

2014 Publications

Anti-Ang-1 Ab

Wiles, J., R. Katchko, E. Benavides, C. O'Gorman, J. Escudero, D. Keisler, R. Stanko and M. Garcia. 2014. *The effect of leptin on luteal angiogenic factors during the luteal phase of the estrous cycle in goats.* *Animal Reprod Sci*, 148:121-129.

Anti-Bcl10 Ab

Conroy, B., T. Herek., T. Shew, M. Latner, J. Larson, L. Allen, P. Davis, T. Helikar, and C. Cutucache. 2014. *Design, Assessment, and in vivo Evaluation of a Computational Model Illustrating the Role of CAV1 in CD4+ T-lymphocytes.* *Front Immunol*, 5:599.

Anti-CD54: ICAM-1 Ab

Trauger, R. 2014. *Felinized Antibodies and Methods of Treating Retroviral Infections in Felines.* Patent Application US 20140348829 A1.

Anti-ER- α 36 Ab

Chaudhri, A. Hadadi, K. Lobachev, Z. Schwartz, and B. Boyan. 2014. *Estrogen receptor-alpha 36 mediates the anti-apoptotic effect of estradiol in triple negative breast cancer cells via a membrane-associated mechanism.* *BBA* 1843:2796–2806.

Anti-GluR3 Ab

Hausknecht, K., S. Haj-Dahmane, Y. Shen, P. Vezina, C. Dlugos, and R. Shen. 2014. *Excitatory Synaptic Function and Plasticity is Persistently Altered in Ventral Tegmental Area Dopamine Neurons after Prenatal Ethanol Exposure.* *Neuropsychopharmacology*, 6 October.

Anti-KCNN4 Ab

Wandall-Frostholm, C., L. Skaarup, V. Sadda, G. Nielsen, E. Hedegaard, S. Mogensen, R. Köhler and U. Simonsen. 2014. *Pulmonary Hypertension in Wild Type Mice and Animals with Genetic Deficit in $K_{Ca}2.3$ and $K_{Ca}3.1$ Channels.* *PLoS ONE*, dx.doi.org/10.1371/journal.pone.0097687.

Anti-phospho-EphA2 Ab

Staudacher, I., J. Jehle, K. Staudacher, H. Pledl, D. Lemke, P. Schweizer, R. Becker, H. Katus and D. Thomas. 2014. *Herg K^+ Channel-Dependent Apoptosis and Cell Cycle Arrest in Human Glioblastoma Cells.* *PLoS ONE*, doi.org/10.1371/journal.pone.0088164.

Anti-Phospho-IR β Tyr960 Ab

Jiang, Y., Q. Zhang, E. Ye and J. Steinle. 2014. *β 1-adrenergic receptor stimulation by agonist Compound 49b restores insulin receptor signal transduction in vivo.* *Molec Vision*, 20:872-880.

Jiang, Y., Q. Zhang, E. Ye and J. Steinle. 2014. *Etanercept restores normal insulin signal transduction in β 2-adrenergic receptor knockout mice.* *J Neuroinflammation*, DOI: 10.1186/s12974-014-0137-z.

Jiang, Y., S. Thakran, R. Bheemreddy, E. Ye, H. He, R. Walker and J. Steinle. 2014. *Pioglitazone Normalizes Insulin Signaling in the Diabetic Rat Retina through Reduction in Tumor Necrosis Factor α and Suppressor of Cytokine Signaling 3.* *J Biol Chem*, 289:26395-26405.

Anti-Phospho-VEGFR3 Ab

Chang, Y., C. Su, Y. Su, Y. Ho, H. Lai, H. Chen, M. Kuo, W. Hung, Y. Chen, C. Wu, P. Chen and J. Su. 2014. *Novel peptides suppress VEGFR-3 activity and antagonize VEGFR-3-mediated oncogenic effects.* *Oncotarget*, 5:3823-3835.

Gogate, P., E. Kurenova, M. Ethirajan, J. Liao, M. Yemma, A. Sen, R. Pandey, and W. Cance. 2014. *Targeting the C-terminal focal adhesion kinase scaffold in pancreatic cancer.* *Cancer Letters*, 353:281-289.

Anti-TAT Ab

Abudara, V., J. Bechberger, M. Freitas-Andrade, M. De Bock., N. Wang, G. Bultynck, C. Naus, L. Leybaert, and C. Giaume. 2014. *The connexin43 mimetic peptide Gap19 inhibits hemichannels without altering gap junctional communication in astrocytes.* *Front Cell Neurosci*, 8:306.

