**Publications from 2015 - 2016**

**Allan CM**, Larsson M, Hu X, He C, Jung RS, Mapar A, Voss C, Miyashita K, Machida T, Murakami M, Nakajima K, Bensadoun A, Ploug M, Fong LG, Young SG, Beigneux AP. 2016. An LPL-specific monoclonal antibody, 88B8 that abolishes the binding of LPL to GPIHBP1. J Lipid Res. 57(10):1889-1898. PMC5036369

**Allan CM**, Larsson M, Jung RS, Ploug M, Bensadoun A Beigneux AP, fong LG, Young SG. 2016. Mobility of HSPG-bound LPL explains how LPL is able to reach GPIHBP1 on capillaries. J Lipid Res. 58(1):216-225. PubMed in process.

**Allan CM**, Procaccia S, Tran D, Tu Y, Barnes RH 2nd, Larsson M, Allan BB, Young LC, Hong C, Tontonoz P, Fong LG, Young SG, Beigneux AP. 2016. Palmoplantar Keratoderma in Slurp2-Deficient Mice. J Invest Dermatol. 136(2):436-43

Bennett BJ, Davis RC, **Civelek M**, Orozco L, Wu J, Qi H, Pan C, Sevag Packard RR, Eskin E, Yan M, Kirchgessner T, Wang Z, Li X, Gregory JC, Hazen SL, Gargalovic PS, Lusis AJ. 2016. Correction: Genetic architecture of atherosclerosis in mice: A systems genetics analysis of common inbred strains. PLoS Genet. 12(3):e1005913. PMC4775237

Bouhidel JO, Wang P, **Siu KL**, Li H, Youn JY, Cai H. 2015. Netrin-1 improves post-injury cardiac function in vivo via DCC/NO-dependent preservation of mitochondrial integrity, while attenuating autophagy. Biochim Biophys Acta. 1852(2):27-89. PMC4262720

Brænne I, **Civelek M**, Vilne B, Di Narzo A, Johnson AD, Zhao Y, Reiz B, Codoni V, Webb TR, Foroughi Asl H, Hamby SE, Zeng L, Trégouët DA, Hao K, Topol EJ, Schadt EE, Yang X, Samani NJ, Björkegren JL, Erdmann J, Schunkert H, Lusis AJ; Leducq Consortium CAD Genomics‡. 2015. Prediction of Causal Candidate Genes in Coronary Artery Disease Loci. ATVB 35(10):2207-17. PMCID: PMC4583353.

Briot A, **Civelek M**, Seki A, Hoi K, Mack JJ, Lee SD, Kim J, Hong C, Yu J, Fishbein GA, Vakili L, Fogelman AM, Fishbein MC, Lusis AJ, Tontonoz P, Navab M, Berliner JA, Iruela-Arispe ML. 2015. Endothelial NOTCH1 is suppressed by circulating lipids and antagonizes inflammation during atherosclerosis. J Exp Med. 212(12):2147-63.

**Cavanaugh AM**, Huang J, Chen JN. 2015. Two developmentally distinct populations of neural crest cells contribute to the zebrafish heart. Dev Biol. 404(2):103-12. PMCID: PMC4515179

**Chapski DJ**, Monte E, Vondriska TM. 2014. Positive feedback in cardioprotection: can more mechanism lead to translation? Circ Res. 114(8): 1225-7. PMCID: PMC4085981

Escamilla J, Schokrpur S, Liu C, Priceman SJ, **Moughon D**, Jiang Z, Pouliot F, Magyar C, Sung JL, Xu J, Deng G, West BL, Bollag G, Fradet Y, Lacombe L. Jung ME, Huang J, Wu L. 2015. CSF1 receptor targeting in prostate cancer reverses macrophage-mediated resistance to androgen blockade therapy. Cancer Res. 75(6):950-62. PMC4359956

Gao C, Ren S, Lee JH, Qiu J, **Chapski DJ**, Rau CD, Zhou Y, Abdellatif M, Nakano A, Vondriska TM, Xiao X, Fu XD, Chen JN, Wang Y. 2016. RBFox1-mediated RNA splicing regulates cardiac hypertrophy and heart failure. J Clin Invest.

