

VDRC publications 2024 (total 387 + 1 patent application)

[An RNAi screen for ribosome biogenesis genes required for *Drosophila* border cell collective migration.](#)

Burghardt E, McDonald JA. MicroPubl Biol. 2024 Aug 10;2024:10.17912/micropub.biology.001292. doi: 10.17912/micropub.biology.001292. eCollection 2024. PMID: 39185014

[Transient loss of Polycomb components induces an epigenetic cancer fate.](#)

Parreno V, Loubiere V, Schuettengruber B, Fritsch L, Rawal CC, Erokhin M, Györfy B, Normanno D, Di Stefano M, Moreaux J, Butova NL, Chiolo I, Chetverina D, Martinez AM, Cavalli G. Nature. 2024 May;629(8012):688-696. doi: 10.1038/s41586-024-07328-w. Epub 2024 Apr 24. PMID: 38658752

[*Drosophila* immune cells transport oxygen through PPO2 protein phase transition.](#)

Shin M, Chang E, Lee D, Kim N, Cho B, Cha N, Koranteng F, Song JJ, Shim J. Nature. 2024 Jul;631(8020):350-359. doi: 10.1038/s41586-024-07583-x. Epub 2024 Jun 26. PMID: 38926577

[The sex of organ geometry.](#)

Blackie L, Gaspar P, Mosleh S, Lushchak O, Kong L, Jin Y, Zielinska AP, Cao B, Mineo A, Silva B, Ameku T, Lim SE, Mao Y, Prieto-Godino L, Schoborg T, Varela M, Mahadevan L, Miguel-Aliaga I. Nature. 2024 Jun;630(8016):392-400. doi: 10.1038/s41586-024-07463-4. Epub 2024 May 29. PMID: 38811741

[Lithocholic acid binds TULP3 to activate sirtuins and AMPK to slow down ageing.](#)

Qu Q, Chen Y, Wang Y, Wang W, Long S, Yang HY, Wu J, Li M, Tian X, Wei X, Liu YH, Xu S, Xiong J, Yang C, Wu Z, Huang X, Xie C, Wu Y, Xu Z, Zhang C, Zhang B, Feng JW, Chen J, Feng Y, Fang H, Lin L, Xie ZK, Sun B, Tian H, Yu Y, Piao HL, Xie XS, Deng X, Zhang CS, Lin SC. Nature. 2024 Dec 18. doi: 10.1038/s41586-024-08348-2. Online ahead of print. PMID: 39695235

[Lithocholic acid phenocopies anti-ageing effects of calorie restriction.](#)

Qu Q, Chen Y, Wang Y, Long S, Wang W, Yang HY, Li M, Tian X, Wei X, Liu YH, Xu S, Zhang C, Zhu M, Lam SM, Wu J, Yun C, Chen J, Xue S, Zhang B, Zheng ZZ, Piao HL, Jiang C, Guo H, Shui G, Deng X, Zhang CS, Lin SC. Nature. 2024 Dec 18. doi: 10.1038/s41586-024-08329-5. Online ahead of print. PMID: 39695227

[Opposing GPCR signaling programs protein intake setpoint in *Drosophila*.](#)

Wu G, Ma T, Hancock CE, Gonzalez S, Aryal B, Vaz S, Chan G, Palarca-Wong M, Allen N, Chung CI, Shu X, Liu Q. Cell. 2024 Sep 19;187(19):5376-5392.e17. doi: 10.1016/j.cell.2024.07.047. Epub 2024 Aug 27. PMID: 39197448

[Fine-grained descending control of steering in walking *Drosophila*.](#)

Yang HH, Brezovec BE, Serratos Capdevila L, Vanderbeck QX, Adachi A, Mann RS, Wilson RI. Cell. 2024 Oct 31;187(22):6290-6308.e27. doi: 10.1016/j.cell.2024.08.033. Epub 2024 Sep 17. PMID: 39293446

[PI4P-mediated solid-like Merlin condensates orchestrate Hippo pathway regulation.](#)

Guo P, Li B, Dong W, Zhou H, Wang L, Su T, Carl C, Zheng Y, Hong Y, Deng H, Pan D. Science. 2024 Aug 9;385(6709):eadf4478. doi: 10.1126/science.adf4478. Epub 2024 Aug 9. PMID: 39116228

[Compensatory enhancement of input maintains aversive dopaminergic reinforcement in hungry Drosophila.](#)

