

2010 Publications

Anti-LPL Ab

Wang, X., W. Sun and E., Xu. 2010. The expression and activity of brain lipoprotein lipase is increased after acute cerebral ischemia-reperfusion in rats. *Neuropathology*, 30:131-139.

Anti-phospho-IR Ab

Arabkhari, M., S. Bunda, Y., Wang, A. Wang, A. Pshezhetsky and A. Hinek. 2010. Desialylation of insulin receptors and IGF-1 receptors by neuraminidase-1 controls the net proliferative response of L6 myoblasts to insulin. *Glycobiology*, 20:603-616.

Anti-phospho-EphA2 Ab2

Faoro, L., P. Singleton, G. Cervantes, F. Lennon, A. Husain, M. Tretiakova, N. Ramnath, E. Vokes, and R. Salgia. 2010. EphA2 Mutation in Lung Squamous Cell Carcinoma Promotes Increased Cell Survival, Cell Invasion, Focal Adhesions, and Mammalian Target of Rapamycin Activation. *JBC* 285:18575-18585.

Anti-TIMP Ab

Stilley, J., J. Birt, S. Nagel, M. Sutovsky, P. Sutovsky, and K. Sharpe-Timms. 2010. Neutralizing TIMP1 Restores Fecundity in a Rat Model of Endometriosis and Treating Control Rats with TIMP1 Causes Anomalies in Ovarian Function and Embryo Development. *Biology of Reproduction*, 83:185-194.

Anti-VEGFR2 Ab

Boilson, B.A., K. Larsen, A. Harbuzariu, S. Delacroix, J. Korinek, H. Froehlich, K.R. Bailey, C.G. Scott, B.P. Shapiro, G. Boerrigter, H.H. Chen, M.M. Redfield, J.C. Burnett, Jr., and R.D. Simari. 2010. Regulation of circulating progenitor cells in left ventricular dysfunction. *Circulation. Heart failure*. 3:635-642.

Attachment, Matrix Solutions

Sheikh-Ali, M., S. Sultan, A.-R. Alamir, M.J. Haas, and A.D. Mooradian. 2010a. Effects of antioxidants on glucose-induced oxidative stress and endoplasmic reticulum stress in endothelial cells. *Diabetes research and clinical practice*. 87:161-166.

Sheikh-Ali, M., S. Sultan, A.-R. Alamir, M.J. Haas, and A.D. Mooradian. 2010b. Hyperglycemia-induced endoplasmic reticulum stress in endothelial cells. *Nutrition*. 26:1146-1150.

Bovine Aortic Endothelial Cells: BAOEC

Closhen, D., B. Bender, H.J. Luhmann, and C.R.W. Kuhlmann. 2010. CRP-induced levels of oxidative stress are higher in brain than aortic endothelial cells. *Cytokine*. 50:117-120.

Flynn, R., J. Buckler, C. Tang, F. Kim and D. Dichek. 2010. Helper-dependent Adenoviral Vectors are Superior In Vitro to First-generation Vectors for Endothelial Cell-targeted Gene Therapy. *Molec Ther*, 18:2121-2129.

Loya, M.C., K.S. Brammer, C. Choi, L.-H. Chen, and S. Jin. 2010. Plasma-induced nanopillars on bare metal coronary stent surface for enhanced endothelialization. *Acta Biomaterialia*. 6:4589-4595.

Miura, S., K. Mitsui, T. Heishi, C. Shukunami, K. Sekiguchi, J. Kondo, Y. Sato, and Y. Hiraki. 2010. Impairment of VEGF-A-stimulated lamellipodial extensions and motility of vascular endothelial cells by chondromodulin-I, a cartilage-derived angiogenesis inhibitor. *Experimental cell research*. 316:775-788.

Reiter, C.E.N., J.-a. Kim, and M.J. Quon. 2010. Green Tea Polyphenol Epigallocatechin Gallate Reduces Endothelin-1 Expression and Secretion in Vascular Endothelial Cells: Roles for AMP-Activated Protein Kinase, Akt, and FOXO1. *Endocrinology*. 151:103-114.

Thebaud, N. 2010. Cellules endothéliales issues de progéniteurs humains : des acteurs pertinents en ingénierie vasculaire? PhD Dissertation, L'UNIVERSITÉ BORDEAUX 2.

