

2011 Publications

Adipocyte Differentiation Medium

Honda, M., M. Imaizumi, H. Suzuki, S. Ohshima, S. Tsuchiya, and K. Satomura. 2011. Stem cells isolated from human dental follicles have osteogenic potential. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*, 111:700-708.

Samuvel, D.J., J. Jin, K.P. Sundararaj, Y. Li, X. Zhang, M.F. Lopes-Virella, and Y. Huang. 2011. TLR4 Activation and IL-6-Mediated Cross Talk between Adipocytes and Mononuclear Cells Synergistically Stimulate MMP-1 Expression. *Endocrinology*. 152:4662-4671.

Adipocyte Growth Medium

Medici, D., and B. Olsen. 2011. Conversion of vascular endothelial cells into multipotent stem-like cells. Patent Application US 20130078718 A1.

Naruse, K., Y. Yamasaki, T. Tsunemi, A. Onogi, T. Noguchi, T. Sado, H. Oi, and H. Kobayashi. 2011. Increase of high molecular weight adiponectin in hypertensive pregnancy was correlated with brain-type natriuretic peptide stimulation on adipocyte. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health*. 1:200-205.

Anti-eIF-5A Ab

Tsuckiya, M., H. Ogawa, T. Suzuki, N. Sugiyama, T. Haroguchi, and Y. Hiroka. 2011. Exportin 4 Interacts with Sox9 through the HMG Box and Inhibits the DNA Binding of Sox9. *PLOS ONE*, DOI: 10.1371/journal.pone.0025694.

Anti-Phospho-SrC Ab

Gucalp, A., E. Comen, S. Redana, L. Evangelista, D. Giri, X. Zhang, S. Patil, M. Akram, L. Norton, C. Hudia, and M. Fornier. 2011. P4-16-06: Expression Patterns of Receptor Activator of Nuclear Factor- κ B (RANK) and Src in a Series of Primary Breast Tumors (BT) and Bone Metastases (BM) in Patients (pts) with Metastatic Breast Cancer (MBC). *Cancer Res*, 71:P4-16-06.

Anti-Phospho-VEGFR2 Ab

Tammali, R., A.M. Reddy, S. Srivastava, and K. Ramana. 2011. Inhibition of aldose reductase prevents angiogenesis in vitro and in vivo. *Angiogenesis*. 14:209-221.

Anti-PLC γ 1 Ab

Ehrlich, L., G. Medina, and C. Carter. 2011. ESCRT Machinery Potentiates HIV-1 Utilization of the PI (4, 5) P 2-PLC-IP3R-Ca²⁺ Signaling Cascade. *J Mol Biol*, 413:347-358.

Anti-TGF- β 1 Ab

Liu, I., T. Tzeng, S. Liou, and C. Chang. 2011. Beneficial Effect of Traditional Chinese Medicinal Formula Danggui-Shaoyao-San on Advanced Glycation End-Product-Mediated Renal Injury in Streptozotocin-Diabetic Rats. *Evidence-Based Complementary and Alternative Medicine*, Article ID 140103.

BAOEC: Bovine Aortic Endothelial Cells

Baek, J.H., C.E.N. Reiter, D.J. Manalo, P.W. Buehler, R.C. Hider, and A.I. Alayash. 2011. Induction of hypoxia inducible factor (HIF-1 α) in rat kidneys by iron chelation with the hydroxypyridinone, CP94. *Biochimica et Biophysica Acta (BBA) - Gene Regulatory Mechanisms*. 1809:262-268.

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Ching, L.-C., Y.R. Kou, S.-K. Shyue, K.-H. Su, J. Wei, L.-C. Cheng, Y.-B. Yu, C.-C. Pan, and T.-S. Lee. 2011. Molecular mechanisms of activation of endothelial nitric oxide synthase mediated by transient receptor potential vanilloid type 1. *Cardiovascular Research*. 91:492-501.

Dronadula, N., L. Du, R. Flynn, J. Buckler, J. Kho, Z. Jiang, S. Tanaka, and D. Dichek. 2011. Construction of a novel expression cassette for increasing transgene expression in vivo in endothelial cells of large blood vessels. *Gene Therapy*, 18:501-508.

Du, L., N. Dronadula, S. Tanaka, and D.A. Dichek. 2011. Helper-dependent adenoviral vector achieves prolonged, stable expression of interleukin-10 in rabbit carotid arteries but does not limit early atherogenesis. *Hum Gene Ther*. 22:959-968.

Fatissou, J., F. Azari, and N. Tufenkji. 2011. Real-time QCM-D monitoring of cellular responses to different cytomorphic agents. *Biosensors and Bioelectronics*. 26:3207-3212.

Flynn, R., K. Qian, C. Tang, N. Dronadula, J.M. Buckler, B. Jiang, S. Wen, H.L. Dichek, and D.A. Dichek. 2011. Expression of Apolipoprotein A-I in Rabbit Carotid Endothelium Protects Against Atherosclerosis. *Molecular therapy : the journal of the American Society of Gene Therapy*. 19:1833-1841.

