

**2017**

***A Protein Scaffold Coordinates SRC-Mediated JNK Activation in Response to Metabolic Stress.***

Kant S, Standen CL, Morel C, Jung DY, Kim JK, Swat W, Flavell RA, Davis RJ. Cell Rep. 2017 Sep 19;20(12):2775-2783. doi: 10.1016/j.celrep.2017.08.025. PMID: 28930674. PMCID: PMC5659825. (Paper)

***The cJUN NH2-terminal kinase (JNK) signaling pathway promotes genome stability and prevents tumor initiation.***

Girnius N, Edwards YJ, Garlick DS, Davis RJ. Elife. 2018 Jun 1;7. pii: e36389. doi: 10.7554/eLife.36389. PMID: 29856313. PMCID: PMC5984035. (Paper)

***Sex Chromosome piRNA Promotes Robust Dosage Compensation and Sex Determination in C. elegans.***

Tang W, Seth M, Tu S, Shen EZ, Li Q, Shirayama M, Weng Z, Mello CC. Dev Cell. 2018 Mar 26;44(6):762-770.e3. doi: 10.1016/j.devcel.2018.01.025. Epub 2018 Feb 15. PMID: 29456136. (Paper)

***Impaired neurodevelopment by the low complexity domain of CPEB4 reveals a convergent pathway with neurodegeneration.***

Shin J, Salameh JS, Richter JD. Sci Rep. 2016 Jul 6;6:29395. doi: 10.1038/srep29395. PMID: 27381259. PMCID: PMC4933966. (Paper)

***ZNF1-1 Functions within Perinuclear Nuage to Balance Epigenetic Signals.***

Ishidate T, Ozturk AR, Durning DJ, Sharma R, Shen EZ, Chen H, Seth M, Shirayama M, Mello CC. Mol Cell. 2018 May 17;70(4):639-649.e6. doi: 10.1016/j.molcel.2018.04.009. PMID: 29775580. PMCID: PMC5994929 (Paper)

***In vivo and in vitro studies of Cry5B and nicotinic acetylcholine receptor agonist anthelmintics reveal a powerful and unique combination therapy against intestinal nematode parasites.***

Hu Y, Miller M, Zhang B, Nguyen TT, Nielsen MK, Aroian RV. PLoS Negl Trop Dis. 2018 May 18;12(5):e0006506. doi: 10.1371/journal.pntd.0006506. [Epub ahead of print] PMID: 29775454 [PubMed - as supplied by publisher. (Paper)

***Bacillus thuringiensis Cry5B protein as a new pan-hookworm cure.***

Hu Y, Nguyen TT, Lee ACY, Urban JF Jr, Miller MM, Zhan B, Koch DJ, Noon JB, Abraham A, Fujiwara RT, Bowman DD, Ostroff GR, Aroian RV. Int J Parasitol Drugs Drug Resist. 2018 May 4;8(2):287-294. doi: 10.1016/j.ijpddr.2018.05.001. [Epub ahead of print] PMID: 29772478 [PubMed - as supplied by publisher]. (Paper)

***Ingestion of Food Particles Regulates the Mechanosensing Misshapen-Yorkie Pathway in Drosophila Intestinal Growth.***

Li Q, Nirala NK, Nie Y, Chen HJ, Ostroff G, Mao J, Wang Q, Xu L, Ip YT. Dev Cell. 2018 May 9. pii: S1534-5807(18)30289-2. doi: 10.1016/j.devcel.2018.04.014. [Epub ahead of print] PMID: 29754801 [PubMed - as supplied by publisher]. (Paper)

***lft25 is not a cystic kidney disease gene but is required for early steps of kidney development.***

Desai PB, San Agustin JT, Stuck MW, Jonassen JA, Bates CM, Pazour GJ. Mech Dev. 2018 Apr 4. pii: S0925-4773(18)30009-1. doi: 10.1016/j.mod.2018.04.001. [Epub ahead of print] PMID: 29626631 [PubMed - as supplied by publisher] (Paper)

