

VDRC publications 2022 (total 449)

A conserved interplay between FOXO and SNAI/snail in autophagy.

Guo X, Ma X, Xue L.

Autophagy. 2022 Nov;18(11):2759-2760. doi: 10.1080/15548627.2022.2063559. Epub 2022 Apr 15. PMID: 35422194

A Drosophila model of the neurological symptoms in Mpv17-related diseases.

Kodani A, Yamaguchi M, Itoh R, Huynh MA, Yoshida H.

Sci Rep. 2022 Dec 31;12(1):22632. doi: 10.1038/s41598-022-27329-x. PMID: 36587049

A Drosophila toolkit for HA-tagged proteins unveils a block in autophagy flux in the last instar larval fat body.

Murakawa T, Nakamura T, Kawaguchi K, Murayama F, Zhao N, Stasevich TJ, Kimura H, Fujita N.

Development. 2022 Mar 15;149(6):dev200243. doi: 10.1242/dev.200243. Epub 2022 Mar 23. PMID: 35319746

A fly GWAS for purine metabolites identifies human FAM214 homolog medusa, which acts in a conserved manner to enhance hyperuricemia-driven pathologies by modulating purine metabolism and the inflammatory response.

Hilsabeck TAU, Liu-Bryan R, Guo T, Wilson KA, Bose N, Raftery D, Beck JN, Lang S, Jin K, Nelson CS, Oron T, Stoller M, Promislow D, Brem RB, Terkeltaub R, Kapahi P.

Geroscience. 2022 Aug;44(4):2195-2211. doi: 10.1007/s11357-022-00557-9. Epub 2022 Apr 6. PMID: 35381951

A functional study of the role of Turandot genes in Drosophila melanogaster: An emerging candidate mechanism for inducible heat tolerance.

Amstrup AB, Bæk I, Loeschcke V, Givskov Sørensen J.

J Insect Physiol. 2022 Nov-Dec;143:104456. doi: 10.1016/j.jinsphys.2022.104456. Epub 2022 Nov 14. PMID: 36396076

A genome-wide CRISPR screen identifies DPM1 as a modifier of DPAGT1 deficiency and ER stress.

Dalton HM, Viswanatha R, Brathwaite R Jr, Zuno JS, Berman AR, Rushforth R, Mohr SE, Perrimon N, Chow CY.

PLoS Genet. 2022 Sep 27;18(9):e1010430. doi: 10.1371/journal.pgen.1010430. eCollection 2022 Sep. PMID: 36166480

A gut-derived hormone suppresses sugar appetite and regulates food choice in Drosophila.

Malita A, Kubrak O, Koyama T, Ahrentløv N, Texada MJ, Nagy S, Halberg KV, Rewitz K.

Nat Metab. 2022 Nov;4(11):1532-1550. doi: 10.1038/s42255-022-00672-z. Epub 2022 Nov 7. PMID: 36344765

A neural circuit for wind-guided olfactory navigation.

Matheson AMM, Lanz AJ, Medina AM, Licata AM, Currier TA, Syed MH, Nagel KI.

Nat Commun. 2022 Aug 8;13(1):4613. doi: 10.1038/s41467-022-32247-7. PMID: 35941114

A novel post-developmental role of the Hox genes underlies normal adult behavior.

Raouf Issa A, A C Menzies J, Padmanabhan A, Alonso CR.

Proc Natl Acad Sci U S A. 2022 Dec 6;119(49):e2209531119. doi: 10.1073/pnas.2209531119. Epub 2022 Dec 1.

PMID: 36454751

A prominent gene activation role for C-terminal binding protein in mediating PcG/trxG proteins through Hox gene regulation.

Bi CL, Cheng Q, Yan LY, Wu HY, Wang Q, Wang P, Cheng L, Wang R, Yang L, Li J, Tie F, Xie H, Fang M. Development. 2022 Jun 1;149(11):dev200153. doi: 10.1242/dev.200153. Epub 2022 Jun 6.

PMID: 35666088

A Scribble/Cdep/Rac pathway controls follower-cell crawling and cluster cohesion during collective border-cell migration.

Campanale JP, Mondo JA, Montell DJ.

Dev Cell. 2022 Nov 7;57(21):2483-2496.e4. doi: 10.1016/j.devcel.2022.10.004.