Fossey, S., M. Bear, W. Kisseberth, M. Pennell, and C. London. 2011. Oncostatin M promotes STAT3 activation, VEGF production, and invasion in osteosarcoma cell lines. *BMC cancer*. 11:125.

Junkin, M. 2011. Microenvironments for study of myogenesis spatial organization and endothelial cell small messenger signaling. The University of Arizona, PhD dissertation.

Lee, J.-W., H. Chen, P. Pullikotil, and M.J. Quon. 2011. Protein Kinase A- α Directly Phosphorylates FoxO1 in Vascular Endothelial Cells to Regulate Expression of Vascular Cellular Adhesion Molecule-1 mRNA. *Journal of Biological Chemistry*. 286:6423-6432.

Shatanawi, A., M.J. Romero, J.A. Iddings, S. Chandra, N.S. Umopathy, A.D. Verin, R.B. Caldwell, and R.W. Caldwell. 2011. Angiotensin II-induced vascular endothelial dysfunction through RhoA/Rho kinase/p38 mitogen-activated protein kinase/arginase pathway. *American Journal of Physiology - Cell Physiology*. 300:C1181-C1192.

Slyvka, Y., Z. Wang, J. Yee, S.R. Inman, and F.V. Nowak. 2011. Antioxidant diet, gender and age affect renal expression of nitric oxide synthases in obese diabetic rats. *Nitric Oxide*. 24:50-60.

Su, K.-H., S.-K. Shyue, Y.R. Kou, L.-C. Ching, A.-N. Chiang, Y.-B. Yu, C.-Y. Chen, C.-C. Pan, and T.-S. Lee. 2011. β Common receptor integrates the erythropoietin signaling in activation of endothelial nitric oxide synthase. *Journal of cellular physiology*. 226:3330-3339.

Yang, B., C. Radcliff, D. Hughes, S. Kelemen, and V. Rizzo. 2011. p190 RhoGTPase-Activating Protein Links the β 1 Integrin/Caveolin-1 Mechanosignaling Complex to RhoA and Actin Remodeling. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 31:376-383.

BAOSMC: Bovine Aortic Smooth Muscle Cells

Dronadula, N., L. Du, R. Flynn, J. Buckler, J. Kho, Z. Jiang, S. Tanaka, and D. Dichek. 2011. Construction of a novel expression cassette for increasing transgene expression in vivo in endothelial cells of large blood vessels. *Gene Therapy*, 18:501-508.

Patel, H., D. Silversmith, P. Abshire, and T. Datta. 2011. Nose on a Chip, MERIT BIEN 2011 Final Report.

2011 Publications

BBMVEC: Bovine Brain Microvascular Endothelial Cells

Esemuede, N., T. Lee, K. Maier, B. Sumpio, and V. Gahtan. 2011. Lovastatin Inhibits Thrombospondin-1-Induced Smooth Muscle Cell Chemotaxis. *Journal of Surgical Research*, 168:149-154.

Walsh, T.G., R.P. Murphy, P. Fitzpatrick, K.D. Rochfort, A.F. Guinan, A. Murphy, and P.M. Cummins. 2011. Stabilization of brain microvascular endothelial barrier function by shear stress involves VE-cadherin signaling leading to modulation of pTyr-occludin levels. *Journal of cellular physiology*. 226:3053-3063.

BPAEC: Bovine Pulmonary Artery Endothelial Cells

Day, R.M., Y.H. Lee, L. Han, Y.C. Kim, and Y.H. Feng. 2011. Angiotensin II activates AMPK for execution of apoptosis through energy-dependent and -independent mechanisms. *American journal of physiology. Lung cellular and molecular physiology*. 301:L772-781.

Matsumoto, A., H. Harada, M. Saito, and A. Taniguchi. 2011. Induction of insulin-like growth factor 2 expression in a mesenchymal cell line co-cultured with an ameloblast cell line. *In Vitro Cell.Dev.Biol.-Animal*. 47:675-680.

BPASMC: Bovine Pulmonary Artery Smooth Muscle Cells

Roy, S., K. Samanta, T. Chakraborti, A. Chowdhury, and S. Chakraborti. 2011. Role of TGF- β 1 and TNF- α in IL-1 β mediated activation of proMMP-9 in pulmonary artery smooth muscle cells: Involvement of an aprotinin sensitive protease. *Archives of biochemistry and biophysics*. 513:61-69.

Bronchial/Tracheal Epithelial Cell Growth Medium

Rosler, E., E. Kunkel, S. Privat, J. Melrose, M. Fischer, and E. Berg. 2011. Biological dataset profiling of asthma and atopy. Patent US 8019551 B2.

CADMEC/HMVEC: Human Dermal Microvascular Endothelial Cells

Cuttitta, F., A. Martinez, and W. Stetler-Stevenson. 2011. Methods for inhibiting angiogenesis with inhibitors of proadrenomedullin N-terminal 20 peptide (PAMP). Patent US 7862815 B2.