Anti-VEGFR3 Ab

Liu, J., Y. Cheng, M. He, and S. Yao. 2014. *Vascular endothelial growth factor C enhances cervical cancer cell invasiveness via upregulation of galectin-3 protein.* *Gynecological Endocrinology* 30:461-465.

2014 Publications

Anti-Phospho-VEGFR3 Ab

Chang, Y., C. Su, Y. Su, Y. Ho, H. Lai, H. Chen, M. Kuo, W. Hung, Y. Chen, C. Wu, P. Chen and J. Su. 2014. **Novel peptides suppress VEGFR-3 activity and antagonize VEGFR-3-mediated oncogenic effects.** *Oncotarget*, 5:3823-3835.

Gogate, P., E. Kurenova, M. Ethirajan, J. Liao, M. Yemma, A. Sen, R. Pandey, and W. Cance. 2014. **Targeting the C-terminal focal adhesion kinase scaffold in pancreatic cancer.** *Cancer Letters*, 353:281-289.

Schmieder, R., J. Hoffmann, M. Becker, A. Bhargava, T. T. Müller, N. Kahmann, P. Ellinghaus, R. Adams, A. Rosenthal, K. Thierauch, A. Scholz, S. Wilhelm, D. Zopf. 2014. **Regorafenib (BAY 73-4506): Antitumor and antimetastatic activities in preclinical models of colorectal cancer.** *Intl J Cancer*, 135:1487-1496.

Attachment, Matrix Solutions

Camós, S., C. Gubern, M. Sobrado, R. Rodriguez, V. Romera, M. Moro, I. Lizasoain, J. Serena, J. Mallolas and M. Castellanos. 2014. **The high-mobility group I-Y transcription factor is involved in cerebral ischemia and modulates the expression of angiogenic proteins.** *Neuroscience*, 269:112-130.

Carver, K., D. Lourim, A. Tryba and D. Harder. 2014. **Rhythmic expression of cytochrome P450 epoxygenases CYP4x1 and CYP2c11 in the rat brain and vasculature.** *Am J Physiol – Cell Physiol*, 307:C989-C998.

Quinn, M., M. McMillin, C. Galindo, G. Frampton, H. Pae and S. DeMorrow. 2014. **Bile acids permeabilize the blood brain barrier after bile duct ligation in rats via Rac1-dependent mechanisms.** *Digestive and Liver Disease*, 46:527-534.

Uzer, G., S. Pongkitwitoon, C. Ian, W. Thompson, J. Rubin, M. Chan, and S. Judex. 2014. **Gap junctional communication in osteocytes is amplified by Low intensity vibrations in vitro.** *PLoS ONE*, March 10.

BAOEC: Bovine Aortic Endothelial Cells

Bloom, A., and N. Winograd. 2014. **Dye-enhanced imaging of mammalian cells with SIMS.** *Surface and Interface Analysis*. 46:177-180.

Browning, M., V. Guiza, B. Russel, J. Rivera, S. Cereceres, M. Höök, M. Hahn, and E. Cosgriff-Hernandez. 2014. **Endothelial cell response to chemical, biological, and physical cues in bioactive hydrogels.** *Tissue Engineering Part A*, 20:3130-3141.

Hu, J., C. Hardy, C. Chen, S. Yang, A. Voloshin and Y. Liu. 2014. **Enhanced Cell Adhesion and Alignment on Micro-Wavy Patterned Surfaces.** *PLoS One*, dx.doi.org/10.1371/journal.pone.0104502. BAOEC

Gardner, C, J. Trisnadi, T. Kim, K. Brammer, L. Reiss, L. Chen and S. Jin. 2014. **Controlled metallic nanopillars for low impedance biomedical electrode.** *Acta Biomaterialia*, 10:2296-2303.

Juffermans, L., B. Meijering, R. Henning and L. Deelman. 2014. **Ultrasound and Microbubble-Targeted Delivery of Small Interfering RNA Into Primary Endothelial Cells Is More Effective Than Delivery of Plasmid DNA.** *Ultrasound in Med & Biol*, 40:532-540.

Miyashita, S., K. Niwa, T. Watanabe, and Y. Sagane. 2014. **Host-cell specificity and transcytosis of nontoxic nonhemagglutinin protein of botulinum neurotoxin serotype D.** *FEMS Microbiology Letters*, Online: 1 August.

Pun, P., A. Logan, V. Darley-Usmar, B. Chacko, M. Johnson, G. Huang, S. Rogatti, T. Prime, C. Methner, T. Krieg, I. Fearnley, L. Larsen, D. Larsen, K. Menger, Y. Collins, A. James, G. Kumar, R. Hartley, R. Smith and M. Murphy. 2014. **A mitochondria-targeted mass spectrometry probe to detect glyoxals: implications for diabetes.** *Free Rad Biol & Med*, 67:437-450.