PMID: 36347240

A single WNT enhancer drives specification and regeneration of the Drosophila wing.

Gracia-Latorre E, Pérez L, Muzzopappa M, Milán M.

Nat Commun. 2022 Aug 22;13(1):4794. doi: 10.1038/s41467-022-32400-2.

PMID: 35995781

Activation of the ubiquitin-proteasome system contributes to oculopharyngeal muscular dystrophy through muscle atrophy.

Ribot C, Soler C, Chartier A, Al Hayek S, Naït-Saïdi R, Barbezier N, Coux O, Simonelig M.

PLoS Genet. 2022 Jan 13;18(1):e1010015. doi: 10.1371/journal.pgen.1010015. eCollection 2022 Jan.

PMID: 35025870

Alignment between glioblastoma internal clock and environmental cues ameliorates survival in Drosophila.

Jarabo P, Barredo CG, de Pablo C, Casas-Tinto S, Martin FA.

Commun Biol. 2022 Jun 30;5(1):644. doi: 10.1038/s42003-022-03600-9.

PMID: 35773327

An auxin-inducible, GAL4-compatible, gene expression system for Drosophila.

McClure CD, Hassan A, Aughey GN, Butt K, Estacio-Gómez A, Duggal A, Ying Sia C, Barber AF, Southall TD.

Elife. 2022 Apr 1;11:e67598. doi: 10.7554/eLife.67598.

PMID: 35363137

An endosome-associated actin network involved in directed apical plasma membrane growth.

Ríos-Barrera LD, Leptin M.

J Cell Biol. 2022 Mar 7;221(3):e202106124. doi: 10.1083/jcb.202106124. Epub 2022 Jan 21.

PMID: 35061016

An extra-clock ultradian brain oscillator sustains circadian timekeeping.

Tang M, Cao LH, Yang T, Ma SX, Jing BY, Xiao N, Xu S, Leng KR, Yang D, Li MT, Luo DG. Sci Adv. 2022 Sep 2;8(35):eabo5506. doi: 10.1126/sciadv.abo5506. Epub 2022 Sep 2. PMID: 36054358

Analyzing cachectic phenotypes in the muscle and fat body of *Drosophila* larvae.

Dark C, Cheung S, Cheng LY.S

TAR Protoc. 2022 Mar 9;3(1):101230. doi: 10.1016/j.xpro.2022.101230. eCollection 2022 Mar 18. PMID: 35284841

Anastasis Drives Senescence and Non-Cell Autonomous Neurodegeneration in the Astroglipathy Alexander Disease.

Wang L, Bukhari H, Kong L, Hagemann TL, Zhang SC, Messing A, Feany MB.

J Neurosci. 2022 Mar 23;42(12):2584-2597. doi: 10.1523/JNEUROSCI.1659-21.2021. Epub 2022 Feb 1.

PMID: 35105675

aPKC regulates apical constriction to prevent tissue rupture in the *Drosophila* follicular epithelium.

Osswald M, Barros-Carvalho A, Carmo AM, Loyer N, Gracio PC, Sunkel CE, Homem CCF, Januschke J, Morais-de-Sá E.

Curr Biol. 2022 Oct 24;32(20):4411-4427.e8. doi: 10.1016/j.cub.2022.08.063. Epub 2022 Sep 15.

PMID: 36113470

Astrocytic GABA transporter controls sleep by modulating GABAergic signaling in *Drosophila* circadian neurons.

Chaturvedi R, Stork T, Yuan C, Freeman MR, Emery P.

Curr Biol. 2022 May 9;32(9):1895-1908.e5. doi: 10.1016/j.cub.2022.02.066. Epub 2022 Mar 17.

PMID: 35303417

Snail regulates Hippo signalling-mediated cell proliferation and tissue growth in *Drosophila*.

Ding X, Li Z, Peng K, Zou R, Wu C, Lin G, Li W, Xue L.

Open Biol. 2022 Mar;12(3):210357. doi: 10.1098/rsob.210357. Epub 2022 Mar 9.

PMID: 35259952

A Notch-dependent transcriptional mechanism controls expression of temporal patterning factors in *Drosophila* medulla.

Ray A, Li X.

Elife. 2022 Aug 30;11:e75879. doi: 10.7554/eLife.75879.

