

2015 Publications

Anti-ADRB3 Ab

Davis, E., E. Salisbury, A. Davis, and Z. Gugala. 2015. *Perineurium Derived Adult Stem Cells and Methods of Use*. Patent Application US 20150159135 A1.

Anti-AGER: RAGE Ab

Chen, P., H. Gregersen, and J. Zhao. 2015. *Advanced glycation end-product expression is upregulated in the gastrointestinal tract of type 2 diabetic rats*. *World Journal of Diabetes*, 6:662-672.

Anti-CD133 Ab

Bhummaphan, N. and P. Chanvorachote. 2015. *Gigantol Suppresses Cancer Stem Cell-Like Phenotypes in Lung Cancer Cells*. *Evidence-Based Complementary & Alt Med*, Article ID 836564.

Kiratipaiboon, C., P. Tengamnuy and P. Chanvorachote. 2015. *Ciprofloxacin improves the stemness of human dermal papilla cells*. Manuscript.

Kiratipaiboon, C., P. Tengamnuy and P. Chanvorachote. 2015. *Glycyrrhizic acid attenuates stem cell-like phenotypes of human dermal papilla cells*. *Phytomedicine*, 22:1269-1278.

Tawinwung, S., C. Ninsontia and P. Chanvorachote. 2015. *Angiotensin II Increases Cancer Stem Cell-like Phenotype in Lung Cancer Cells*. *Anticancer Research*, 35:4789-4797.

Yongsanguanchai, N., V. Pongrakhananon, A. Mutirangura, Y. Rojanasakul and P. Chanvorachote. 2015. *Nitric oxide induces cancer stem cell-like phenotypes in human lung cancer cells*. 308:C89-100.

Anti-CtBP2 Ab

Chumak, T., L. Rüttiger, S. Lee, D. Campanelli, A. Zuccotti, W. Singer, J. Popelář, K. Gutsche, H. Geisler, S. Schraven, M. Jaumann, R. Panford-Walsh, J. Hu, T. Schimmang, U. Zimmermann, J. Syka and M. Knipper. 2015. *BDNF in Lower Brain Parts Modifies Auditory Fiber Activity to Gain Fidelity but Increases the Risk for Generation of Central Noise After Injury*. *Molec Neurobiol*, 53:5607-5627.

Singer, W., H. Geisler, R. Panford-Walsh and M. Knipper. 2016. *Detection of Excitatory and Inhibitory Synapses in the Auditory System Using Fluorescence Immunohistochemistry and High-Resolution Fluorescence Microscopy*. *Meth Molec Biol*, 1427:263-276.

Anti-ER α 36 Ab

Pisolato, P., A. Lombardi, C. Vincente, T. Lucas, M. Lazari and C. Porto. 2015. *Expression and regulation of the estrogen receptors in PC-3 human prostate cancer cells*. *Steroids*, doi:10.1016/j.steroids.2015.12.021.

Anti-Insulin Receptor β Phospho-Tyr960

Ye, E. and J. Steinle. 2015. *miR-15b/16 protects primary human retinal microvascular endothelial cells against hyperglycemia-induced increases in tumor necrosis factor alpha and suppressor of cytokine signaling 3*. *J Neuroinflammation*, 12:44.

Anti-Myostatin Ab

Wang, D., Y. Yang, R. Huang, Z. Zhang and X. Lin. 2015. *Myostatin Activates the Ubiquitin-Proteasome and Autophagy-Lysosome Systems Contributing to Muscle Wasting in Chronic Kidney Disease*. *Oxidative Med & Cell Longevity*, Article ID 684965.

Anti-Phospho-CDK5 Tyr15

Morey, T., R. Roufayel, D. Johnston, A. Fletcher and D. Mosser. 2015. *Heat Shock Inhibition of CDK5 Increases NOXA Levels through miR-23a Repression*. *J Biol Chem*, 290:11443-11454.