Bovine Aortic Smooth Muscle Cell BAOSMC

Dronadula, N., L. Du, R. Flynn, J. Buckler, J. Kho, Z. Jiang, S. Tanaka, and D.A. Dichek. 2010. Construction of a novel expression cassette for increasing transgene expression in vivo in endothelial cells of large blood vessels. *Gene therapy*. 18:501-508.

Fan, L., J. Sakai, S. Bessho, S. Wada, and T. Karino. 2010. Effect of a disturbed flow on adhesion of monocytes to a model of an arterial wall. *Biorheology*. 47:15-29.

Ohashi, T., N. Kameda, S. Nakamura, and M. Sato. 2010. Biomechanical Contribution of Cytoskeletal Structures to Traction Forces in Cultured Smooth Muscle Cells. *J Biomechan Sci and Eng*, 5:262:271.

2010 Publications

Bovine Brain Endothelial Cell Media

Pyrgos, V., D. Mickiene, T. Sein, M. Cotton, A. Franesconi, I. Mizrahi, M. Donoghue, N. Bundrant, S.-Y. Kim, M. Hardwick, S. Shoham, and T.J. Walsh. 2010. Effects of Immunomodulatory and Organism-Associated Molecules on the Permeability of an In Vitro Blood-Brain Barrier Model to Amphotericin B and Fluconazole. *Antimicrobial agents and chemotherapy*. 54:1305-1310.

Bovine Brain Microvascular Endothelial Cells: BBMVEC

Blasberg, J.D., C.M. Goparaju, H.I. Pass, and J.S. Donington. 2010. Lung cancer osteopontin isoforms exhibit angiogenic functional heterogeneity. *The Journal of Thoracic and Cardiovascular Surgery*. 139:1587-1593.

Closhen, D., B. Bender, H.J. Luhmann, and C.R.W. Kuhlmann. 2010. CRP-induced levels of oxidative stress are higher in brain than aortic endothelial cells. *Cytokine*. 50:117-120.

Haile, W.B., R. Echeverry, J. Wu, and M. Yepes. 2010. The interaction between tumor necrosis factor-like weak inducer of apoptosis and its receptor fibroblast growth factor-inducible 14 promotes the recruitment of neutrophils into the ischemic brain. *Journal of cerebral blood flow and metabolism*. 30:1147-1156.

Pyrgos, V., D. Mickiene, T. Sein, M. Cotton, A. Franesconi, I. Mizrahi, M. Donoghue, N. Bundrant, S.-Y. Kim, M. Hardwick, S. Shoham, and T.J. Walsh. 2010. Effects of Immunomodulatory and Organism-Associated Molecules on the Permeability of an In Vitro Blood-Brain Barrier Model to Amphotericin B and Fluconazole. *Antimicrobial agents and chemotherapy*. 54:1305-1310.

Soni, V., K. Patel, D. Lakkaraju, and N. Puri. 2010. Protein-assisted drug delivery system for the targeted administration of active agents. Patent Application US 20100330158 A1.

Bovine Endometrial Epithelial Cells BEnEPC

Norrby, M. 2010. Hormones and sex steroid receptors in the female pig. Vol. 2010. Swedish University of Agricultural Sciences, PhD dissertation.

Bovine Endothelial Cell Media

Loya, M.C., K.S. Brammer, C. Choi, L.-H. Chen, and S. Jin. 2010. Plasma-induced nanopillars on bare metal coronary stent surface for enhanced endothelialization. *Acta Biomaterialia*. 6:4589-4595.

Van Geest, R., I. Klaassen, I. Vogels, C. Van Noorden and R. Schlingemann. 2010. Differential TGF- β Signaling in Retinal Vascular Cells: A Role in Diabetic Retinopathy? *Biochem & Molec Biol*, 51:1857-1865.

Bovine Pulmonary Artery Endothelial Cells: BPAEC

Marchenko, A.V., E.O. Stepanova, A.V. Sekridova, M.V. Sidorova, V.N. Bushuev, Z.D. Bepalova, and V.P. Shirinsky. 2010. Novel peptide inhibitors of myosin light chain kinase suppress the hyperpermeability of vascular endothelium. *BIOPHYSICS*. 55:926-930.