Rahman, W., S. Corde, N. Yagi, S. Aziz, N. Annabell, and M. Geso. 2014. **Optimal energy for cell radiosensitivity enhancement by gold nanoparticles using synchrotron-based monoenergetic photon beams.** *International Journal of Nanomedicine*, 9:2459–2467.

Ruan, T. 2014. **Endogenous Ceramide Contributes to Cardiovascular Complications in Type II Diabetes by Decreasing the Association between PP2A and I2PP2A.** Senior Honors Thesis, University of Utah.

Shatanawi, A., M. Gharaibeh, R. Caldwell and R. Caldwell. 2014. **High Glucose Upregulates Arginase 1 and Decreases Nitric Oxide Production through ATF-2 and c-Jun Transcription Factors.** *Life Sci J*, 11:374-379.

2014 Publications

Slee, J. 2014. *Elucidating the Anti-Inflammatory Roles of Heparin and Shear Stress in Atherosclerosis*. PhD Dissertation, Lehigh U.

Weibull, E., S. Matsui, H. Svahn and T. Ohashi. 2014. *A microfluidic device towards shear stress analysis of clonal expanded endothelial cells*. *J Biomech Sci & Eng*, 9: p. JBSE006.

BAOSMC: Bovine Aortic Smooth Muscle Cells

Mathura, R., S. Russell-Puleri, L. Cancel, and J. Tarbell. 2014. *Hydraulic Conductivity of Endothelial Cell-Initiated Arterial Cocultures*. *Annals of Biomedical Engineering*, 42:763-775.

Slee, J. 2014. *Elucidating the Anti-Inflammatory Roles of Heparin and Shear Stress in Atherosclerosis*. PhD Dissertation, Lehigh U.

BBMVEC: Bovine Brain Microvascular Endothelial Cells

Mathew, J. 2014. *The growth factor effect on endothelial cell dysfunction in the presence of glycosylated collagen and A β peptide: implications for decreased angiogenesis in diabetes and Alzheimer's disease*. Drexel University, PhD Thesis.

Bovine Endothelial Cell Media

Shatanawi, A., M. Gharaibeh, R. Caldwell and R. Caldwell. 2014. *High Glucose Upregulates Arginase 1 and Decreases Nitric Oxide Production through ATF-2 and c-Jun Transcription Factors*. *Life Sci J*, 11:374-379.

Slee, J. 2014. *Elucidating the Anti-Inflammatory Roles of Heparin and Shear Stress in Atherosclerosis*. PhD Dissertation, Lehigh U.

Bovine Fibroblast Media

Cong, S., G. Cao and D. Liu. 2014. *Effects of different feeder layers on culture of bovine embryonic stem cell-like cells in vitro*. *Cytotechnology*, 66:995-1005.

Bovine Insulin

Chaudhury, A., N. Kongchan, J. Gengler, V. Mohanty, A. Christiansen, J. Fachini, J. Martin and J. Neilson. 2014. *A piggyBac-based reporter system for scalable in vitro and in vivo analysis of 3' untranslated region-mediated gene regulation*. *Nucleic Acids Res*, 42:e86.

Höfig, I. S. Barth, M. Salomon, V. Jagusch, M. Atkinson, N. Anastasov, and C. Thirion. 2014. *Systematic improvement of lentivirus transduction protocols by antibody fragments fused to VSV-G as envelope glycoprotein*. *Biomaterials*, 35:4204-4212.

Kooistra, R. 2014. *Functional Characterization of a Novel Thioredoxin Domain-Containing Protein of the Malaria Parasite Plasmodium*. Loyola U, MS Thesis, http://ecommons.luc.edu/luc_theses/2506.

Kumar, S., D. Kumar, K. Raina, R. Agarwal, and C. Agarwal. 2014. *Functional modification of adipocytes by grape seed extract impairs their pro-tumorigenic signaling on colon cancer stem cells and the daughter cancer cells*. *Oncotarget*, 5:10151-10169.

Tomblin, J. and T. Salisbury. 2014. *Insulin like growth factor 2 regulation of aryl hydrocarbon receptor in MCF-7 breast cancer cells*. *BBRC*, 443:1096-1098.

BPAEC: Bovine Pulmonary Artery Endothelial Cells

Kondrikov, D., C. Gross, S. Black and Y. Su. 2014. *Novel Peptide for Attenuation of Hyperoxia-induced Disruption of Lung Endothelial Barrier and Pulmonary Edema via Modulating Peroxynitrite Formation*. *J Biol Chem*, 289:33355-33363.

