

**2010**

**Mesenchymal Stem Cells**

Kalfa,D., Bel,A., Chen-Tournoux,A., la Martina,A., Rochereau,P., Coz,C., Bellamy,V., Bensalah,M., Vanneaux,V. and Lecourt,S. (2010) A polydioxanone electrospun valved patch to replace the right ventricular outflow tract in a growing lamb model. *Biomaterials*, **31**, 4056 - 4063.

**Adult Rat Aortic Smooth Muscle Cells**

Kothapalli,C.R. and Ramamurthi,A. (2010) Induced elastin regeneration by chronically activated smooth muscle cells for targeted aneurysm repair. *Acta Biomaterialia*, **6**, 170 - 178.

**Ovine Forestomach Matrix**

Lun,S., Irvine,S.M., Johnson,K.D., Fisher,N.J., Floden,E.W., Negron,L., Dempsey,S.G., McLaughlin,R.J., Vasudevamurthy,M. and Ward,B.R. (2010) A functional extracellular matrix biomaterial derived from ovine forestomach. *Biomaterials* **31**, 4517-4529.

**Decellularized Murine Lung Matrix Bioreactor System**

Price,A.P., England,K.A., Matson,A.M., Blazar,B.R. and Panoskaltsis-Mortari,A. (2010) Development of a Decellularized Lung Bioreactor System for Bioengineering the Lung: The Matrix Reloaded. *Tissue Engineering Part A*, doi:10.1089/ten.TEA.2009.0659.

**Heparin Sulphate (HS) Preparations from Rat Pulmonary Fibroblasts and Epithelial Cells**

Spencer,J.L., Bernanke,J.A., Buczek-Thomas,J.A. and Nugent,M.A. (2010) A Computational Approach for Deciphering the Organization of Glycosaminoglycans. *PLoS One*, **5**, e9389.

**Vascular Graft in Lovenaar Sheep**

Stickler,P., De Visscher,G., Mesure,L., Famaey,N., Martin,D., Campbell,J.H., Van Oosterwyck,H., Meuris,B. and Flameng,W. (2010) Cyclically stretching developing tissue in vivo enhances mechanical strength and organisation of vascular grafts. *Acta Biomaterialia*, **6**, 2448 - 2456.

**Fetal Lamb Cervical Trachea**

Turner,C.G.B., Klein,J.D., Ahmed,A., Zurakowski,D. and Fauza,D.O. (2010) A Large Animal Model of the Fetal Tracheal Stenosis/Atresia Spectrum1. *Journal of Surgical Research*, doi:10.1016/j.jss.2010.02.037.

**Human Pulmonary Fibroblasts**

Zhang,J., Wu,L., Bai,C., Merrilees,M.J. and Black,P.N. (2010) Pulmonary Fibroblasts From Patients With COPD Have A Senescence-associated Secretory Phenotype. *American Journal of Respiratory and Critical Care Medicine*, **181**, A4924.

**2009**

**Human Umbilical Arteries**

Burkhardt,T., Matter,C.M., Lohmann,C., Cai,H., Lüscher,T.F., Zisch,A.H. and Beinder,E. (2009) Decreased Umbilical Artery Compliance and IGF-I Plasma Levels in Infants with Intrauterine Growth Restriction - Implications for Fetal Programming of Hypertension. *Placenta*, **30**, 136-141.

### **Human Fibroblast WS1 (hfWS1) Cells**

Chen,K.C., Chang,H.H., Ko,W.S., Wu,C.L., Chiu,W.T., Hsieh,C.L. and Peng,R.Y. (2009) UV-induced damages eliminated by arbutin and ursolic acid in cell model of human dermal fibroblast WS-1 cells. *Egyptian Dermatology Online Journal*, **5**, 1.

### **Atherosclerotic Carotid Plaques**

Gonçalves,I., Stollenwerk,M.M., Lindholm,M.W., Dias,N., Pedro,L.M., Fernandes,J.F., Moses,J., Fredrikson,G.N., Nilsson,J. and Ares,M.P.S. (2009) Activator protein-1 in carotid plaques is related to cerebrovascular symptoms and cholesteryl ester content. *Cardiovascular Pathology*, doi: 10.1016/j.carpath.2009.09.003.