Cardiac Fibroblast Basal Medium

Miteva, K., M. Haag, J. Peng, K. Savvatis, P.M. Becher, M. Seifert, K. Warstat, D. Westermann, J. Ringe, M. Sittinger, H.-P. Schultheiss, C. Tschöpe, and S. Van Linthout. 2011. Human Cardiac-Derived Adherent Proliferating Cells Reduce Murine Acute Coxsackievirus B3-Induced Myocarditis. *PLoS one*. 6:e28513.

Cell Culture Media

Morita, M., S. Yano, T. Yamaguchi, M. Yamauchi, and T. Sugimoto. 2011. Phenylacetic Acid Stimulates Reactive Oxygen Species Generation and Tumor Necrosis Factor- α Secretion in Vascular Endothelial Cells. *Therapeutic Apheresis and Dialysis*. 15:147-150.

Chondrocyte Basal Medium

Attur, M., J.S. Millman, M.N. Dave, H.E. Al-Mussawir, J. Patel, G. Palmer, and S.B. Abramson. 2011. Glatiramer acetate (GA), the immunomodulatory drug, inhibits inflammatory mediators and collagen degradation in osteoarthritis (OA) cartilage. *Osteoarthritis and Cartilage*. 19:1158-1164.

2011 Publications

Chondrocyte Growth Medium

Attur, M., J.S. Millman, M.N. Dave, H.E. Al-Mussawir, J. Patel, G. Palmer, and S.B. Abramson. 2011. Glatiramer acetate (GA), the immunomodulatory drug, inhibits inflammatory mediators and collagen degradation in osteoarthritis (OA) cartilage. *Osteoarthritis and Cartilage*. 19:1158-1164.

Lin, B. B. Cunningham, and P. Li. 2011. Label-free methods for performing assays using a colorimetric resonant reflectance optical biosensor. Patent US 7875434 B2.

Yang, L., A. Guo, and J. Gu. 2011. c-Jun N-terminal kinase and nuclear factor κB mediate nitric oxide-induced expression of matrix metalloproteinase-13. *Int Orthop*, 35:1261-1266.

CnOb: Canine Osteoblasts

Fossey, S., M. Bear, W. Kisseberth, M. Pennell, and C. London. 2011. Oncostatin M promotes STAT3 activation, VEGF production, and invasion in osteosarcoma cell lines. *BMC cancer*. 11:125.

McCleese, J. 2011. Investigating the Biological and Biochemical Consequences of Met Function and Dysfunction in Canine Osteosarcoma. PhD Dissertation, The Ohio State University.

Differentiation Media

Dalton, S., and L. Menendez. 2011. Differentiation of human pluripotent stem cells to multipotent neural crest cells. Patent Application US 20130280804 A1.

Dalton, S., and D. Reynolds. 2011. COMPOSITIONS FOR MESODERM DERIVED ISL1+ MULTIPOTENT CELLS (IMPs), EPICARDIAL PROGENITOR CELLS (EPCs) AND MULTIPOTENT CD56C CELLS (C56Cs) AND METHODS OF PRODUCING AND USING SAME. Patent Application US 20110305672 A1.

Endothelial Cell Basal Medium

Xu, H., M. Zaidi, J. Struve, D.W. Jones, J.G. Krolikowski, S. Nandedkar, N.L. Lohr, A. Gadicherla, P.S. Pagel, M.E. Csuka, K.A. Pritchard, and D. Weihrauch. 2011. Abnormal fibrillin-1 expression and chronic oxidative stress mediate endothelial mesenchymal transition in a murine model of systemic sclerosis. *American Journal of Physiology - Cell Physiology*. 300:C550-C556.

Endothelial Cell Growth Medium

Konakahara, S., M. Saitou, S. Hori, T. Nakane, K. Murai, R. Itoh, A. Shinsaka, J. Kohroki, T. Kawakami, M. Kajikawa, and Y. Masuho. 2011. A neuronal transmembrane protein LRFN4 induces monocyte/macrophage migration via actin cytoskeleton reorganization. *FEBS letters*. 585:2377-2384.

Mikkelsen, L., M. Sheykhzade, K.A. Jensen, A.T. Saber, N.R. Jacobsen, U. Vogel, H. Wallin, S. Loft, and P. Moller. 2011. Modest effect on plaque progression and vasodilatory function in atherosclerosis-prone mice exposed to nanosized TiO₂. *Part Fibre Toxicol*. 8:32.

Mukai, R., H. Ashida, J. Terao, and N. Saito. 2011. Determination of Subcellular Localization of Flavonol in Cultured Cells by Laser Scanning. In *Laser Scanning, Theory and Applications*. C. Wang (Ed.), ISBN: 978-953-307-205-0.

Sharma, V., and H.H. Freeze. 2011a. Mannose Efflux from the Cells: A POTENTIAL SOURCE OF MANNOSE IN BLOOD. *Journal of Biological Chemistry*. 286:10193-10200.

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Sharma, V., M. Ichikawa, P. He, Y. Bravo, R. Dahl, B. Ng, N. Cosford, and H. Freeze. 2011. Phosphomannose Isomerase Inhibitors Improve N-Glycosylation in Selected Phosphomannomutase-deficient Fibroblasts. *JCB*, 286:39431-39438.

