

Blyscan Assay Citations in Scientific Literature

2012

Human Adipose Tissue ECM Scaffolds and Stem Cells

Choi,J.S., Kim,B.S., Kim,J.D., Choi,Y.C., Lee,H.Y. and Cho,Y.W. (2012) In Vitro Cartilage Tissue Engineering Using Adipose-Derived Extracellular Matrix Scaffolds Seeded with Adipose-Derived Stem Cells. *Tissue Engineering Part A* **18**, 80 - 92.

Multipotent Stromal Cells from Long Bone Fatty Bone Marrow

Cox,G., Boxall,S.A., Giannoudis,P.V., Buckley,C.T., Roshdy,T., Churchman,S.M., McGonagle,D. and Jones,E. (2012) High abundance of CD271+ multipotential stromal cells (MSCs) in intramedullary cavities of long bones. *Bone* **50**, 510 - 517.

Bone Marrow-Derived Mesenchymal Stem Cells

Sheehy,E.J., Buckley,C.T. and Kelly,D.J. (2012) Oxygen Tension Regulates the Osteogenic, Chondrogenic and Endochondral Phenotype of Bone Marrow derived Mesenchymal Stem Cells. *Biochemical and Biophysical Research Communications* **417**, 305 - 310.

2011

Murine Aorta

Baldo,G., Wu,S., Howe,R.A., Ramamoothy,M., Knutsen,R.H., Fang,J., Mecham,R.P., Liu,Y., Wu,X. and Atkinson,J.P. (2011) Pathogenesis of Aortic Dilatation in Mucopolysaccharidosis VII Mice May Involve Complement Activation. *Molecular Genetics and Metabolism* **104**, 608 - 617.

Murine Liver, Spleen, Heart and Kidney Samples

Boado,R.J., Hui,E.K.W., Lu,J.Z., Zhou,Q.H. and Pardridge,W. (2011) Reversal of Lysosomal Storage in Brain of Adult MPS-I Mice with Intravenous Trojan Horse-Iduronidase Fusion Protein. *Molecular Pharmaceutics* **8**, 1342 - 1350.

Rabbit Articular Cartilage

Brahma,S.R.D., Elango,K., Satish Kumar,M.N., Suresh,B., Manimaran,S. and Nanjan,M.J. (2011) *In Vitro* Anti-Inflammatory and Anti-Osteoarthritic Activities of *Strobilanthes kunthianus* and *Strobilanthes cuspidatus*. *International Journal of Research in Pharmacy and Chemistry* **1**, 1265 - 1268.

Adipose Extracellular Matrix Scaffold

Brown,B.N., Freund,J.M., Han,L., Rubin,J.P., Reing,J.E., Jeffries,E.M., Wolf,M.T., Tottey,S., Barnes,C.A. and Ratner,B.D. (2011) Comparison of three methods for the derivation of a biologic scaffold composed of adipose tissue extracellular matrix. *Tissue Engineering Part C: Methods*, **17**, 411 - 421.

Infrapatellar Fat Pad Derived Mesenchymal Stem Cells

Buckley,C.T. and Kelly,D.J. (2011) Expansion in the presence of FGF-2 enhances the functional development of cartilaginous tissues engineered using infrapatellar fat pad derived MSCs. *Journal of the Mechanical Behavior of Biomedical Materials*, <http://dx.doi.org/10.1016/j.jmbbm.2011.09.004>.

Porcine Bone Marrow Derived Mesenchymal Stem Cells

Buckley,C.T. and KELLY,D. (2011) The effect of cyclic hydrostatic pressure on the functional development of cartilaginous tissues engineered using bone marrow derived mesenchymal stem cells. *Journal of the Mechanical Behaviour of Biomedical Materials*, <http://hdl.handle.net/2262/58657>.

Porcine Bone Marrow-Derived Mesenchymal Stem Cells

Buckley,C.T., Meyer,E.G. and Kelly,D.J. (2011) The Influence of Construct Scale on the Composition and Functional Properties of Cartilaginous Tissues Engineered Using Bone Marrow-Derived Mesenchymal Stem Cells. *Tissue Engineering Part A*, doi: 10.1089/ten.tea.2011.0145.

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.

