

Resulting Pubs Using Transgenic Lines

- Arsenault PR; Pei F; Lee R; Kerestes H; Percy MJ; Keith B; Simon MC; Lappin TR; Khurana TS; Lee FS. 2013. A Knock-in Mouse Model of Human PHD2 Gene-associated Erythrocytosis Establishes a Haploinsufficiency Mechanism. *J Biol Chem* 288(47):33571-84
- Berry R; Rodeheffer MS. 2013. Characterization of the adipocyte cellular lineage in vivo. *Nat Cell Biol* 15(3):302-8.
- Besschetnova TY; Ichimura T; Katebi N; St Croix B; Bonventre JV; Olsen BR. 2015. Regulatory mechanisms of anthrax toxin receptor 1-dependent vascular and connective tissue homeostasis. *Matrix Biol* 42:56-73.
- Chang SH; Elemento O; Zhang J; Zhuang ZW; Simons M; Hla T. 2014. ELAVL1 regulates alternative splicing of eIF4E transporter to promote postnatal angiogenesis. *PNAS USA* 111(51):18309-14.
- Corada M; Nyqvist D; Orsenigo F; Caprini A; Giampietro C; Taketo MM; Iruela-Arispe ML; Adams RH; Dejana E. 2010. The Wnt/beta-catenin pathway modulates vascular remodeling and specification by upregulating Dll4/Notch signaling. *Dev Cell* 18(6):938-49.
- Eckle T; Brodsky K; Bonney M; Packard T; Han J; Borchers CH; Mariani TJ; Kominsky DJ; Mittelbronn M; Eltzschig HK. 2013. HIF1A reduces acute lung injury by optimizing carbohydrate metabolism in the alveolar epithelium. *PLoS Biol* 11(9):e1001665.
- Eckle T; Hughes K; Ehrentraut H; Brodsky KS; Rosenberger P; Choi DS; Ravid K; Weng T; Xia Y; Blackburn MR; Eltzschig HK. 2013. Crosstalk between the equilibrative nucleoside transporter ENT2 and alveolar Adora2b adenosine receptors dampens acute lung injury. *FASEB J* 27(8):3078-89.
- Economopoulou M; Langer HF; Celeste A; Orlova VV; Choi EY; Ma M; Vassilopoulos A; Callen E; Deng C; Bassing CH; Boehm M; Nussenzweig A; Chavakis T. 2009. Histone H2AX is integral to hypoxia-driven neovascularization. *Nat Med* 15(5):553-8.
- Fahs SA; Hille MT; Shi Q; Weiler H; Montgomery RR. 2014. A conditional knockout mouse model reveals endothelial cells as the principal and possibly exclusive source of plasma factor VIII. *Blood* 123:3706-13.
- Fioret BA; Heimfeld JD; Paik DT; Hatzopoulos AK. 2014. Endothelial Cells Contribute to Generation of Adult Ventricular Myocytes during Cardiac Homeostasis. *Cell Rep* 8(1):229-41.
- Gandhirajan RK; Meng S; Chandramoorthy HC; Mallilankaraman K; Mancarella S; Gao H; Razmpour R; Yang XF; Houser SR; Chen J; Koch WJ; Wang H; Soboloff J; Gill DL; Madesh M. 2013. Blockade of NOX2 and STIM1 signaling limits lipopolysaccharide-induced vascular inflammation. *J Clin Invest* .
- Genetic Resource Science at The Jackson Laboratory. 2008. Expression/Specificity Patterns of Cre Alleles Direct Data Submission from Genetic Resource Science .: [MGI Ref ID J:137887]
- Genetic Resource Science at The Jackson Laboratory. 2012. Expression/Specificity Patterns of Cre Alleles, 2011 Direct Data Submission from Genetic Resource Science .: [MGI Ref ID J:184578]
- Goddard LM; Murphy TJ; Org T; Enciso JM; Hashimoto-Partyka MK; Warren CM; Domigan CK; McDonald AI; He H; Sanchez LA; Allen NC; Orsenigo F; Chao LC; Dejana E; Tontonoz P; Mikkola HK; Iruela-Arispe ML. 2014. Progesterone receptor in the vascular endothelium triggers physiological uterine permeability preimplantation. *Cell* 156(3):549-62.