PMID: 36040415

A phosphoswitch at acinus-serine⁴³⁷ controls autophagic responses to cadmium exposure and neurodegenerative stress.

Nandi N, Zaidi Z, Tracy C, Krämer H.

Elife. 2022 Jan 17;11:e72169. doi: 10.7554/eLife.72169.

PMID: 35037620

Bip-Yorkie interaction determines oncogenic and tumor-suppressive roles of Ire1/Xbp1s activation.

Yang S, Jiang H, Bian W, Xu W, Guo Y, Song S, Zheng J, Kuang X, Wu C, Ding X, Guo X, Xue L, Yu Z, Zhang Y, Ryoo HD, Li X, Ma X.
Proc Natl Acad Sci U S A. 2022 Oct 18;119(42):e2202133119. doi: 10.1073/pnas.2202133119. Epub 2022 Oct 10.
PMID: 36215479

Border cell polarity and collective migration require the spliceosome component Cactin.

Miao G, Guo L, Montell DJ.
J Cell Biol. 2022 Jul 4;221(7):e202202146. doi: 10.1083/jcb.202202146. Epub 2022 May 25.
PMID: 35612426

Chicken skin-derived collagen peptides chelated zinc promotes zinc absorption and represses tumor growth and invasion *in vivo* by suppressing autophagy.

Liu T, Zou L, Ji X, Xiao G.
Front Nutr. 2022 Aug 3;9:960926. doi: 10.3389/fnut.2022.960926. eCollection 2022.
PMID: 35990359

Chloride oscillation in pacemaker neurons regulates circadian rhythms through a chloride-sensing WNK kinase signaling cascade.

Schellinger JN, Sun Q, Pleinis JM, An SW, Hu J, Mercenne G, Titos I, Huang CL, Rothenfluh A, Rodan AR.
Curr Biol. 2022 Mar 28;32(6):1429-1438.e6. doi: 10.1016/j.cub.2022.03.017. Epub 2022 Mar 17.
PMID: 35303418

Circadian Gene *cry* Controls Tumorigenesis through Modulation of Myc Accumulation in Glioblastoma Cells.

Jarabo P, de Pablo C, González-Blanco A, Casas-Tintó S.
Int J Mol Sci. 2022 Feb 12;23(4):2043. doi: 10.3390/ijms23042043.
PMID: 35216153

Circadian photoreceptors are required for light-dependent maintenance of long-term memory in *Drosophila*.

Inami S, Sakai T.
Neurosci Res. 2022 Dec;185:62-66. doi: 10.1016/j.neures.2022.09.003. Epub 2022 Sep 9.
PMID: 36096270

Circadian programming of the ellipsoid body sleep homeostat in *Drosophila*.

Andreani T, Rosensweig C, Sisobhan S, Ogunlana E, Kath W, Allada R.
Elife. 2022 Jun 23;11:e74327. doi: 10.7554/eLife.74327.
PMID: 35735904

Comparative Ubiquitome Analysis Reveals Deubiquitinating Effects Induced by *Wolbachia* Infection in *Drosophila melanogaster*.

Zong Q, Mao B, Zhang HB, Wang B, Yu WJ, Wang ZW, Wang YF.
Int J Mol Sci. 2022 Aug 21;23(16):9459. doi: 10.3390/ijms23169459.
PMID: 36012723

Comparison of genome architecture at two stages of male germline cell differentiation in *Drosophila*.

Ilyin AA, Kononkova AD, Golova AV, Shloma VV, Olenkina OM, Nenasheva VV, Abramov YA, Kotov AA, Maksimov DA, Laktionov PP, Pindyurin AV, Galitsyna AA, Ulianov SV, Khrameeva EE, Gelfand MS, Belyakin SN, Razin SV, Shevelyov YY.

Nucleic Acids Res. 2022 Apr 8;50(6):3203-3225. doi: 10.1093/nar/gkac109.

PMID: 35166842

CREBB repression of protein synthesis in mushroom body gates long-term memory formation in *Drosophila*.

Lin HW, Chen CC, Jhang RY, Chen L, de Belle JS, Tully T, Chiang AS.

Proc Natl Acad Sci U S A. 2022 Dec 13;119(50):e2211308119. doi: 10.1073/pnas.2211308119. Epub 2022 Dec 5.