Human Adipose Tissue ECM Scaffolds and Stem Cells

Choi,J.S., Kim,B.S., Kim,J.D., Choi,Y.C., Lee,H.Y. and Cho,Y.W. (2011) In Vitro Cartilage Tissue Engineering Using Adipose-Derived Extracellular Matrix Scaffolds Seeded with Adipose-Derived Stem Cells. *Tissue Engineering Part A*, doi: 10.1089/ten.tea.2011.0103.

Multipotent Stromal Cells from Long Bone Fatty Bone Marrow

Cox,G., Boxall,S.A., Giannoudis,P.V., Buckley,C.T., Roshdy,T., Churchman,S.M., McGonagle,D. and Jones,E. (2011) High abundance of CD271+ multipotential stromal cells (MSCs) in intramedullary cavities of long bones. *Bone*, doi: 10.1016/j.bone.2011.07.016.

Mesenchymal Stem Cells

Cox,G., McGonagle,D., Boxall,S.A., Buckley,C.T., Jones,E. and Giannoudis,P.V. (2011) The use of the reamer-irrigator-aspirator to harvest mesenchymal stem cells. *Journal of Bone and Joint Surgery-British Volume*, **93**, 517.

Rabbit Ear Primary Chondrocytes

Dadsetan,M., Pumberger,M., Casper,M.E., Shogren,K., Giuliani,M., Ruesink,T., Hefferan,T.E., Currier,B.L. and Yaszemski,M.J. (2011) The effects of fixed electrical charge on chondrocyte behavior. *Acta Biomaterialia*, **7**, 2080 - 2090.

Rabbit Articular Cartilage and Mesenchymal Stem Cells

Dashtdar,H., Rothan,H.A., Tay,T., Ahmad,R.E., Ali,R., Tay,L.X., Chong,P.P. and Kamarul,T. (2011) A preliminary study comparing the use of allogenic chondrogenic pre-differentiated and undifferentiated mesenchymal stem cells for the repair of full thickness articular cartilage defects in rabbits. *Journal of Orthopaedic Research* **29**, 1336 - 1342.

Decellularised Porcine Brain extracellular Matrix

DeQuach,J.A., Yuan,S.H., Goldstein,L.S.B. and Christman,K.L. (2011) Decellularized Porcine Brain Matrix for Cell Culture and Tissue Engineering Scaffolds. *Tissue Engineering Part A* **17**, 2583 - 2592.

Human Jurkat T-Lymphoma Derived Cells

Du,J., Che,P.L., Wang,Z.Y., Aich,U. and Yarema,K.J. (2011) Designing a binding interface for control of cancer cell adhesion via 3D topography and metabolic oligosaccharide engineering. *Biomaterials*, **32**, 5427 - 5437.

Articular Cartilage Constructs

Eleswarapu,S.V., Chen,J.A. and Athanasiou,K.A. (2011) Temporal assessment of ribose treatment on self-assembled articular cartilage constructs. *Biochemical and Biophysical Research Communications* **414**, 431 - 436.

Human Umbilical Cord Wharton's Jelly (hWJSC)

Fong,C.Y., Subramanian,A., Gauthaman,K., Venugopal,J., Biswas,A., Ramakrishna,S. and Bongso,A. (2011) Human Umbilical Cord Wharton's Jelly Stem Cells Undergo Enhanced Chondrogenic Differentiation when Grown on Nanofibrous Scaffolds and in a Sequential Two-stage Culture Medium Environment. *Stem Cell Reviews and Reports*, doi: 10.1007/s12015-011-9289-8.

Nucleus Pulposus Cells and N1511 Chondrocytes

Gogate,S.S., Nasser,R., Shapiro,I.M. and Risbud,M.V. (2011) Hypoxic regulation of B1,3 glucuronosyl transferase I (GlcAT I) expression in nucleus pulposus cells of the intervertebral disc: Role of HIF proteins. *Arthritis & Rheumatism*, **63**, 1950 - 1960.

Human Bone Marrow-Derived Mesenchymal Stem Cells

Haleem-Smith,H., Calderon,R., Song,Y., Tuan,R.S. and Chen,F.H. (2011) Cartilage oligomeric matrix protein enhances matrix assembly during chondrogenesis of human mesenchymal stem cells. *Journal of Cellular Biochemistry* doi: 10.1002/jcb.23455.