Shatanawi, A., M.J. Romero, J.A. Iddings, S. Chandra, N.S. Umopathy, A.D. Verin, R.B. Caldwell, and R.W. Caldwell. 2011. Angiotensin II-induced vascular endothelial dysfunction through RhoA/Rho kinase/p38 mitogen-activated protein kinase/arginase pathway. *American Journal of Physiology - Cell Physiology*. 300:C1181-C1192.

Wang, H.-J., T.-L. Lu, H. Huang, and H.-C. Huang. 2011. Paclitaxel induces thrombomodulin downregulation in human aortic endothelial cells. *Texas Heart Institute Journal*. 38:20.

Winkles, J., and M. Yepes. 2011. TWEAK as a therapeutic target for treating central nervous system diseases associated with cerebral edema and cell death. Patent US 7939490 B2.

Yew, T.-L., Y.-T. Hung, H.-Y. Li, H.-W. Chen, L.-L. Chen, K.-S. Tsai, S.-H. Chiou, K.-C. Chao, T.-F. Huang, H.-L. Chen, and S.-C. Hung. 2011. Enhancement of Wound Healing by Human Multipotent Stromal Cell Conditioned Medium: The Paracrine Factors and p38 MAPK Activation. *Cell Transplantation*. 20:693-706.

Yoshikawa, A., Y. Aizaki, K.-i. Kusano, F. Kishi, T. Susumu, S. Iida, S. Ishiura, S. Nishimura, M. Shichiri, and T. Senbonmatsu. 2011. The (pro)renin receptor is cleaved by ADAM19 in the Golgi leading to its secretion into extracellular space. *Hypertension research*. 34:599-605.

Endothelial Cell Growth Supplement

Yoshikawa, A., Y. Aizaki, K.-i. Kusano, F. Kishi, T. Susumu, S. Iida, S. Ishiura, S. Nishimura, M. Shichiri, and T. Senbonmatsu. 2011. The (pro)renin receptor is cleaved by ADAM19 in the Golgi leading to its secretion into extracellular space. *Hypertension research*. 34:599-605.

Endothelial Cell Media

Yang, C.J., C.Y. Lin, T.-c. Hsieh, S.C. Olson, and J.M. Wu. 2011. Control of eotaxin-1 expression and release by resveratrol and its metabolites in culture human pulmonary artery endothelial cells. *American journal of cardiovascular disease*. 1:16.

Fibroblast Growth Medium

Bogaard, H.J., S. Mizuno, A.A.A. Hussaini, S. Toldo, A. Abbate, D. Kraskauskas, M. Kasper, R. Natarajan, and N.F. Voelkel. 2011. Suppression of Histone Deacetylases Worsens Right Ventricular Dysfunction after Pulmonary Artery Banding in Rats. *American journal of respiratory and critical care medicine*. 183:1402-1410.

Connor, B., M. Dottori, and C. Maucksch. 2011. Cell programming. Patent Application US 20120301965 A1.

Czubryt, M. 2011. Modulation of scleraxis using a dominant negative scleraxis mutant with a basic dna-binding domain deletion. Patent Application US 20130123198 A1.

Gao, Z., M.S. Xu, T.L. Barnett, and C.W. Xu. 2011. Resveratrol induces cellular senescence with attenuated mono-ubiquitination of histone H2B in glioma cells. *Biochemical and biophysical research communications*. 407:271-276.

Singh, M. and A. Sharma. 2011. Outgrowth of fibroblast cells from goat skin explants in three different culture media and the establishment of cell lines. *In Vitro Cell Dev Biol*, 47:83-88.

Zheng, M., D.M. Jones, C. Horzempa, A. Prasad, and P.J. McKeown-Longo. 2011. The first type III domain of fibronectin is associated with the expression of cytokines within the lung tumor microenvironment. *Journal of Cancer*. 2:478.

2011 Publications

HAd: Human Adipocytes

Medici, D., and B. Olsen. 2011. Conversion of vascular endothelial cells into multipotent stem-like cells. Patent Application US 20130078718 A1.

Souza, S.C., M.D.L. Chau, Q. Yang, M.-S. Gauthier, K.B. Clairmont, Z. Wu, J. Gromada, and W.P. Dole. 2011. Atrial natriuretic peptide regulates lipid mobilization and oxygen consumption in human adipocytes by activating AMPK. *Biochemical and biophysical research communications*. 410:398-403.

HAOEC: Human Aortic Endothelial Cells

Wang, H.-J., T.-L. Lu, H. Huang, and H.-C. Huang. 2011. Paclitaxel induces thrombomodulin downregulation in human aortic endothelial cells. *Texas Heart Institute Journal*. 38:20.

Yew, T.-L., Y.-T. Hung, H.-Y. Li, H.-W. Chen, L.-L. Chen, K.-S. Tsai, S.-H. Chiou, K.-C. Chao, T.-F. Huang, H.-L. Chen, and S.-C. Hung. 2011. Enhancement of Wound Healing by Human Multipotent Stromal Cell Conditioned Medium: The Paracrine Factors and p38 MAPK Activation. *Cell Transplantation*. 20:693-706.