Roufayel, R. *Regulation of Heat-Induced Apoptosis by Loss of miR-23a-Dependent Control of Noxa in Human Cells and its Suppression by HSP70*. PhD Thesis, The University of Guelph.

Anti-Phospho- α -Synuclein Ab

Cairns, N., R. Perrin, E. Franklin, D. Carter, B. Vincent, M. Xie, R. Bateman, T. Benzinger, K. Friedrichsen, W. Brooks, G. Halliday, C. McLean, B. Ghitti and J. Morris. *Neuropathologic assessment of participants in two multi-center longitudinal observational studies: the Alzheimer Disease Neuroimaging Initiative (ADNI) and the Dominantly Inherited Alzheimer Network (DIAN)*. *J Japanese Soc Neuropath* 35:390-400.

2015 Publications

Franklin, E., R. Perrin, B. Vincent, M. Baxter, J. Morris, and N. Cairns. 2015. Brain collection, standardized neuropathologic assessment, and comorbidity in Alzheimer's Disease Neuroimaging Initiative 2 participants. *Alzheimer's & Dementia*, 11:815-822.

Anti-Phospho-PKC Zeta Ab

An, K., C. Zhen, Z. Liu, Q. Zhao, H. Liu, X. Zhong, and W. Huang. 2015. Spinal protein kinase M ζ contributes to the maintenance of peripheral inflammation-primed persistent nociceptive sensitization after plantar incision. *Eu J Pain*, 19:39-47.

Anti-PRMT6 Ab

2015

Luo, M., Y. Li, H. Guo, S. Lin, J. Chen, Q. Ma, Y. Gu, Z. Jiang and Y. Gui. 2015. Protein Arginine Methyltransferase 6 Involved in Germ Cell Viability during Spermatogenesis and Down-Regulated by the Androgen Receptor. *Int J Mol Sci*, 16:29467-29481.

Anti-VEGFR3 Ab

Stewart, J., X. Ma, M. Megison, H. Nabers, W. Cance, E. Kurenova, and E. Beierle. 2015. Inhibition of FAK and VEGFR-3 binding decreases tumorigenicity in neuroblastoma. *Molecular Carcinogenesis*, 54:9-23.

Attachment / Matrix Solutions

2015

Colacino, K., C. Arena, S. Dong, M. Roman, R. Davalos and Y. Lee. 2015. Folate Conjugated Cellulose Nanocrystals Potentiate Irreversible Electroporation-induced Cytotoxicity for the Selective Treatment of Cancer Cells. *Technol Cancer Res Treat*, 14:757-766.

González-Miguel, J., R. Morchón, E. Carretón, J. Montoya-Alonso and F. Simón. 2015. Can the activation of plasminogen/plasmin system of the host by metabolic products of *Dirofilaria immitis* participate in heartworm disease endarteritis? *Parasites & Vectors*, 8:194.

Kim, S., E. Choi, H. Lee, C. Moon, and E. Kim. 2015. Transthyretin as a new transporter of nanoparticles for receptor-mediated transcytosis in rat brain microvessels. *Colloids and Surfaces B: Biointerfaces*, 136:989-996.

Passineau, M., S. Murali, R. Benza, and J. Pollett. 2015. ISOLATION OF PULMONARY ARTERIAL ENDOTHELIAL CELLS FROM PATIENTS WITH PULMONARY VASCULAR DISEASE AND USES THEREOF. Patent Application US 20150219631 A1.

BAOEC: Bovine Aortic Endothelial Cells

Crowe, M., C. Lieven, A. Thompson, N. Sheibani, and L. Levin. 2015. Borane-protected Phosphines are redox-active radioprotective Agents for endothelial Cells. *Redox Biology*, 6:73-79.

Esch, C., D. Hui, R. Lee and J. Edwards. 2015. Quantitation of thiol metabolites from mammalian cells using fluoruous tagging and HILIC-MS. *Analytical Methods*, 7:7164-7169.