### **Bladder Smooth Muscle Cells**

Heise,R.L., Ivanova,J., Parekh,A. and Sacks,M.S. (2009) Generating Elastin-Rich Small Intestinal Submucosa-Based Smooth Muscle Constructs Utilizing Exogenous Growth Factors and Cyclic Mechanical Stimulation. *Tissue Engineering Part A*, **15**, 3951 - 3960.

### **Domestic Fowl (Gallus gallus) Lung Tissue**

Honorio,A., Pinto,M.L., Goncalves,C. and Bairos,V. (2009) Elastin in the Avian Lungs. *The Open Chemical and Biomedical Methods Journal*, **2**, 18-23.

### **Human Term Fetal Membrane**

Jabareen,M., Mallik,A.S., Bilic,G., Zisch,A.H. and Mazza,E. (2009) Relation between mechanical properties and microstructure of human fetal membranes: An attempt towards a quantitative analysis. *European Journal of Obstetrics and Gynecology*, **144**, 134-141.

### **Rat Aortic Smooth Muscle Cells**

Kothapalli,C.R., Gacchina,C.E. and Ramamurthi,A. (2009) Utility of Hyaluronan Oligomers and Transforming Growth Factor-Beta1 Factors for Elastic Matrix Regeneration by Aneurysmal Rat Aortic Smooth Muscle Cells. *Tissue Engineering Part A*, **15**, 3247 - 3260.

### **Adult Vascular Smooth Muscle Cells (SMCs)**

Kothapalli,C.R. and Ramamurthi,A. (2009) Copper nanoparticle cues for biomimetic cellular assembly of crosslinked elastin fibers. *Acta Biomaterialia*, **5**, 541-553.

### **Adult Vascular Smooth Muscle Cells (SMCs)**

Kothapalli,C.R. and Ramamurthi,A. (2009) Biomimetic Regeneration of Elastin Matrices Using Hyaluronan and Copper Ion Cues. *Tissue Engineering Part A*. **15**, 103-113.

### **Adult Vascular Smooth Muscle Cells (SMCs)**

Kothapalli,C.R., Taylor,P.M., Smolenski,R.T., Yacoub,M.H. and Ramamurthi,A. (2009) Transforming Growth Factor Beta 1 and Hyaluronan Oligomers Synergistically Enhance Elastin Matrix Regeneration by Vascular Smooth Muscle Cells. *Tissue Engineering Part A*. **15**, 501-511.

### **Adult Rat Aortic Smooth Muscle Cell (RASMC) Cultures**

Kothapalli,C.R. and Ramamurthi,A. (2009) Lysyl Oxidase Enhances Elastin Synthesis and Matrix Formation by Vascular Smooth Muscle Cells. *J Tissue Eng Regen Med*, **3**, 655 - 661.

### **Human Umbilical Vein Endothelial Cells**

Lu,W.D., Zhang,M., Wu,Z.S. and Hu,T.H. (2009) Decellularized and photooxidatively crosslinked bovine jugular veins as potential tissue engineering scaffolds. *Interactive CardioVascular and Thoracic Surgery*, **8**, 301.

### **Bioartificial Human Tissue**

Mertsching,H., Schanz,J., Steger,V., Schandar,M., Schenk,M., Hansmann,J., Dally,I., Friedel,G. and Walles,T. (2009) Generation and Transplantation of an Autologous Vascularized Bioartificial Human Tissue. *Transplantation*, **88**, 203-210.

### **Mouse Newborn Lung Tissue**

Nicola,T., Hagood,J.S., James,M.L., MacEwen,M.W., Williams,T.A., Hewitt,M.M., Schwiebert,L., Bulger,A., Oparil,S. and Chen,Y.F. (2009) Loss of Thy-1 inhibits alveolar development in the newborn mouse lung. *American Journal of Physiology- Lung Cellular and Molecular Physiology*, **296**, L738.