HAOSMC: Human Aortic Smooth Muscle Cells

Chen, J., M.Y. Liu, C.R. Parish, B.H. Chong, and L. Khachigian. 2011. Nuclear import of early growth response-1 involves importin-7 and the novel nuclear localization signal serine-proline-serine. *Intern. J. of biochemistry & cell biology*. 43:905-912.

Gacchina, C., T. Brothers, and A. Ramamurthi. 2011. Evaluating smooth muscle cells from CaCl₂-induced rat aortal expansions as a surrogate culture model for study of elastogenic induction of human aneurysmal cells. *Tissue Engineering Part A*. 17:1945-1958.

Liu, X., E.-Z. Jin, J.-X. Zhi, and X.-Q. Li. 2011. Identification of HZF1 as a novel target gene of the MEF2 transcription factor. *Molecular medicine reports*. 4:465-469.

HC: Human Chondrocytes

Attur, M., J.S. Millman, M.N. Dave, H.E. Al-Mussawir, J. Patel, G. Palmer, and S.B. Abramson. 2011. Glatiramer acetate (GA), the immunomodulatory drug, inhibits inflammatory mediators and collagen degradation in osteoarthritis (OA) cartilage. *Osteoarthritis and Cartilage*. 19:1158-1164.

Honda, K. 2011. Interleukin-6 and soluble interleukin-6 receptor suppress osteoclastic differentiation by inducing PGE₂ production in chondrocytes. *Journal of Oral Science*. 53:87-96.

Medici, D., and B. Olsen. 2011. Conversion of vascular endothelial cells into multipotent stem-like cells. Patent Application US 20130078718 A1.

Tanigawa, S., Y. Aida, T. Kawato, K. Honda, G. Nakayama, M. Motohashi, N. Suzuki, K. Ochiai, H. Matsumura, and M. Maeno. 2011a. Interleukin-17F affects cartilage matrix turnover by increasing the expression of collagenases and stromelysin-1 and by decreasing the expression of their inhibitors and extracellular matrix components in chondrocytes. *Cytokine*. 56:376-386.

Tanigawa, S., T. Kawato, Y. Aida, N. Suzuki, K. Ochiai, H. Matsumura, and M. Maeno. 2011b. Interleukin-17F Down-Regulates the Plasminogen/Plasmin Pathway in Chondrocytes. *Journal of Hard Tissue Biology*. 20:195-202.

Wakamatsu, A., J. Yamamoto, and T. Isogai. 2011. Biomarker specific to brain/nerve or specific to neuronal differentiation. Patent Application US 20130095107 A1.

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Wang, P., F. Zhu, and K. Konstantopoulos. 2011a. Interleukin-6 Synthesis in Human Chondrocytes Is Regulated via the Antagonistic Actions of Prostaglandin (PG)E2 and 15-deoxy- Δ 12,14-PGJ2. *PloS one*. 6:e27630.

Wang, P., F. Zhu, Z. Tong, and K. Konstantopoulos. 2011b. Response of chondrocytes to shear stress: antagonistic effects of the binding partners Toll-like receptor 4 and caveolin-1. *The FASEB Journal*. 25:3401-3415.

Yang, L., A. Guo, and J. Gu. 2011. c-Jun N-terminal kinase and nuclear factor κ B mediate nitric oxide-induced expression of matrix metalloproteinase-13. *Int Orthop*, 35:1261-1266.

HC RNA

Wakamatsu, A., J. Yamamoto, and T. Isogai. 2011. Biomarker specific to brain/nerve or specific to neuronal differentiation. Patent Application US 20130095107 A1.

HCAEC: Human Coronary Artery Endothelial Cells

Aoki, T., M. Nishimura, T. Matsuoka, K. Yamamoto, T. Furuyashiki, H. Kataoka, S. Kitaoka, R. Ishibashi, A. Ishibazawa, and S. Miyamoto. 2011. PGE2-EP2 signalling in endothelium is activated by haemodynamic stress and induces cerebral aneurysm through an amplifying loop via NF- κ B. *British journal of pharmacology*. 163:1237-1249.

Archacki, S. 2011. MOLECULAR IDENTIFICATION OF NOVEL GENES ASSOCIATED WITH ATHEROSCLEROSIS. PhD Dissertation, Cleveland State University.

Bowden, J.A., C.J. Albert, O.S. Barnaby, and D.A. Ford. 2011. Analysis of cholesteryl esters and diacylglycerols using lithiated adducts and electrospray ionization-tandem mass spectrometry. *Analytical biochemistry*. 417:202-210.

Crowder, S.W. 2011. Modular Design of Stent Polymers Regulates Human Coronary Artery Cell Type-Specific Oxidative Response and Phenotype. Vanderbilt University, MSc dissertation.