Mungunsukh, O., Y.H. Lee, A.P. Marquez, F. Cecchi, D.P. Bottaro, and R.M. Day. 2010. A tandem repeat of a fragment of *Listeria monocytogenes* internalin B protein induces cell survival and proliferation. *American Journal of Physiology - Lung Cellular and Molecular Physiology*. 299:L905-L914.

Sliman, S., T. Eubank, S. Kotha, M.L. Kuppasamy, S. Sherwani, E.C. Butler, P. Kuppasamy, S. Roy, C. Marsh, D. Stern, and N. Parinandi. 2010. Hyperglycemic oxoaldehyde, glyoxal, causes barrier dysfunction, cytoskeletal alterations, and inhibition of angiogenesis in vascular endothelial cells: aminoguanidine protection. *Molecular and cellular biochemistry*. 333:9-26.

Bovine Renal Artery Endothelial Cells: BRAEC

Van Geest, R., I. Klaassen, I. Vogels, C. Van Noorden and R. Schlingemann. 2010. Differential TGF- β Signaling in Retinal Vascular Cells: A Role in Diabetic Retinopathy? *Biochem & Molec Biol*, 51:1857-1865.

Canine Aortic Endothelial Cells: CnAOEC

Boilson, B.A., K. Larsen, A. Harbuzariu, S. Delacroix, J. Korinek, H. Froehlich, K.R. Bailey, C.G. Scott, B.P. Shapiro, G. Boerrigter, H.H. Chen, M.M. Redfield, J.C. Burnett, Jr., and R.D. Simari. 2010. Regulation of circulating progenitor cells in left ventricular dysfunction. *Circulation. Heart failure*. 3:635-642.

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Canine Chondrocytes: CnC

Yamka, R. and N. Frantz. 2010. Compositions including pyruvate for companion animals and methods of use thereof. Patent Application US 20120289598 A1.

Canine Osteoblasts: CnOb

Fossey, S. 2010. Characterization of STAT3 Activation in Osteosarcoma. PhD Dissertation, Ohio State University.

Canine Osteoblast Media

Fossey, S. 2010. Characterization of STAT3 Activation in Osteosarcoma. PhD Dissertation, Ohio State University.

Cell RNA

Lee, Y.H., O. Mungunsukh, R.L. Tutino, A.P. Marquez, and R.M. Day. 2010. Angiotensin-II-induced apoptosis requires regulation of nucleolin and Bcl-xL by SHP-2 in primary lung endothelial cells. *Journal of cell science*. 123:1634-1643.

Nishio, S. 2010. Transformant which produces collagen wherein both lysine residue and proline residue are hydroxylated. Patent Application US 20120245327 A1.

Tostar, U., R. Toftgård, P. Zaphiropoulos, and T. Shimokawa. 2010. Reduction of Human Embryonal Rhabdomyosarcoma Tumor Growth by Inhibition of the Hedgehog Signaling Pathway. *Genes & Cancer*, 1:941-951.

Wilmlink, G., B. Rivest, B. Ibey, C. Roth, J. Bernhard, and W. Roach. 2010. Quantitative Investigation of the Bioeffects Associated with Terahertz Radiation. *Optical Interactions with Tissues and Cells XXI*, edited by E. Duco Jansen, Robert J. Thomas, Proc. of SPIE Vol 7562, 75620L. doi: 10.1117/12.844916.

Xie, G., L. Wang, X. Wang, L. Wang and L. DeLeve. 2010. Isolation of periportal, midlobular, and centrilobular rat liver sinusoidal endothelial cells enables study of zoned drug toxicity. *Am J Physiol – Gastrointest & Liver Physiol*, 299:G1204-G1210.

Human Adipocytes: HAd

Chau, D., J. Gromada, and Z Wu. Methods of treating cancers. Patent Application US 20120076729 A1.

Chau, M.D.L., J. Gao, Q. Yang, Z. Wu, and J. Gromada. 2010. Fibroblast growth factor 21 regulates energy metabolism by activating the AMPK–SIRT1–PGC-1 α pathway. *Proceedings of the National Academy of Sciences*. 107:12553-12558.