He H, **Mack JJ,** Guc E, Warren CM, Squadrito ML, Kilarski WW, Baer C, Freshman RD**, McDonald AI**, Ziyad S, Swartz MA, De Palma M, Iruela-Arispe ML. 2016. Perivascular macrophages limit permeability. ATVB. 36(11):2203-2212. PMC5083209

**Hu X**, Sleeman MW, Miyashita K, Linton MF, Allan CM, He C, Larsson M, Tu Y, Sandoval NP, Jung RS, Mapar A, Machida T, Murakami M, Nakajima K, Ploug M, Fong LG, Young SG, Beigneux AP. 2016. Monoclonal antibodies that bind to the Ly6 domain of GPIHBP1 abolish the binding of LPL. J Lipid Res. [E pub ahead of print].

Jin YP, **Valenzuela NM**, Ziegler ME, Rozengurt E, Reed EF. 2014. Everolimus Inhibits Anti-HLA I Antibody-Mediated Endothelial Cell Signaling, Migration and Proliferation More Potently Than Sirolimus. Am J Transplant. 14(4):806-19

Karbassi E, Monte E, **Chapski DJ**, Lopez R, Rosa Garrido M, Kim J, Wisniewski N, Rau CD, Wang JJ, Weiss JN, Wang Y, Lusis AJ, Vondriska TM. 2016. Relationship of disease-associated gene expression to cardiac phenotype is buffered by genetic diversity and chromatin regulation. Physiol. Genomics. 48(8):601-15. PMC5005461

Kim DH, Kim J, Kwon JS, **Sandhu J**, Tontonoz P, Lee SK, Lee S, Lee JW. 2016. Critical roles of the histone methyltransferase MLL4/KMT2D in murine hepatic steatosis directed by ABL1 and PPARγ2. Cell Rep. 17(6):1671-1682.

Krysan K, Kusko R, Grogan T, **O’Hearn J**, Reckamp KL, Walser TC, Garon EB, Lenburg Me, Sharma S, Spira AE, Elashoff D, Dubinett SM. 2014. PGE2-driven expression of c-Myc and OncomiR-17-92 contributes to apoptosis resistance in NSCLC Mol Cancer Res. 12(5):765-774. PMC4020971

Li F, Wei J, **Valenzuela NM**, Lai C, Zhang Q, Gjertson D, Fishbein MC, Kobashigawa JA, Deng M, Reed EF. 2015. Phosphorylated S6 Kinase and S6 Ribosomal Protein are Diagnostic Markers of Antibody-Mediated Rejection in Heart Allografts. Journal of Heart and Lung Transplantation, 34(4):580-7. PMC4402106.

Lusis AJ, **Seldin MM,** Allayee H, Bennett BJ, Civelek M, Davis RC, Eskin E, Farber CR, Hui S, Mehrabian M, Norheim F, Pan C, Parks B, Rau CD, Smith DJ, Vallim T, Wang Y, Wang J. 2016. The hybrid mouse diversity panel: a resource for systems genetics analyses of metabolic and cardiovascular traits. J Lipid Res. 57(6):925-42. PMC4878195

**McDonald AI,** Iruela-Arispe ML. 2015. Healing arterial ulcers: Endothelial lining regeneration upon vascular denudation injury. Vascul Pharmacol. 72:9-15.

**Moughon DL**, He H, Schokrpur S, Jiang ZK, Yaqoob M, David J, Lin C, Iruela-Arispe ML, Dorigo O, Wu L. 2015. Macrophage blockade using CSF1R inhibitors reverses the vascular leakage underlying malignant ascites in late-stage epithelial ovarian cancer. Cancer Res. 75(22):4742-52.

**Salehi S**, Reed EF. 2015. The divergent roles of macrophages in solid organ transplantation. Curr Opin Organ Transplant. 20(4):446-53 PMCID: PMC4520531

Sallam T, Jones MC, Gilliland T, Zhang L, Wu X, Eskin A, **Sandhu J**, Casero D, Vallim TQ, Hong C, Katz M, Lee R, Whitelegge J, Tontonoz P. 2016. Feedback modulation of cholesterol metabolism by the lipid-responsive non-coding RNA LeXis. Nature. 534(7605):124-9. PMC4896091.