Guo, B., J. Wei, K. Su, A. Chiang, J. Zhao, H. Chen, S. Shyue and T. Lee. 2015. Transient receptor potential vanilloid type 1 is vital for (-)-epigallocatechin-3-gallate mediated activation of endothelial nitric oxide synthase. *Mol Nutr Food Res*, 59:646-657. BAOEC

Hu, J. and Y. Liu. 2015. Cyclic strain enhances cellular uptake of nanoparticles. *J Nanomaterials*, 16:1-8.

Shatanawi, A., T. Lemtalsi, L. Yao, C. Patel, R. Caldwell and R. Caldwell. 2015. Angiotensin II limits NO production by upregulating arginase through a p38 MAPK-ATF-2 pathway. *EU J Pharmacol*, 746:106-114.

Viator, R., H. Khader, N. Hingorani, S. Long, V. Solodushko and B. Fouty. 2015. Hypoxia-induced increases in glucose uptake do not cause oxidative injury or advanced glycation end-product (AGE) formation in vascular endothelial cells. *Physiological Reports*, 3:e12460.

BAOSMC: Bovine Aortic Smooth Muscle Cells

Yu, Y. 2015. Cell Impedance Sensing System Based on Vertically Aligned Carbon Nanofibers. MS Thesis, University of Tennessee - Knoxville.

2015 Publications

BBMVEC: Bovine Brain Microvascular Endothelial Cells

Borros Gomez, S., F Rivero Monso and A. Cascante Cirera. 2016. **POLYPEPTIDES FOR BLOOD BRAIN BARRIER TRANSPORT**. Patent Application US 20150376237 A1.

Kandimalla, K. 2015. **NANOPARTICLES/THERANOSTIC VEHICLES**. US Patent Application 20150078995 A1.

BCAEC: Bovine Coronary Artery Endothelial Cells

Moreno-Ulload, A., D. Mendez-Luna, E. Beltran-Partida, C. Castillo, G. Guevara, I. Ramirez-Sanchez, J. Correa-Basurto, G. Ceballos, and F. Villarreal. 2015. **The effects of (-)-epicatechin on endothelial cells involve the G protein-coupled estrogen receptor (GPER)**. *Pharmacological Research*, doi:10.1016/j.phrs.2015.08.014.

Takizawa, Y., R. Nakata, K. Fukuhara, H. Yamashita, H. Kubodera and H. Inoue. 2015. **The 4-Hydroxyl Group of Resveratrol Is Functionally Important for Direct Activation of PPAR α** . *PLoS ONE* 10(3): e0120865.

Varela, C., E. Fromentin, M. Roller, F. Villarreal, and I. Ramirez-Sanchez. 2015. **Effects of a Natural Extract of Aronia melanocarpa Berry on Endothelial Cell Nitric Oxide Production**. *J Food Biochem*, doi: 10.1111/jfbc.12226.

BEnEpC: Bovine Endometrial Epithelial Cells

Brockus, K., C. Hart, C. Gilfeather, B. Fleming, and C. Lemley. 2015. **Dietary melatonin alters uterine artery hemodynamics in pregnant Holstein heifers**. *Domestic Animal Endocrinology*, DOI: <http://dx.doi.org/10.1016/j.domaniend.2015.10.006>.

Bovine Endothelial Cell Media

Borros Gomez, S., F Rivero Monso and A. Cascante Cirera. 2016. **POLYPEPTIDES FOR BLOOD BRAIN BARRIER TRANSPORT**. Patent Application US 20150376237 A1

Crowe, M., C. Lieven, A. Thompson, N. Sheibani, and L. Levin. 2015. **Borane-protected Phosphines are redox-active radioprotective Agents for endothelial Cells**. *Redox Biology*, 6:73-79.

Shatanawi, A., T. Lemtalsi, L. Yao, C. Patel, R. Caldwell and R. Caldwell. 2015. **Angiotensin II limits NO production by upregulating arginase through a p38 MAPK-ATF-2 pathway**. *EU J Pharmacol*, 746:106-114.