Greif DM; Kumar M; Lighthouse JK; Hum J; An A; Ding L; Red-Horse K; Espinoza FH; Olson L; Offermanns S; Krasnow MA. 2012. Radial construction of an arterial wall. *Dev Cell* 23(3):482-93.

Grenz A; Bauerle JD; Dalton JH; Ridyard D; Badulak A; Tak E; McNamee EN; Clambey E; Moldovan R; Reyes G; Klawitter J; Ambler K; Magee K; Christians U; Brodsky KS; Ravid K; Choi DS; Wen J; Lukashev D; Blackburn MR; Osswald H; Coe IR; Nurnberg B; Haase VH; Xia Y; Sitkovsky M; Eltzschig HK. 2012. Equilibrative nucleoside transporter 1 (ENT1) regulates postischemic blood flow during acute kidney injury in mice. *J Clin Invest* 122(2):693-710.

Guo W; Lasky JL; Chang CJ; Mosessian S; Lewis X; Xiao Y; Yeh JE; Chen JY; Iruela-Arispe ML; Varella-Garcia M; Wu H. 2008. Multi-genetic events collaboratively contribute to Pten-null leukaemia stem-cell formation. *Nature* 453(7194):529-33.

Guo W; Schubert S; Chen JY; Valamehr B; Mosessian S; Shi H; Dang NH; Garcia C; Theodoro MF; Varella-Garcia M; Wu H. 2011. Suppression of leukemia development caused by PTEN loss. *PNAS USA* 108(4):1409-14.

Harel I; Nathan E; Tirosh-Finkel L; Zigdon H; Guimaraes-Camboa N; Evans SM; Tzahor E. 2009. Distinct origins and genetic programs of head muscle satellite cells. *Dev Cell* 16(6):822-32.

Hofmann JJ; Briot A; Enciso J; Zovein AC; Ren S; Zhang ZW; Radtke F; Simons M; Wang Y; Iruela-Arispe ML. 2012. Endothelial deletion of murine Jag1 leads to valve calcification and congenital heart defects associated with Alagille syndrome. *Development* 139(23):4449-60.

Hofmann JJ; Zovein AC; Koh H; Radtke F; Weinmaster G; Iruela-Arispe ML. 2010. Jagged1 in the portal vein mesenchyme regulates intrahepatic bile duct development: insights into Alagille syndrome. *Development* 137(23):4061-72.

Ji W; Li Y; He Y; Yin M; Zhou HJ; Boggon TJ; Zhang H; Min W. 2015. AIP1 Expression in Tumor Niche Suppresses Tumor Progression and Metastasis. *Cancer Res* 75(17):3492-504.

Kapitsinou PP; Sano H; Michael M; Kobayashi H; Davidoff O; Bian A; Yao B; Zhang MZ; Harris RC; Duffy KJ; Erickson-Miller CL; Sutton TA; Haase VH. 2014. Endothelial HIF-2 mediates protection and recovery from ischemic kidney injury. *J Clin Invest* 124(6):2396-409.

Koyama T; Ochoa-Callejero L; Sakurai T; Kamiyoshi A; Ichikawa-Shindo Y; Inuma N; Arai T; Yoshizawa T; Iesato Y; Lei Y; Uetake R; Okimura A; Yamauchi A; Tanaka M; Igarashi K; Toriyama Y; Kawate H; Adams RH; Kawakami H; Mochizuki N; Martinez A; Shindo T. 2013. Vascular endothelial adrenomedullin-RAMP2 system is essential for vascular integrity and organ homeostasis. *Circulation* 127(7):842-53.

