

**2012**

**Decellularised Rodent Lung Scaffolds**

Petersen,T.H., Calle,E.A., Colehour,M.B. and Niklason,L.E. (2012) Matrix Composition and Mechanics of Decellularized Lung Scaffolds. *Cells, Tissues, Organs* **195**, 222 - 231.

**2011**

Araújo,A.D., Majumdar,A., Parameswaran,H., Yi,E., Spencer,J.L., Nugent,M.A. and Suki,B. (2011) Dynamics of enzymatic digestion of elastic fibers and networks under tension. *Proceedings of the National Academy of Sciences*, **108**, 9414 - 9419.

**Rat Aortic Smooth Muscle Cells**

Bashur,C.A. and Ramamurthi,A. (2011) Aligned electrospun scaffolds and elastogenic factors for vascular cell-mediated elastic matrix assembly. *Journal of Tissue Engineering and Regenerative Medicine* doi: 11.1002/term.470.

**Extracellular Matrix from Human Adipose Tissue**

Choi,J.S., Kim,B.S., Kim,J.Y., Kim,J.D., Choi,Y.C., Yang,H.J., Park,K., Lee,H.Y. and Cho,Y.W. (2011) Decellularized extracellular matrix derived from human adipose tissue as a potential scaffold for allograft tissue engineering. *Journal of Biomedical Materials Research Part A* **97A**, 292 - 299.

**Primary Adult Baboon Arterial Smooth Muscle Cells**

Crapo,P.M. and Wang,Y. (2011) Hydrostatic pressure independently increases elastin and collagen co expression in small diameter engineered arterial constructs. *Journal of Biomedical Materials Research Part A*, **96A**, 673 - 681.

**Rat Small Renal Arteries and External Iliac Arteries**

Debrah,D.O., Debrah,J.E., Haney,J.L., McGuane,J.T., Sacks,M.S., Conrad,K.P. and Shroff,S.G. (2011) Relaxin regulates vascular wall remodeling and passive mechanical properties in mice. *Journal of Applied Physiology*, **111**, 260.

**Rat Aortal Smooth Muscle Cells**

Gacchina,C.E., Brothers,T.E. and Ramamurthi,A. (2011) Evaluating Smooth Muscle Cells from CaCl-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.

**Rat Aortal Smooth Muscle Cells**

Gacchina,C.E., Deb,P.P., Barth,J. and Ramamurthi,A. (2011) Elastogenic Inductability of Smooth Muscle Cells from a Rat Model of Late-Stage Abdominal Aortic Aneurysms. *Tissue Engineering Part A*, **17**, 1699-1711.

**Atherosclerotic Carotid Plaques**

Gonçalves,I., Stollenwerk,M.M., Lindholm,M.W., Dias,N., Pedro,L.M., Moses,J., Fredrikson,G.N., Nilsson,J. and Ares,M.P.S. (2011) Activator protein-1 in carotid plaques is related to cerebrovascular symptoms and cholesteryl ester content. *Cardiovascular Pathology*, **20**, 36-43.

**Human Fibroblasts**

Iyer,P., Walker,K.J. and Madihally,S.V. (2011) Increased matrix synthesis by fibroblasts with decreased proliferation on synthetic chitosan-gelatin porous structures. *Biotechnology and Bioengineering* doi: 10.1002/bit.24396.

## **Human Umbilical Cord-Derived Mesenchymal Stem Cells**

Kang,M.N., Yoon,H.H., Seo,Y.K. and Park,J.K. (2011) Effect of Mechanical Stimulation on the Differentiation of Cord Stem Cells. *Connective Tissue Research*, doi: 10.3109/03008207.2011.619284.

## **Human Auricular Cartilage**

Kobayashi,S., Takebe,T., Inui,M., Iwai,S., Kan,H., Zheng,Y.W., Maegawa,J. and Taniguchi,H. (2011) Reconstruction of human elastic cartilage by a CD44+ CD90+ stem cell in the ear perichondrium. *Proceedings of the National Academy of Sciences*, **108**, 14479-14484.

