravenscroft TA, Paracha SA, Scholz R, Abdel Magid T, Sarwar MT, Shah SF, Qaisar AA, Makrythanasis P, Marcogliese PC, Kamsteeg EJ, Falconnet E, Ranza E, Santoni FA, Aldhalaan H, Al-Asmari A, Faqeih EA, Ahmed J, Kornau HC, Bellen HJ, Antonarakis SE. *Am J Hum Genet.* 2019 Nov 7;105(5):907-920. doi: 10.1016/j.ajhg.2019.09.013. Epub 2019 Oct 10. PMID: 31607425

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Gerondopoulos A, Strutt H, Stevenson NL, Sobajima T, Levine TP, Stephens DJ, Strutt D, Barr FA. *Curr Biol.* 2019 Oct 7;29(19):3323-3330.e8. doi: 10.1016/j.cub.2019.07.090. Epub 2019 Sep 26. PMID: 31564489

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**Molecular profiling of stem cell-like female germ line cells in *Drosophila* delineates networks important for stemness and differentiation.**

Tiwari MD, Zeitler DM, Meister G, Wodarz A. *Biol Open.* 2019 Nov 12;8(11). pii: bio046789. doi: 10.1242/bio.046789. PMID: 31649115

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**A Catalog of GAL4 Drivers for Labeling and Manipulating Circadian Clock Neurons in *Drosophila melanogaster*.**

Sekiguchi M, Inoue K, Yang T, Luo DG, Yoshii T. *J Biol Rhythms.* 2020 Apr;35(2):207-213. doi: 10.1177/0748730419895154. Epub 2019 Dec 19. PMID: 31856635

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**A novel regulator of ER Ca<sup>2+</sup> drives Hippo-mediated tumorigenesis.**

Ma X, Lu JY, Moraru A, Teleman AA, Fang J, Qiu Y, Liu P, Xu T. *Oncogene.* 2020 Feb;39(6):1378-1387. doi: 10.1038/s41388-019-1076-z. Epub 2019 Oct 24. PMID: 31649333

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**Cardiac Snail family of transcription factors directs systemic lipid metabolism in *Drosophila*.**

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**Recruitment of Adult Precursor Cells Underlies Limited Repair of the Infected Larval Midgut in *Drosophila*.**

Houtz P, Bonfini A, Bing X, Buchon N.

Cell Host Microbe. 2019 Sep 11;26(3):412-425.e5. doi: 10.1016/j.chom.2019.08.006. Epub 2019 Sep 3.  
PMID: 31492656

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**Using *Drosophila* Models and Tools to Understand the Mechanisms of Novel Human Cancer Driver Gene Function.**

Villegas SN, Ferrer-Marco D, Domínguez M.

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PMID: 31520347

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**Adult *Drosophila* Lack Hematopoiesis but Rely on a Blood Cell Reservoir at the Respiratory Epithelia to Relay Infection Signals to Surrounding Tissues.**

Sanchez Bosch P, Makhijani K, Herboso L, Gold KS, Baginsky R, Woodcock KJ, Alexander B, Kukar K, Corcoran S, Jacobs T, Ouyang D, Wong C, Ramond EJV, Rhiner C, Moreno E, Lemaitre B, Geissmann F, Brückner K.

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PMID: 31735669

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***Drosophila* p53 integrates the antagonism between autophagy and apoptosis in response to stress.**

Robin M, Issa AR, Santos CC, Napoletano F, Petitgas C, Chatelain G, Ruby M, Walter L, Birman S, Domingos PM, Calvi BR, Mollereau B.

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**Sphingolipid-dependent Dscam sorting regulates axon segregation.**

Goyal G, Zheng J, Adam E, Steffes G, Jain M, Klavins K, Hummel T.

Nat Commun. 2019 Feb 18;10(1):813. doi: 10.1038/s41467-019-08765-2.

PMID: 30778062

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**Conserved regulation of neurodevelopmental processes and behavior by FoxP in *Drosophila*.**

Castells-Nobau A, Eidhof I, Fenckova M, Brenman-Suttner DB, Scheffer-de Gooyert JM, Christine S, Schellevis RL, van der Laan K, Quentin C, van Nihuijs L, Hofmann F, Ejsmont R, Fisher SE, Kramer JM, Sigrist SJ, Simon AF, Schenck A.

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**Epithelial Viscoelasticity Is Regulated by Mechanosensitive E-cadherin Turnover.**

Iyer KV, Piscitello-Gómez R, Paijmans J, Jülicher F, Eaton S.

Curr Biol. 2019 Feb 18;29(4):578-591.e5. doi: 10.1016/j.cub.2019.01.021. Epub 2019 Feb 7.

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