### **Smooth Muscle Cells**

Paderi,J.E., Sistiabudi,R., Ivanisevic,A. and Panitch,A. (2009) Collagen-Binding Peptidoglycans: A Biomimetic Approach to Modulate Collagen Fibrillogenesis for Tissue Engineering Applications. *Tissue Engineering Part A*, **15**, 2991-2999.

### **Murine Lung Tissue**

Perl,A.K.T. and Gale,E. (2009) FGF signaling is required for myofibroblast differentiation during alveolar regeneration. *American Journal of Physiology- Lung Cellular and Molecular Physiology*, **297**, L299-L308.

### **Rat Aortic Tissue**

Tuday,E.C., Nyhan,D., Shoukas,A.A. and Berkowitz,D.E. (2009) Simulated microgravity-induced aortic remodeling. *Journal of Applied Physiology*, **106**, 2002-2008.

## **2008**

### **Quiescent Human Dermal Fibroblasts in Primary Cell Culture**

Boraldi,F., Annovi,G., Paolinelli-Devincenzi,C., Tiozzo,R. and Quaglino,D. (2008) The effect of serum withdrawal on the protein profile of quiescent human dermal fibroblasts in primary cell culture. *Proteomics*, **8**, 66-82.

### **Bone Marrow Derived Mononuclear Cells**

Brennan,M.P., Dardik,A., Hibino,N., Roh,J.D., Nelson,G.N., Papademitris,X., Shinoka,T. and Breuer,C.K. (2008) Tissue-engineered vascular grafts demonstrate evidence of growth and development when implanted in a juvenile animal model. *Annals of Surgery*, **248**, 370-377.

### **Rabbit Blood Vessel Smooth Muscle Cells (RaSMCs)**

Cheng,S.T., Chen,Z.F. and Chen,G.Q. (2008) The expression of cross-linked elastin by rabbit blood vessel smooth muscle cells cultured in polyhydroxyalkanoate scaffolds. *Biomaterials*, **29**, 4187-4194.

### **Murine Lung Tissue**

Foronjy,R., Nkyimbeng,T., Wallace,A., Thankachen,J., Okada,Y., Lemaitre,V. and D'Armiento,J. (2008) Transgenic expression of matrix metalloproteinase-9 causes adult-onset emphysema in mice associated with the loss of alveolar elastin. *American Journal of Physiology- Lung Cellular and Molecular Physiology*, **294**, L1149-L1157.

## **Human Carotid Plaques**

Gonçalves, I., Ares, M.P.S., Moberg, A., Moses, J., To, F., Montan, J., Pedro, L.M., Dias, N., e Fernandes, J.F., Fredrikson, G.N., Nilsson, J., Jovinge, S. and Bengtsson, E. (2008) Elastin- and Collagen-Rich Human Carotid Plaques Have Increased Levels of the Cysteine Protease Inhibitor Cystatin C. *Journal of Vascular Research*, **45**, 395 - 401.

## **Lung Tissue**

Honório,A., Pinto,M.L., Gonçalves,C. and Bairos,V. (2008) Lung elastic fibres from embryonic to adult birds. *Microscopy and Microanalysis*, **14**, 113-114.

## **Bovine Jugular Veins**

Lu,W.D., Zhang,M., Wu,Z.S. and Hu,T.H. (2008) Decellularized and photooxidatively crosslinked bovine jugular veins as potential tissue engineering scaffolds. *Interactive CardioVascular and Thoracic Surgery*, doi: 10.1510/icvts.2008.194076.

## **Skin Tissue**

Mayne,J., O'Toole,D., Deppa,D. and Zimmerman,A. (2008) Topical skin compositions, their preparation, and their use. *WIPO Patent Application WO/2008/016842*.

## **Human Fibroblast Cell Culture (Hs27) and Human Keratinocyte Cell Culture (HEK)**

Murray, M. A., Crawford, A. W., Fast, D. J., Dong, D., Huang, M., and Connor, L. M. (2008) Plant based formulations for improving skin moisture, texture, and appearance. *U.S. Patent 7348034*.

