

RD Core Publications List

Awardee

Kokovay, Erzsebet

2014 Koerner M, Wait E, Winter M, Bjornsson C, Kokovay E, Wang Y, Goderie SK, Temple S, Cohen AR. Multisensory interface for 5D stem cell image volumes. *Conf Proc IEEE Eng Med Biol Soc.* 2014;2014:1178-81. doi: 10.1109/EMBC.2014.6943806. PubMed PMID: 25570174; PubMed Central PMCID: PMC4321857.

2014 Wait E, Winter M, Bjornsson C, Kokovay E, Wang Y, Goderie S, Temple S, Cohen AR. Visualization and correction of automated segmentation, tracking and lineaging from 5-D stem cell image sequences. *BMC Bioinformatics.* 2014 Oct 3;15:328. doi: 10.1186/1471-2105-15-328. PubMed PMID: 25281197; PubMed Central PMCID: PMC4287543.

2016 Santos MC, Tegge AN, Correa BR, Mahesula S, Kohnke LQ, Qiao M, Ferreira MA, Kokovay E, Penalva LO. miR-124, -128, and -137 Orchestrate Neural Differentiation by Acting on Overlapping Gene Sets Containing a Highly Connected Transcription Factor Network. *Stem Cells.* 2016 Jan;34(1):220-32. doi: 10.1002/stem.2204. Epub 2015 Sep 15. PubMed PMID: 26369286.

2016 Solano Fonseca R, Mahesula S, Apple DM, Raghunathan R, Dugan A, Cardona A, O'Connor J, Kokovay E. Neurogenic Niche Microglia Undergo Positional Remodeling and Progressive Activation Contributing to Age-Associated Reductions in Neurogenesis. *Stem Cells Dev.* 2016 Apr 1;25(7):542-55. doi: 10.1089/scd.2015.0319. Epub 2016 Mar 16. PubMed PMID: 26857912; PubMed Central PMCID: PMC4817564.

2017 Apple DM, Fonseca RS, Kokovay E. The role of adult neurogenesis in psychiatric and cognitive disorders. *Brain Res.* 2017 Jan 15;1655:270-276. doi: 10.1016/j.brainres.2016.01.023. Epub 2016 Jan 19. Review. PubMed PMID: 26801829.

2017 Apple DM, Kokovay E. Vascular niche contribution to age-associated neural stem cell dysfunction. *Am J Physiol Heart Circ Physiol.* 2017 Nov 1;313(5):H896-H902. doi: 10.1152/ajpheart.00154.2017. Epub 2017 Aug 11. Review. PubMed PMID: 28801522; PubMed Central PMCID: PMC5792207.

2017 Apple DM, Solano-Fonseca R, Kokovay E. Neurogenesis in the aging brain. *Biochem Pharmacol.* 2017 Oct 1;141:77-85. doi: 10.1016/j.bcp.2017.06.116. Epub 2017 Jun 16. Review. PubMed PMID: 28625813

2017 Kokovay E, Lodge D. Stems Cells in Psychiatric Disease: Physiology, Pathophysiology & Treatment. *Brain Res.* 2017 Jan 15;1655:261. doi: 10.1016/j.brainres.2016.12.012. PubMed PMID: 28027729

2019 Apple DM, Mahesula S, Fonseca RS, Zhu C, Kokovay E. Calorie restriction protects neural stem cells from age-related deficits in the subventricular zone. *Aging (Albany NY).* 2019 Jan 8;11(1):115-126. doi: 10.18632/aging.101731. PMID: 30622221

2019 Zhu C, Mahesula S, Temple S, Kokovay E. Heterogeneous Expression of SDF1 Retains Actively Proliferating Neural Progenitors in the Capillary Compartment of the Niche. *Stem Cell Reports.* 2019 Jan 8;12(1):6-13. doi: 10.1016/j.stemcr.2018.11.022. PMID: 30595545

Zhang, Yiqiang

2014 Bhattacharya A, Hamilton R, Jernigan A, Zhang Y, Sabia M, Rahman MM, Li Y, Wei R, Chaudhuri A, Van Remmen H. Genetic ablation of 12/15-lipoxygenase but not 5-lipoxygenase protects against denervation-induced muscle atrophy. *Free Radic Biol Med.* 2014 Feb;67:30-40. doi: 10.1016/j.freeradbiomed.2013.10.002. Epub 2013 Oct 8. PubMed PMID: 24121057.