Sigurjónsdóttir, S. 2015. **The effects of azithromycin on cell signalling in human bronchial epithelium**. *Líf- og umhverfisvísindadeild, Verkfræði- og náttúruvísindasvið, Háskóli Íslands, Reykjavík*.

Bovine Insulin

Curran, C., E. Carrillo, S. Ponik, and P. Keely. 2015. **Collagen density regulates xenobiotic and hypoxic response of mammary epithelial cells**. *Environmental Toxicol and Pharmacol*, 39:114-124.

BPAEC: Bovine Pulmonary Artery Endothelial Cells

Rieck, S. 2015. **Use of magnetic nanoparticles for lentiviral transduction and targeted positioning of endothelial cells**. PhD Dissertation, University of Bonn.

BPASMC: Bovine Pulmonary Smooth Muscle Cells

Chakraborti, S., A. Chowdhury and T. Chakraborti. 2015. **Cross-talk between p³⁸MAPK and G α in regulating cPLA₂ activity by ET-1 in pulmonary smooth muscle cells**. *Mol Cell Biochem*, 400: 107.

Chowdhury, A., J. Sarkar, T. Chakraborti and S. Chakraborti. 2015. **Role of Spm-Cer-S1P signalling pathway in MMP-2 mediated U46619-induced proliferation of pulmonary artery smooth muscle cells: protective role of epigallocatechin-3-gallate**. *Cell Biochem & Function*, 33:463-477.

Rahaman, S., K. Dey, T. Chakraborti and S. Chakraborti. 2015. **Angiotensin II inhibits Na⁺/K⁺ATPase activity in pulmonary artery smooth muscle cells via glutathionylation and with the involvement of a 15.6 kDa inhibitor protein**. *Indian J Biochem & Biophys*, 52:119-124.

Canine Endothelial Cell Media

González-Miguel, J., R. Morchón, E. Carretón, J. Montoya-Alonso and F. Simón. 2015. **Can the activation of plasminogen/plasmin system of the host by metabolic products of *Dirofilaria immitis* participate in heartworm disease endarteritis?** *Parasites & Vectors*, 8:194.

2015 Publications

González-Miguel J, R. Morchón, M. Siles-Lucas, and F. Simón F. 2015. *Fibrinolysis and Proliferative Endarteritis: Two Related Processes in Chronic Infections? The Model of the Blood-Borne Pathogen *Dirofilaria immitis**. PLoS ONE 10(4): e0124445.

Heishima, K., T. Mori, Y. Ichikawa, H. Sakai, Y. Kuranaga, T. Nakagawa, Y. Tanaka, Y. Okamura, M. Masuzawa, N. Sugito, M. Murakami, N. Yamada, Y. Akao, and K. Maruo. 2015. *MicroRNA-214 and MicroRNA-126 Are Potential Biomarkers for Malignant Endothelial Proliferative Diseases*. Int J Mol Sci, 16:25377-25391.

Heishima, K. T. Mori, H. Sakai, N. Sugito, M. Murakami, N. Yamada, Y. Akao, and K. Maruo. 2015. *MicroRNA-214 Promotes Apoptosis in Canine Hemangiosarcoma by Targeting the COP1-p53 Axis*. PLoS One, DOI: 10.1371/journal.pone.0137361.

Swancutt, K. 2015. *Single high dose irradiation: Applicability of cell survival curve modeling and in vivo evaluation of tumor biologic response*. PhD Dissertation, Colorado State University.

Canine Smooth Muscle Cell Media

González-Miguel, J., R. Morchón, E. Carretón, J. Montoya-Alonso and F. Simón. 2015. *Can the activation of plasminogen/plasmin system of the host by metabolic products of *Dirofilaria immitis* participate in heartworm disease endarteritis?* Parasites & Vectors, 8:194.