## **Porcine and Human Posterior Sclera**

Schultz,D.S., Lotz,J.C., Lee,S.M., Trinidad,M.L. and Stewart,J.M. (2008) Structural factors mediating scleral stiffness. *Investigative Ophthalmology & Visual Science*, doi: 10.1167/iops.08-1970.

## **2007**

### **Rat Lung**

Chen,C.M., Wang,L.F., Chou,H.C. and Lang,Y.D. (2007) Oligohydramnios decreases platelet-derived growth factor expression in fetal rat lungs. *Neonatology*, **92**, 187-193.

### **Rat Aortic Endothelial Cells**

Choudhary,S., Haberstroh,K.M. and Webster,T.J. (2007) Enhanced functions of vascular cells on nanostructured Ti for improved stent applications. *Tissue Engineering*, **13**, 1421-1430.

### **Human Spine Cartilage Samples**

Cloyd,J.M. and Elliott,D.M. (2007) Elastin content correlates with human disc degeneration in the anulus fibrosus and nucleus pulposus. *Spine*, **32**, 1826-1831.

### **Human Bladder Smooth Muscle Cells**

Haberstroh,K.M., Pattison,M.A., Kaefer,M. and Webster,T.J. (2007) Evaluating the in vitro and in vivo efficacy of nano-dimensional polymeric scaffolds for bladder tissue replacement applications. *Materials Science Forum*, **539**, 540-544.

### **Murine Aorta Smooth Muscle Cells**

Joddar,B., Ibrahim,S. and Ramamurthi,A. (2007) Impact of delivery mode of hyaluronan oligomers on elastogenic responses of adult vascular smooth muscle cells. *Biomaterials*, **28**, 3918-3927.

**Porcine Aortic Valves**

Balachandran,K., Konduri,S., Sucusky,P., Jo,H. and Yoganathan,A.P. (2006) An ex vivo study of the biological properties of porcine aortic valves in response to circumferential cyclic stretch. *Annals of Biomedical Engineering*, **34**, 1655-1665.

**Swine Auricular Chondrocytes**

Chung,C., Mesa,J., Miller,G.J., Randolph,M.A., Gill,T.J. and Burdick,J.A. (2006) Effects of Auricular Chondrocyte Expansion on Neocartilage Formation in Photocrosslinked Hyaluronic Acid Networks. *Tissue Engineering*, **12**, 2665-2673.

**Murine Aorta Smooth Muscle Cells**

Joddar,B. and Ramamurthi,A. (2006) Elastogenic effects of exogenous hyaluronan oligosaccharides on vascular smooth muscle cells. *Biomaterials*, **27**, 5698-5707.

**Murine Aorta Smooth Muscle Cells**

Joddar,B. and Ramamurthi,A. (2006) Fragment size- and dose-specific effects of hyaluronan on matrix synthesis by vascular smooth muscle cells. *Biomaterials*, **27**, 2994-3004.

**Ovine Mesenchymal Amniocytes**

Kunisaki,S.M., Jennings,R.W. and Fauza,D.O. (2006) Fetal Cartilage Engineering from Amniotic Mesenchymal Progenitor Cells. *Stem Cells and Development* **15**, 245-253.

**Human Dermal Fibroblasts**

Lee,J.H., Roh,M.R. and Lee,K.H. (2006) Effects of Infrared Radiation on Skin Photo-Aging and Pigmentation. *Yonsei Med J.*, **47**, 485-490.

**Human Bladder Smooth Muscle Cells**

Pattison,M.A., Webster,T.J. and Haberstroh,K.M. (2006) Select bladder smooth muscle cell functions were enhanced on three-dimensional, nano-structured poly (ether urethane) scaffolds. *Journal of Biomaterials Science, Polymer Edition*, **17**, 1317-1332.

**Porcine Heart Valve Leaflets**

Schenke-Layland, K., Madershahian, N., Riemann, I., Starcher, B., Halbhuber, K. J., Konig, K., and Stock, U. A. (2006) Impact of cryopreservation on extracellular matrix structures of heart valve leaflets. *The Annals of Thoracic Surgery*, **81**, 918-926.