2014 Fok WC, Bokov A, Gelfond J, Yu Z, Zhang Y, Doderer M, Chen Y, Javors M, Wood WH 3rd, Zhang Y, Becker KG, Richardson A, Perez VI. Combined treatment of rapamycin and dietary restriction has a larger effect on the

transcriptome and metabolome of liver. *Aging Cell*. 2014 Apr;13(2):311-9. doi: 10.1111/accel.12175. Epub 2013 Dec 5. PubMed PMID: 24304444; PubMed Central PMCID: PMC3989927.

2014 Fok WC, Chen Y, Bokov A, Zhang Y, Salmon AB, Diaz V, Javors M, Wood WH 3rd, Zhang Y, Becker KG, Perez VI, Richardson A. Mice fed rapamycin have an increase in lifespan associated with major changes in the liver transcriptome. *PLoS One*. 2014 Jan 7;9(1):e83988. doi: 10.1371/journal.pone.0083988. eCollection 2014. Erratum in: *PLoS One*. 2014;9(4):e92346. PubMed PMID: 24409289; PubMed Central PMCID: PMC3883653.

2014 Shi Y, Ivannikov MV, Walsh ME, Liu Y, Zhang Y, Jaramillo CA, Macleod GT, Van Remmen H. The lack of CuZnSOD leads to impaired neurotransmitter release, neuromuscular junction destabilization and reduced muscle strength in mice. *PLoS One*. 2014 Jun 27;9(6):e100834. doi: 10.1371/journal.pone.0100834. eCollection 2014. PubMed PMID: 24971750; PubMed Central

2014 Zhang Y, Bokov A, Gelfond J, Soto V, Ikeno Y, Hubbard G, Diaz V, Sloane L, Maslin K, Treaster S, Rendon S, van Remmen H, Ward W, Javors M, Richardson A, Austad SN, Fischer K. Rapamycin extends life and health in C57BL/6 mice. *J Gerontol A Biol Sci Med Sci*. 2014 Feb;69(2):119-30. doi: 10.1093/gerona/glt056. Epub 2013 May 16. PubMed PMID: 23682161; PubMed Central PMCID: PMC4038246.

2015 Cunningham GM, Roman MG, Flores LC, Hubbard GB, Salmon AB, Zhang Y, Gelfond J, Ikeno Y. The paradoxical role of thioredoxin on oxidative stress and aging. *Arch Biochem Biophys*. 2015 Jun 15;576:32-8. doi: 10.1016/j.abb.2015.02.025. Review. PMID: 25726727

2015 Hofmann JW, Zhao X, De Cecco M, Peterson AL, Pagliaroli L, Manivannan J, Hubbard GB, Ikeno Y, Zhang Y, Feng B, Li X, Serre T, Qi W, Van Remmen H, Miller RA, Bath KG, de Cabo R, Xu H, Neretti N, Sedivy JM. Reduced expression of MYC increases longevity and enhances healthspan. *Cell*. 2015 Jan 29;160(3):477-88. doi: 10.1016/j.cell.2014.12.016. Epub 2015 Jan 22. PubMed PMID: 25619689; PubMed Central PMCID: PMC4624921.

2015 Pride H, Yu Z, Sunchu B, Mochnick J, Coles A, Zhang Y, Buffenstein R, Hornsby PJ, Austad SN, Perez VI. Long-lived species have improved proteostasis compared to phylogenetically-related shorter-lived species. *Biochem Biophys Res Commun*. 2015 Feb 20;457(4):669-75. doi: 10.1016/j.bbrc.2015.01.046. Epub 2015 Jan 21. PubMed PMID: 25615820.