PMID: 36469774

Crucial Roles of Ubiquitin Carboxy-Terminal Hydrolase L1 in Motor Neuronal Health by *Drosophila* Model.

Huynh TKT, Mai TTT, Huynh MA, Yoshida H, Yamaguchi M, Dang TTP.

Antioxid Redox Signal. 2022 Aug;37(4-6):257-273. doi: 10.1089/ars.2021.0057. Epub 2022 Jun 9.

PMID: 35343238

Cytonemes coordinate asymmetric signaling and organization in the *Drosophila* muscle progenitor niche.

Patel A, Wu Y, Han X, Su Y, Mangel T, Shroff H, Roy S.

Nat Commun. 2022 Mar 4;13(1):1185. doi: 10.1038/s41467-022-28587-z.

PMID: 35246530

Decoding gene regulation in the fly brain.

Janssens J, Aibar S, Taskiran II, Ismail JN, Gomez AE, Aughey G, Spanier KI, De Rop FV, González-Blas CB, Dionne M, Grimes K, Quan XJ, Papisokrati D, Hulselmans G, Makhzami S, De Waegeneer M, Christiaens V, Southall T, Aerts S.

Nature. 2022 Jan;601(7894):630-636. doi: 10.1038/s41586-021-04262-z. Epub 2022 Jan 5.

PMID: 34987221

Delta/Notch signaling in glia maintains motor nerve barrier function and synaptic transmission by controlling matrix metalloproteinase expression.

Calderon MR, Mori M, Kauwe G, Farnsworth J, Ulian-Benitez S, Maksoud E, Shore J, Haghighi AP.

Proc Natl Acad Sci U S A. 2022 Aug 23;119(34):e2110097119. doi: 10.1073/pnas.2110097119. Epub 2022 Aug 15.

PMID: 35969789

Descending neurons coordinate anterior grooming behavior in *Drosophila*.

Guo L, Zhang N, Simpson JH.

Curr Biol. 2022 Feb 28;32(4):823-833.e4. doi: 10.1016/j.cub.2021.12.055. Epub 2022 Feb 3.

PMID: 35120659

Developmental program-independent secretory granule degradation in larval salivary gland cells of *Drosophila*.

Csizmadia T, Dósa A, Farkas E, Csikos BV, Kriska EA, Juhász G, Lőw P.
Traffic. 2022 Dec;23(12):568-586. doi: 10.1111/tra.12871.
PMID: 36353974

DGAT1 activity synchronises with mitophagy to protect cells from metabolic rewiring by iron depletion.

Long M, Sanchez-Martinez A, Longo M, Suomi F, Stenlund H, Johansson AI, Ehsan H, Salo VT, Montava-Garriga L, Naddafi S, Ikonen E, Ganley IG, Whitworth AJ, McWilliams TG.
EMBO J. 2022 May 16;41(10):e109390. doi: 10.15252/embj.2021109390. Epub 2022 Apr 12.
PMID: 35411952

Dietary restriction and the transcription factor clock delay eye aging to extend lifespan in *Drosophila Melanogaster*.

Hodge BA, Meyerhof GT, Katewa SD, Lian T, Lau C, Bar S, Leung NY, Li M, Li-Kroeger D, Melov S, Schilling B, Montell C, Kapahi P.
Nat Commun. 2022 Jun 7;13(1):3156. doi: 10.1038/s41467-022-30975-4.
PMID: 35672419

Differential gene expression analysis identified determinants of cell fate plasticity during radiation-induced regeneration in *Drosophila*.

Ledru M, Clark CA, Brown J, Verghese S, Ferrara S, Goodspeed A, Su TT.
PLoS Genet. 2022 Jan 6;18(1):e1009989. doi: 10.1371/journal.pgen.1009989. eCollection 2022 Jan.
PMID: 34990447

Discoidin domain receptor regulates ensheathment, survival and caliber of peripheral axons.

Corty MM, Hulegaard AL, Hill JQ, Sheehan AE, Aicher SA, Freeman MR.
Development. 2022 Dec 1;149(23):dev200636. doi: 10.1242/dev.200636. Epub 2022 Dec 13.
PMID: 36355066

Disruption of Survival Motor Neuron in Glia Impacts Survival but has no Effect on Neuromuscular Function in *Drosophila*.