Di Bartolo, B., L. Vanags, J. Tan, S. Bao, K.-A. Rye, P. Barter, and C. Bursill. 2011. The apolipoprotein A-I mimetic peptide, ETC-642, reduces chronic vascular inflammation in the rabbit. *Lipids in health and disease*. 10:224.

Kapur, N.K., K.S. Heffernan, A.A. Yunis, T.A. Nguyen, M.J. Aronovitz, P. Parpos, S. Wilson, C.K. Baker, M.L. Esposito, A. Shah, C.D. Kimmelstiel, A. Weintraub, R.H. Karas, and M.E. Mendelsohn. 2011. Elevated Soluble fms-Like Tyrosine Kinase-1 Levels in Acute Coronary Occlusion. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 31:443-450.

Quinn, K.L., M. Henriques, A. Tabuchi, B. Han, H. Yang, W.-E. Cheng, S. Tole, H. Yu, A. Luo, E. Charbonney, E. Tullis, A. Lazarus, L.A. Robinson, H. Ni, B.R. Peterson, W.M. Kuebler, A.S. Slutsky, and H. Zhang. 2011. Human Neutrophil Peptides Mediate Endothelial-Monocyte Interaction, Foam Cell Formation, and Platelet Activation. *Arter., Thromb., & Vasc. Biol*. 31:2070-2079.

Singelyn, J.M., and K.L. Christman. 2011. Modulation of material properties of a decellularized myocardial matrix scaffold. *Macromolecular bioscience*. 11:731-738.

Vladic, N., Z.-D. Ge, T. Leucker, A.K. Brzezinska, J.-H. Du, Y. Shi, D.C. Warltier, P.F. Pratt, and J.R. Kersten. 2011. Decreased tetrahydrobiopterin and disrupted association of Hsp90 with eNOS by hyperglycemia impair myocardial ischemic preconditioning. *American Journal of Physiology - Heart and Circulatory Physiology*. 301:H2130-H2139.

Wang, M.-Y., S.-R. Ji, C.-J. Bai, D. El Kebir, H.-Y. Li, J.-M. Shi, W. Zhu, S. Costantino, H.-H. Zhou, L.A. Potempa, J. Zhao, J.G. Filep, and Y. Wu. 2011. A redox switch in C-reactive protein modulates activation of endothelial cells. *The FASEB Journal*. 25:3186-3196.

2011 Publications

HCF: Human Cardiac Fibroblasts

Bogaard, H.J., S. Mizuno, A.A.A. Hussaini, S. Toldo, A. Abbate, D. Kraskauskas, M. Kasper, R. Natarajan, and N.F. Voelkel. 2011. Suppression of Histone Deacetylases Worsens Right Ventricular Dysfunction after Pulmonary Artery Banding in Rats. *American journal of respiratory and critical care medicine*. 183:1402-1410.

Chen, I. 2011. Use of kmup-3 for myocardial infarction. Patent Application US 20120095013 A1.

Czubryt, M. 2011. Modulation of scleraxis using a dominant negative scleraxis mutant with a basic dna-binding domain deletion. Patent Application US 20130123198 A1.

D'Souza, K.M., R. Malhotra, J.L. Philip, M.L. Staron, T. Theccanat, V. Jeevanandam, and S.A. Akhter. 2011. G Protein-coupled Receptor Kinase-2 Is a Novel Regulator of Collagen Synthesis in Adult Human Cardiac Fibroblasts. *Journal of Biological Chemistry*. 286:15507-15516.

Liu, C.P., J.L. Yeh, B.N. Wu, C.Y. Chai, I.J. Chen, and W.T. Lai. 2011. KMUP-3 attenuates ventricular remodelling after myocardial infarction through eNOS enhancement and restoration of MMP-9/TIMP-1 balance. *Brit. J. Pharmacol*. 162:126-135.

Ma, X. 2011. Studies on signals mediating or preventing the intracrine induction of chromatin compaction and cell death by high molecular weight fibroblast growth factor 2. University of Manitoba, PhD dissertation.

Miteva, K., M. Haag, J. Peng, K. Savvatis, P.M. Becher, M. Seifert, K. Warstat, D. Westermann, J. Ringe, M. Sittinger, H.-P. Schultheiss, C. Tschöpe, and S. Van Linthout. 2011. Human Cardiac-Derived Adherent Proliferating Cells Reduce Murine Acute Coxsackievirus B3-Induced Myocarditis. *PloS one*. 6:e28513.

Silberbach, M., C. Roberts, and N. Airhart. 2011. Methods of screening using a natriuretic peptide receptor. Patent US 7943296 B2.

Silberbach, M., C. Roberts, and N. Airhart. 2011. Natriuretic peptide related fragment in cardiovascular disease. Patent Application US 20110218230 A1.

HDF: Human Dermal Fibroblasts

Connor, B., M. Dottori, and C. Maucksch. 2011. Cell programming. Patent Application US 20120301965 A1.

Deneau, J., T. Ahmed, R. Blotsky, and K. Bojanowski. 2011. Anti-diabetic activity of a mineraloid isolate, in vitro and in genetically diabetic mice. *International journal for vitamin and nutrition research. Internationale Zeitschrift fur Vitamin- und Ernährungsforschung. Journal international de vitaminologie et de nutrition*. 81:34-42.