2015 Sataranatarajan K, Qaisar R, Davis C, Sakellariou GK, Vasilaki A, Zhang Y, Liu Y, Bhaskaran S, McArdle A, Jackson M, Brooks SV, Richardson A, Van Remmen H. Neuron specific reduction in CuZnSOD is not sufficient to initiate a full sarcopenia phenotype. *Redox Biol*. 2015 Aug;5:140-148. doi: 10.1016/j.redox.2015.04.005. PMID: 25917273

2015 Zhang HM, Fu J, Hamilton R, Diaz V, Zhang Y. The mammalian target of rapamycin modulates the immunoproteasome system in the heart. *J Mol Cell Cardiol*. 2015 Sep;86:158-67. doi: 10.1016/j.yjmcc.2015.07.027. PMID: 26239133

2015 Zhang Y, Fischer KE, Soto V, Liu Y, Sosnowska D, Richardson A, Salmon AB. Obesity-induced oxidative stress, accelerated functional decline with age and increased mortality in mice. *Arch Biochem Biophys*. 2015 Jun 15;576:39-48. doi: 10.1016/j.abb.2014.12.018. Epub 2015 Jan 3. PubMed PMID: 25558793; PubMed Central PMCID: PMC4456198.

2016 Zhang Y, Liu Y, Walsh M, Bokov A, Ikeno Y, Jang YC, Perez VI, Van Remmen H, Richardson A. Liver specific expression of Cu/ZnSOD extends the lifespan of Sod1 null mice. *Mech Ageing Dev*. 2016 Mar;154:1-8. doi: 10.1016/j.mad.2016.01.005. Epub 2016 Feb 1. PubMed PMID: 26839948; PubMed Central PMCID: PMC4855307.

2017 Dehghan E, Zhang Y, Saremi B, Yadavali S, Hakimi A, Dehghani M, Goodarzi M, Tu X, Robertson S, Lin R, Chudhuri A, Mirzaei H. Hydralazine induces stress resistance and extends *C. elegans* lifespan by activating the NRF2/SKN-1 pathway. *Nat Commun*. 2017 Dec 20;8(1):2223. doi: 10.1038/s41467-017-02394-3. PMID: 29263362

2017 Zhang HM, Diaz V, Walsh ME, Zhang Y Moderate lifelong overexpression of tuberous sclerosis complex (TSC1) improves health and survival in mice. *Sci Rep.* 2017 Apr 11;7(1):834. doi: 10.1038/s41598-017-00970-7. PMID: 28400571

2017 Zhang N, Valentine JM, Zhou Y, Li ME, Zhang Y, Bhattacharya A, Walsh ME, Fischer KE, Austad SN, Osmulski P, Gaczynska M, Shoelson SE, Van Remmen H, Chen HI, Chen Y, Liang H, Musi N. Sustained NFB inhibition improves insulin sensitivity but is detrimental to muscle health. *Aging Cell.* 2017 Aug;16(4):847-858. doi: 10.1111/accel.12613. PMID: 28556540

2017 Zhang Y, Unnikrishnan A, Deepa SS, Liu Y, Li Y, Ikeno Y, Sosnowska D, Van Remmen H, Richardson A. A new role for oxidative stress in aging: The accelerated aging phenotype in *Sod1(-/-)* mice is correlated to increased cellular senescence. *Redox Biol.* 2017 Apr;11:30-37. doi: 10.1016/j.redox.2016.10.014. Epub 2016 Nov 2. PubMed PMID: 27846439; PubMed Central PMCID: PMC5109248.

2018 El-Nachef D, Oyama K, Wu YY, Freeman M, Zhang Y, MacLellan WR. Repressive histone methylation regulates cardiac myocyte cell cycle exit. *J Mol Cell Cardiol.* 2018 Aug;121:1-12. doi: 10.1016/j.yjmcc.2018.05.013. Epub 2018 May 22. PubMed PMID: 29800554.