Human Adipocyte & Preadipocyte Media

Samuvel, D.J., K.P. Sundararaj, Y. Li, M.F. Lopes-Virella, and Y. Huang. 2010. Adipocyte-Mononuclear Cell Interaction, Toll-like Receptor 4 Activation, and High Glucose Synergistically Up-regulate Osteopontin Expression via an Interleukin 6-mediated Mechanism. *Journal of Biological Chemistry*. 285:3916-3927.

Human Adipocyte Differentiation Medium

Samuvel, D.J., K.P. Sundararaj, Y. Li, M.F. Lopes-Virella, and Y. Huang. 2010. Adipocyte-Mononuclear Cell Interaction, Toll-like Receptor 4 Activation, and High Glucose Synergistically Up-regulate Osteopontin Expression via an Interleukin 6-mediated Mechanism. *Journal of Biological Chemistry*. 285:3916-3927.

Wang, Y., L. Zhao and B. Hantash. 2010. Support of human adipose-derived mesenchymal stem cell multipotency by a poloxamer-octapeptide hybrid hydrogel. *Bamaterials*, 31:5122-5130.

Human Aortic Endothelial Cells: HAOEC

Gelissen, I.C., S. Cartland, A.J. Brown, C. Sandoval, M. Kim, D.L. Dinnes, Y. Lee, V. Hsieh, K. Gaus, L. Kritharides, and W. Jessup. 2010. Expression and stability of two isoforms of ABCG1 in human vascular cells. *Atherosclerosis*. 208:75-82.

Hou, X., J. Song, X.-N. Li, L. Zhang, X. Wang, L. Chen, and Y.H. Shen. 2010. Metformin reduces intracellular reactive oxygen species levels by upregulating expression of the antioxidant thioredoxin via the AMPK-FOXO3 pathway. *Biochemical and biophysical research communications*. 396:199-205.

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Rong, Y., M. Zhang, L. Zhang, X.L. Wang, and Y.H. Shen. 2010. JNK-ATF-2 inhibits thrombomodulin (TM) expression by recruiting histone deacetylase4 (HDAC4) and forming a transcriptional repression complex in the TM promoter. *FEBS letters*. 584:852-858.

Wang, H.-J., W.-Y. Lo, T.-L. Lu, and H. Huang. 2010. (-)-Epigallocatechin-3-gallate decreases thrombin/paclitaxel-induced endothelial tissue factor expression via the inhibition of c-Jun terminal NH2 kinase phosphorylation. *Biochemical and biophysical research communications*. 391:716-721.

Wang, W. 2010. A Novel Role of HDAC5 in Flow-Induced Gene Expression. PhD Dissertation, U Rochester.

Human Aortic Smooth Muscle Cells: HAOSMC

Brito, L.A., S. Chandrasekhar, S.R. Little, and M.M. Amiji. 2010. In vitro and In vivo studies of local arterial gene delivery and transfection using lipopolyplexes-embedded stents. *Journal of Biomedical Materials Research Part A*. 93:325-336.

Gacchina, C.E. 2010. Cell-mediated elastic matrix regeneration toward regression of abdominal aortic aneurysms. PhD Dissertation, Clemson University.

Phillippi, J., M. Eskay, A. Kubala, B. Pitt and T. Gleason. 2010. Altered Oxidative Stress Responses and Increased Type I Collagen Expression in Bicuspid Aortic Valve Patients. *Annals Thor Sug*, 90:1893-1898.

Seymour, K., X. Han, B. Sadowitz, K.G. Maier, and V. Gahtan. 2010. Differential effect of nitric oxide on thrombospondin-1-, PDGF- and fibronectin-induced migration of vascular smooth muscle cells. *The American J. Surgery*. 200:615-619.

Human Bronchial Epithelial Cells: HBEpC

Berg, E.L., J. Yang, J. Melrose, D. Nguyen, S. Privat, E. Rosler, E.J. Kunkel, and S. Ekins. 2010. Chemical target and pathway toxicity mechanisms defined in primary human cell systems. *Journal of Pharmacological and Toxicological Methods*. 61:3-15.

Lung, J., K.-J. Liu, J.-Y. Chang, S.-J. Leu, and N.-Y. Shih. 2010. MBP-1 is efficiently encoded by an alternative transcript of the ENO1 gene but post-translationally regulated by proteasome-dependent protein turnover. *FEBS Journal*. 277:4308-4321.