Langer HF; Orlova VV; Xie C; Kaul S; Schneider D; Lonsdorf AS; Fahrleitner M; Choi EY; Dutoit V; Pellegrini M; Grossklaus S; Nawroth PP; Baretton G; Santoso S; Hwang ST; Arnold B; Chavakis T. 2011. A Novel Function of Junctional Adhesion Molecule-C in Mediating Melanoma Cell Metastasis. *Cancer Res* 71(12):4096-4105.

Lee S; Chen TT; Barber CL; Jordan MC; Murdock J; Desai S; Ferrara N; Nagy A; Roos KP; Iruela-Arispe ML. 2007. Autocrine VEGF signaling is required for vascular homeostasis. *Cell* 130(4):691-703.

Li Z; Lan Y; He W; Chen D; Wang J; Zhou F; Wang Y; Sun H; Chen X; Xu C; Li S; Pang Y; Zhang G; Yang L; Zhu L; Fan M; Shang A; Ju Z; Luo L; Ding Y; Guo W; Yuan W; Yang X; Liu B. 2012. Mouse embryonic head as a site for hematopoietic stem cell development. *Cell Stem Cell* 11(5):663-75.

Liang M; Woodard LE; Liang A; Luo J; Wilson MH; Mitch WE; Cheng J. 2015. Protective Role of Insulin-Like Growth Factor-1 Receptor in Endothelial Cells against Unilateral Ureteral Obstruction-Induced Renal

Fibrosis. *Am J Pathol* 185(5):1234-50.

Liu S; Zhang Y; Moayeri M; Liu J; Crown D; Fattah RJ; Wein AN; Yu ZX; Finkel T; Leppla SH. 2013. Key tissue targets responsible for anthrax-toxin-induced lethality. *Nature* 501(7465):63-8.

Lucitti JL; Mackey JK; Morrison JC; Haigh JJ; Adams RH; Faber JE. 2012. Formation of the collateral circulation is regulated by vascular endothelial growth factor-A and a disintegrin and metalloprotease family members 10 and 17. *Circ Res* 111(12):1539-50.

Maddaluno L; Rudini N; Cuttano R; Bravi L; Giampietro C; Corada M; Ferrarini L; Orsenigo F; Papa E; Boulday G; Tournier-Lasserre E; Chapon F; Richichi C; Retta SF; Lampugnani MG; Dejana E. 2013. EndMT contributes to the onset and progression of cerebral cavernous malformations. *Nature* 498(7455):492-6.

McBride SH; McKenzie JA; Bedrick BS; Kuhlmann P; Pasteris JD; Rosen V; Silva MJ. 2014. Long bone structure and strength depend on BMP2 from osteoblasts and osteocytes, but not vascular endothelial cells. *PLoS One* 9(5):e96862.

Moding EJ; Lee CL; Castle KD; Oh P; Mao L; Zha S; Min HD; Ma Y; Das S; Kirsch DG. 2014. Atm deletion with dual recombinase technology preferentially radiosensitizes tumor endothelium. *J Clin Invest* 124(8):3325-38.

Monvoisin A; Alva JA; Hofmann JJ; Zovein AC; Lane TF; Iruela-Arispe ML. 2006. VE-cadherin-CreERT2 transgenic mouse: a model for inducible recombination in the endothelium. *Dev Dyn* 235(12):3413-22.

Myers SA; DeVries WH; Andres KR; Gruenthal MJ; Benton RL; Hoying JB; Hagg T; Whittemore SR. 2011. CD47 knockout mice exhibit improved recovery from spinal cord injury. *Neurobiol Dis* 42(1):21-34.

Nie L; Guo X; Esmailzadeh L; Zhang J; Asadi A; Collinge M; Li X; Kim JD; Woolls M; Jin SW; Dubrac A; Eichmann A; Simons M; Bender JR; Sadeghi MM. 2013. Transmembrane protein ESDN promotes endothelial VEGF signaling and regulates angiogenesis. *J Clin Invest* 123(12):5082-97.