**Ovine Mesenchymal Progenitor Cells**

Steigman,S.A. and Fauza,D.O. (2007) A comparative analysis of cartilage engineered from different perinatal mesenchymal progenitor cells. *Tissue Engineering*, **13**, 2633-2644.

**Porcine Pulmonary Heart Valve, Small Intestinal Submucosa and Ovine Carotid Artery Myofibroblasts**

Stock,U.A., Degenkolbe,I., Attmann,T., Schenke-Layland,K., Freitag,S. and Lutter,G. (2006) Prevention of device-related tissue damage during percutaneous deployment of tissue-engineered heart valves. *The Journal of Thoracic and Cardiovascular Surgery*, **131**, 1323-1330.

## **Human Amniotic Membrane**

Wilshaw,S.P., Kearney,J.N., Fisher,J. and Ingham,E. (2006) Production of an acellular amniotic membrane matrix for use in tissue engineering. *Tissue Engineering*, **12**, 2117-2129.

## **2005**

### **Ovine Vascular Smooth Muscle Cells**

Engelmayr,G.C., Mayer,J.E., Rabkin,E., Sacks,M.S., Schoen,F.J. and Sutherland,F.W.H. (2005) The independent role of cyclic flexure in the early in vitro development of an engineered heart valve tissue. *Biomaterials*, **26**, 175-187.

### **Ovine Umbilical Cord Blood Mesenchymal Progenitor Cells**

Fuchs, J. R., Hannouche, D., Terada, S., Zand, S., Vacanti, J. P., and Fauza, D. O. (2005) Cartilage engineering from ovine umbilical cord blood mesenchymal progenitor cells. *Stem Cells* **23**, 958-964.

### **Ovine Myofibroblasts**

Hopkins,R.A. (2005) Comparison of three myofibroblast cell sources for the tissue engineering of cardiac valves. *Tissue Engineering*, **11**,288-301.

### **Murine Lung Tissue**

Ito,S., Ingenito,E.P., Brewer,K.K., Black,L.D., Parameswaran,H., Lutchen,K.R. and Suki,B. (2005) Mechanics, nonlinearity, and failure strength of lung tissue in a mouse model of emphysema: possible role of collagen remodeling. *Journal of Applied Physiology*, **98**, 503-511.

### **Porcine Aortic Endothelial and Smooth Muscle Cells**

Konduri,S., Xing,Y., Warnock,J.N., He,Z. and Yoganathan,A.P. (2005) Normal physiological conditions maintain the biological characteristics of porcine aortic heart valves: an ex vivo organ culture study. *Annals of Biomedical Engineering*, **33**, 1158-1166.

### **Human Bladder Smooth Muscle Cells**

Pattison,M.A., Wurster,S. and Webster,T.J. (2005) Three-dimensional, nano-structured PLGA scaffolds for bladder tissue replacement applications. *Biomaterials*, **26**, 2491-2500.

### **Rat Aortic Smooth Muscle Cells**

Ramamurthi,A. and Vesely,I. (2005) Evaluation of the matrix-synthesis potential of crosslinked hyaluronan gels for tissue engineering of aortic heart valves. *Biomaterials*, **26**, 999-1010.

### **Porcine Heart Mitral Valve Chordae Tendineae**

Ritchie, J., Warnock, J. N., and Yoganathan, A. P. (2005) Structural characterization of the chordae tendineae in native porcine mitral valves. *The Annals of Thoracic Surgery* **80**, 189-197.

## **2004**

### **Porcine Mitral Valve Anterior Leaflets**

Liao,J. and Vesely,I. (2004) Relationship between collagen fibrils, glycosaminoglycans, and stress relaxation in mitral valve chordae tendineae. *Annals of Biomedical Engineering*, **32**, 977-983.

### **Human Aortic Thrombi and Aneurysms**

Marek,G., Radoslaw,L., Kazimierz,K., Radoslaw,K., Roman,O. and Arkadiusz,W. (2004) Content of extracellular matrix (ECM) components and protease activity in the wall and parietal thrombus of aortic aneurysm. *Progress in Medical Research* **2**, 34.