**Seldin MM**, Meng Y, Qi H, Zhu W, Wang Z, Hazen SL, Lusis AJ, Shih DM. 2016. Trimethylamine N-Oxide promotes vascular inflammation through signaling of mitogen-activated protein kinase and nuclear Factor-κB. J Am Heart Assoc. 5(2). Pii:e002767.

Shirali AS, **McDonald AI**, Mack JJ, Iruela-Arispe ML. 2016. Reproducible arterial denudation injury by infrarenal abdominal aortic clamping in a murine model. J Vis Exp (117). PMCID in process.

**Siu KL**, Gao L, Cai H. 2016. Differential roles of protein complexes NOX1-NOXO1 and NOX2-p47phox in mediating endothelil redox responss to oscillatory and unidirectional laminar shear stress. J Biol Chem. 291(16):8653-62. PMC4861435

**Siu KL**, Lotz C, Ping P, Cai H. 2015. Netrin-1 abrogates ischemia/reperfusion-induced cardiac mitochondrial dysfunction via nitric oxide-dependent attenuation of NOX4 activation and recoupling of NOS. J Mol Cell Cardiol. 78:174-185. PMC4268247

Skelton RJ, Brady B, Khoja S, Sahoo D, **Engel J**, Arasaratnam D, Saleh KK, Abilez OJ, Zhao P, Stanley EG, Elefanty AG, Kwon M, Elliott DA, Ardehali R. 2016. CD13 and ROR2 permit isolation of highly enriched cardiac mesoderm from differentiating human embryonic stem cells. Stem Cell Reports. 6(1):95-108. PMC4720015

Skelton RJ, Khoja S, Almeida S, Rapacchi S, Han F, **Engel J**, Zhao P, Hu P, Stanley EG, Elefanty AG, Kwon M, Elliott DA, Ardehali R. 2016. Magnetic resonance imaging of iron oxide-labeled human embryonic stem cell-derived cardiac progenitors. Stem Cells Transl Med. 5(1):67-74. PMC4704872

**Valenzuela NM**, Hickey MJ, Reed EF. 2016. Antibody subclass repertoire and graft outcome following solid organ transplantation. Front Immunol. 7:433 Review. PMC40755576

**Valenzuela N.M.,** McNamara J.T., Reed E.F. 2014. Antibody-Mediated graft injury: complement-dependent and complement-independent mechanisms. Curr Opin Organ Transplant. 19(1):33-40. PMC4080796.

Youssef K, Jarenwattananon N, **Archer B**, Mack J, Iruela-Arispe L, Bouchard L. 2016. R-D flow control in porous scaffolds: Toward a next generation of bioreactors. IEEE Trans Biomed Eng. [E-pub ahead of print].

Zhang Q., Hickey M.J., **Valenzuela N.M.**, Zhang X., Lan J.H., Cecka J.M., Reed E.F. Histocompatibility and Immunogenetics for Solid Organ Transplantation. In: Practical Atlas of Transplant Pathology. Wallace WD, Naini BV, editors. London: Springer Science+Business Media; 2015, in press.

Zhou R, Park JW, Chun RF, Lisse TS, Garcia AJ, Zavala K, **Sea JL**, Lu ZX, Xu J, Xing Y, Adams JS, Hewison M. 2016. Concerted effects of heterogenous nuclear ribonucleoprotein C1/C2 to control vitamin D-directed gene transcription and RNA aplicing in human bone cells. Nucleic Acids Res. [Epub ahead of print].

He H, Mack JJ, Guc E, Warren CM, Squadrito ML, Kilarski WW, Baer C, Freshman RD, **McDonald AI**, **Ziyad S,** Swartz MA, De Palma M, Iruela-Arispe ML. 2016. Perivascular macrophages limit permeability. ATVB.36(11):2203-2212. PMC5083209