

2016 Publications

Antibodies

Dusseault, J., B. Li, N. Haider, M. Goyette, J. Côté and Louise Larose. 2016. *Nck2 deficiency in mice results in increased adiposity associated with adipocyte hypertrophy and enhanced adipogenesis*. *Diabetes*, 65:2652-2666.

Anti-CD133 Ab

Chanvorachote, P and S. Luanpitpong. 2016. *Iron induces cancer stem cells and aggressive phenotypes in human lung cancer cells*. *Am J Physiol – Cell Physiol*, 310:C728-C739.

Phiboonchaiyanan, P. C. Kiratipaiboon, and P. Chanvorachote. 2016. *Ciprofloxacin mediates cancer stem cell phenotypes in lung cancer cells through caveolin-1-dependent mechanism*. *Chemico-Biological Interactions*, 250:1-11.

Anti-CtBP2 Ab

Dlugaiczek, J., D. Hecker, C. Neubert, S. Buerbank, D. Campanelli, C. Becker, H. Betz, M. Knipper, L. Rüttiger and B. Schicka. 2016. *Loss of glycine receptors containing the $\alpha 3$ subunit compromises auditory nerve activity, but not outer hair cell function*. *Hearing Research*, 337:25-34.

Anti-ER α 36 Ab

Pisolato, R., A. Lombardi, C. Vicente, T. Lucas, M. Lazari and C. Porto. 2016. *Expression and regulation of the estrogen receptors in PC-3 human prostate cancer cells*. *Steroids*, 107:74-86.

Anti-uPAR Ab

Betapudi, V., M. Shukla, R. Alluri, S. Merkulov and K. McCrae. 2016. *Novel role for p56/Lck in regulation of endothelial cell survival and angiogenesis*. *FASEB J*, 30:3515-3526.

Anti-pVEGFR2 Ab

Bailey, E., Y. Cui, A. Casey, J. Stoler, X. Ai, D. Ma, R. Handin, P. Sliz, S. Vargas and S. El-Chemaly. 2016. *Pulmonary Vasculopathy Associated with FIGF Gene Mutation*. *Am J Pathol*, 187:25-32.

Anti-pVEGFR3 Ab

Bailey, E., Y. Cui, A. Casey, J. Stoler, X. Ai, D. Ma, R. Handin, P. Sliz, S. Vargas and S. El-Chemaly. 2016. *Pulmonary Vasculopathy Associated with FIGF Gene Mutation*. *Am J Pathol*, 187:25-32.

Lee, S., S. Rho, H. Park, J. Park, J. Kim, I. Lee, G. Koh, N. Mochizuki, Y. Kim and Y. Kwon. 2016. *Carbohydrate-binding protein CLEC14A regulates VEGFR-2- and VEGFR-3-dependent signals during angiogenesis and lymphangiogenesis*. *J Clin Invest*, doi:10.1172/JCI85145.

Anti-VEGFR3 Ab

Bailey, E., Y. Cui, A. Casey, J. Stoler, X. Ai, D. Ma, R. Handin, P. Sliz, S. Vargas and S. El-Chemaly. 2016. *Pulmonary Vasculopathy Associated with FIGF Gene Mutation*. *Am J Pathol*, 187:25-32.

Zopf, D., I. Fichtner, A. Bhargava, W. Steinke, K. Thierauch, K. Diefenbach, S. Wilhelm, F. Hafner and M. Gerisch. 2016. *Pharmacologic activity and pharmacokinetics of metabolites of regorafenib in preclinical models*. *Cancer Medicine*, 5:3176-3185.

Attachment & Matrix Solutions

González-Miguel, J., C. Larrazabal, D. Loa-Mesón, M. Siles-Lucas, F. Simón and R. Morchón. 2016. *Glyceraldehyde 3-phosphate dehydrogenase and galectin from *Dirofilaria immitis* participate in heartworm disease endarteritis via plasminogen/plasmin system*. *Veterinary Parasitology*, 223:96-101.

Suzuki, T., T. Aoyama, N. Suzuki, M. Kobayashi, T. Fukami, Y. Matsumoto and K. Tomono. 2016. *Involvement of a proton-coupled organic cation antiporter in the blood-brain barrier transport of amantadine*. *Biopharmaceutics & Drug Disposition*, 37:323-335.