González-Miguel J, R. Morchón, M. Siles-Lucas, and F. Simón F. 2015. *Fibrinolysis and Proliferative Endarteritis: Two Related Processes in Chronic Infections? The Model of the Blood-Borne Pathogen *Dirofilaria immitis**. PLoS ONE 10(4): e0124445.

Cardiac Fibroblast Media

Momtahan, N., N. Poornejad, J. Struk, A. Castleton, B. Herrod, B. Vance, J. Eatough, D. Roeder, P. Reynolds, and D. Cook. 2015. *Automation of Pressure Control Improves Whole Porcine Heart Decellularization*. Tissue Engineering Part C: Methods, doi:10.1089/ten.TEC.2014.0709.

Classical Cell Media

Wu, B., S. Shrestha, K. Ong, D. Johns, L. Dunn, L. Hou, P. Barter and K. Rye. 2015. *Increasing HDL levels by inhibiting cholesteryl ester transfer protein activity in rabbits with hindlimb ischemia is associated with increased angiogenesis*. Intl J Cardiol, 199:204-212.

Zhu, Z., L. Song, J. He, Y. Sun, X. Liu and X. Zou. 2015. *Ectopic expressed long non-coding RNA H19 contributes to malignant cell behavior of ovarian cancer*. Int J Clin Exp Pathol, 8:10082-10091.

CnAOEC: Canine Aortic Endothelial Cells

González-Miguel, J., R. Morchón, E. Carretón, J. Montoya-Alonso and F. Simón. 2015. *Can the activation of plasminogen/plasmin system of the host by metabolic products of *Dirofilaria immitis* participate in heartworm disease endarteritis?* Parasites & Vectors, 8:194.

González-Miguel J, R. Morchón, M. Siles-Lucas, and F. Simón F. 2015. *Fibrinolysis and Proliferative Endarteritis: Two Related Processes in Chronic Infections? The Model of the Blood-Borne Pathogen *Dirofilaria immitis**. PLoS ONE 10(4): e0124445.

González-Miguel, J., R. Morchón, M. Siles-Lucas, A. Oleagab, and F. Simón. 2015. *Surface-displayed glyceraldehyde 3-phosphate dehydrogenase and galectin from *Dirofilaria immitis* enhance the activation of the fibrinolytic system of the host*. Acta Tropica, 145:8–16.

Heishima, K., T. Mori, Y. Ichikawa, H. Sakai, Y. Kuranaga, T. Nakagawa, Y. Tanaka, Y. Okamura, M. Masuzawa, N. Sugito, M. Murakami, N. Yamada, Y. Akao, and K. Maruo. 2015. *MicroRNA-214 and MicroRNA-126 Are Potential Biomarkers for Malignant Endothelial Proliferative Diseases*. Int J Mol Sci, 16:25377-25391.

Heishima, K. T. Mori, H. Sakai, N. Sugito, M. Murakami, N. Yamada, Y. Akao, and K. Maruo. 2015. *MicroRNA-214 Promotes Apoptosis in Canine Hemangiosarcoma by Targeting the COP1-p53 Axis*. PLoS One, DOI: 10.1371/journal.pone.0137361.

Swancutt, K. 2015. *Single high dose irradiation: Applicability of cell survival curve modeling and in vivo evaluation of tumor biologic response*. PhD Dissertation, Colorado State University.

2015 Publications

CnAOSMC: Canine Aortic Smooth Muscle Cells

González-Miguel, J., R. Morchón, E. Carretón, J. Montoya-Alonso and F. Simón. 2015. *Can the activation of plasminogen/plasmin system of the host by metabolic products of Dirofilaria immitis participate in heartworm disease endarteritis?* Parasites & Vectors, 8:194.

González-Miguel J, R. Morchón , M. Siles-Lucas, and F. Simón F. 2015. *Fibrinolysis and Proliferative Endarteritis: Two Related Processes in Chronic Infections? The Model of the Blood-Borne Pathogen Dirofilaria immitis.* PLoS ONE 10(4): e0124445.