Gao, Z., M.S. Xu, T.L. Barnett, and C.W. Xu. 2011. Resveratrol induces cellular senescence with attenuated mono-ubiquitination of histone H2B in glioma cells. *Biochemical and biophysical research communications*. 407:271-276.

Hirai, H., T. Tani, N. Katoku-Kikyo, S. Kellner, P. Karian, M. Firpo, and N. Kikyo. 2011. Radical Acceleration of Nuclear Reprogramming by Chromatin Remodeling with the Transactivation Domain of MyoD. *Stem cells*. 29:1349-1361.

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Moffett, J., N.J. Kubat, N.E. Griffin, M.C. Ritz, and F.R. George. 2011. Pulsed radio frequency energy field treatment of cells in culture: Increased expression of genes involved in angiogenesis and tissue remodeling during wound healing. *The Journal of Diabetic Foot Complications*. 3:30-39.

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HDF RNA

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HEK: Human Epidermal Keratinocytes

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HEK Growth Medium

Tanihara, M., K. Takaichi, M. Maeda, T. Mitsui, K. Yamamoto, and A. Hirano. 2011. Retinol-modified collagen, method for producing same, and external composition for skin containing same. Patent Application US 20130116189 A1.

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HEM: Human Epidermal Melanocytes

Labelle-Côté, M., J. Dusseault, S. Ismail, A. Picard-Cloutier, P. Siegel, and L. Larose. 2011. Nck2 promotes human melanoma cell proliferation, migration and invasion in vitro and primary melanoma-derived tumor growth in vivo. *BMC Cancer*, 11:443.

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HFDP: Hair Follicle Dermal Papilla Cells

Suzuki, M., M. Kitagawa, S. Yamamoto, A. Sogabe, D. Kitamoto, T. Morita, T. Fukuoka, and T. Imura. 2011. Activator including biosurfactant as active ingredient, mannosyl erythritol lipid, and production method thereof. Patent Application US 20120070396 A1.

HFLS: Human Fibroblast-Like Synoviocytes

Chen, D.P., C.K. Wong, L.S. Tam, E.K. Li, and C.W. Lam. 2011. Activation of human fibroblast-like synoviocytes by uric acid crystals in rheumatoid arthritis. *Cellular & molecular immunology*. 8:469-478.

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

Brys, R., N. Vandeghinste, and P. Tomme. 2011. Methods for identification, and compounds useful for the treatment of degenerative and inflammatory diseases. Patent US 7919259 B2.

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HITASMC: Human Internal Thoracic Artery Smooth Muscle Cells

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HLF: Human Lung Fibroblasts

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HMEpC: Human Mammary Epithelial Cells

Gao, Z., M.S. Xu, T.L. Barnett, and C.W. Xu. 2011. Resveratrol induces cellular senescence with attenuated mono-ubiquitination of histone H2B in glioma cells. *Biochemical and biophysical research communications*. 407:271-276.

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HMSC: Human Marrow Stromal Cells

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Chen, F., X. Zhang, S. Sun, J.N. Zara, X. Zou, R. Chiu, C.T. Cuiat, K. Ting, and C. Soo. 2011. NELL-1, an osteoinductive factor, is a direct transcriptional target of Osterix. *PloS one*. 6:e24638.

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HPAEC: Human Pulmonary Artery Endothelial Cells

Yang, C.J., C.Y. Lin, T.-c. Hsieh, S.C. Olson, and J.M. Wu. 2011. Control of eotaxin-1 expression and release by resveratrol and its metabolites in culture human pulmonary artery endothelial cells. *American journal of cardiovascular disease.* 1:16.

HPBB: Human Peripheral Blood B Cells

Yen, T.-Y., B.A. Macher, C.A. McDonald, C. Alleyne-Chin, and L.C. Timpe. 2011. Glycoprotein Profiles of Human Breast Cells Demonstrate a Clear Clustering of Normal/Benign versus Malignant Cell Lines and Basal versus Luminal Cell Lines. *Journal of proteome research.* 11:656-667.

HPBM: Human Peripheral Blood Monocytes

Chen, D., T. Chen, C. Chien, and P. Li. 2011. Intravenous low redox potential saline attenuates FeCl₃-induced vascular dysfunction via downregulation of endothelial H₂O₂, CX3CL1, intercellular adhesion molecule-1, and p53 expression. *J Lab and Clin Med,* 157, 306-319.

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HUVEC: Human Umbilical Vein Endothelial Cells

Dayoub, J.C., F. Ortiz, L.C. L+Ypez, C. Venegas, A. del Pino-Zumaquero, O. Roda, I. S+jnchez-Montesinos, D.o. Acu+Ya-Castroviejo, and G. Escames. 2011. Synergism between melatonin and atorvastatin against endothelial cell damage induced by lipopolysaccharide 9. *Journal of Pineal Research.* 51:324-330.