BAOEC: Bovine Aortic Endothelial Cells

Chen, X., Z. Cheng, D. Werling, G. Pollott, M. Salavati, K. Johnson, F. Khan, D. Wathes and S. Zhang. 2016. *Bovine P-selectin mediates leukocyte adhesion and is highly polymorphic in dairy breeds*. *Research in Veterinary Science*, 108:85-92.

DelloStritto, D., P. Connell, G. Dick, I. Fancher, B. Klarich, J. Fahmy, P. Kang, Y. Chen, D. Damron, C. Thodeti and I. Bratz. 2016. *Differential regulation of TRPV1 channels by H₂O₂: implications for diabetic microvascular dysfunction*. *Basic Research in Cardiology*, 111:21.

2016 Publications

Farwell, S., D. Kanyi, M. Hamel, J. Slee, E. Miller, M. Cipolle, and L. Lowe-Krentz. 2016. Heparin decreases in TNF α -induced endothelial stress responses require transmembrane protein 184A and induction of dual specificity phosphatase-1. *J Biol Chem*, 291:5342-5354.

Fujie, T., M. Murakami, E. Yoshida, T. Tachinami, Y. Shinkai, Y. Fujiwara, C. Yamamoto, Y. Kumagai, H. Naka and T. Kaji. 2016. Copper diethyldithiocarbamate as an activator of Nrf2 in cultured vascular endothelial cells. *J Biolog Inorganic Chem*, 21:263-273.

Fujie, T., Y. Segawa, A. Uehara, T. Nakamura, T. Kimura, E. Yoshida, C. Yamamoto, M. Uchiyama, H. Naka and T. Kaji. 2016. Zinc diethyldithiocarbamate as an inducer of metallothionein in cultured vascular endothelial cells. *J Toxicolog Sci*, 41:217-224.

Fujie, T., Y. Segawa, E. Yoshida, T. Kimura, Y. Fujiwara, C. Yamamoto, M. Satoh, H. Naka and T. Kaji. 2016. Induction of metallothionein isoforms by copper diethyldithiocarbamate in cultured vascular endothelial cells. *J Toxicolog Sci*, 41:225-232.

Hara, T., H. Matsuzaki, T. Nakamura, E. Yoshida, T. Ohkubo, H. Maruyama, C. Yamamoto, S. Saito and T. Kajo. 2016. Cytotoxicity of zinc, copper and Rhodium complexes with 1,10-phenanthroline or 2,9-dimethyl-1,10-phenanthroline in cultured vascular endothelial cells. *Fundam Toxicol Sci*, 3:109-113.

Hara, T., E. Yoshida, Y. Fujiwara, C. Yamamoto and T. Kaji. 2016. Transforming growth factor- β 1 modulates the expression of syndecan-4 in cultured vascular endothelial cells in a biphasic manner. *J Cell Biochem*, DOI 10.1002/jcb.25861.

Hara, T., E. Yoshida, Y. Shinkai, C. Yamamoto, Y. Fujiwara, Y. Kumagai, and T. Kaji. 2016. Biglycan Intensifies ALK5-Smad2/3 Signaling by TGF- β 1 and Downregulates Syndecan-4 in Cultured Vascular Endothelial Cells. *J Cellular Biochem*, DOI: 10.1002/jcb.25721.

Pugh, R., J. Slee, S. Farwell, Y. Li, T. Barthol, W. Patton and L. Lowe-Krentz. 2016. Transmembrane protein 184A is a receptor required for vascular smooth muscle cell responses to heparin. *JBC*, 291:5326-5341.

Yu, Y., K. Su, Y. Kou, B. Guo, K. Lee, J. Wei and T. Lee. 2016. Role of transient receptor potential vanilloid 1 in regulating erythropoietin-induced activation of endothelial nitric oxide synthase. *Acta Physiologica*, DOI: 10.1111/apha.12723.