Anterior Cruciate Ligament Cells

Han,G.Y., Park,S.A., Kim,J.H., Lee,E.K., Kim,H.J., Seo,Y.K., Park,J.K. and Kim,C.W. (2011) Effects of vibration on the proteome expression of anterior cruciate ligament cells. *Experimental Biology and Medicine*, **236**, 783.

Human Mesenchymal Stem Cells

Handorf,A.M. and Li,W.J. (2011) Fibroblast Growth Factor-2 Primes Human Mesenchymal Stem Cells for Enhanced Chondrogenesis. *PloS one*, **6**, e22887.

Mesenchymal Stem Cells

Haugh,M.G., Meyer,E.G., Thorpe,S.D., Vinardell,T., Duffy,G.P. and Kelly,D.J. (2011) Temporal and Spatial Changes in Cartilage-Matrix-Specific Gene Expression in Mesenchymal Stem Cells in Response to Dynamic Compression. *Tissue Engineering Part A* **17**, 3085 - 3093.

Human Cervical Cells

House,M., Daniel,J., Elstad,K., Socrate,S. and Kaplan,D.L. (2011) Oxygen Tension and Formation of Cervical-Like Tissue in Two-Dimensional and Three-Dimensional Culture. *Tissue Engineering Part A* doi: 10.1089/ten.tea.2011.0309.

Calf Knee Joint Femoral Articular Cartilage

Huey,D.J. and Athanasiou,K.A. (2011) Tension-Compression Loading with Chemical Stimulation Results in Additive Increases to Functional Properties of Anatomic Meniscal Constructs. *PloS one*, **6**, e27857.

Human Mesenchymal Cells

Im,G.I., Lee,J.M. and Kim,H.J. (2011) Wnt inhibitors enhance chondrogenesis of human mesenchymal stem cells in a long-term pellet culture. *Biotechnology letters*, **33**, 1061 - 1068.

Adipose Stem Cells

Im,G.I., Kim,H.J. and Lee,J.H. (2011) Chondrogenesis of adipose stem cells in a porous PLGA scaffold impregnated with plasmid DNA containing SOX trio (SOX-5,-6 and-9) genes. *Biomaterials*, **32**, 4385 - 4392.

Adipose Stem Cells

Im,G.I. and Kim,H.J. (2011) Electroporation-mediated gene transfer of SOX trio to enhance chondrogenesis in adipose stem cells. *Osteoarthritis and Cartilage*, **19**, 449 - 457.

Multipotent Mesenchymal Progenitor Cells

Jackson,W.M., Lozito,T.P., Djouad,F., Kuhn,N.Z., Nesti,L.J. and Tuan,R.S. (2011) Differentiation and regeneration potential of mesenchymal progenitor cells derived from traumatized muscle tissue. *Journal of Cellular and Molecular Medicine*, **15**, 2377-2388.

Undetermined Model

Jensen,D.A., Steplewski,A., Gawron,K. and Fertala,A. (2011) Persistence of intracellular and extracellular changes after incompletely suppressing expression of the R789C (p. R989C) and R992C (p. R1192C) collagen II mutants. *Human Mutation* **32**, 794 - 805.

Chondroitin Sulfate Encapsulated in PLGA Microspheres

Jiang,T., Petersen,R.R., Call,G., Ofek,G., Gao,J. and Yao,J.Q. (2011) Development of chondroitin sulfate encapsulated PLGA microsphere delivery systems with controllable multiple burst releases for treating osteoarthritis. *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, **97B**, 355 - 363.

Articular Cartilage Human Chondrocytes

Jonitz,A., Lochner,K., Peters,K., Salamon,A., Pasold,J., Mueller-Hilke,B., Hansmann,D. and Bader,R. (2011) Differentiation Capacity of Human Chondrocytes Embedded in Alginate Matrix. *Connective Tissue Research*, **52**, 503 - 511.

Decellularised Porcine Pulmonary Valves and Endothelial Progenitor Cell-Derived Endothelial Cells

Jordan,J.E., Williams,J.K., Lee,S.J., Raghavan,D., Atala,A. and Yoo,J.J. (2011) Bioengineered self-seeding heart valves. *The Journal of Thoracic and Cardiovascular Surgery* **143**, 201 - 208.

Cadaver Achilles Tendon

Juras,V., Zbýň,+, Pressl,C., Domayer,S.E.R., Hofstaetter,J.G., Mayerhoefer,M.E., Windhager,R. and Trattng,S. (2011) Sodium MR Imaging of Achilles Tendinopathy at 7 T: Preliminary Results. *Radiology* doi: 10.1148/radiol.11110897.