Meschi E, Duquenoy L, Otto N, Dempsey G, Waddell S. Neuron. 2024 Jul 17;112(14):2315-2332.e8. doi: 10.1016/j.neuron.2024.04.035. Epub 2024 May 24. PMID: 38795709

[Wnt signaling couples G2 phase control with differentiation during hematopoiesis in Drosophila.](#)

Goins LM, Girard JR, Mondal BC, Buran S, Su CC, Tang R, Biswas T, Kissi JA, Banerjee U. Dev Cell. 2024 Sep 23;59(18):2477-2496.e5. doi: 10.1016/j.devcel.2024.05.023. Epub 2024 Jun 11. PMID: 38866012

[Cell-fate conversion of intestinal cells in adult Drosophila midgut by depleting a single transcription factor.](#)

Guo X, Wang C, Zhang Y, Wei R, Xi R. Nat Commun. 2024 Mar 26;15(1):2656. doi: 10.1038/s41467-024-46956-8. PMID: 3853187

[Very long-chain fatty acids control peroxisome dynamics via a feedback loop in intestinal stem cells during gut regeneration.](#)

Guo X, Zhou J, La Yan, Liu X, Yuan Y, Ye J, Zhang Z, Chen H, Ma Y, Zhong Z, Luo G, Chen H. Dev Cell. 2024 Nov 18;59(22):3008-3024.e8. doi: 10.1016/j.devcel.2024.06.020. Epub 2024 Jul 23. PMID: 39047737

[The zinc-finger protein Z4 cooperates with condensin II to regulate somatic chromosome pairing and 3D chromatin organization.](#)

Puerto M, Shukla M, Bujosa P, Pérez-Roldán J, Torràs-Llort M, Tamirisa S, Carbonell A, Solé C, Puspó JA, Cummings CT, de Nadal E, Posas F, Azorín F, Rowley MJ. Nucleic Acids Res. 2024 Jun 10;52(10):5596-5609. doi: 10.1093/nar/gkae198. PMID: 38520405

[Ribosomal quality control factors inhibit repeat-associated non-AUG translation from GC-rich repeats.](#)

Tseng YJ, Krans A, Malik I, Deng X, Yildirim E, Ovunc S, Tank EMH, Jansen-West K, Kaufhold R, Gomez NB, Sher R, Petrucelli L, Barmada SJ, Todd PK. Nucleic Acids Res. 2024 Jun 10;52(10):5928-5949. doi: 10.1093/nar/gkae137. PMID: 38412259

[Xrp1 governs the stress response program to spliceosome dysfunction.](#)

Stanković D, Tain LS, Uhlirova M. Nucleic Acids Res. 2024 Mar 21;52(5):2093-2111. doi: 10.1093/nar/gkae055. PMID: 38303573

[Schlank orchestrates insect developmental transition by switching H3K27 acetylation to trimethylation in the prothoracic gland.](#)

Yuan D, Zhang X, Yang Y, Wei L, Li H, Zhao T, Guo M, Li Z, Huang Z, Wang M, Dai Z, Li P, Xia Q, Qian W, Cheng D. Proc Natl Acad Sci U S A. 2024 Aug 27;121(35):e2401861121. doi: 10.1073/pnas.2401861121. Epub 2024 Aug 21. PMID: 39167603

[EMC1 Is Required for the Sarcoplasmic Reticulum and Mitochondrial Functions in the *Drosophila* Muscle.](#)

Couto-Lima CA, Machado MCR, Anhezini L, Oliveira MT, Molina RADS, da Silva RR, Lopes GS, Trinca V, Colón DF, Peixoto PM, Monesi N, Alberici LC, Ramos RGP, Espreafico EM. Biomolecules. 2024 Oct 5;14(10):1258. doi: 10.3390/biom14101258. PMID: 39456191

[The regulation of triglyceride and glycogen storage by Glucose transporter 1 \(*Glut1* \) in *Drosophila* fat tissue.](#)

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[A developmental mechanism to regulate alternative polyadenylation in an adult stem cell lineage.](#)

Gallicchio L, Matias NR, Morales-Polanco F, Nava I, Stern S, Zeng Y, Fuller MT. Genes Dev. 2024 Aug 20;38(13-14):655-674. doi: 10.1101/gad.351649.124. PMID: 39111825

[Expressing miR-282 mitigates A \$\beta\$ 42-induced neurodegeneration in Alzheimer's model in *Drosophila*.](#)