BAOSMC: Bovine Aortic Smooth Muscle Cells

Pugh, R., J. Slee, S. Farwell, Y. Li, T. Barthol, W. Patton and L. Lowe-Krentz. 2016. Transmembrane protein 184A is a receptor required for vascular smooth muscle cell responses to heparin. *JBC*, 291:5326-5341.

Randall, T., S. Islam, I. Mahbub, N. McFarlane and Y. Yu. 2016. A low-power, reconfigurable, pipelined ADC for implantable bioimpedance measurement system with vertically aligned carbon nanofibers (VACNF) electrodes. *Analog Integr Circ Sig Process*, 89:139-149.

Yu, Y. K. Al Mamun, A. Shanta, S. Islam, and N. McFarlane. 2016. Vertically Aligned Carbon Nanofibers as a Cell Impedance Sensor. *IEEE Transactions on Nanotechnology*, 10.1109/TNANO.2016.2558102.

BBMVEC: Bovine Brain Microvascular Endothelial Cells

Bastian, T., K. Duck, G. Michalopoulos, M. Chen, Z. Liu, J. Connor, L. Lanier, M. Sola-Visner and M. Georgieff. 2016. Eltrombopag, a thrombopoietin mimetic, crosses the blood-brain-barrier and impairs iron-dependent hippocampal neuron dendrite development. *J Thrombosis & Haemostasis*, DOI: 10.1111/jth.13602.

Selvi, E. 2016. Factors impacting the efficacy of cell-mediated drug delivery to the brain via the blood brain barrier. Masters Thesis, Penn State University.

BEnEpC: Bovine Endometrial Epithelial Cells

Brockus, K., C. Hart, C. Gilfeather, B. Fleming, and C. Lemley. 2016. Dietary melatonin alters uterine artery hemodynamics in pregnant Holstein heifers. *Domestic Animal Endocrinology*, 55:1-10.

Gilfeather, C. and C. Lemley. 2016. Effects of Interferon-Tau and Steroids on Cytochrome P450 Activity in Bovine Endometrial Epithelial Cells. *Reproduction in Domestic Animals*. 51:415-420.

Sugimoto, M., Y. Gotoh, T. Kawahara and Y. Sugimoto. 2016. Family with Sequence Similarity 213, Member A is Associated with the Fertility Selection Index in Holsteins. *J Fertility Biomarkers*, Vol-1 Issue 1 Pg. no.- 20.

2016 Publications

Bovine Brain Endothelial Cell Media

Selvi, E. 2016. **Factors impacting the efficacy of cell-mediated drug delivery to the brain via the blood brain barrier.** Masters Thesis, Penn State University.

Bovine Endothelial Cell Media

Chen, X., Z. Cheng, D. Werling, G. Pollott, M. Salavati, K. Johnson, F. Khan, D. Wathes and S. Zhang. 2016. **Bovine P-selectin mediates leukocyte adhesion and is highly polymorphic in dairy breeds.** Research in Veterinary Science, 108:85-92.

DelloStritto, D., P. Connell, G. Dick, I. Fancher, B. Klarich, J. Fahmy, P. Kang, Y. Chen, D. Damron, C. Thodeti and I. Bratz. 2016. **Differential regulation of TRPV1 channels by H₂O₂: implications for diabetic microvascular dysfunction.** Basic Research in Cardiology, 111:21.

Farwell, S., D. Kanyi, M. Hamel, J. Slee, E. Miller, M. Cipolle, and L. Lowe-Krentz. 2016. **Heparin decreases in TNF α -induced endothelial stress responses require transmembrane protein 184A and induction of dual specificity phosphatase-1.** J Biol Chem, 291:5342-5354.

Bovine Insulin

Ryoo, I., G. Kim, B. Choi, S. Lee and M. Kwak. 2016. **Involvement of NRF2 Signaling in Doxorubicin Resistance of Cancer Stem Cell-Enriched Colonospheres.** Biomol Ther, 24:482–488.

Stowers, R., S. Allen, K. Sanchez, C. Davis, N. Ebelt, C. Van Den Berg and L. Suggs. 2016. **Extracellular Matrix Stiffening Induces a Malignant Phenotypic Transition in Breast Epithelial Cells.** Cellular & Molec Bioeng, doi:10.1007/s12195-016-0468-1.