Cadaver Achilles Tendon

Juras,V., Apprich,S., Pressl,C., Zbyn,S., Szomolanyi,P., Domayer,S., Hofstaetter,J. and Trattng,S. (2011) Histological correlation of 7T multi-parametric MRI performed in *ex-vivo* Achilles tendon. *European Journal of Radiology* <http://dx.doi.org/10.1016/j.ejrad.2011.09.022>.

Adipose Stem Cells

Jurgens,W.J., Kroeze,R.J., Bank,R.A., Ritt,M.J.P.F. and Helder,M.N. (2011) Rapid attachment of adipose stromal cells on resorbable polymeric scaffolds facilitates the one-step surgical procedure for cartilage and bone tissue engineering purposes. *Journal of Orthopaedic Research* doi: 10.1002/jor.21314.

Adipose Tissue-Derived Stem Cells

Jurgens,W.J.F.M., Lu,Z., Zandieh-Doulabi,B., Kuik,D.J., Ritt,M.J.P.F. and Helder,M.N. (2011) Hyperosmolarity and hypoxia induce chondrogenesis of adipose-derived stem cells in a collagen type 2 hydrogel. *Journal of Tissue Engineering and Regenerative Medicine* doi: 10.1002/term.464.

Goat Temporomandibular Joint Disc

Kang,H., Bi,Y.D., Li,Z.Q., Qi,M.Y. and Peng,E.M. (2011) Effect of transforming growth factor B (1) and insulin-like growth factor-I on extracellular matrix synthesis of self-assembled constructs of goat temporomandibular joint disc. *Zhonghua Kou Qiang Yi Xue Za Zhi = Chinese Journal of Stomatology*, **46**, 541 - 546.

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 Mesenchymal Stem Cells and Chondrocytes

Kim,H.J. and Im,G.I. (2011) Electroporation-mediated Transfer of SOX Trio Genes (SOX-5, SOX-6, SOX-9) to Enhance the Chondrogenesis of Mesenchymal Stem Cells. *Stem Cells and Development* **20**, 2103 - 2114.

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.

Primary Porcine Annulus Fibrosus Cells

Koepsell,L., Zhang,L., Neufeld,D., Fong,H. and Deng,Y. (2011) Electrospun nanofibrous polycaprolactone scaffolds for tissue engineering of annulus fibrosus. *Macromolecular Bioscience*, **11**, 391 - 399.

Porcine Annulus Fibrosus Cells

Koepsell,L., Remund,T., Bao,J., Neufeld,D., Fong,H. and Deng,Y. (2011) Tissue engineering of annulus fibrosus using electrospun fibrous scaffolds with aligned polycaprolactone fibers. *Journal of Biomedical Materials Research Part A* **99A**, 564 - 575.

Suspension Culture Model of Chondrocytes

Kraft,J.J., Jeong,C., Novotny,J.E., Seacrist,T., Chan,G., Domzalski,M., Turka,C.M., Richardson,D.W. and Dodge,G.R. (2011) Effects of Hydrostatic Loading on a Self-Aggregating, Suspension Culture-Derived Cartilage Tissue Analog. *Cartilage*, **2**, 254.

Human Amniotic Membrane From Fresh Human Placenta

Krishnamurthy,G., Shilpa,P.N., Ahmad,R.E., Sulaiman,S., Ng,C.L.L. and Kamarul,T. (2011) Human amniotic membrane as a chondrocyte carrier vehicle/substrate: *In vitro* study. *Journal of Biomedical Materials Research Part A* **99A**, 500 - 506.

Rat Aorta

Kristo,A.S., Malavaki,C.J., Lamari,F.N., Karamanos,N.K. and Klimis-Zacas,D. (2011) Wild blueberry (*V. angustifolium*)-enriched diets alter aortic glycosaminoglycan profile in the spontaneously hypertensive rat. *The Journal of Nutritional Biochemistry* <http://dx.doi.org/10.1016/j.jnutbio.2011.05.002>.