## **Cartilage Tissue Engineered with Chondrocytes and a Fibrin Hydrogel**

Lee,S.J., Broda,C., Atala,A. and Yoo,J.J. (2011) Engineered cartilage covered ear implants for auricular cartilage reconstruction. *Biomacromolecules* **12**, 306 - 313.

## **Human Aortic Smooth Muscle Cells**

Patel,D., Menon,R. and Taite,L.J. (2011) Self-Assembly of Elastin-Based Peptides into the ECM: the Importance of Integrins and the Elastin Binding Protein in Elastic Fiber Assembly. *Biomacromolecules* **12**, 432 - 440.

## **Porcine Carotid Renal, Iliac and Femoral Arteries**

Sindram,D., Martin,K., Meadows,J.P., Prabhu,A.S., Heath,J.J., McKillop,I.H. and Iannitti,D.A. (2011) Collagen–elastin ratio predicts burst pressure of arterial seals created using a bipolar vessel sealing device in a porcine model. *Surgical Endoscopy*, **25**, 2604 - 2612.

## **Human Recombinant Elastin-Like Polypeptide (ELP)**

Srokowski,E.M., Blit,P.H., McClung,W.G., Brash,J.L., Santerre,J.P. and Woodhouse,K.A. (2011) Platelet adhesion and fibrinogen accretion on a family of elastin-like polypeptides. *Journal of Biomaterials Science, Polymer Edition*, **22**, 41-57.

## **Human Vaginal Smooth Muscle Cells**

Takacs,P., Yavagal,S., Zhang,Y., Candiotti,K. and Medina,C.A. (2011) Levormeloxifene inhibits vaginal tropoelastin and transforming growth factor beta 1 production. *Journal of Smooth Muscle Research*, **47**, 11-19.

## **Human Vaginal Smooth Muscle Cells**

Takacs,P., Zhang,Y., Yavagal,S., Candiotti,K., Chakhtoura,N. and Medina,C.A. (2011) TGF-beta 1 is a potential regulator of vaginal tropoelastin production. *International Urogynecology Journal*, doi:10.1007/s00192-011-1589-7.

## **Sheep Carotid and Superior Mesenteric Artery**

Thompson,J.A., Gimbel,S.A., Richardson,B.S., Gagnon,R. and Regnault,T.R.H. (2011) The effect of intermittent umbilical cord occlusion on elastin composition in the ovine fetus. *Reproductive Sciences*, **18**, 990-997.

## **Mesenchymal Stem Cells**

Tong,Z., Sant,S., Khademhosseini,A. and Jia,X. (2011) Controlling the Fibroblastic Differentiation of Mesenchymal Stem Cells Via the Combination of Fibrous Scaffolds and Connective Tissue Growth Factor. *Tissue Engineering Part A* **17**, 2773 - 2785.

## **Serum Free Media of Pulmonary Fibroblasts**

Varisco,B.M., Hagood,J.S., Kaminski,N. and Whitsett,J. (2011) Pulmonary Fibroblast Thy-1 Expression Modulates Elastin Expression During Alveolarization-In Part Via Rhoa Activation Of JNK. *American Journal of Respiratory and Critical Care Medicine*, **183**, A3492.

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

Venkatraman,L. and Ramamurthi,A. (2011) Induced Elastic Matrix Deposition within 3-Dimensional Collagen Scaffolds. *Tissue Engineering Part A* **17**, 2879 - 2889.

### **Human Smooth Muscle and Mesenchymal Stem Cells**

Williams,C., Xie,A., Emani,S., Yamato,M., Okano,T., Emani,S.M. and Wong,J. (2011) A comparison of human smooth muscle and mesenchymal stem cells as potential cell sources for tissue engineered vascular patches. *Tissue Engineering* doi: 10.1089/ten.TEA.2011.0172.