Nitschke M; Aebischer D; Abadier M; Haener S; Lucic M; Vigl B; Luche H; Fehling HJ; Biehlmaier O; Lyck R; Halin C. 2012. Differential requirement for ROCK in dendritic cell migration within lymphatic capillaries in steady-state and inflammation. *Blood* 120(11):2249-58.

Okuno Y; Nakamura-Ishizu A; Otsu K; Suda T; Kubota Y. 2012. Pathological neoangiogenesis depends on oxidative stress regulation by ATM. *Nat Med* . [PubMed: 22797809][MGI Ref ID J:192791]

Onder L; Danuser R; Scandella E; Firner S; Chai Q; Hehlhans T; Stein JV; Ludewig B. 2013. Endothelial cell-specific lymphotoxin-beta receptor signaling is critical for lymph node and high endothelial venule formation. *J Exp Med* 210(3):465-73.

Pasula S; Cai X; Dong Y; Messa M; McManus J; Chang B; Liu X; Zhu H; Mansat RS; Yoon SJ; Hahn S; Keeling J; Saunders D; Ko G; Knight J; Newton G; Luscinskas F; Sun X; Towner R; Lupu F; Xia L; Cremona O; De Camilli P; Min W; Chen H. 2012. Endothelial epsin deficiency decreases tumor growth by enhancing VEGF signaling. *J Clin Invest* 122(12):4424-38.

Pitt LA; Tikhonova AN; Hu H; Trimarchi T; King B; Gong Y; Sanchez-Martin M; Tsigos A; Littman DR; Ferrando AA; Morrison SJ; Fooksman DR; Aifantis I; Schwab SR. 2015. CXCL12-Producing Vascular Endothelial Niches Control Acute T Cell Leukemia Maintenance. *Cancer Cell* 27(6):755-68.

Poulos MG; Guo P; Kofler NM; Pinho S; Gutkin MC; Tikhonova A; Aifantis I; Frenette PS; Kitajewski J; Rafii S; Butler JM. 2013. Endothelial Jagged-1 is necessary for homeostatic and regenerative

hematopoiesis. *Cell Rep* 4(5):1022-34.

Red-Horse K; Ueno H; Weissman IL; Krasnow MA. 2010. Coronary arteries form by developmental reprogramming of venous cells. *Nature* 464(7288):549-53. [PubMed: 20336138][MGI Ref ID J:158886]

Roodhart JM; He H; Daenen LG; Monvoisin A; Barber CL; van Amersfoort M; Hofmann JJ; Radtke F; Lane TF; Voest EE; Iruela-Arispe ML. 2013. Notch1 regulates angio-supportive bone marrow-derived cells in mice: relevance to chemoresistance. *Blood* 122(1):143-53.

Ruiz-Herguido C; Guiu J; D'Altri T; Ingles-Esteve J; Dzierzak E; Espinosa L; Bigas A. 2012. Hematopoietic stem cell development requires transient Wnt/beta-catenin activity. *J Exp Med* 209(8):1457-68.

Satyanarayana A; Gudmundsson KO; Chen X; Coppola V; Tessarollo L; Keller JR; Hou SX. 2010. RapGEF2 is essential for embryonic hematopoiesis but dispensable for adult hematopoiesis. *Blood* 116(16):2921-31.

Schubbert S; Cardenas A; Chen H; Garcia C; Guo W; Bradner J; Wu H. 2014. Targeting the MYC and PI3K pathways eliminates leukemia-initiating cells in T-cell acute lymphoblastic leukemia. *Cancer Res* 74(23):7048-59.

Shoham AB; Malkinson G; Krief S; Shwartz Y; Ely Y; Ferrara N; Yaniv K; Zelzer E. 2012. S1P1 inhibits sprouting angiogenesis during vascular development. *Development* 139(20):3859-69.