BPASMC: Bovine Pulmonary Artery Smooth Muscle Cells

Chowdhury, A., S. Roy, T. Chakraborti, K. Dey and S. Chakraborti. 2014. *Activation of proMMP-2 by U46619 occurs via involvement of p³⁸MAPK-NF κ B-MT1MMP signaling pathway in pulmonary artery smooth muscle cells*. *Molec & Cell Biochem*, 385:53-68.

Rahaman, S., K. Dey, P. Das, S. Roy, T. Chakraborti and S. Chakraborti. 2014. *Identification, purification and partial characterization of low molecular weight protein inhibitor of Na⁺/K⁺-ATPase from pulmonary artery smooth muscle cells*. *Molec & Cellular Biol*, 393:309-317.

CADMEC/HMVEC: Human Dermal Microvascular Endothelial Cells

Termini, C., M. Cotter, K. Marjon, T. Buranda, K. Lidke and J. Gillette. 2014. *The membrane scaffold CD82 regulates cell adhesion by altering α 4 integrin stability and molecular density*. *Mol Biol Cell*, 25:1560-1573.

2014 Publications

Canine Adipocyte Differentiation Medium

2014

Quintanilha, L., T. Takami, Y. Hirose, K. Fujisawa, Y. Murata, N. Yamamoto, R. Goldenberg, S. Terai and I Sakaida. 2014. *Canine mesenchymal stem cells show antioxidant properties against thioacetamide-induced liver injury in vitro and in vivo*. *Hepatology Res*, 44:E206-E217.

Cell RNA

Yamashita, A., M. Morioka, H. Kishi, T. Kimura, Y. Yahara, M. Okada, K. Fujita, H. Sawai, S. Ikegawa, and N. Tsumaki. 2014. *Statin treatment rescues FGFR3 skeletal dysplasia phenotypes*. *Nature*, 513:507-511.

Chondrocyte Growth Medium

Stacey, M. A. Sabuncu, and A. Beskok. 2014. *Dielectric characterization of costal cartilage chondrocytes*. *Biochimica et Biophysica Acta*, 1840:146-152.

Classical Media

Davidowitz, R., L. Selfors, M. Iwanicki, K. Elias, A. Karst, H. Piao, T. Ince, M. Drage, J. Dering, G. Konecny, U. Matulonis, G. Mills, D. Slamon, R. Drapkin and J. Brugge. 2014. *Mesenchymal gene program-expressing ovarian cancer spheroids exhibit enhanced mesothelial clearance*. *J Clin Invest*, 124:2611-2625.

Stein, J., C. Iwuchukwu, K. Maier and V. Gahtan. 2014. *Thrombospondin-1-induced vascular smooth muscle cell migration and proliferation are functionally dependent on microRNA-21*. *Surgery*, 155:228-233.

CnAOEC: Canine Aortic Endothelial Cells

Monginoux, P., H. Gatto, C. Karst, and F. Waldenberger. 2014. *Products for oral administration comprising extracts of punica granatum (pomegranate), intended for a pet, and applications of same*. Patent Application US 20140335180 A1.

CnAOSMC: Canine Aortic Smooth Muscle Cells

Kiyan, Y., S. Tkachuk, D. Hilfker-Kleiner, H. Haller, B. Fuhrman, and Inna Dumler. 2014. *oxLDL induces inflammatory responses in vascular smooth muscle cells via urokinase receptor association with CD36 and TLR4*. *J Molec & Cell Cardiol*, 66:72-82.

CnMSC: Canine Marrow Stromal Cells

Nakajima, R., M. Ono, E. Hara, Y. Oida, S. Shinkawa, H. Pham, K. Akiyama, W. Sonoyama, K. Maekawa, and T. Kuboki. 2014. *Mesenchymal stem/progenitor cell Isolation from tooth Extraction sockets*, *J Dental Research*, 39:1133-1140.

CnOb: Canine Osteoblasts

Quintanilha, L., T. Takami, Y. Hirose, K. Fujisawa, Y. Murata, N. Yamamoto, R. Goldenberg, S. Terai and I Sakaida. 2014. *Canine mesenchymal stem cells show antioxidant properties against thioacetamide-induced liver injury in vitro and in vivo*. *Hepatology Res*, 44:E206-E217.

EC: Endothelial Cells

Gardner A., D. Parker, P. Montgomery, D. Sosnowska, A. Casanegra, Z. Ungvari, A. Csiszar, and W. Sonntag. 2014. *Greater endothelial apoptosis and oxidative stress in patients with peripheral artery disease*. *International Journal of Vascular Medicine*, Article ID 160534.