CnC: Canine Chondrocytes

Martinez, S., Y. Chen, E. Ho, S. Martinez, and N. Davies. 2015. *Pharmacological effects of a C-phycoerythrin-based multicomponent nutraceutical in an in-vitro canine chondrocyte model of osteoarthritis.* Canadian J Vet Res, 79:241-249.

Yamka, R. and N. Frantz. 2015. *Compositions including pyruvate for companion animals and methods of use thereof.* Patent US 8999375 B2.

CnOb: Canine Osteoblasts

de Sá Rodrigues, L., K. Holmes, V. Thompson, C. Piskun, S. Lana, M. Newton and T. Stein. 2015. *Osteosarcoma tissues and cell lines from patients with differing serum alkaline phosphatase concentrations display minimal differences in gene expression patterns.* DOI: 10.1111/vco.12132.

Fenger, J. 2015. *Investigating the Biological and Molecular Consequences of MiR-9 Dysregulation in Canine Mast Cell Tumors and Osteosarcoma.* PhD Dissertation, Ohio State University.

Endothelial Cells

Nätyñki, M., J. Kangas, I. Miinalainen, R. Sormunen, R. Pietilä, J. Soblet, L. Boon, M. Vikkula, N. Limaye and L. Eklund. 2015. *Common and specific effects of TIE2 mutations causing venous malformations.* Human Molecular Genetics, 24:6374-6389.

FBS: Fetal Bovine Serum

He, J. and Y. Li. 2015. *Ginsenoside Rg1 Downregulates the Shear Stress Induced MCP-1 Expression by Inhibiting MAPK Signaling Pathway.* Am J Chin Med, 43:305.

Klingberg, H., L. Oddershede, S. Loft, and P. Møller. 2015. *Influence of flow, shear stress and adhesion molecule targeting on gold nanoparticle uptake in human endothelial cells.* Nanoscale, DOI: 10.1039/C5NR01467K.

Fibroblast Media

Aoued, H. and M. Singh. 2015. *Recovery of Fibroblast-Like Cells after 160 Days of Postmortem Storage of Goat Skin Tissues in Refrigerated Media.* J Veterinar Sci Technolo, 6:236.

HAOEC: Human Aortic Endothelial Cells

Anderson, J., T. Remund, K. Pohlson, S. Lamichhane, C. Evans, R. Evans, M. Clark, K. Eglund, P. Kelly and G. Mani. 2015. *In vitro and in vivo evaluation of effect of excipients in local delivery of paclitaxel using microporous infusion balloon catheters.* J Biomed Mater Res Part B, DOI: 10.1002/jbm.b.33564.

Chang, E., H. Ma, J. Wang, C. Liu, T. Chen, and S. Hung. 2015. *Multi-lineage differentiation and angiogenesis potentials of pigmented villonodular synovitis derived mesenchymal stem cells - pathological implication.* J Orthopaedic Res, DOI: 10.1002/jor.23031.

Li, R., N. Jen, L. Wu, J. Lee, K. Fang, K. Quigley, K. Lee, S. Wang, B. Zhou, L. Vergnes, Y. Chen, Z. Li, K. Reue, D. Ann, and T. Hsiai. 2015. *Disturbed Flow Induces Autophagy But Impairs Autophagic Flux to Perturb Mitochondrial Homeostasis.* Antioxidants & Redox Signaling, doi:10.1089/ars.2014.5896.

Nelson, J. 2015. *Dynamic Blood Flow Modulates Endothelial Mitochondrial Redox States and Vascular Repair.* PhD Dissertation, UCLA.

Wang, H., S. Chen, and W. Lo. 2015. *iTRAQ quantitative proteomics-based identification of cell adhesion as a dominant phenotypic modulation in thrombin-stimulated human aortic endothelial cells.* Thrombosis Research, 135:944-950.