Porcine Liver Tissue

Lang,R., Stern,M.M., Smith,L., Liu,Y., Bharadwaj,S., Liu,G., Baptista,P.M., Bergman,C.R., Soker,S. and Yoo,J.J. (2011) Three-dimensional culture of hepatocytes on porcine liver tissue-derived extracellular matrix. *Biomaterials* **32**, 7042 - 7052.

Rat Inguinal Fat Adipose Stem Cells

Lee,J.M. and Im,G.I. (2011) SOX trio-co-transduced adipose stem cells in fibrin gel to enhance cartilage repair and delay the progression of osteoarthritis in the rat. *Biomaterials* **33**, 2016 - 2024.

Human Induced Pluripotent Stem Cells

Lemonnier,T., Blanchard,S., Toli,D., Roy,E., Bigou,S., Froissart,R., Rouvet,I., Vitry,S., Heard,J.M. and Bohl,D. (2011) Modeling neuronal defects associated with a lysosomal disorder using patient-derived induced pluripotent stem cells. *Human Molecular Genetics*, **20**, 3653-3666.

Horse Bone Marrow Mesenchymal Stem Cells, Amniotic Fluid Mesenchymal Stem Cells and Umbilical Cord Matrix Mesenchymal Stem Cells

Lovati,A.B., Corradetti,B., Lange Consiglio,A., Recordati,C., Bonacina,E., Bizzaro,D. and Cremonesi,F. (2011) Comparison of equine bone marrow-, umbilical cord matrix and amniotic fluid-derived progenitor cells. *Veterinary research communications*, **35**, 103 - 121.

Rabbit Cartilage

Lim,H., Park,H. and Kim,H.P. (2011) Effects of Flavonoids on Matrix Metalloproteinase-13 Expression of Interleukin-1 β - Treated Articular Chondrocytes and Their Cellular Mechanisms: Inhibition of c-Fos/AP-1 and JAK/STAT Signaling Pathways. *Journal of pharmacological sciences*, **116**, 221-231.

Extracellular Matrix Scaffolds From Mesenchymal Stem Cell Chondrocytes and Fibroblasts.

Lu,H., Hoshiba,T., Kawazoe,N., Koda,I., Song,M. and Chen,G. (2011) Cultured cell-derived extracellular matrix scaffolds for tissue engineering. *Biomaterials* **32**, 9658 - 9666.

Bovine Articular Chondrocytes

Lu,H., Ko,Y.G., Kawazoe,N. and Chen,G. (2011) Culture of bovine articular chondrocytes in funnel-like collagen-PLGA hybrid sponges. *Biomedical Materials*, **6**, 045011.

Murine Fibroblasts

Lu,H., Hoshiba,T., Kawazoe,N. and Chen,G. (2011) Autologous extracellular matrix scaffolds for tissue engineering. *Biomaterials*, **32**, 2489 - 2499.

Rat Tail Discs

Mao,H., Chen,Q., Han,B., Li,F., Feng,J., Shi,Z., Lin,M. and Wang,J. (2011) The Effect of Injection Volume on Disc Degeneration in a Rat Tail Model. *Spine*, **36**, E1062.

Rat Knee Joint

Miclea,R.L., Siebelt,M., Finos,L., Goeman,J.J., Löwik,C., Oostdijk,W., Weinans,H., Wit,J.M., Robanus-Maandag,E.C. and Karperien,M. (2011) Inhibition of Gsk3 β in cartilage induces osteoarthritic features through activation of the canonical Wnt signaling pathway. *Osteoarthritis and Cartilage* **19**, 1363 - 1372.

Normal Human Keratinocytes

Muto,J., Naidu,N.N., Yamasaki,K., Pineau,N., Breton,L. and Gallo,R.L. (2011) Exogenous Addition of a C-Xylopyranoside Derivative Stimulates Keratinocyte Dermatan Sulfate Synthesis and Promotes Migration. *PLoS one*, **6**, e25480.

Nucleus Pulposus Cells

Neidlinger-Wilke,C., Mietsch,A., Rinkler,C., Wilke,H.J., Ignatius,A. and Urban,J. (2011) Interactions of environmental conditions and mechanical loads have influence on matrix turnover by nucleus pulposus cells. *Journal of Orthopaedic Research* **30**, 112 - 121.

Chondrocytes

Nishimura,I., Chano,T., Kita,H., Matsusue,Y. and Okabe,H. (2011) RB1CC1 suppresses type II collagen synthesis in chondrocytes, and causes dwarfism. *Journal of Biological Chemistry* doi: 10.1074/jbc.M111.264192.