Gardner, A., D. Parker, P. Montgomery, D. Sosnowksa, A. Casanegra, O. Esponda, Z. Ungvari, A. Csiszar, and W. Sonntag. 2014. *Impaired vascular endothelial growth factor A and inflammation in patients with peripheral artery disease*. *Angiology*, January 20. 0003319714566863.

Haselmayer, P. M. Camps, M. Muzerelle, S. Bawab, C. Waltzinger, L. Bruns, N. Abl, M. Polokoff, C. Jond-Necand, M. Gaudet, A. Benoit, D. Meier, C. Martin, D. Gretener, M. Lombardi, R. Grenningloh, C. Ladel, J. Petersen, P. Gaillard, and H. Ji. 2014. *Characterization of novel PI3K α inhibitors as potential therapeutics for SLE and lupus nephritis in pre-clinical studies*. *Front Immunol*, 5:233.

Endothelial Cell Basal Medium

Tucsek, A., P. Toth, S. Tarantini, D. Sosnowska, T. Gautam, J. Warrington, C. Giles, J. Wren, A. Koller, P. Ballabh, W. Sonntag, Z. Ungvari, and A. Csiszar. 2014. *Aging exacerbates obesity-induced cerebrovascular rarefaction, neurovascular uncoupling, and cognitive decline in mice*. *J Gerontol A Biol Sci Med Sci*, June 3.

2014 Publications

Endothelial Cell Growth Medium

He, P., G. Srikrishna, and H. Freeze. 2014. N-glycosylation deficiency reduces ICAM-1 induction and impairs inflammatory response. *Glycobiology* 24:392-398.

FBS: Fetal Bovine Serum

Kooistra, R. 2014. Functional Characterization of a Novel Thioredoxin Domain-Containing Protein of the Malaria Parasite Plasmodium. Loyola U, MS Thesis, http://ecommons.luc.edu/luc_theses/2506

Fibroblast Growth Medium

Singh., M. and X. Ma. 2014. In Vitro Culture of Fibroblast-Like Cells From Sheep Ear Skin Stored at 25-26° C for 10 Days After Animal Death. *Intl J Biol*, Vol 6.

Fibroblast Medium

Okonkwo, C., and M. Singh. 2014. Recovery of fibroblast-like cells from refrigerated goat skin up to 41 d of animal death. *In Vitro Cellular & Developmental Biology – Animal*, December 25.

HA: Human Astrocytes

Taguchia, C., M. Inazub, I. Saikia, M. Yaraa, N. Haraa, T. Yamanakac, and H. Uchinoa. 2014. Functional analysis of [methyl-3 H] choline uptake in glioblastoma cells: Influence of anti-cancer and central nervous system drugs. *Biochemical Pharmacology*, 88:303–312.

HAOEC: Human Aortic Endothelial Cells

Chang, M., C. Tsao, W. Huang, P. Chen, and S. Hung. 2014. Conditioned medium derived from mesenchymal stem cells overexpressing HPV16 E6E7 dramatically improves ischemic limb. *Journal of Molecular and Cellular Cardiology*, 72:339–349.

Fu, X., X. Huang, P. Li, W. Chen, and M. Xia. 2014. 7-Ketocholesterol inhibits isocitrate dehydrogenase 2 expression and impairs endothelial function via microRNA-144. *Free Radical Biology and Medicine*, 71:1-15.

Gardner, A., D. Parker, P. Montgomery, D. Sosnowska, A. Casanegra, Z. Ungvari, A. Csiszar, and W. Sonntag. 2014. Gender and racial differences in endothelial oxidative stress and inflammation in patients with symptomatic peripheral artery disease. *Journal of Vascular Surgery*, 3 April.

Habib, A., V. Karmali, M. John, R. Polavarapu, G. Nakazawa, K. Pachura, T. Davis, F. Kolodgie, R. Virmani and A. Finn. 2014. Everolimus-Eluting Stents Improve Vascular Response in a Diabetic Animal Model. *Circulation: Cardiovascular Interventions*, 7:526-532.

Liu, Y., D. Li, Y. Zhang, R. Sun and M. Xia. 2014. Anthocyanin increases adiponectin secretion and protects against diabetes-related endothelial dysfunction. *Am J Physiol – Endocrinol & Metab*, 306:E9.

Tian, S., X. Ge, K. Wu, H. Yang and Y. Liu. 2014. Ramipril Protects the Endothelium from High Glucose-Induced Dysfunction through CaMKK β /AMPK and Heme Oxygenase-1 Activation. *J Pharmacol & Exp Ther*, 350:5-13.