Wang, H., M. Becuwe, B. Housden, C. Chitraju, A. Porras, M. Graham, X. Liu, A. Thiam, D. Savage, A. Agarwal, A. Garg, M. Olarte, Q. Lin, F. Fröhlich, H. Kristian, H. Hannibal-Back, S. Upadhyayula, N. Perrimon, T. Kirchhausen, C. Ejsing, T. Walther and R. Farese. 2016. **Seipin is required for converting nascent to mature lipid droplets.** eLife, 5:e16582.

Bovine Smooth Muscle Cell Media

Randall, T., S. Islam, I. Mahbub, N. McFarlane and Y. Yu. 2016. **A low-power, reconfigurable, pipelined ADC for implantable bioimpedance measurement system with vertically aligned carbon nanofibers (VACNF) electrodes.** Analog Integr Circ Sig Process, 89:139-149.

BPASMC: Bovine Pulmonary Artery Smooth Muscle Cells

Chowdhury, A., J. Sarkar, P. Pramanik, T. Chakraborti, S. and S. Chakraborti. 2016. **Cross talk between MMP2-Spm-Cer-S1P and ERK1/2 in proliferation of pulmonary artery smooth muscle cells under angiotensin II stimulation.** Archives of Biochemistry and Biophysics, 603:91–101.

Chowdhury, A., S. Nandy, J. Sarkar, T. Chakraborti and S. Chakraborti. 2011. **Inhibition of pro-/active MMP-2 by green tea catechins and prediction of their interaction by molecular docking studies.** Molec Cell Biochem, DOI 10.1007/s11010-016-2903-y.

Sarkar, J., S. Nandy, A. Chowdhury, T. Chakraborti and S. Chakraborti. 2016. **Inhibition of MMP-9 by green tea catechins and prediction of their interaction by molecular docking analysis.** Biomed & Pharmacother, 84:340-347.

Sarkar, J., A. Chowdhury, T. Chakraborti and S. Chakraborti. 2016. **Cross-talk between NADPH oxidase-PKC α -p38MAPK and NF- κ B-MT1MMP in activating proMMP-2 by ET-1 in pulmonary artery smooth muscle cells.** Molec & Cell Biochem, 415:13-28.

CADMEC/HMVEC: Human Dermal Microvascular Endothelial Cells

Betapudi, V., M. Shukla, R. Alluri, S. Merkulov and K. McCrae. 2016. **Novel role for p56/Lck in regulation of endothelial cell survival and angiogenesis.** FASEB J, 30:3515-3526.

McKerracher, L. and L. Bond. 2016. **Treatment of cerebral cavernous malformations and cerebral aneurysms with rho kinase inhibitors.** Patent Applications US 20160213664 A1.

2016 Publications

Canine Endothelial Cell Media

Anwar, S., T. Yanai, and H. Sakai. 2016. Overexpression of Peroxiredoxin 6 Protects Neoplastic Cells against Apoptosis in Canine Haemangiosarcoma. *J Comparative Pathol*, 155:29-39.

González-Miguel, J., C. Larrazabal, D. Loa-Mesón, M. Siles-Lucas, F. Simón and R. Morchón. 2016. Glyceraldehyde 3-phosphate dehydrogenase and galectin from *Dirofilaria immitis* participate in heartworm disease endarteritis via plasminogen/plasmin system. *Veterinary Parasitology*, 223:96-101.

Swancutt, L. 2016. Single high dose irradiation: applicability of cell survival curve modeling and in vivo evaluation of tumor biologic response. PhD Dissertation, Colorado State University.

Canine Osteoblast Medium

Fenger, J., R. Roberts, O. Iwenofu, M. Bear, X. Zhang, J. Couto, J. Modiano, W. Wisseberth and C. London. 2016. MiR-9 is overexpressed in spontaneous canine osteosarcoma and promotes a metastatic phenotype including invasion and migration in osteoblasts and osteosarcoma cell lines. *BMC Cancer*, 16:784.

González-Miguel, J., C. Larrazabal, D. Loa-Mesón, M. Siles-Lucas, F. Simón and R. Morchón. 2016. Glyceraldehyde 3-phosphate dehydrogenase and galectin from *Dirofilaria immitis* participate in heartworm disease endarteritis via plasminogen/plasmin system. *Veterinary Parasitology*, 223:96-101.