Human Fibroblasts and Placenta Extracts

Oh,E.J., Kim,T.K., Shin,J.H., Choi,J.H. and Chung,H.Y. (2011) Biologic Filler Using Human Fibroblasts and Placenta Extracts. *Journal of Craniofacial Surgery*, **22**, 1557.

Human Forearm and Buttock Skin Samples

Oh, J.H., Kim, Y.K., Jung, J.Y., Shin, J., Kim, K.H., Cho, K.H. and Eun, H.C. (2011) Intrinsic aging- and photoaging-dependent level changes of glycosaminoglycans and their correlation with water content in human skin. *Journal of Dermatological Science*, **62**, 192 - 201.

Rodent Decellularised Lung Scaffold

Petersen, T.H., Calle, E.A., Colehour, M.B. and Niklason, L.E. (2011) Matrix Composition and Mechanics of Decellularized Lung Scaffolds. *Cells, Tissues, Organs* doi: 10.1159/000324896.

Human HEMC-SS Chondrosarcoma and Saos-2 Osteosarcoma Cell Lines

Peyrode, C., Weber, V., David, E., Vidal, A., Auzeloux, P., Communal, Y., Dauplat, M.M., Besse, S., Gouin, F. and Heymann, D. (2011) Quaternary ammonium-melphalan conjugate for anticancer therapy of chondrosarcoma: in vitro and in vivo preclinical studies. *Investigational New Drugs*, doi: 10.1007/s10637-011-9663-2.

Dog Articular Chondrocytes

Rai, M.F., Graeve, T., Twardziok, S. and Schmidt, M.F.G. (2011) Evidence for Regulated Interleukin-4 Expression in Chondrocyte-Scaffolds under *In Vitro* Inflammatory Conditions. *PloS one*, **6**, e25749.

Human Articular Chondrocytes

Raimondi, M.T., Bonacina, E., Candiani, G., Laganà, M., Rolando, E., Talò, G., Pezzoli, D., D'Anchise, R., Pietrabissa, R. and Moretti, M. (2011) Comparative chondrogenesis of human cells in a 3D integrated experimental-computational mechanobiology model. *Biomechanics and modeling in mechanobiology*, **10**, 259 - 268.

Human Omental Multipotent Stem Cells (hO-MSCs)

Roldan, M., Macias-Gonzalez, M., Garcia, R., Tinahones, F.J. and Martin, M. (2011) Obesity short-circuits stemness gene network in human adipose multipotent stem cells. *The FASEB Journal*, doi: 10.1096/fj.10-171439.

Murine Brain and Somatic Tissue

Ruzo, A., Garcia, M., Ribera, A., Villacampa, P., Haurigot, V., Marcó, S., Ayuso, E., Anguela, X.M., Roca, C. and Agudo, J. (2011) Liver Production of Sulfamidase Reverses Peripheral and Ameliorates CNS Pathology in Mucopolysaccharidosis IIIA Mice. *Molecular Therapy* doi: 10.1038/mt.2011.220.

CF Sputum Samples

Scott, A., Weldon, S., Buchanan, P.J., Schock, B., Ernst, R.K., McAuley, D.F., Tunney, M.M., Irwin, C.R., Elborn, J.S. and Taggart, C.C. (2011) Evaluation of the Ability of LL-37 to Neutralise LPS *In Vitro* and *Ex Vivo*. *PloS One*, **6**, e26525.

Human Pericardial Tissue

Seif-Naraghi, S.B., Horn, D., Schup-Magoffin, P.A., Madani, M.M. and Christman, K.L. (2011) Patient-to-Patient Variability in Autologous Pericardial Matrix Scaffolds for Cardiac Repair. *Journal of Cardiovascular Translational Research*, **4**, 545 - 556.

Human Mesenchymal Stem Cells

Shah, B.S., Clark, P.A., Muioli, E.K., Stroschio, M.A. and Mao, J.J. (2011) Labeling of Mesenchymal Stem Cells by Bioconjugated Quantum Dots. *Methods in Molecular Biology*, **680**, 61 - 75.