Farrugia M, Vassallo N, Cauchi RJ.
Neuroscience. 2022 May 21;491:32-42. doi: 10.1016/j.neuroscience.2022.03.013. Epub 2022 Mar 21.
PMID: 35314252

Distinct developmental and degenerative functions of SARM1 require NAD⁺ hydrolase activity.

Brace EJ, Essuman K, Mao X, Palucki J, Sasaki Y, Milbrandt J, DiAntonio A.
PLoS Genet. 2022 Jun 23;18(6):e1010246. doi: 10.1371/journal.pgen.1010246. eCollection 2022 Jun.
PMID: 35737728

Dlg Is Required for Short-Term Memory and Interacts with NMDAR in the *Drosophila* Brain.

Bertin F, Moya-Alvarado G, Quiroz-Manríquez E, Ibacache A, Köhler-Solis A, Oliva C, Sierralta J.
Int J Mol Sci. 2022 Aug 16;23(16):9187. doi: 10.3390/ijms23169187.
PMID: 36012453

Dorsal clock networks drive temperature preference rhythms in *Drosophila*.

Chen SC, Tang X, Goda T, Umezaki Y, Riley AC, Sekiguchi M, Yoshii T, Hamada FN.

Cell Rep. 2022 Apr 12;39(2):110668. doi: 10.1016/j.celrep.2022.110668.
PMID: 35417715

Downregulating Mitochondrial DNA Polymerase γ in the Muscle Stimulated Autophagy, Apoptosis, and Muscle Aging-Related Phenotypes in *Drosophila* Adults.

Ozaki M, Le TD, Inoue YH.
Biomolecules. 2022 Aug 11;12(8):1105. doi: 10.3390/biom12081105.
PMID: 36008999

***Drosophila* CLASP regulates microtubule orientation and dendrite pruning by suppressing Par-1 kinase.**

Bu S, Tang Q, Wang Y, Lau SSY, Yong WL, Yu F.
Cell Rep. 2022 May 31;39(9):110887. doi: 10.1016/j.celrep.2022.110887.
PMID: 35649352

***Drosophila* hemocytes recognize lymph gland tumors of mxc mutants and activate the innate immune pathway in a reactive oxygen species-dependent manner.**

Kinoshita S, Takarada K, Kinoshita Y, Inoue YH.
Biol Open. 2022 Nov 1;11(11):bio059523. doi: 10.1242/bio.059523. Epub 2022 Nov 3.
PMID: 36226812

***Drosophila* ppk19 encodes a proton-gated and mechanosensitive ion channel.**

Jang W, Lim JY, Kang S, Kim M, Hwang SW, Kim C.
Sci Rep. 2022 Nov 1;12(1):18346. doi: 10.1038/s41598-022-23236-3.
PMID: 36319833

***Drosophila* septin interacting protein 1 regulates neurogenesis in the early developing larval brain.**

Wei JY, Chu SY, Huang YC, Chung PC, Yu HH.
Sci Rep. 2022 Jan 7;12(1):292. doi: 10.1038/s41598-021-04474-3.
PMID: 34997175

***Drosophila* ZIP13 over-expression or transferrin1 RNAi influences the muscle degeneration of Pink1 RNAi by elevating iron levels in mitochondria.**

Xue J, Li G, Ji X, Liu ZH, Wang HL, Xiao G.
J Neurochem. 2022 Mar;160(5):540-555. doi: 10.1111/jnc.15574. Epub 2022 Feb 5.
PMID: 35038358

Dynamics of huntingtin protein interactions in the striatum identifies candidate modifiers of Huntington disease.

Greco TM, Secker C, Ramos ES, Federspiel JD, Liu JP, Perez AM, Al-Ramahi I, Cattle JP, Carroll JB, Botas J, Zeitlin SO, Wanker EE, Cristea IM.
Cell Syst. 2022 Apr 20;13(4):304-320.e5. doi: 10.1016/j.cels.2022.01.005. Epub 2022 Feb 10.
PMID: 35148841

Early A β 42 Exposure Causes Learning Impairment in Later Life.

Cheng KC, Cheung CHA, Chiang HC.
Aging Dis. 2022 Jun 1;13(3):868-883. doi: 10.14336/AD.2021.1015. eCollection 2022 Jun.
PMID: 35656119

Effects of *Drosophila melanogaster* regular exercise and apolipoprotein B knockdown on abnormal heart rhythm induced by a high-fat diet.