2015 Publications

HAOSMC: Human Aortic Smooth Muscle Cells

Anderson, J., T. Remund, K. Pohlson, S. Lamichhane, C. Evans, R. Evans, M. Clark, K. Eglund, P. Kelly and G. Mani. 2015. *In vitro and in vivo evaluation of effect of excipients in local delivery of paclitaxel using microporous infusion balloon catheters*. J Biomed Mater Res Part B, DOI: 10.1002/jbm.b.33564.

Harith, H., B. Di Bartolo, S. Cartland, S. Genner and M. Kavurma. 2015. *Insulin promotes vascular smooth muscle cell proliferation and apoptosis via differential regulation of tumor necrosis factor-related apoptosis-inducing ligand*. J Diabetes, 8:568-578.

Helkin, A., K. Maier, and V. Gahtan. 2015. *Thrombospondin-1, -2 and -5 have differential effects on vascular smooth muscle cell physiology*. BBRC, doi:10.1016/j.bbrc.2015.07.044.

Lamichhane, S., J. Anderson, T. Remund, P. Kelly and G. Mani. 2015. *Dextran sulfate as a drug delivery platform for drug-coated balloons: Preparation, characterization, in vitro drug elution, and smooth muscle cell response*. J Biomed Mater Res Part B, 104:1416-1430.

HBEpC: Human Bronchial Epithelial Cells

Burns, T., A. Ali, and D. Matesic. 2015. *Comparative Effects of 4-Phenyl-3-Butenoic Acid and Vorinostat on Cell Growth and Signaling*. Anticancer Research, 35: 775-784.

Li, J., J. Guan X. Long and X. Xiang. 2015. *Endothelin-1 Upregulates the Expression of High Mobility Group Box 1 in Human Bronchial Epithelial Cells*. Pharmacology, 96:144-150.

Othumpangat, S., J. Noti, C. McMillen, and D. Beezhold. 2015. *ICAM-1 regulates the survival of influenza virus in lung epithelial cells during the early stages of infection*. Virology, 487:85-94.

HBIEBC: Human Bladder Epithelial Cells

Song, M., J. Lim, H. Yu, J. Park, J. Chun, J. Jeong, J. Heo, H. Kang, Y. Kim, Y. Cho, S. Kim, W. Oh, S. Choi, S. Jang, S. Park, D. Shin, and M. Choo. 2015. *Mesenchymal stem cell therapy alleviates interstitial cystitis by activating Wnt signaling pathway*. Stem Cells and Development, 6 March.

HC: Human Chondrocytes

Kang, Y., s. Park, C. Ahn, J. Song, D. Kim and E. Jin. 2015. *Beneficial reward-to-risk action of glucosamine during pathogenesis of osteoarthritis*. EU J Med Res, 20:89.

Wylie, M., E. Meszaros, and C. Malemud. 2015. *The Effect of Interleukin-6-Type Cytokines and Adiponectin on MAPK Activation in the Immortalized Human Chondrocyte C28/I2 Line and Normal Human Chondrocytes*. Journal of Cell Biology and Histology, 1:1-10.

HC RNA

Yamashita, A., M. Morioka, Y. Yahara, M. Okada, T. Kobayashi, S. Kuriyama, S. Matsuda, and N. Tsumaki. 2015. *Generation of Scaffoldless Hyaline Cartilaginous Tissue from Human iPSCs*. Stem Cell Reports, 4:404-418.

HCAEC: Human Coronary Artery Endothelial Cells

Boire, T., M. Gupta, A. Zachman, S. Lee, D. Balikov, K. Kim, L. Bellan, and H. Sung. 2015. *Pendant Allyl Crosslinking as a Tunable Shape Memory Actuator for Vascular Applications*. Acta Biomaterialia, doi:10.1016/j.actbio.2015.06.004.

Degendorfer, G. C. Chuang, A. Hammer, E. Malle, M. and M. Davies. 2015. *Peroxyntous acid induces structural and functional modifications to basement membranes and its key component, laminin*. Free Radical Biol & Med, 89:721-733.