Porcine Chondrocytes and Bone Marrow-Derived Mesenchymal Stem Cells

Sheehy, E.J., Buckley, C.T. and Kelly, D.J. (2011) Chondrocytes and bone marrow-derived mesenchymal stem cells undergoing chondrogenesis in agarose hydrogels of solid and channelled architectures respond differentially to dynamic culture conditions. *Journal of Tissue Engineering and Regenerative Medicine* **5**, 747 - 758.

Human Knee Articular Cartilage

Shet,K., Siddiqui,S.M., Yoshihara,H., Kurhanewicz,J., Ries,M. and Li,X. (2011) High-resolution magic angle spinning NMR spectroscopy of human osteoarthritic cartilage. *NMR in Biomedicine* doi: 10.1002/nbm.1769.

Human Articular Chondrocytes

Smith,R.L., Lindsey,D.P., Dhulipala,L., Harris,A.H.S., Goodman,S.B. and Maloney,W.J. (2011) Effects of intermittent hydrostatic pressure and BMP-2 on osteoarthritic human chondrocyte metabolism in vitro. *Journal of Orthopaedic Research* **29**, 361 - 368.

Primary Chondrocytes

Sun,L., Wang,X. and Kaplan,D.L. (2011) A 3D cartilage-Inflammatory cell culture system for the modeling of human osteoarthritis. *Biomaterials*, **32**, 5581 - 5589.

Tissue Engineered Articular Cartilage

Sun,Y., Responde,D., Xie,H., Liu,J., Fatakdawala,H., Hu,J., Athanasiou,K. and Marcu,L. (2011) Nondestructive evaluation of tissue engineered articular cartilage using time-resolved fluorescence spectroscopy and ultrasound backscatter microscopy. *Tissue Engineering Part C*, doi: 10.1089.ten .TEC.2011.0343.

Mesenchymal Stem Cells

Tan,S.L., Sulaiman,S., Pinguan-Murphy,B., Selvaratnam,L., Tai,C.C. and Kamarul,T. (2011) Human amnion as a novel cell delivery vehicle for chondrogenic mesenchymal stem cells. *Cell and tissue banking*, **12**, 59 - 70.

Rabbit Mesenchymal Stem Cells and Chondrocytes

Tay,L.X., Ahmad,R.E., Dashtdar,H., Tay,K.W., Masjuddin,T., Ab-Rahim,S., Chong,P.P., Selvaratnam,L. and Kamarul,T. (2011) Treatment Outcomes of Alginate-Embedded Allogenic Mesenchymal Stem Cells Versus Autologous Chondrocytes for the Repair of Focal Articular Cartilage Defects in a Rabbit Model. *The American Journal of Sports Medicine* doi: 10.1177/0363546511420819.

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.

Porcine Small intestinal Submucosa (SIS)-Extracellular Matrix

Tottey,S., Johnson,S.A., Crapo,P.M., Reing,J.E., Zhang,L., Jiang,H., Medberry,C.J., Reines,B. and Badylak,S.F. (2011) The effect of source animal age upon extracellular matrix scaffold properties. *Biomaterials*, **32**, 128-136.

Porcine Chondrocytes

Tran,S.C., Cooley,A.J. and Elder,S.H. (2011) Effect of a mechanical stimulation bioreactor on tissue engineered, scaffold-free cartilage. *Biotechnology and Bioengineering* doi: 10.1002/bit.23061.

Feline Brain Tissue

Vite,C.H., Wang,P., Patel,R.T., Walton,R.M., Walkley,S.U., Sellers,R.S., Ellinwood,N.M., Cheng,A.S., White,J.T. and O'Neill,C.A. (2011) Biodistribution and Pharmacodynamics of Recombinant Human Alpha-L-Iduronidase (rhIDU) in Mucopolysaccharidosis Type I-Affected Cats Following Multiple Intrathecal Administrations. *Molecular Genetics and Metabolism*, **103**, 268 - 274.

Murine Embryonic Fibroblasts and Murine Tissue

Wang,D., Belakhov,V., Kandasamy,J., Baasov,T., Li,S.C., Li,Y.T., Bedwell,D.M. and Keeling,K.M. (2011) The Designer Aminoglycoside NB84 Significantly Reduces Glycosaminoglycan Accumulation Associated with MPS IH in the *Idua-W392X* Mouse. *Molecular Genetics and Metabolism* **105**, 116 - 125.

Porcine Temporomandibular Joint Disc-Attachment Complexes

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Zebrafish Skeleton

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