Maier, K.G., X. Han, B. Sadowitz, K.L. Gentile, F.A. Middleton, and V. Gahtan. 2010. Thrombospondin-1: a proatherosclerotic protein augmented by hyperglycemia. *Journal of Vascular Surgery*. 51:1238-1247.

Mungunsukh, O., A.J. Griffin, Y.H. Lee, and R.M. Day. 2010. Bleomycin induces the extrinsic apoptotic pathway in pulmonary endothelial cells. *American Journal of Physiology - Lung Cellular and Molecular Physiology*. 298:L696-L703.

Tai, H.Y., M.F. Tam, H. Chou, D.W. Perng, and H.D. Shen. 2010. Pen ch 13 Major Fungal Allergen Decreases CD44 Expression in Human Bronchial Epithelial Cells. *International Archives of Allergy and Immunology*. 153:367-371.

Human Bronchial/Tracheal Epithelial Cell Media

Lung, J., K.-J. Liu, J.-Y. Chang, S.-J. Leu, and N.-Y. Shih. 2010. MBP-1 is efficiently encoded by an alternative transcript of the ENO1 gene but post-translationally regulated by proteasome-dependent protein turnover. *FEBS Journal*. 277:4308-4321.

Maier, K.G., X. Han, B. Sadowitz, K.L. Gentile, F.A. Middleton, and V. Gahtan. 2010. Thrombospondin-1: a proatherosclerotic protein augmented by hyperglycemia. *Journal of Vascular Surgery*. 51:1238-1247.

Mungunsukh, O., A.J. Griffin, Y.H. Lee, and R.M. Day. 2010. Bleomycin induces the extrinsic apoptotic pathway in pulmonary endothelial cells. *American Journal of Physiology - Lung Cellular and Molecular Physiology*. 298:L696-L703.

Shen, C., C. Wang, J. Liao, T. Hsu, S. Kuo and H. Su. 2010. The infection of primary avian tracheal epithelial cells with infectious bronchitis virus. *Veterinary Research*, 41:06.

2010 Publications

Human Cardiac Fibroblasts: HCF

Peng, H., O.A. Carretero, E.L. Peterson, and N.-E. Rhaleb. 2010. Ac-SDKP inhibits transforming growth factor- β 1-induced differentiation of human cardiac fibroblasts into myofibroblasts. *American J. of Physiology* 298:H1357-H1364.

Human Chondrocytes: HC

Ek, S. 2010. Nanorough Alloy Substrate. Patent Application US 20100185294 A1.

Hashizume, M., and M. Mihara. 2010. High molecular weight hyaluronic acid inhibits IL-6-induced MMP production from human chondrocytes by up-regulating the ERK inhibitor, MKP-1. *Biochem. & Biophys. Res. Comm.* 403:184-189. HC, Chondrocyte Growth Medium

Huang, H., B. Varnum, C. Vezina, A. Witte, X. Qian, F. Martin, and G. Elliott. 2010. Therapeutic anti-IL-1R1 monoclonal antibody. European Patent Application EP 2 213 685 A1.

Tambursten, M.V., S. Reppe, A. Spahr, R. Sabetrasekh, G. Kvalheim, I. Slaby, U. Syversen, S.P. Lyngstadaas, and J.E. Reseland. 2010. Ameloblastin promotes bone growth by enhancing proliferation of progenitor cells and by stimulating immunoregulators. *European journal of oral sciences.* 118:451-459.

Watanabe, Y., A. Namba, Y. Aida, K. Honda, H. Tanak, N. Suzuki, H. Matsumura and M. Maeno. 2010. IL-1 β Suppresses the Formation of Osteoclasts by Increasing OPG Production via an Autocrine Mechanism Involving Celecoxib-Related Prostaglandins in Chondrocytes. doi:10.1155/2009/308596.

Human Chondrocyte Media

Odani-Kawabata, N., M. Takai-Imamura, O. Katsuta, H. Nakamura, K. Nishioka, K. Funahashi, T. Matsubara, M. Sasano, and H. Aono. 2010. ARG098, a novel anti-human Fas antibody, suppresses synovial hyperplasia and prevents cartilage destruction in a severe combined immunodeficient-HuRAG mouse model. *BMC musculoskeletal disorders.* 11:221.