### **Rat Aortic Smooth Muscle Cells**

Shi,Y. and Vesely,I. (2004) Characterization of statically loaded tissue-engineered mitral valve chordae tendineae. *Journal of Biomedical Materials Research*, **69**, 26-39.

### **Ovine and Lapine Auricular Chondrocytes**

Shieh,S.J. and Terada,S. (2004) Tissue engineering auricular reconstruction: in vitro and in vivo studies. *Biomaterials*, **25**, 1545-1557.

## **2003**

### **Transgenic Murine Alveolar Septa**

Foronjy,R.F., Okada,Y., Cole,R. and D'Armiento,J. (2003) Progressive adult-onset emphysema in transgenic mice expressing human MMP-1 in the lung. *American Journal of Physiology- Lung Cellular and Molecular Physiology*, **284**, 727-737.

### **Human Atherosclerotic Carotid Plaques**

Gonçalves, I., Moses, J., Dias, N., Pedro, L. M., Fernandes e Fernandes, J., Nilsson, J., and Ares, M. P. S. (2003) Changes related to age and cerebrovascular symptoms in the extracellular matrix of human carotid plaques. *Stroke* **34**, 616-622.

### **Ovine Carotid Artery Endothelial & Myofibroblastic Cells and Porcine Pulmonary Valves**

Schenke-Layland,K., Opitz,F., Gross,M., Döring,C., Halbhuber,K.J., Schirrmeister,F., Wahlers,T. and Stock,U.A. (2003) Complete dynamic repopulation of decellularized heart valves by application of defined physical signals - an in vitro study. *Cardiovascular Research*, **60**, 497-509.

## **2002**

### **Human Umbilical Cord Cells**

Hoerstrup, S. P., Kadner, A., Breymann, C., Maurus, C. F., Guenter, C. I., Sodian, R., Visjager, J. F., Zund, G., and Turina, M. I. (2002) Living, autologous pulmonary artery conduits tissue engineered from human umbilical cord cells. *The Annals of Thoracic Surgery* **74**, 46-52.

### **Human Marrow Stromal Cells**

Hoerstrup, S. P., Kadner, A., Melnitchouk, S., Trojan, A., Eid, K., Tracy, J., Sodian, R., Visjager, J. F., Kolb, S. A., and Grunenfelder, J. (2002) Tissue engineering of functional trileaflet heart valves from human marrow stromal cells. *Circulation*, **106**, 143-150.

### **Human Marrow Stromal Cells**

Kadner,A., Hoerstrup,S.P., Zund,G., Eid,K., Maurus,C., Melnitchouk,S., Grunenfelder,J. and Turina,M.I. (2002) A new source for cardiovascular tissue engineering: human bone marrow stromal cells. *European Journal of Cardio-Thoracic Surgery*, **21**, 1055-1060.

### **Rat Cardiac Smooth Muscle Cells**

Langford,S.D., Trent,M.B. and Boor,P.J. (2002) Semicarbazide-sensitive amine oxidase and extracellular matrix deposition by smooth-muscle cells. *Cardiovascular Toxicology*, **2**, 141-150.

### **Rat Aortic Smooth Muscle Cells**

Ramamurthi,A. and Vesely,I. (2002) In-vitro synthesis of elastin sheets on crosslinked hyaluronan gels for tissue engineering of aortic valves. Engineering in Medicine and Biology, 24th Annual Conference and the Annual Fall Meeting of the Biomedical Engineering Society EMBS/BMES Conference.Proceedings of the Second Joint, 1, 854-855.

### **Rat Carotid Artery Explants**

Tham,D.M., Martin-McNulty,B., Wang,Y.X., Da Cunha,V., Wilson,D.W., Athanassious,C.N., Powers,A.F., Sullivan,M.E. and Rutledge,J.C. (2002) Angiotensin II injures the arterial wall causing increased aortic stiffening in apolipoprotein E-deficient mice. American Journal of Physiology- Regulatory, Integrative and Comparative Physiology, **283**, 1442-1449.