Wang, H., Y. Huang, Y. Shih, H. W, C. Peng, and W. Lo. 2014. MicroRNA-146a decreases high glucose/thrombin-induced endothelial inflammation by inhibiting NAPDH oxidase 4 expression. *Mediators of Inflammation*, Volume 2014, Article ID 379537.

HAOSMC: Human Aortic Smooth Muscle Cells

Lavanya, V., C. Bashur and A. Ramamurthi. 2014. Impact of Cyclic Stretch on Induced Elastogenesis Within Collagenous Conduits. *Tiss Eng Pt A*, 20:1403-1415.

Seymour, K., J. Stein, X. Han, K. Maier, and V. Gahtan. 2014. Statins and Nitric Oxide Donors Affect Thrombospondin 1-Induced Chemotaxis. *Vasc Endovascular Surg*, 48:470-475.

Stein, J., C. Iwuchukwu, K. Maier and V. Gahtan. 2014. Thrombospondin-1-induced vascular smooth muscle cell migration and proliferation are functionally dependent on microRNA-21. *Surgery*, 155:228-233.

Venkataraman, L, B. Sivaraman, P. Vaidya and A. Ramamurthi. 2014. Nanoparticulate delivery of agents for induced elastogenesis in three-dimensional collagenous matrices. *J Tiss Eng & Regen Med*, DOI: 10.1002/term.1889.

2014 Publications

HBEpC: Human Bronchial Epithelial Cells

Chen, H., M. Angel, W. Li, C. Finch, A. Gonzalez, T. Sutton, J. Santos, and D. Perez. 2014. **All-in-One Bacmids: an Efficient Reverse Genetics Strategy for Influenza A Virus Vaccines**. *J Virol*, 88:10013-10025.

Chen, H., M. Angel, W. Li, C. Finch, A. Gonzalez, T. Sutton, J. Santos, and D. Perez. 2014. **All-in-One Bacmids: an Efficient Reverse**. *J Virol*, 88:10013.

Fischer, D., R. Janssen, M. Roseboom, A. Scaffidi, and M. Tessari. 2014. **Methods for identifying and compounds useful for increasing the functional activity and cell surface expression of CF-associated mutant cystic fibrosis transmembrane conductance regulator**. Patent US 8765376 B2.

Haselmayer, P., M. Camps, M. Muzerelle, S. El_bawab, C. Waltzinger, L. Bruns, N. Abla, M. Polokoff, C. Jond-necand, and M. Gaudet. 2014. **Characterization of novel PI3K δ inhibitors as potential therapeutics for SLE and lupus nephritis in pre-clinical studies**. Name: *Frontiers in Immunology*. 5:233.

Hattori, S., K. Kojima, K. Minoshima, M. Yamaha, M. Horie, T. Sawamura, A. Kikuchi, and T. Deguchi. 2014. **Detection of bladder cancer by measuring CD44v6 expression in urine with real-time quantitative reverse transcription polymerase chain reaction**. *Urology*, 83:1443.e9-1443.e15.

Gaillard, and H. Ji. 2014. **Characterization of novel PI3K δ inhibitors as potential therapeutics for SLE and lupus nephritis in pre-clinical studies**. *Front Immunol*, 5:233.

Nasreen, N., L. Gonzalves, S. Peruvemba and K. Mohammed. 2014. **Fluticasone furoate is more effective than mometasone furoate in restoring tobacco smoke inhibited SOCS-3 expression in airway epithelial cells**. *Intl Immunopharmacol*, 19:153-160.

Prakash, S., S. Agrawal, H. Vahed, M. Ngyuen, L. BenMohamad, S. Gupta and A. Agrawal. 2014. **Dendritic cells from aged subjects contribute to chronic airway inflammation by activating bronchial epithelial cells under steady state**. *Mucosal Immunol*, 7:1386-1394.

Tripathi, B., X. Qian, P. Mertins, D. Wang, A. Papageorge, S. Carr, and D. Lowy. 2014. **CDK5 is a major regulator of the tumor suppressor DLC1**. *JCB*, 207:627-642.

Voiles, L., D. Lewis, L. Han, I. Lupov, T. Lin, M. Robertson, I. Petrache and H. Chang. 2014. **Overexpression of type VI collagen in neoplastic lung tissues**. *Oncology Reports*, 32:1897-1904.

HC: Human Chondrocytes

Balasundaram, G. D. Storey, and T. Webster. 2014. **Novel nano-rough polymers for cartilage tissue engineering**. *Intl J Nanomedicine*. 9:1845-1853.