***Intification of piRNA Binding Sites Reveals the Argonaute Regulatory Landscape of the C. elegans Germline.***

Shen EZ, Chen H, Ozturk AR, Tu S, Shirayama M, Tang W, Ding YH, Dai SY, Weng Z, Mello CC. Cell. 2018 Feb 22;172(5):937-951.e18. doi: 10.1016/j.cell.2018.02.002. Epub 2018 Feb 15. PMID: 29456082 [PubMed - in process]. (Paper)

***Comparative Analysis of Immune Cells Reveals a Conserved Regulatory Lexicon.***

Donnard E, Vangala P, Afik S, McCauley S, Nowosielska A, Kucukural A, Tabak B, Zhu X, Diehl W, McDonel P, Yosef N, Luban J, Garber M. Cell Syst. 2018 Jan 30. pii: S2405-4712(18)30002-4. doi: 10.1016/j.cels.2018.01.002. [Epub ahead of print]. PMID: 29454939 [PubMed - as supplied by publisher]. (Paper)

***Structural Dynamics Control Allosteric Activation of Cytohesin Family Arf GTPase Exchange Factors.***

Malaby AW, Das S, Chakravarthy S, Irving TC, Bilsel O, Lambright DG. Structure. 2017 Dec 16. pii: S0969-2126(17)30393-3. doi: 10.1016/j.str.2017.11.019. [Epub ahead of print] PMID: 29276036 [PubMed - as supplied by publisher] (Paper)

***Identification and characterization of T reg-like cells in zebrafish.*** Eli Freiman, David Stachura, Arlin B. Rogers, Yariv Houvras, David M. Langenau, and Craig J. CeolJ Exp Med. 2017 Dec 4;214(12):3519-3530. doi: 10.1084/jem.20162084. Epub 2017 Oct 24. PMID: 29066577 PMCID: PMC5716030 [Available on 2018-06-04]. (Paper)

***Using an Inducible CRISPR-dCas9-KRAB Effector System to Dissect Transcriptional Regulation in Human Embryonic Stem Cells.***

Parsi KM, Hennessy E, Kearns N, Maehr R. Methods Mol Biol. 2017;1507:221-233. PMID: 27832543. DOI: 10.1007/978-1-4939-6518-2\_16 (Paper)

***Brown Fat AKT2 Is a Cold-Induced Kinase that Stimulates ChREBP-Mediated De Novo Lipogenesis to Optimize Fuel Storage and Thermogenesis.*** Sanchez-Gurmaches J, Tang Y, Jespersen NZ, Wallace M, Martinez Calejman C, Gujja S, Li H, Edwards YJK, Wolfrum C, Metallo CM, Nielsen S, Scheele C, Guertin DA. *Cell Metab.* 2017 Nov 15. pii: S1550-4131(17)30620-4. doi: 10.1016/j.cmet.2017.10.008. [Epub ahead of print]. PMID: 29153407 [PubMed - as supplied by publisher] (Paper)

***JNK Promotes Epithelial Cell Anoikis by Transcriptional and Post-translational Regulation of BH3-Only Proteins.*** Girnius N, Davis RJ. *Cell Rep.* 2017 Nov 14;21(7):1910-1921. doi: 10.1016/j.celrep.2017.10.067. PMID: 29141222 [PubMed - in process] (Paper)

***Identification and characterization of T reg-like cells in zebrafish.*** Kasheta M, Painter CA, Moore FE, Lobbardi R, Bryll A, Freiman E, Stachura D, Rogers AB, Houvras Y, Langenau DM, Ceol CJ. *J Exp Med.* 2017 Dec 4;214(12):3519-3530. doi: 10.1084/jem.20162084. Epub 2017 Oct 24. PMID: 29066577 [PubMed - indexed for MEDLINE] (Paper)