Gardner, A., D. Parker, P. Montgomery, D. Sosnowska, A. Casanegra, Z. Ungvari, A. Csiszar, S. Zhang, J. Wang and W. Sonntag. 2015. *Influence of diabetes on ambulation and inflammation in men and women with symptomatic peripheral artery disease*. J Clin & Translational Endocrinol, 2:137-143.

McGrath, K., X. Li, L. McRobb and A. Heather. 2015. *Inhibitory Effect of a French Maritime Pine Bark Extract-Based Nutritional Supplement on TNF- α -Induced Inflammation and Oxidative Stress in Human Coronary Artery Endothelial Cells*. Evid-Based Compl & Alt Med, Article ID 260530.

Sung, H., L. Hofmeister, M. Gupta, S. Crowder, S. Yu, A. Zachman, and D. Jung. 2015. *Copolymers and methods of use thereof*. Patent US9012596B2.

2015 Publications

Wu, B., S. Shrestha, K. Ong, D. Johns, L. Dunn, L. Hou, P. Barter and K. Rye. 2015. **Increasing HDL levels by inhibiting cholesteryl ester transfer protein activity in rabbits with hindlimb ischemia is associated with increased angiogenesis.** *Intl J Cardiol*, 199:204-212.

Zhong, Y., C. Cheng, Y. Luo, C. Tian, H. Yang, B. Liu, M. Chen, Y. Chen, and S. Liu. 2015. **C-reactive protein stimulates RAGE expression in human coronary artery endothelial cells in vitro via ROS generation and ERK/NF- κ B activation.** *Acta Pharmacologica Sinica*, 23 March.

HCASMC: Human Coronary Artery Smooth Muscle Cells

Baskar, K., S. Sur, V. Selvaraj and D. Agrawal. 2015. **Functional constituents of a local serotonergic system, intrinsic to the human coronary artery smooth muscle cells.** *Molec Biol Repts*, 42:1295-1307.

Boosani, C., K. Dhar, and D. Agrawal. 2015. **Down-regulation of hsa-miR-1264 contributes to DNMT1-mediated silencing of SOCS3.** *Molec Biol Repts*, DOI 10.1007/s11033-015-3882-x.

Gupta, M., S. Lee, S. Crowder, X. Wang, L. Hofmeister, C. Nelson, L. Bellan, C. Duvall, and H. Sung. 2015. **Oligoproline-Derived Nanocarrier for Dual Stimuli-Responsive Gene Delivery.** *Journal of Materials Chemistry B*, DOI: 10.1039/C5TB00988J.

Han, Y., Y. Cho, R. Ayon, R. Guo, K. Youssef, M. Pan, A. Dai, J. Yuan and A. Makino. 2015. **SGLT inhibitors attenuate NO-dependent vascular relaxation in the pulmonary artery but not in the coronary artery.** *Am J Physiol Lung Cell Mol Physiol*, 309:L1027-L1036.

Harith, H., B. Di Bartolo, S. Cartland, S. Genner and M. Kavurma. 2015. **Insulin promotes vascular smooth muscle cell proliferation and apoptosis via differential regulation of tumor necrosis factor-related apoptosis-inducing ligand.** *J Diabetes*, 8:568-578.

Simone, T., S. Higgins, J. Archambeault, C. Higgins, R. Ginnan, H. Singer, and P. Higgins. 2015. **A small molecule PAI-1 functional inhibitor attenuates neointimal hyperplasia and vascular smooth muscle cell survival by promoting PAI-1 cleavage.** *Cellular Signalling*, 27:923-933.

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HCF: Human Cardiac Fibroblasts

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HFLS: Human Fibroblast-Like Synoviocytes

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HMNC: Human Mononuclear Cells

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HMSC: Human Marrow Stromal Cells

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HOb: Human Osteoblasts

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HPAd: Human Preadipocytes

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HPAEC: Human Pulmonary Artery Endothelial Cells

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Human Adipocyte Differentiation Medium

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