2018 Yu X, Zhang Y, Cavazos D, Ma X, Zhao Z, Du L, Pertsemlidis A. miR-195 targets cyclin D3 and survivin to modulate the tumorigenesis miR-195 targets of cyclin non-small D3 and cell survivin lung cancer. *Cell Death Dis.* 2018 Feb 7;9(2):193. doi: 10.1038/s41419-017-0219-9. PMID: 29416000

2018 Yu X, Zhang Y, Ma X, Pertsemlidis A. Yu X, Zhang Y, Ma X, Pertsemlidis A. miR-195 potentiates the efficacy of microtubule-targeting agents potentiates in non-small the cell efficacy lung cancer. *Cancer Lett.* 2018 Jul 28;427:85-93. doi: 10.1016/j.canlet.2018.04.007. PMID: 29656007

Eaton, Benjamin

2014 Mahoney RE, Rawson JM, Eaton BA. An age-dependent change in the set point of synaptic homeostasis. *J Neurosci.* 2014 Feb 5;34(6):2111-9. doi: 10.1523/JNEUROSCI.3556-13.2014. PubMed PMID: 24501352; PubMed Central PMCID: PMC3913865.

2015 Akitake B, Ren Q, Boiko N, Ni J, Sokabe T, Stockand JD, Eaton BA, Montell C. Coordination and fine motor control depend on *Drosophila* TRP³. *Nat Commun.* 2015 Jun 1;6:7288. doi: 10.1038/ncomms8288. PubMed PMID: 26028119; PubMed Central PMCID: PMC4535187. Azpurua J, Eaton BA. Neuronal epigenetics and the aging synapse. *Front Cell Neurosci.* 2015 May 27;9:208. doi: 10.3389/fncel.2015.00208. eCollection 2015. Review. PubMed PMID: 26074775;

2015 Azpurua J, Eaton BA. Neuronal epigenetics and the aging synapse. *Front Cell Neurosci.* 2015 May 27;9:208. doi: 10.3389/fncel.2015.00208. eCollection 2015. Review. PubMed PMID: 26074775; PubMed Central PMCID: PMC4444820.

2015 Chang L, Kreko-Pierce T, Eaton BA. The guanine exchange factor Gartzenzweg and the small GTPase Arl1 function in the same pathway with Arfaptin during synapse growth. *Biol Open.* 2015 Jun 26;4(8):947-53. doi: 10.1242/bio.011262. PubMed PMID: 26116655; PubMed Central PMCID: PMC4542281.

2016 Kreko-Pierce T, Azpurua J, Mahoney RE, Eaton BA. Extension of Health Span and Life Span in *Drosophila* by S107 Requires the calstabin Homologue FK506-BP2. *J Biol Chem.* 2016 Dec 9;291(50):26045-26055. Epub 2016 Nov 1. PubMed PMID: 27803160; PubMed Central PMCID: PMC5207075.

2016 Mahoney RE, Azpurua J, Eaton BA. Insulin signaling controls neurotransmission via the 4eBP- dependent modification of the exocytotic machinery. *Elife.* 2016 Aug 15;5. pii: e16807. doi: 10.7554/eLife.16807. PubMed PMID: 27525480; PubMed Central PMCID: PMC5012858.

2017 Boiko N, Medrano G, Montano E, Jiang N, Williams CR, Madungwe NB, Bopassa JC, Kim CC, Parrish JZ, Hargreaves KM, Stockand JD, Eaton BA. TrpA1 activation in peripheral sensory neurons underlies the ionic basis of pain hypersensitivity in response to vinca alkaloids. *PLoS One*. 2017 Oct 30;12(10):e0186888. doi: 10.1371/journal.pone.0186888. eCollection 2017. PubMed PMID: 29084244; PubMed Central PMCID: PMC5662086.

2017 Kreko-Pierce T, Eaton BA. The *Drosophila* LC8 homolog cut up specifies the axonal transport of proteasomes. *J Cell Sci*. 2017 Oct 1;130(19):3388-3398. doi: 10.1242/jcs.207027. Epub 2017 Aug 14. PubMed PMID: 28808087; PubMed Central PMCID: PMC5665441.