Chuang, Y. W. Chang, K. Chen, C. Hong, P. Chang and H. Hsu. 2014. **Lysophosphatidic Acid Enhanced the Angiogenic Capability of Human Chondrocytes by Regulating Gi/NF-kB-Dependent Angiogenic Factor Expression**. *PLoS ONE*, dx.doi.org/10.1371/journal.pone.0095180.

Hashizume, M. and M. Mihara. 2014. **Combination of High-Molecular-Weight Hyaluronic Acid and Cytokine Inhibitor Potently Inhibits Expression of Joint-Damage-Related Genes Induced By Synovial Fluid of RA Patients**. *J Arthritis*, 3:1.

Rolfes, E., J. Ross, J. McGonigle, G. Opperman and S. Chudzik. 2014. **Poly- α (1 \rightarrow 4)glucopyranose-based matrices with hydrazide crosslinking**. Patent US8790701 B2.

Song, J., C. Ahn, C. Chun and E. Jin. 2014. **A long non-coding RNA, GAS5, plays a critical role in the regulation of miR-21 during osteoarthritis**. *J Orthopaedic Res*, 32:1628-1635.

Varnum, B., C. Vezina, A. Witte, X. Qian, F. Martin, H. Huang, and G. Elliott. 2014. **THERAPEUTIC HUMAN ANTI-IL-1R1 MONOCLONAL ANTIBODY**. Patent Application 20140335099.

Varnum, B., C. Vezina, A. Witte, X. Qian, F. Martin, H. Huang, and G. Elliott. 2014. **Therapeutic human anti-IL-1R1 monoclonal antibody**. Patent US 8710203 B2.

HC-OA

Song, J., C. Ahn, C. Chun and E. Jin. 2014. **A long non-coding RNA, GAS5, plays a critical role in the regulation of miR-21 during osteoarthritis**. *J Orthopaedic Res*, 32:1628-1635.

2014 Publications

HCAEC: Human Coronary Artery Endothelial Cells

Cakan, Y. 2014. Effects of corticosteroid treatment on high-density lipoprotein distribution and function. U Sydney, PhD Thesis, <http://hdl.handle.net/2123/12153>.

dela Paz, N., B. Melchior, F. Shayo, and J. Frangos. 2014. Heparan sulfates mediate the interaction between platelet endothelial cell adhesion molecule-1 (PECAM-1) and the Gαq/11 subunits of heterotrimeric G proteins. *J Biol Chem*, 289:7413-7424.

Dela Paz, N., B. Melchior, F. Shayo, and J. Frangos. 2014. Heparan Sulfates Mediate the Interaction Between PECAM-1 and the Gαq/11 Subunits of Heterotrimeric G Proteins. *JBC*, 289:7413-7424.

Gardner, A.W., D.E. Parker, P.S. Montgomery, D. Sosnowska, A.I. Casanegra, Z. Ungvari, A. Csiszar, and W.E. Sonntag. 2014. Gender and racial differences in endothelial oxidative stress and inflammation in patients with symptomatic peripheral artery disease. *Journal of Vascular Surgery*: 10.1016/j.jvs.2014.02.045.

Jihan, T., K. Jair, S.R. Aldwin, K.W. Paul, and J.D. Michael. 2014. The smoking-associated oxidant hypothiocyanous acid induces endothelial nitric oxide synthase dysfunction. *Biochemical Journal*. 457:89-97.

Johnson, T., J. DeQuach, R. Gaetani, J. Ungerleider, D. Elhag, V. Nigam, A. Behford, and K. Christman. 2014. Human versus porcine tissue sourcing for an injectable myocardial matrix hydrogel. *Biomater. Sci*. 2:735-744.

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HCASMC: Human Coronary Artery Smooth Muscle Cells

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HCF: Human Cardiac Fibroblasts

Ichiki, T., J. Schirger, B. Huntley, F. Brozovich, J. Maleszewski, S. Sandberg, S. Sangaralingham, S. Park, and J. Burnett. 2014. **Cardiac fibrosis in end-stage human heart failure and the cardiac natriuretic peptide guanylyl cyclase system: Regulation and therapeutic implications.** *J Molecular and Cellular Cardiol*, 75:199-205.

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HCtAEC: Human Carotid Artery Endothelial Cells

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HCvEpC: Human Cervical Epithelial Cells

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HDF: Human Dermal Fibroblasts

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HDLMVEC: Human Dermal Lymphatic Microvascular Endothelial Cells

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HEM: Human Epidermal Melanocytes

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Calabro, A., M. Lauer, and V. Hascall. 2014. *Treatment of extracellular matrix to reduce inflammation*. Patent US 8658593 B2.

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

Allan, B., A. Glasebrook, J. Lu, Y. Tang, D. Witcher, D. Leung, P. Yachi, and A. Vendel. 2014. *Anti-tnf-anti-il-17 bispecific antibodies*. Patent Application US 20140255406 A1.