## **2001**

### **Cardiovascular Muscle Cells**

Stock,U.A., Wiederschain,D., Kilroy,S.M., Shum-Tim,D., Khalil,P.N., Vacanti,J.P., Mayer,J.E. and Moses,M.A. (2001) Dynamics of extracellular matrix production and turnover in tissue engineered cardiovascular structures. Journal of Cellular Biochemistry, **81**, 220-228.

## **2000**

### **Murine Aorta Smooth Muscle cells**

Girton,T.S., Oegema,T.R., Grassl,E.D., Isenberg,B.C. and Tranquillo,R.T. (2000) Mechanisms of Stiffening and Strengthening in Media-Equivalents Fabricated Using Glycation. Journal of Biomechanical Engineering, **122**, 216.

### **Ovine Arterial Endothelial Cells**

Hoerstrup, S. P., Sodian, R., Daebritz, S., Wang, J., Bacha, E. A., Martin, D. P., Moran, A. M., Guleserian, K. J., Sperling, J. S., and Kaushal, S. (2000) Functional living trileaflet heart valves grown in vitro. Circulation, **102**, III-44-III-49.

### **Rat Aortic Smooth Muscle Cells and Pig Auricular Chondrocytes**

Mooney,D.J. (2000) Combining chondrocytes and smooth muscle cells to engineer hybrid soft tissue constructs. Tissue Engineering, **6**, 297-305.

### **Human Umbilical Cord Veins**

Romanowicz,L. and Sobolewski,K. (2000) Extracellular matrix components of the wall of umbilical cord vein and their alterations in pre-eclampsia. J Perinat Med, **28**, 140-146.

### **Ovine Peripheral Vein Vascular Cells**

Stock, U. A., Sakamoto, T., Hatsuoka, S., Martin, D. P., Nagashima, M., Moran, A. M., Moses, M. A., Khalil, P. N., Schoen, F. J., and Vacanti, J. P. (2000) Patch augmentation of the pulmonary artery with bioabsorbable polymers and autologous cell seeding. The Journal of Thoracic and Cardiovascular Surgery **120**, 1158-1167.

### **Ovine Carotid Artery Endothelial and Vascular Medial Cells**

Stock, U. A., Nagashima, M., Khalil, P. N., Nollert, G. D., Herdena, T., Sperling, J. S., Moran, A., Lien, J., Martin, D. P., and Schoen, F. J. Tissue-engineered valved conduits in the pulmonary circulation. The Journal of Thoracic and Cardiovascular Surgery **119**, 732-740.

## **1999**

### **Rat Aorta Smooth Muscle Cells**

Kim,B.S., Nikolovski,J., Bonadio,J., Smiley,E. and Mooney,D.J. (1999) Engineered smooth muscle tissues: Regulating cell phenotype with the scaffold. *Exp.Cell Res.*, **251**, 318-328.

### **Rat Aorta Smooth Muscle Cells**

Kim,B.S., Nikolovski,J., Bonadio,J. and Mooney,D.J. (1999) Cyclic mechanical strain regulates the development of engineered smooth muscle tissue. *Nature Biotechnology*, **17**, 979-983.

### **Human Umbilical Cord Arteries**

Pawlicka,E., Bańkowski,E. and Jaworski,S. (1999) Elastin of the umbilical cord arteries and its alterations in EPH gestosis(preeclampsia). *Biology of the Neonate*, **75**, 91-96.

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### **Smooth Muscle Cells**

Kim,B.S. and Mooney,D.J. (1998) Engineering smooth muscle tissue with a predefined structure. *Journal of Biomedical Materials Research*, **41**, 322-332.

### **Rat Aorta Smooth Muscle Cells**

Kim,B.S., Putnam,A.J., Kulik,T.J. and Mooney,D.J. (1998) Optimizing seeding and culture methods to engineer smooth muscle tissue on biodegradable polymer matrices. *Biotechnology and Bioengineering*, **57**, 46-54.