2018 Azpurua J, Mahoney RE, Eaton BA. Transcriptomics of aged *Drosophila* motor neurons reveals a matrix metalloproteinase that impairs motor function. *Aging Cell*. 2018 Apr;17(2). doi: 10.1111/accel.12729. Epub 2018 Feb 7. PubMed PMID: 29411505; PubMed Central PMCID: PMC5847883.

2018 Jiang N, Kim HJ, Chozinski TJ, Azpurua JE, Eaton BA, Vaughan JC, Parrish JZ. Superresolution imaging of *Drosophila* tissues using expansion microscopy. *Mol Biol Cell*. 2018 Jun 15;29(12):1413-1421. doi: 10.1091/mbc.E17-10-0583. Epub 2018 Apr 24. PubMed PMID: 29688792; PubMed Central PMCID: PMC6014096.

Espinoza, Sara

2014 Pugh JA, Wang CP, Espinoza SE, Noel PH, Bollinger M, Amuan M, Finley E, Pugh MJ. Influence of frailty-related diagnoses, high-risk prescribing in elderly adults, and primary care use on readmissions in fewer than 30 days for veterans aged 65 and older. *J Am Geriatr Soc*. 2014 Feb;62(2):291-8. doi: 10.1111/jgs.12656. Epub 2014 Jan 21. PubMed PMID: 24521365.

2014 Wang CP, Lorenzo C, Espinoza SE. Frailty Attenuates the Impact of Metformin on Reducing Mortality in Older Adults with Type 2 Diabetes. *J Endocrinol Diabetes Obes*. 2014;2(2). pii: 1031. PubMed PMID: 25506599; PubMed Central PMCID: PMC4264048.

2015 Espinoza SE, Hazuda HP. Frailty prevalence and neighborhood residence in older Mexican Americans: the San Antonio longitudinal study of aging. *J Am Geriatr Soc*. 2015 Jan;63(1):106-11. doi: 10.1111/jgs.13202. PubMed PMID: 25597562; PubMed Central PMCID: PMC4299938.

2016 Espinoza SE, Wang CP, Tripathy D, Clement SC, Schwenke DC, Banerji MA, Bray GA, Buchanan TA, Henry RR, Kitabchi AE, Mudaliar S, Stentz FB, Reaven PD, DeFronzo RA, Musi N. Pioglitazone is equally effective for diabetes prevention in older versus younger adults with impaired glucose tolerance. *Age (Dordr)*. 2016 Dec;38(5-6):485-493. doi: 10.1007/s11357-016-

2016 Noel PH, Parchman ML, Finley EP, Wang CP, Bollinger M, Espinoza SE, Hazuda HP. Primary care-public health linkages: Older primary care patients with prediabetes & type 2 diabetes encouraged to attend community-based senior centers. *Prev Med Rep*. 2016 Jun 29;4:283-8. doi: 10.1016/j.pmedr.2016.06.023. eCollection 2016 Dec. PubMed PMID: 27462529; PubMed Central PMCID: PMC4950171.

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2018 Espinoza SE, Brooks JS, Araujo J. Implementing an Information System Strategy: A Cost, Benefit, and Risk Analysis Framework for Evaluating Viable IT Alternatives in the US Federal Government. *Int J Commun Netw Syst Sci*. 2018 Jun;11(6): 105-132. doi: 10.4236/ijcns.2018.116007. PMID: 30245758

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2019 Espinoza SE, Jiwani R, Wang J, Wang CP. Review of Interventions for the Frailty Syndrome and the Role of Metformin as a Potential Pharmacologic Agent for Frailty Prevention. *Clin Ther*. 2019 Mar;41(3):376-386. doi: 10.1016/j.clinthera.2019.01.006. Review. PMID: 30851950