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HiPSC: Human Induced Pluripotent Stem Cells

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HITASMC: Human Internal Thoracic Artery Smooth Muscle Cells

Lange, M., T. Fujikawa, A. Koulova, S. Kang, M. Griffin, A. Lassaletta, A. Erat., E. Tobiash, C. Bianchi, N. Elmadhun, F. Selke, and A. Usheva. 2014. **Arterial territory-specific phosphorylated retinoblastoma protein species and CDK2 promote differences in the vascular smooth muscle cell response to mitogens.** Cell Cycle, 13:315-323.

HLF: Human Lung Fibroblasts

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HLMVEC: Human Lung Microvascular Endothelial Cells

Li, C., M. Mpollo, C. Gonsalves, S. Tahara, P. Malik and V. Kalra. 2014. **Peroxisome Proliferator-activated Receptor- α -mediated Transcription of miR-199a2 Attenuates Endothelin-1 Expression via Hypoxia-inducible Factor-1 α .** J Biol Chem, 289:36031-36047.

HMEpC: Human Mammary Epithelial Cells

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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

Ibrahim, Y., C. Wong, L. Pavlickova, L. Liu, L. Trasar, G. Bansal, and Y. Suzuki. 2014. Mechanism of the Susceptibility of Remodeled Pulmonary Vessels to Drug-Induced Cell Killing. *J Am Heart Assoc*, 3: e000520. Feb 26.

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HRPTEpC: Human Renal Proximal Tubular Epithelial Cells

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Human Bronchial/Tracheal Epithelial Cell Media

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Human CADMEC Medium

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Human Cervical Epithelial Cell Media

Zhao, B., X. Shang, L. Xu, W. Zhang, and G. Xiang. 2014. *Novel mixed ligand di-n-butyltin(IV) complexes derived from acylpyrazolones and fluorinated benzoic acids: Synthesis, characterization, cytotoxicity and the induction of apoptosis in Hela cancer cells.* European Journal of Medicinal Chemistry, 76:87-97.

Human Chondrocyte Differentiation Medium

Brys, R., L. Nelles, N. Vandeghinste, B. Mille-Baker and M. Tessari. 2014. *Methods and means for treatment of osteoarthritis.* Patent US 8663930 B2.

Human Chondrocyte Media

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Song, J., C. Ahn, C. Chun and E. Jin. 2014. *A long non-coding RNA, GAS5, plays a critical role in the regulation of miR-21 during osteoarthritis.* J Orthopaedic Res, 32:1628-1635.

Human Dermal Fibroblast Media

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Human Endothelial Cell Media

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Sasahira, T. N. Ueda, K. Yamamoto, M. Kurihara, S. Matsushima, U. Bhawal, T. Kirita and H. Kuniyasu. 2014. **Prox1 and FOXC2 Act as Regulators of Lymphangiogenesis and Angiogenesis in Oral Squamous Cell Carcinoma**. PLoS ONE, dx.doi.org/10.1371/journal.pone.0092534.

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Wang, X., A. Zachman, Y. Chun, F. Shen, Y. Hwang and H. Sung. 2014. **Polymeric stent materials dysregulate macrophage and endothelial cell functions: Implications for coronary artery stent**. Intl J Cardiol, 174:688-695.

Human Growth Hormone ELISA Kit

Matz-Soja, M, S. Aleithe, E. Marbach, J. Böttger, K. Arnold, W. Schmidt-Heck, J. Kratzsch and R. Gebhardt. 2014. **Hepatic Hedgehog signaling contributes to the regulation of IGF1 and IGFBP1 serum levels**. Cell Comm & Signaling, DOI: 10.1186/1478-811X-12-11.

Human IGF-1 ELISA Kit

Matz-Soja, M, S. Aleithe, E. Marbach, J. Böttger, K. Arnold, W. Schmidt-Heck, J. Kratzsch and R. Gebhardt. 2014. **Hepatic Hedgehog signaling contributes to the regulation of IGF1 and IGFBP1 serum levels**. Cell Comm & Signaling, DOI: 10.1186/1478-811X-12-11.

Human IGFBP-1 ELISA Kit

Matz-Soja, M, S. Aleithe, E. Marbach, J. Böttger, K. Arnold, W. Schmidt-Heck, J. Kratzsch and R. Gebhardt. 2014. **Hepatic Hedgehog signaling contributes to the regulation of IGF1 and IGFBP1 serum levels**. Cell Comm & Signaling, DOI: 10.1186/1478-811X-12-11.

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Human Mammary Epithelial Cell Media

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