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HUVSMC: Human Umbilical Vein Smooth Muscle Cells

Lee, Y.-L., C.-H. Chiao, and M.-T. Hsu. 2011. Transcription of Muscle Actin Genes by a Nuclear Form of Mitochondrial RNA Polymerase. *PloS one*. 6:e22583.

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Crowder, S.W. 2011. Modular Design of Stent Polymers Regulates Human Coronary Artery Cell Type-Specific Oxidative Response and Phenotype. Vanderbilt University, MSc dissertation.

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Ma, D., P. Tremblay, K. Mahngar, J. Collins, T. Hudlicky, and S. Pandey. 2011. Selective cytotoxicity against human osteosarcoma cells by a novel synthetic C-1 analogue of 7-deoxypancratistatin is potentiated by curcumin. *PloS one*. 6:e28780.

PAOEC: Porcine Aortic Endothelial Cells

Wang, C., H. Yeh, T. Chang, H., Hsiao, M. Tsai, S. Tsai, and P. Liu. 2011. Attenuation of nitric oxide bioavailability in porcine aortic endothelial cells by classical swine fever virus. *Arch Virol*, 156:1151-1160.

PAOSMC: Porcine Aortic Smooth Muscle Cells

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Preadipocyte Growth Medium

Samuvel, D.J., J. Jin, K.P. Sundararaj, Y. Li, X. Zhang, M.F. Lopes-Virella, and Y. Huang. 2011. TLR4 Activation and IL-6-Mediated Cross Talk between Adipocytes and Mononuclear Cells Synergistically Stimulate MMP-1 Expression. *Endocrinology*. 152:4662-4671.

RAOEC: Rat Aortic Endothelial Cells

Aslam, M., D. Gündüz, D. Schuler, L. Li, F. Sharifpanah, D. Sedding, H. Piper, and T. Noll. 2011. Intermedin induces loss of coronary microvascular endothelial barrier via derangement of actin cytoskeleton: role of RhoA and Rac1. *Cardiovascular Research*, 92:276-286.

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RAOSMC: Rat Aortic Smooth Muscle Cells

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RCF: Rat Cardiac Fibroblasts

Hao, K., H. Hanawa, L. Ding, Y. Ota, K. Yoshida, K. Toba, M. Ogura, H. Ito, M. Kodama, and Y. Aizawa. 2011. Free heme is a danger signal inducing expression of proinflammatory proteins in cultured cells derived from normal rat hearts. *Molec Immunol*, 48:1191-1202.

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RMSC: Rat Marrow Stromal Cells

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ROb: Rat Osteoblasts

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Skeletal Muscle Cell Growth Medium

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Smooth Muscle Cell Media

Kanie, K., R. Kato, Y. Zhao, Y. Narita, M. Okochi, and H. Honda. 2011. Amino acid sequence preferences to control cell-specific organization of endothelial cells, smooth muscle cells, and fibroblasts. *J Peptide Res*, 17:479-486.

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Subculture Reagent Kit

Yang, C.J., C.Y. Lin, T.-c. Hsieh, S.C. Olson, and J.M. Wu. 2011. Control of eotaxin-1 expression and release by resveratrol and its metabolites in culture human pulmonary artery endothelial cells. *American journal of cardiovascular disease*. 1:16.

Synoviocyte Growth Medium

Brys, R., N. Vandeghinste, and P. Tomme. 2011. Methods for identification, and compounds useful for the treatment of degenerative and inflammatory diseases. Patent US 7919259 B2.

Chen, D.P., C.K. Wong, L.S. Tam, E.K. Li, and C.W. Lam. 2011. Activation of human fibroblast-like synoviocytes by uric acid crystals in rheumatoid arthritis. *Cellular & molecular immunology*. 8:469-478.

Chen, D.-P., C.-K. Wong, P.-C. Leung, K.-P. Fung, C.B.-S. Lau, C.-P. Lau, E.K.-M. Li, L.-S. Tam, and C.W.-K. Lam. 2011b. Anti-inflammatory activities of Chinese herbal medicine sinomenine and Liang Miao San on tumor necrosis factor- α -activated human fibroblast-like synoviocytes in rheumatoid arthritis. *Journal of ethnopharmacology*. 137:457-468.

Synoviocyte Growth Supplement

Chen, D.P., C.K. Wong, L.S. Tam, E.K. Li, and C.W. Lam. 2011. Activation of human fibroblast-like synoviocytes by uric acid crystals in rheumatoid arthritis. *Cellular & molecular immunology*. 8:469-478.

TGF- β 1 ELISA

Zhang, J., L. Chang, C. Chen, M. Zhang, Y. Luo, M. Hamblin, L. Villacorta, J. Xiong, Y. Chen, J. Zhang, and X. Zhu. 2011. Rad GTPase inhibits cardiac fibrosis through connective tissue growth factor. *Cardiovascular Research*, DOI: <http://dx.doi.org/10.1093/cvr/cvr068> 90-98.

Tissue RNA

Yoshida, K., H. Aburatani, and S. Ishikawa. 2011. Anti-dll3 antibody. Patent Application US 20120328624 A1.

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Trypsin/EDTA

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