Canine Smooth Muscle Cell Media

González-Miguel, J., C. Larrazabal, D. Loa-Mesón, M. Siles-Lucas, F. Simón and R. Morchón. 2016. Glyceraldehyde 3-phosphate dehydrogenase and galectin from *Dirofilaria immitis* participate in heartworm disease endarteritis via plasminogen/plasmin system. *Veterinary Parasitology*, 223:96-101.

Cell Freezing Medium

Rizvi, F., A. DeFranco, R. Siddiqui, U. Negmadjanov, L. Emelyanova, A. Holmuhamedov, G. Ross, Y. Shi, E. Holmuhamedov, D. Kress, A. Tajik and A. Jahangir. 2016. Chamber-specific differences in human cardiac fibroblast proliferation and responsiveness toward simvastatin. *Am J Physiol – Cell Physiol*, 311:C330-339.

Classical Cell Media

Guo, T., G. Shen, X. Tong, G. Zhou, Y. Wan, D. Li, X. Dai, X. Sun and Y. Tian. 2016. miR-125b expression in ovarian cancer cell lines. *Int J Clin Exp Pathathol*, 9:5267-5275.

Liao, Y., Y. Deng, J. Liu, Z. Ye, Z. You, S. Yao and S. He. 2016. MiR-760 overexpression promotes proliferation in ovarian cancer by downregulation of PHLPP2 expression. *Gynecol Oncol*, 143:655-663.

CnAOEC: Canine Aortic Endothelial Cells

Anwar, S., T. Yanai, and H. Sakai. 2016. Overexpression of Peroxiredoxin 6 Protects Neoplastic Cells against Apoptosis in Canine Haemangiosarcoma. *J Comparative Pathol*, 155:29-39.

González-Miguel, J., C. Larrazabal, D. Loa-Mesón, M. Siles-Lucas, F. Simón and R. Morchón. 2016. Glyceraldehyde 3-phosphate dehydrogenase and galectin from *Dirofilaria immitis* participate in heartworm disease endarteritis via plasminogen/plasmin system. *Veterinary Parasitology*, 223:96-101.

Roshan, A., L. Dong, C. Alvan, J. Bart and H. Wenhui. 2016. Validation of Cross-Species Reactivity of the VEGF-A/PDGFR β Bifunctional Antibody PF-06653157. *J Ocular Pharmacol & Ther*, 32:650-658.

Swancutt, L. 2016. Single high dose irradiation: applicability of cell survival curve modeling and in vivo evaluation of tumor biologic response. PhD Dissertation, Colorado State University.

CnAOSMC: Canine Aortic Smooth Muscle Cells

González-Miguel, J., C. Larrazabal, D. Loa-Mesón, M. Siles-Lucas, F. Simón and R. Morchón. 2016. Glyceraldehyde 3-phosphate dehydrogenase and galectin from *Dirofilaria immitis* participate in heartworm disease endarteritis via plasminogen/plasmin system. *Veterinary Parasitology*, 223:96-101.

CnOb: Canine Osteoblasts

Fenger, J., R. Roberts, O. Iwenofu, M. Bear, X. Zhang, J. Couto, J. Modiano, W. Wisseberth and C. London. 2016. MiR-9 is overexpressed in spontaneous canine osteosarcoma and promotes a metastatic phenotype including invasion and migration in osteoblasts and osteosarcoma cell lines. *BMC Cancer*, 16:784.

2016 Publications

Cyto-X: Colorimetric Cell Counting Reagent

Boudiaf, K., M. Hurtado-Nedelec, S. Belambri, J. Marie, Y. Derradji, M. Benboubetra, J. El-Benna and P. Dang. 2016. **Thymoquinone strongly inhibits fMLF-induced neutrophil functions and exhibits anti-inflammatory properties in vivo.** *Biochem Pharmacol*, 104:62-73.