Skuli N; Liu L; Runge A; Wang T; Yuan L; Patel S; Iruela-Arispe L; Simon MC; Keith B. 2009. Endothelial deletion of hypoxia-inducible factor-2alpha (HIF-2alpha) alters vascular function and tumor angiogenesis. *Blood* 114(2):469-77.

Skuli N; Majmundar AJ; Krock BL; Mesquita RC; Mathew LK; Quinn ZL; Runge A; Liu L; Kim MN; Liang J; Schenkel S; Yodh AG; Keith B; Simon MC. 2012. Endothelial HIF-2alpha regulates murine pathological angiogenesis and revascularization processes. *J Clin Invest* 122(4):1427-43.

Tang Y; Bai H; Urs S; Wang Z; Liaw L. 2013. Notch1 activation in embryonic VE-cadherin populations selectively blocks hematopoietic stem cell generation and fetal liver hematopoiesis. *Transgenic Res* 22(2):403-10.

Tang Y; Harrington A; Yang X; Friesel RE; Liaw L. 2010. The contribution of the Tie2+ lineage to primitive and definitive hematopoietic cells. *Genesis* 48(9):563-7.

Van Handel B; Montel-Hagen A; Sasidharan R; Nakano H; Ferrari R; Boogerd CJ; Schredelseker J; Wang Y; Hunter S; Org T; Zhou J; Li X; Pellegrini M; Chen JN; Orkin SH; Kurdistani SK; Evans SM; Nakano A; Mikkola HK. 2012. Scl represses cardiomyogenesis in prospective hemogenic endothelium and endocardium. *Cell* 150(3):590-605.

Wei Y; Gong J; Thimmulappa RK; Kosmider B; Biswal S; Duh EJ. 2013. Nrf2 acts cell-autonomously in endothelium to regulate tip cell formation and vascular branching. *PNAS USA* 110(41):E3910-8.

Zhong Z; Ilieva H; Hallagan L; Bell R; Singh I; Paquette N; Thiyagarajan M; Deane R; Fernandez JA; Lane S; Zlokovic AB; Liu T; Griffin JH; Chow N; Castellino FJ; Stojanovic K; Cleveland DW; Zlokovic BV. 2009. Activated protein C therapy slows ALS-like disease in mice by transcriptionally inhibiting SOD1 in motor neurons and microglia cells. *J Clin Invest* 119(11):3437-49

Zhou G; Hamik A; Nayak L; Tian H; Shi H; Lu Y; Sharma N; Liao X; Hale A; Boerboom L; Feaver RE; Gao H; Desai A; Schmaier A; Gerson SL; Wang Y; Atkins GB; Blackman BR; Simon DI; Jain MK. 2012. Endothelial Kruppel-like factor 4 protects against atherothrombosis in mice. *J Clin Invest* 122(12):4727-31.

Zovein AC; Hofmann JJ; Lynch M; French WJ; Turlo KA; Yang Y; Becker MS; Zanetta L; Dejana E; Gasson JC; Tallquist MD; Iruela-Arispe ML. 2008. Fate tracing reveals the endothelial origin of hematopoietic stem cells. *Cell Stem Cell* 3(6):625-36.

Zovein AC; Luque A; Turlo KA; Hofmann JJ; Yee KM; Becker MS; Fassler R; Mellman I; Lane TF; Iruela-Arispe ML. 2010. Beta1 integrin establishes endothelial cell polarity and arteriolar lumen formation via a Par3-dependent mechanism. *Dev Cell* 18(1):39-51.

Zovein AC; Turlo KA; Ponec RM; Lynch MR; Chen KC; Hofmann JJ; Cox TC; Gasson JC; Iruela-Arispe ML. 2010. Vascular remodeling of the vitelline artery initiates extravascular emergence of hematopoietic clusters. *Blood* 116(18):3435-44.