### **Bovine Pericardium**

Wong,M.L., Leach,J.K., Athanasiou,K.A. and Griffiths,L.G. (2011) The role of protein solubilization in antigen removal from xenogeneic tissue for heart valve tissue engineering. *Biomaterials* **32**, 8129 - 8138.

### **Rat Primary Bone Marrow Mononuclear Cells**

Wu,W., Allen,R.A., Gao,J. and Wang,Y. (2011) Artificial Niche Combining Elastomeric Substrate and Platelets Guides Vascular Differentiation of Bone Marrow Mononuclear Cells. *Tissue Engineering, Part A*, **17**, 1979 - 1992.

### **Human Lung Fibroblasts**

Zhang,J., Wu,L., Feng,M., Sexton,P., Bai,C., Merrilees,M.J. and Black,P.N. (2011) Lung Fibroblasts From COPD Patients Presented A Reduced Response To TGF-Beta1 For Proliferation And Elastin Synthesis. *American Journal of Respiratory and Critical Care Medicine*, **183**, A4089.

### **Human Pulmonary Fibroblasts**

Zhang,J., Wu,L., Feng,M., Sexton,P., Bai,C., Qu,J., Merrilees,M. and Black,P.N. (2011) Pulmonary fibroblasts from COPD patients show an impaired response of elastin synthesis to TGF- $\beta$ 1. *Respiratory Physiology & Neurobiology*, **177**, 236 - 240.

## **2010**

### **Adult Baboon Arterial Smooth Muscle Cells**

Crapo,P.M. and Wang,Y. (2010) Physiologic compliance in engineered small-diameter arterial constructs based on an elastomeric substrate. *Biomaterials*, **31**, 1626-1635.

### **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.

### **Human Chondrocytes**

Lee,S.J., Broda,C., Atala,A. and Yoo,J.J. (2010) Engineered Cartilage Covered Ear Implants for Auricular Cartilage Reconstruction. *Biomacromolecules*, doi: 10.1021/bm100856g.

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

Lu,J., Khang,D. and Webster,T.J. (2010) Greater endothelial cell responses on submicron and nanometer rough titanium surfaces. *Journal of Biomedical Materials Research Part A*, **94**, 1042-1049.

### **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.

### **Murine extralobar Pulmonary Arteries**

Ooi,C.Y., Wang,Z., Tabima,D.M., Eickhoff,J.C. and Chesler,N.C. (2010) The role of collagen in extralobar pulmonary artery stiffening in response to hypoxia-induced pulmonary hypertension. *American Journal of Physiology-Heart and Circulatory Physiology*, **299**, H1823 - H1831.

### **Human Aortic Smooth Muscle Cells**

Patel,D., Menon,R. and Taite,L.J. (2010) Self-Assembly of Elastin-Based Peptides into the ECM: the Importance of Integrins and the Elastin Binding Protein in Elastic Fiber Assembly. *Biomacromolecules*, doi: 10.1021/bm101214f.

### **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*, **16**, 2581 - 2591.

### **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.

### **Human Left Diaphragmatic Tendon**

Steigman,S.A., Oh,J.T., Almendinger,N., Javid,P., LaVan,D. and Fauza,D. (2010) Structural and biomechanical characteristics of the diaphragmatic tendon in infancy and childhood: an initial analysis. *Journal of pediatric surgery*, **45**, 1455-1458.

### **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.

### **Smooth Muscle Cells, Macrophages and Aortic Tissue**

Yamawaki-Ogata,A., Hashizume,R., Satake,M., Kaneko,H., Mizutani,S., Moritan,T., Ueda,Y. and Narita,Y. (2010) A doxycycline loaded, controlled-release, biodegradable fiber for the treatment of aortic aneurysms. *Biomaterials*, **31**, 9554 - 9564.

### **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/iovs.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.

## **2006**

### **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**

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