Ek, S. 2010. Nanorough Alloy Substrate. Patent Application US 20100185294 A1.

Human Coronary Artery Endothelial Cells: HCAEC

Bursill, C., M. Castro, D. Beattie, S. Nakhla, E. van der Vorst, A. Heather, P. Barter, and K. Rye. 2010. High-Density Lipoproteins Suppress Chemokines and Chemokine Receptors In Vitro and In Vivo. *Arterioscler Thromb Vasc Biol.* 30:1773-1778.

Makino, A., T Scott and H. Dillmann. 2010. Mitochondrial fragmentation and superoxide anion production in coronary endothelial cells from a mouse model of type 1 diabetes. *Diabetologia.* 8:1783-1794.

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O'Brien, B.J., J.S. Stinson, S.R. Larsen, M.J. Eppihimer, and W.M. Carroll. 2010. A platinum–chromium steel for cardiovascular stents. *Biomaterials.* 31:3755-3761.

Rajesh, M., P. Mukhopadhyay, G. Haskó, L. Liaudet, K. Mackie, and P. Pacher. 2010. Cannabinoid-1 receptor activation induces reactive oxygen species-dependent and -independent mitogen-activated protein kinase activation and cell death in human coronary artery endothelial cells. *British journal of pharmacology.* 160:688-700.

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Seif-Naraghi, S.B., M.A. Salvatore, P.J. Schup-Magoffin, D.P. Hu, and K.L. Christman. 2010. Design and characterization of an injectable pericardial matrix gel: a potentially autologous scaffold for cardiac tissue engineering. *Tissue Engin. Part A.* 16:2017-2027.

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2010 Publications

Human Coronary Artery Smooth Muscle Cells: HCASMC

Nivison-Smith, L., J. Rnjak, and A.S. Weiss. 2010. Synthetic human elastin microfibers: Stable cross-linked tropoelastin and cell interactive constructs for tissue engineering applications. *Acta Biomaterialia*. 6:354-359.

Zhou, J., G. Hu, and X. Wang. 2010. Repression of Smooth Muscle Differentiation by a Novel High Mobility Group Box-containing Protein, HMG2L1. *Journal of Biological Chemistry*. 285:23177-23185.

Human Dermal Fibroblasts: HDF

Hayashi, Y., T. Chan, M. Warashina, M. Fukuda, T. Ariizumi, K. Okabayashi, N. Takayama, M. Otsu, K. Eto, M.K. Furue, T. Michiue, K. Ohnuma, H. Nakauchi, and M. Asashima. 2010. Reduction of N-Glycolylneuraminic Acid in Human Induced Pluripotent Stem Cells Generated or Cultured under Feeder- and Serum-Free Defined Conditions. *PLoS one*. 5:e14099.

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Rapko, S., M. Zhang, B. Richards, E. Hutto, S. Dethlefsen, and S. Duguay. 2010. Identification of the Chondrocyte Lineage Using Microfibril-Associated Glycoprotein-2, A Novel Marker That Distinguishes Chondrocytes from Synovial Cells. *Tissue Engineering Part C: Methods*. 16:1367-1375.

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Human Dermal Microvascular Endothelial Cells: CADMEC/HMVEC

Harris, L.J., P. Zhang, H. Abdollahi, N.A. Tarola, C. DiMatteo, S.E. McIlhenny, T.N. Tulenko, and P.J. DiMuzio. 2010. Availability of Adipose-Derived Stem Cells in Patients Undergoing Vascular Surgical Procedures. *J. Surgical Research*. 163:e105-e112.

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Hung, C.-H., D. Wu, F.-Y. Lin, R.-Y. Yuan, and C.-J. Hu. 2010. Toll-like Receptor 4 and Vascular Cell Adhesion Molecule 1 in Monocyte-Endothelium Adhesion Induced by Lipopolysaccharide. *J. Experimental & Clinical Medicine*. 2:297-301.

Blasberg, J.D., C.M. Goparaju, H.I. Pass, and J.S. Donington. 2010. Lung cancer osteopontin isoforms exhibit angiogenic functional heterogeneity. *The Journal of Thoracic and Cardiovascular Surgery*. 139:1587-1593.

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