***Transcription factor Hlx controls a systematic switch from white to brown fat through Prdm16-mediated co-activation.*** Huang L, Pan D, Chen Q, Zhu LJ, Ou J, Wabitsch M, Wang YX. *Nat Commun.* 2017 Jul 12;8(1):68. doi: 10.1038/s41467-017-00098-2. PMID: 28701693 [PubMed - indexed for MEDLINE] (Paper)

***A microRNA family exerts maternal control on sex determination in C. elegans.*** McJunkin K, Ambros V. *Genes Dev.* 2017 Feb 15;31(4):422-437. doi: 10.1101/gad.290155.116. Epub 2017 Mar 9. PMID: 28279983 PMCID:PMC5358761 DOI:10.1101/gad.290155.116 (Paper)

## **2016**

***Visualization of self-delivering hydrophobically modified siRNA cellular internalization.*** Ly S, Navaroli DM, Didiot MC, Cardia J, Pandarinathan L, Alterman JF, Fogarty K, Standley C, Lifshitz LM, Bellve KD, Prot M, Echeverria D, Corvera S, Khvorova A. *Nucleic Acids Res.* 2017 Jan 9; 45(1): 15–25. Published online 2016 Nov 29. doi: 10.1093/nar/gkw1005. PMCID: PMC5224471. (Paper)

***Saturation Mutagenesis of the HIV-1 Envelope CD4 Binding Loop Reveals Residues Controlling Distinct Trimer Conformations.*** Duenas-Decamp M, Jiang L, Bolon D, Clapham PR. *PLoS Pathog.* 2016 Nov 7;12(11):e1005988. blished online 2016 Nov 7. doi: 10.1371/journal.ppat.1005988. PMCID: PMC5098743. (Paper)

***Hsp90 and p23 Molecular Chaperones Control Chromatin Architecture by Maintaining the Functional Pool of the RSC Chromatin Remodeler.*** Echtenkamp FJ, Gvozdenov Z, Adkins NL, Zhang Y, Lynch-Day M, Watanabe S, Peterson, CL,

Freeman BC. Mol Cell. 2016 Dec 1;64(5):888-899. doi: 10.1016/j.molcel.2016.09.040. Epub 2016 Nov 3. PMID: 27818141 DOI:10.1016/j.molcel.2016.09.040. (Paper)

**High EBV load and genomic diversity are associated with generation of gp350 specific neutralizing antibodies following Acute Infectious Mononucleosis.** Weiss ER, Alter G, Ogembo JG, Henderson JL, Tabak B, Bakiş Y, Somasundaran M, Garber M, Selin L, Luzuriaga K. J Virol. 2016 Dec 16;91(1). pii: e01562-16. Print 2017 Jan 1. PMID: 27733645. PMCID:PMC5165192 DOI: 10.1128/JVI.01562-16. (Paper)

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**Impaired neurodevelopment by the low complexity domain of CPEB4 reveals a convergent pathway with neurodegeneration.** Shin J, Salameh JS, Richter JD. Sci Rep. 2016 Jul 6;6:29395. doi: 10.1038/srep29395. PMID: 27381259. (Paper)

**Comparison of RNA isolation and associated methods for extracellular RNA detection by high-throughput quantitative polymerase chain reaction.** Tanriverdi K, Kucukural A, Mikhalev E, Tanriverdi SE, Lee R, Ambros VR, Freedman JE. Anal Biochem. 2016 May 15;501:66-74. doi: 10.1016/j.ab.2016.02.019. Epub 2016 Mar 10. PMID:26969789. (Paper)

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Rep. 2016 May 16. doi.org/10.1016/j.celrep.2016.05.086. PMID: PMC4934023.  
NIHMSID: NIHMS796514. (Paper)

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**Early Combination Antiretroviral Therapy Limits Exposure to HIV-1 Replication and Cell-Associated HIV-1 DNA Levels in Infants.** McManus M, Mick E, Hudson R, Mofenson LM, Sullivan JL, Somasundaran M, Luzuriaga K; PACTG 356 Investigators. PLoS One. 2016 Apr 22;11(4):e0154391. doi: 10.1371/journal.pone.0154391. eCollection 2016. PMID: 27104621. PMID:PMC4841514. (Paper)