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[PP2A and GSK3 act as modifiers of FUS-ALS by modulating mitochondrial transport.](#)

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[The Trissin/TrissinR signaling pathway in the circadian network regulates evening activity in *Drosophila melanogaster* under constant dark conditions.](#)

Sekiguchi M, Katoh S, Yokosako T, Saito A, Sakai M, Fukuda A, Itoh TQ, Yoshii T. Biochem Biophys Res Commun. 2024 Apr 16;704:149705. doi: 10.1016/j.bbrc.2024.149705. Epub 2024 Feb 22. PMID: 38430699

[Reactive oxygen species activate the *Drosophila* TNF receptor Wengen for damage-induced regeneration.](#)

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[An RNAi screen to identify proteins required for cohesion rejuvenation during meiotic prophase in *Drosophila* oocytes.](#)

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[mtDNA extramitochondrial replication mediates mitochondrial defect effects.](#)

Shan Z, Li S, Gao Y, Jian C, Ti X, Zuo H, Wang Y, Zhao G, Wang Y, Zhang Q. iScience. 2024 Jan 19;27(2):108970. doi: 10.1016/j.isci.2024.108970. eCollection 2024 Feb 16. PMID: 38322987

[Vitamin B5 is a context-dependent dietary regulator of nociception.](#)

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[Toll-mediated airway homeostasis is essential for fly survival upon injection of RasV12-GFP oncogenic cells.](#)

Ji S, Zhou X, Hoffmann JA. Cell Rep. 2024 Feb 27;43(2):113677. doi: 10.1016/j.celrep.2024.113677. Epub 2024 Jan 17. PMID: 38236774

[Stem cell-specific ecdysone signaling regulates the development of dorsal fan-shaped body neurons and sleep homeostasis.](#)

Wani AR, Chowdhury B, Luong J, Chaya GM, Patel K, Isaacman-Beck J, Kayser MS, Syed MH. Curr Biol. 2024 Nov 4;34(21):4951-4967.e5. doi: 10.1016/j.cub.2024.09.020. Epub 2024 Oct 8. PMID: 39383867

[Glut1 Functions in Insulin-Producing Neurons to Regulate Lipid and Carbohydrate Storage in Drosophila.](#)

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[The molecular signature of *BCR::ABL*^{P210} and *BCR::ABL*^{T315I} in a *Drosophila melanogaster* chronic myeloid leukemia model.](#)

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[Diurnal expression of Dgat2 induced by time-restricted feeding maintains cardiac health in the Drosophila model of circadian disruption.](#)

Guo Y, Abou Daya F, Le HD, Panda S, Melkani GC. Aging Cell. 2024 Jul;23(7):e14169. doi: 10.1111/accel.14169. Epub 2024 Apr 14. PMID: 38616316

[Mating modifies oxidative stress in the brain and confers protection against Parkinson's Disease in a Drosophila model.](#)

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[SLC16A8 is a causal contributor to age-related macular degeneration risk.](#)

Nouri N, Gussler BH, Stockwell A, Truong T, Kang GJ, Browder KC, Malato Y, Sene A, Van Everen S, Wykoff CC, Brown D, Fu A, Palmer JD, Lima de Carvalho JR, Ullah E, Al Rawi R, Chew EY, Zein WM, Guan B, McCarthy MI, Hofmann JW, Chaney SY, Jasper H, Yaspan BL. NPJ Genom Med. 2024 Oct 28;9(1):50. doi: 10.1038/s41525-024-00442-8. PMID: 39468037

[High sugar diet promotes tumor progression paradoxically through aberrant upregulation of pepck1.](#)

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[A high-protein diet-responsive gut hormone regulates behavioral and metabolic optimization in Drosophila melanogaster.](#)

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[SLC30A9: an evolutionarily conserved mitochondrial zinc transporter essential for mammalian early embryonic development.](#)

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[Fat body-derived juvenile hormone acid methyltransferase functions to maintain iron homeostasis in Drosophila melanogaster.](#)

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[The Lifespan of *D. melanogaster* Depends on the Function of the *Gagr* Gene, a Domesticated *gag* Gene of *Drosophila* LTR Retrotransposons.](#)

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Patent application:

Agent for treating or preventing cancer, and combination of RF pathway inhibitor and MEK inhibitor for treating or preventing cancer

Takako Ooshio et al

<https://patents.google.com/patent/US11925646B2/en>