Cytofect™ Smooth Muscle Cell Transfection Kit

Sahoo, S., D. Meijles, I. Ghoulh, M. Tandon, E. Cifuentes-Pagano, J. Sembrat, M. Rojas, E. Goncharova and P. Pagano. 2016. **MEF2C-MYOC and Leiomod1 Suppression by miRNA-214 Promotes Smooth Muscle Cell Phenotype Switching in Pulmonary Arterial Hypertension.** *PLoS ONE*, dx.doi.org/10.1371/journal.pone.0153780.

FBS: Fetal Bovine Serum

Rizvi, F., A. DeFranceo, R. Siddiqui, U. Negmadjanov, L. Emelyanova, A. Holmuhamedov, G. Ross, Y. Shi, E. Holmuhamedov, D. Kress, A. Tajik and A. Jahangir. 2016. **Chamber-specific differences in human cardiac fibroblast proliferation and responsiveness toward simvastatin.** *Am J Physiol – Cell Physiol*, 311:C330-C339.

Shekhani, M., T. Forde, A. Adilbayeva, M. Ramez, A. Myngbay, Y. Bexeitov, V. Lindner and M. Ramez. 2016. **Collagen triple helix repeat containing 1 is a new promigratory marker of arthritic pannus.** *Arthritis Research & Therapy*, 18:171.

HAd: Human Adipocytes

Duncan, D., T. Kamerzell and M. Palmer. 2016. **Use of Indole Compounds for Fat Reduction and Skin and Soft Tissue Tightening.** Patent Applications US 20160030389 A1.

Ignacio, R., C. Gibbs, E. Lee and D. Son. 2016. **Differential Chemokine Signature between Human Preadipocytes and Adipocytes.** *Immune Network*, 16:189-194.

HAEC: Human Arterial Endothelial Cells

Gardner, A., P. Montgomery, A. Casanegra, F. Silva-Palacios, Z. Ungvari and A. Csiszar. 2016. **Association between gait characteristics and endothelial oxidative stress and inflammation in patients with symptomatic peripheral artery disease.** *Age*, 36:64.

HAOEC: Human Aortic Endothelial Cells

Chiang, E. H. Ma, J. Wang, C. Liu, T. Chen andn S. Hung. 2016. **Multi-lineage differentiation and angiogenesis potentials of pigmented villonodular synovitis derived mesenchymal stem cells - pathological implication.** *J Orth Res*, 34:395-403.

Hung, M., Y. Kao, C. Mao, T. Chen and W. Chen. 2016. **Aliskiren attenuates the effects of interleukin-6 on endothelial nitric oxide synthase and caveolin-1 in human aortic endothelial cells.** *Nitric Oxide*, 61:45-54.

Lamichhane, S., J. Anderson, T. Remund, H. Sun, M. Larson, P. Kelly and G. Mani. 2016. **Responses of endothelial cells, smooth muscle cells, and platelets dependent on the surface topography of polytetrafluoroethylene.** *J Biomed Mat Res*, 104:2291-2304.

Wang, H., S. Chen and W. Lo. 2016. **Identification of Cofilin-1 Induces G0/G1 Arrest and Autophagy in Angiotensin-(1-7)-treated Human Aortic Endothelial Cells from iTRAQ Quantitative Proteomics.** *Scientific Reports*, 6, 35372.

Wang, Y. W. Nie, K. Yao, Z. Wang andn H. He. 2016. **Interleukin 6 induces expression of NADPH oxidase 2 in human aortic endothelial cells via long noncoding RNA MALAT1.** *Die Pharmazie*, 71:592-597.

HAOSMC: Human Aortic Smooth Muscice Cells

Anderson, J., S. Lamichhane, T. Remund, P. Kelly and G. Mani. 2016. **Preparation, characterization, in vitro drug release, and cellular interactions of tailored paclitaxel releasing polyethylene oxide films for drug-coated balloons.** *Acta Biomaterialia*, 29:333–351.

Becs, G., A. Zarjou, A. Agarwal, K. Éva Kovács, Á. Becs, M. Nyitrai, E. Balogh, E. Bányai, J. Eaton, P. Arosio, M. Poli, V. Jeney, J. Balla and G. Balla. 2016. **Pharmacological induction of ferritin prevents osteoblastic transformation of smooth muscle cells.** *J Cellular & Molec Med*, 20:217-230.