2019 Espinoza SE, Musi N, Wang CP, Michalek J, Orsak B, Romo T, Powers B, Conde A, Moris M, Bair- Kelps D, Li Y, Ganapathy V, Jergensen TE, Kelly LC, Jiwani R. Rationale and Study Design of a Randomized Clinical Trial of Metformin to Prevent Frailty in Older Adults with Pre-Diabetes. *J Gerontol A Biol Sci Med Sci*. 2019 Mar 19. pii: glz078. doi: 10.1093/gerona/glz078. PMID: 30888034

Li, Senlin

2015 Harris D, Liang Y, Chen C, Li S, Patel O, Qin Z. Bone marrow from blotchy mice is dispensable to regulate blood copper and aortic pathologies but required for inflammatory mediator production in LDLR-deficient mice during chronic angiotensin II infusion. *Ann Vasc Surg*. 2015 Feb;29(2):328-40. doi: 10.1016/j.avsg.2014.10.006. Epub 2014 Oct 29. PubMed PMID: 25449986; PubMed Central PMCID: PMC4520311.

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2016 Li G, Chen C, Laing SD, Ballard C, Biju KC, Reddick RL, Clark RA, Li S. Hematopoietic knockdown of PPAR γ reduces atherosclerosis in LDLR-/- mice. *Gene Ther*. 2016 Jan;23(1):78-85. doi: 10.1038/gt.2015.78. Epub 2015 Aug 23. PubMed PMID: 26204499; PubMed Central PMCID: PMC4939901.

2017 Phillips KA, Ross CN, Spross J, Cheng CJ, Izquierdo A, Biju KC, Chen C, Li S, Tardif SD. Behavioral phenotypes associated with MPTP induction of partial lesions in common marmosets (*Callithrix jacchus*). *Behav Brain Res*. 2017 May 15;325(Pt A):51-62. doi: 10.1016/j.bbr.2017.02.010. Epub 2017 Feb 17. PubMed PMID: 28219749; PubMed Central PMCID: PMC5410665.

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2018 Lynch WB, Tschumi CW, Sharpe AL, Branch SY, Chen C, Ge G, Li S, Beckstead MJ. Progressively disrupted somatodendritic morphology in dopamine neurons in a mouse Parkinson's model. *Mov Disord.* 2018 Dec;33(12):1928-1937. doi: 10.1002/mds.27541. PMID: 30440089

2019 Chen C, Guderyon MJ, Ge G, Clark RA, Li S. Lentiviral Infection of Mouse Bone Marrow Cells for Hematopoietic Stem Cell Transplantation. *Methods Mol Biol.* 2019;1919:205-213. doi: 10.1007/978-1-4939-9007-8_16. PMID: 30656632

Paukert, Martin

2017 Ye L, Haroon MA, Salinas A, Paukert M. Comparison of GCaMP3 and GCaMP6f for studying astrocyte Ca²⁺ dynamics in the awake mouse brain. *PLoS One.* 2017 Jul 24;12(7):e0181113. doi: 10.1371/journal.pone.0181113. eCollection 2017. PubMed PMID: 28742117; PubMed Central PMCID: PMC5524333.

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Wang, Pei

2015 Wang H, Luo X, Yao L, Lehman DM, Wang P. Improvement of Cell Survival During Human Pluripotent Stem Cell Definitive Endoderm Differentiation. *Stem Cells Dev.* 2015 Nov 1;24(21):2536-46. doi: 10.1089/scd.2015.0018. Epub 2015 Aug 3. PubMed PMID: 26132288; PubMed Central PMCID: PMC4620527.

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Fisher, Al

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2016 Keith SA, Maddux SK, Zhong Y, Chinchankar MN, Ferguson AA, Ghazi A, Fisher AL. Graded Proteasome Dysfunction in *Caenorhabditis elegans* Activates an Adaptive Response Involving the Conserved SKN-1 and ELT-2 Transcription Factors and the Autophagy-Lysosome Pathway. PLoS Genet. 2016 Feb 1;12(2):e1005823. doi: 10.1371/journal.pgen.1005823. PMID: 26828939

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