Ding M, Li QF, Yin G, Liu JL, Jan XY, Huang T, Li AC, Zheng L.

PLoS One. 2022 Jun 3;17(6):e0262471. doi: 10.1371/journal.pone.0262471. eCollection 2022.

PMID: 35657779

Engrailed, Suppressor of fused and Roadkill modulate the *Drosophila* GLI transcription factor Cubitus interruptus at multiple levels.

Roberto N, Becam I, Plessis A, Holmgren RA.

Development. 2022 Mar 15;149(6):dev200159. doi: 10.1242/dev.200159. Epub 2022 Mar 16.

PMID: 35290435

Nonrandom sister chromatid segregation mediates rDNA copy number maintenance in *Drosophila*.

Watase GJ, Nelson JO, Yamashita YM.

Sci Adv. 2022 Jul 29;8(30):eabo4443. doi: 10.1126/sciadv.abo4443. Epub 2022 Jul 27.

PMID: 35895823

The *Drosophila* spectraplakin Short stop regulates focal adhesion dynamics by cross-linking microtubules and actin.

Zhao AJ, Montes-Laing J, Perry WMG, Shiratori M, Merfeld E, Rogers SL, Applewhite DA.

Mol Biol Cell. 2022 May 1;33(5):ar19. doi: 10.1091/mbc.E21-09-0434. Epub 2022 Mar 2.

PMID: 35235367

Fat body-derived Spz5 remotely facilitates tumor-suppressive cell competition through Toll-6- α -Spectrin axis-mediated Hippo activation.

Kong D, Zhao S, Xu W, Dong J, Ma X.

Cell Rep. 2022 Jun 21;39(12):110980. doi: 10.1016/j.celrep.2022.110980.

PMID: 35732124

Formation and function of a highly specialised type of organelle in cardiac valve cells.

Meyer C, Breitsprecher L, Bataille L, Vincent AJM, Drechsler M, Meyer H, Paululat A.

Development. 2022 Oct 1;149(19):dev200701. doi: 10.1242/dev.200701. Epub 2022 Oct 3.

PMID: 36189830

Fos regulates macrophage infiltration against surrounding tissue resistance by a cortical actin-based mechanism in *Drosophila*.

Belyaeva V, Wachner S, Gyoergy A, Emtenani S, Gridchyn I, Akhmanova M, Linder M, Roblek M, Sibilica M, Siekhaus D.

PLoS Biol. 2022 Jan 6;20(1):e3001494. doi: 10.1371/journal.pbio.3001494. eCollection 2022 Jan.

PMID: 34990456

Gliotransmission of D-serine promotes thirst-directed behaviors in *Drosophila*.

Park A, Croset V, Otto N, Agarwal D, Treiber CD, Meschi E, Sims D, Waddell S.

Curr Biol. 2022 Sep 26;32(18):3952-3970.e8. doi: 10.1016/j.cub.2022.07.038. Epub 2022 Aug 12.

PMID: 35963239

GMAP is an Atg8a-interacting protein that regulates Golgi turnover in *Drosophila*.

Rahman A, Lórinz P, Gohel R, Nagy A, Csordás G, Zhang Y, Juhász G, Nezis IP.
Cell Rep. 2022 May 31;39(9):110903. doi: 10.1016/j.celrep.2022.110903.
PMID: 35649355

Hippo signaling instructs ectopic but not normal organ growth.

Kowalczyk W, Romanelli L, Atkins M, Hillen H, Bravo González-Blas C, Jacobs J, Xie J, Soheily S, Verboven E, Moya IM, Verhulst S, de Waegeneer M, Sansores-Garcia L, van Huffel L, Johnson RL, van Grunsven LA, Aerts S, Halder G.
Science. 2022 Nov 18;378(6621):eabg3679. doi: 10.1126/science.abg3679. Epub 2022 Nov 18.
PMID: 36395225

Histamine avoidance through three gustatory receptors in *Drosophila melanogaster*.

Aryal B, Lee Y.
Insect Biochem Mol Biol. 2022 May;144:103760. doi: 10.1016/j.ibmb.2022.103760. Epub 2022 Mar 25.
PMID: 35346814

HP1a-mediated heterochromatin formation promotes antimicrobial responses against *Pseudomonas aeruginosa* infection.