Franzoni, M., I. Cattaneo, L. Longaretti, M. Figliuzzi, B. Ene-lordache and A. Remuzzi. 2016. **Endothelial cell activation by hemodynamic shear stress derived from arteriovenous fistula for hemodialysis access.** *Am J Physiol Heart Circ Physiol* 310:H49 –H59.

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Lamichhane, S., J. Anderson, T. Remund, H. Sun, M. Larson, P. Kelly and G. Mani. 2016. Responses of endothelial cells, smooth muscle cells, and platelets dependent on the surface topography of polytetrafluoroethylene. *J Biomed Mat Res*, 104:2291-2304.

Maier, K., B. Ruhle, J. Stein, K. Gentile, F. Middleton and V. Gahtan. 2016. Thrombospondin-1 differentially regulates microRNAs in vascular smooth muscle cells. *Molec & Cell Biochem*, 412:111-117.

Mani, G., S. Lamichhane, J. Anderson, T. Remund and P. Kelly. 2016. Formulations for Tailored Drug Release. Patent Application US 20160121027 A1.

Oros, M. 2016. Ethanol accelerates vascular calcification in human aortic smooth muscle cells: Quantitative trait locus mapping reveals alcohol consumption genes. PhD Thesis, University of Debrecen, Doctoral School of Molecular and Immune Biology.

Wilhelmson, A., J. Fagman, I. Johansson, Z. Zou, A. Andersson, E. Svedlund, M. Johansson, P. Lindahl, P. Fogelstrand and Å. Tivesten. 2016. Increased Intimal Hyperplasia Following Vascular Injury in Male Androgen Receptor Deficient Mice. *Endocrinology*, doi: 10.1210/en.2016-1100.

HBEPc: Human Bronchial Epithelial Cells

Hiraku, Y., F. Guo, N. Ma, T. Yamada, S. Wang, S. Kawanishi and M. Murata. 2016. Multi-walled carbon nanotube induces nitrate DNA damage in human lung epithelial cells via HMGB1-RAGE interaction and Toll-like receptor 9 activation. *Particle & Fibre Toxicol*, 13:16.

Mungunsukh, O., Y. Lee, D. Bottaro and R. Day. 2016. The Hepatocyte Growth Factor Isoform NK2 Activates Motogenesis and Survival but not Proliferation due to Lack of Akt Activation. *Cellular Signaling*, 28:1114-1123.

Othumpangat, S., J. Noti, C. McMillen and D. Beezhold. 2016. ICAM-1 regulates the survival of influenza virus in lung epithelial cells during the early stages of infection. *Virology*, 487:85-94.

Perez, D. and H. Chen. 2016. Methods and Compositions for in vivo Immune Stimulation and Antigen Production. Patent Application US 20160022807 A1.

HC: Human Chondrocytes

Bellayr, I., R. Marklein, J. Lo Surdo, S. Bauer and R. Puri. 2016. Identification of Predictive Gene Markers for Multipotent Stromal Cell Proliferation. *Stem Cells & Dev*, 25:861-873.

Dua, R., K. Comella, R. Butler, G. Castellanos, B. Brazille, A. Claude, A. Agarwal, J. Liao and S. Ramaswamy. 2016. Integration of Stem Cell to Chondrocyte-Derived Cartilage Matrix in Healthy and Osteoarthritic States in the Presence of Hydroxyapatite Nanoparticles. *PLoS ONE*, 11(2): e0149121.

Samavedi, S., P. Diaz-Rodriguez, J. Erndt-Marino and M. Hahn. *Tissue Eng Part A*. 2016. A Three-Dimensional Chondrocyte-Macrophage Coculture System to Probe Inflammation in Experimental Osteoarthritis. *Tissue Engineering, Part A*, doi:10.1089/ten.TEA.2016.0007.

HC-OA: Human Chondrocytes-Osteoarthritis

Dua, R., K. Comella, R. Butler, G. Castellanos, B. Brazille, A. Claude, A. Agarwal, J. Liao and S. Ramaswamy. 2016. Integration of Stem Cell to Chondrocyte-Derived Cartilage Matrix in Healthy and Osteoarthritic States in the Presence of Hydroxyapatite Nanoparticles. *PLoS ONE*, 11(2): e0149121.