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**Endothelial Mitogen-Activated Protein Kinase Kinase Kinase Kinase 4 Is Critical for Lymphatic Vascular Development and Function.** Roth Flach RJ, Guo CA, Danai LV, Yawe JC, Gujja S, Edwards YJ, Czech MP. Mol Cell Biol. 2016 May 31;36(12):1740-9. doi: 10.1128/MCB.01121-15. Print 2016 Jun 15. Published online 2016 May 31. Prepublished online 2016 Apr 4. doi: 10.1128/MCB.01121-15. PMID:PMC4907094. (Paper)

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**Genetic link between renal birth defects and congenital heart disease.** San Agustin JT, Klena N, Granath K, Panigrahy A, Stewart E, Devine W, Strittmatter L, Jonassen JA, Liu X, Lo CW, Pazour GJ. Nat Commun. 2016 Mar 22;7:11103. doi: 10.1038/ncomms11103. PMID: 27002738. PMID:PMC4804176 (Paper)

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**Tenomodulin promotes human adipocyte differentiation and beneficial visceral adipose tissue expansion.** Senol-Cosar O, Flach RJ, DiStefano M, Chawla A, Nicoloro S, Straubhaar J, Hardy OT, Noh HL, Kim JK, Wabitsch M, Scherer PE, Czech MP. *Nat Commun*. 2016 Feb 16;7:10686. Published online 2016 Feb 16. doi: 10.1038/ncomms10686. PMCID: PMC4757769. (Paper)

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**Human 'brite/beige' adipocytes develop from capillary networks, and their implantation improves metabolic homeostasis in mice.** Min SY, Kady J, Nam M, Rojas-Rodriguez R, Berkenwald A, Kim JH, Noh HL, Kim JK, Cooper MP, Fitzgibbons T, Brehm MA, Corvera S. *Nat Med*. 2016 Jan 25. doi: 10.1038/nm.4031. [Epub ahead of print]. PMID: 26808348. (Paper)

## **2015**

**Highly selective in vivo labeling of subcutaneous white adipocyte precursors with Prx1-Cre.** Sanchez-Gurmaches J, Hsiao WY, Guertin DA. *Stem Cell Reports*. 2015 Apr 14;4(4):541-50. doi: 10.1016/j.stemcr.2015.02.008. Epub 2015 Mar 19. PMID: 25801508. (Paper)

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**Human adipose tissue expansion in pregnancy is impaired in gestational diabetes mellitus.** Rojas-Rodriguez R, Lifshitz LM, Bellve KD, Min SY, Pires J, Leung K, Boeras C, Sert A, Draper JT, Corvera S, Moore Simas TA. *Diabetologia.* 2015 Sep;58(9):2106-14. doi: 10.1007/s00125-015-3662-0. Epub 2015 Jun 13. PMID: 2606736. (Paper)

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Pizzato M, McCauley SM, Neagu MR, Pertel T, Firrito C, Ziglio S, Dauphin A, Zufferey M, Berthoux L, Luban J. PLoS Pathog. 2015 Jul 16;11(7):e1005050. doi: 10.1371/journal.ppat.1005050. eCollection 2015. PMID: 26181333. PMCID: PMC4504712. (Paper)

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Elewa A, Shirayama M, Kaymak E, Harrison PF, Powell DR, Du Z, Chute CD, Woolf H, Yi D, Ishidate T, Srinivasan J, Bao Z, Beilharz TH, Ryder SP, Mello CC. Dev Cell. 2015 Jun 17. pii: S1534-5807(15)00360-3. doi: 10.1016/j.devcel.2015.05.024. [Epub ahead of print] PMID: 26096734 [PubMed - as supplied by publisher]. (Paper)

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