Wu PJ, Yan SJ.
BMC Biol. 2022 Oct 20;20(1):234. doi: 10.1186/s12915-022-01435-8.
PMID: 36266682

Humidity response in *Drosophila* olfactory sensory neurons requires the mechanosensitive channel TMEM63.

Li S, Li B, Gao L, Wang J, Yan Z.
Nat Commun. 2022 Jul 2;13(1):3814. doi: 10.1038/s41467-022-31253-z.
PMID: 35780140

Identification and characterization of a heme exporter from the MRP family in *Drosophila melanogaster*.

Wang Z, Zeng P, Zhou B.
BMC Biol. 2022 Jun 2;20(1):126. doi: 10.1186/s12915-022-01332-0.
PMID: 35655259

Identification of potential pathways and biomarkers linked to progression in ALS.

Huber RG, Pandey S, Chhangani D, Rincon-Limas DE, Staff NP, Yeo CJJ.
Ann Clin Transl Neurol. 2022 Dec 19. doi: 10.1002/acn3.51697. Online ahead of print.
PMID: 36533811

Imaginal disc growth factors are *Drosophila* Chitinase-like Proteins with roles in morphogenesis and CO₂ response.

Sustar AE, Strand LG, Zimmerman SG, Berg CA.
Genetics. 2022 Dec 28:iyac185. doi: 10.1093/genetics/iyac185. Online ahead of print.
PMID: 36576887

Imp interacts with Lin28 to regulate adult stem cell proliferation in the *Drosophila* intestine.

Sreejith P, Malik S, Kim C, Biteau B. PLoS Genet. 2022 Sep 7;18(9):e1010385. doi: 10.1371/journal.pgen.1010385. eCollection 2022 Sep. PMID: 36070313

Influence of copper treatment on bioaccumulation, survival, behavior, and fecundity in the fruit fly *Drosophila melanogaster*: Toxicity of copper oxide nanoparticles differ from dissolved copper.

Budiyanti DS, Moeller ME, Thit A.

Environ Toxicol Pharmacol. 2022 May;92:103852. doi: 10.1016/j.etap.2022.103852. Epub 2022 Mar 17.

PMID: 35307570

Inhibition of negative feedback for persistent epithelial cell-cell junction contraction by p21-activated kinase 3.

Uechi H, Fukushima K, Shirasawa R, Sekine S, Kuranaga E.

Nat Commun. 2022 Jun 20;13(1):3520. doi: 10.1038/s41467-022-31252-0.

PMID: 35725726

Integration of transcriptome-wide association study with neuronal dysfunction assays provides functional genomics evidence for Parkinson's disease genes.

Li J, Amoh BK, McCormick E, Tarkunde A, Zhu KF, Perez A, Mair M, Moore J, Shulman JM, Al-Ramahi I, Botas J.

Hum Mol Genet. 2022 Sep 29;31(19):3300-3312. doi: 10.1093/hmg/ddac230. Online ahead of print.

PMID: 36173927

Integrin-ECM interactions and membrane-associated Catalase cooperate to promote resilience of the *Drosophila* intestinal epithelium.

Mlih M, Karpac J.

PLoS Biol. 2022 May 6;20(5):e3001635. doi: 10.1371/journal.pbio.3001635. eCollection 2022 May.

PMID: 35522719

Ion transport peptide regulates energy intake, expenditure, and metabolic homeostasis in *Drosophila*.

Gáliková M, Klepsatel P.

Genetics. 2022 Nov 30;222(4):iyac150. doi: 10.1093/genetics/iyac150.

PMID: 36190340

Isha is a su(Hw) mRNA-binding protein required for gypsy insulator function.

Bag I, Chen Y, D'Orazio K, Lopez P, Wenzel S, Takagi Y, Lei EP.

G3 (Bethesda). 2022 Aug 25;12(9):jkac152. doi: 10.1093/g3journal/jkac152.

PMID: 35708663

Lignin-carbohydrate complexes suppress SCA3 neurodegeneration via upregulating proteasomal activities.

Chen ZS, Yan M, Pei W, Yan B, Huang C, Chan HYE.

Int J Biol Macromol. 2022 Oct 1;218:690-705. doi: 10.1016/j.ijbiomac.2022.07.133. Epub 2022 Jul 21.

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