Kong, Y., W. Wang, C. Zhang, Y. Wu, Y. Liu and X. Zhou. 2016. Cannabinoid WIN-55,212-2 mesylate inhibits ADAMTS-4 activity in human osteoarthritic articular chondrocytes by inhibiting expression of syndecan-1. *Molecular Medicine Reports*, 13:4569-4576.

Samavedi, S., P. Diaz-Rodriguez, J. Erndt-Marino and M. Hahn. *Tissue Eng Part A*. 2016. A Three-Dimensional Chondrocyte-Macrophage Coculture System to Probe Inflammation in Experimental Osteoarthritis. *Tissue Engineering, Part A*, doi:10.1089/ten.TEA.2016.0007.

HCAEC: Human Coronary Artery Endothelial Cells

Aoki, T., K. Yamamoto, M. Fukuda, Y. Shimogonya, S. Fukuda and S. Narumiya. 2016. Sustained expression of MCP-1 by low wall shear stress loading concomitant with turbulent flow on endothelial cells of intracranial aneurysm. *Acta Neuropathologica Comm: Neurosci of Dis*, 4:48.

Degendorfer, G., C. Chuang, H. Kawasaki, A. Hammer, E. Malle, F. Yamakura and M. Davies. 2016. Peroxynitrite-mediated oxidation of plasma fibronectin. *Free Radical Biol & Med*, 97:602-615.

2016 Publications

Liu, W., B. Liu, S. Liu, J. Zhang and S. Lin. 2016. Sphingosine-1-phosphate receptor 2 mediates endothelial cells dysfunction by PI3K-Akt pathway under high glucose condition. *Eur J Pharmacol*, 776:19-25.

Qiao, C. 2016. Transcriptomic Profiling Reveals Novel Shear Stress-sensitive Genes in Human Endothelial Cells. PhD Dissertation, U Michigan.

Qiao, C., F. Meng, I. Jang, H. Jo, Y. Chen and J. Zhang. 2016. Deep transcriptomic profiling reveals the similarity between endothelial cells cultured under static and oscillatory shear stress conditions. *Physiol Genomics*, 48:660-666.

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HCF: Human Cardiac Fibroblasts

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HFLS: Human Fibroblast-Like Synoviocytes

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HFLS-RA: Human Fibroblast-Like Synoviocytes: Rheumatoid Arthritis

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HOb: Human Osteoblasts

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HPAd: Human Preadipocytes

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HPASMC: Human Pulmonary Artery Smooth Muscle Cells

Sahoo, S., D. Meijles, I. Ghoul, M. Tandon, E. Cifuentes-Pagano, J. Sembrat, M. Rojas, E. Goncharova and P. Pagano. 2016. **MEF2C-MYOC and Leiomod1 Suppression by miRNA-214 Promotes Smooth Muscle Cell Phenotype Switching in Pulmonary Arterial Hypertension.** *PLoS ONE* 11(5): e0153780

HPBB: Human Peripheral Blood B Cells

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HPBT: Human Peripheral Blood T Cells

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HRPTEpC: Human Renal Proximal Tubular Epithelial Cells

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HSkMC: Human Skeletal Muscle Cells

Duncan, D., T. Kamerzell and M. Palmer. 2016. **Use of Indole Compounds for Fat Reduction and Skin and Soft Tissue Tightening.** Patent Applications US 20160030389 A1.

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HTEpC: Human Tracheal Epithelial Cells

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HUASMC: Human Umbilical Artery Smooth Muscle Cells

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Human Endothelial Cells

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Human Endothelial Cell Media

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Pamarthy, S., L. Mao, G. Katara, S. Fleetwood, A. Kulshreshta, A. Gilman-Sachs and K. Beaman. 2016. The V-ATPase α 2 isoform controls mammary gland development through Notch and TGF- β signaling. *Cell Death & Dis*, 7:e2443.

2016 Publications

Human Mesenchymal Stem Cell Media

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Human MesoEndo Endothelial Cell Media

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RBMVEC: Rat Brain Microvascular Endothelial Cells

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