

タイトル	細胞腫	Cell type	種類
The role of focal adhesion anchoring domains of CAS in mechanotransduction	CAS <sup>-/-</sup> マウス胚性線維芽細胞	CAS <sup>-/-</sup> Mouse embryonic fibroblasts	HTML
Modeling human somite development and fibrodysplasia ossificans progressiva with induced pluripotent stem cells	iPS細胞由来のSYNと臍細胞	iPSC-derived SYNs and tenocytes	HTML
In Vitro Generation of Somite Derivatives from Human Induced Pluripotent Stem Cells	iPS細胞由来のSYNと臍細胞	iPSC-derived SYNs and tenocytes	HTML
Mechanical Stress Contribute to Pulmonary Fibrosis via Mitochondrial Damage of Type II Alveolar Epithelial Cells	ヒトII型肺胞上皮細胞(A549) 線維芽細胞(IMR-90)	Human type II alveolar epithelial cells (A549) Fibroblast cells (IMR-90)	HTML
Endothelial $\beta$ 1 Integrin-Mediated Adaptation to Myocardial Ischemia	ヒト冠状動脈内皮細胞	Human Coronary Artery Endothelial Cells	HTML
Hypoxia suppresses stretch-induced elongation and orientation of macrophages	ヒト急性単球性白血病由来細胞株	Acute monocytic leukemia THP-1 cell line	PDF
UBTD1 is a mechano-regulator controlling cancer aggressiveness	ヒト前立腺がん細胞株 ヒト肺胞基底上皮腺癌細胞	DU145 Lung carcinoma A549 cells	HTML
Genetically variant human pluripotent stem cells selectively eliminate wild-type counterparts through YAP-mediated cell competition	ヒト多能性幹細胞	Human pluripotent stem cell	HTML
PERIVASCULAR CELLS DERIVED FROM HUMAN PLURIPOTENT STEM CELLS USING BIOCHEMICAL AND BIOMECHANICAL STIMULI	ヒト多能性幹細胞 血管平滑筋細胞	Human pluripotent stem cell Vascular smooth muscle cells	HTML
Wide field of view quantitative imaging of cellular ATP release	ヒト肺胞基底上皮腺癌細胞	Lung carcinoma cells A549	HTML
Imaging and characterization of stretch-induced ATP release from alveolar A549 cells	ヒト肺胞基底上皮腺癌細胞	Lung carcinoma cells A549	HTML
Mechanical regulation of macrophage function – cyclic tensile force inhibits NLRP3 inflammasome-dependent IL-1 $\beta$ secretion in murine macrophages	マウスマクロファージ様株化細胞 J774.1 マウス骨髄由来マクロファージ(BMDM)	Murine macrophage cell line J774.1 Mouse bone marrow-derived macrophages	HTML
Cyclic Stretch Negatively Regulates IL-1 $\beta$ Secretion Through the Inhibition of NLRP3 Inflammasome Activation by Attenuating the AMP Kinase Pathway	マウスマクロファージ様株化細胞 骨髄細胞	Macrophage-like cell line J774.1 Bone marrow cells	HTML
Genetic and Mechanical Regulation of Intestinal Smooth Muscle Development	らせん平滑筋 中腸	Helical smooth muscle Midgut	HTML
TRPV4 participates in pressure-induced inhibition of renin secretion by juxtaglomerular cells	レニン産生細胞株(As4.1)	Renin-expressing clonal cell line As4.1	HTML
Early postoperative oral intake accelerates upper gastrointestinal anastomotic healing in the rat model	胃線維芽細胞	Gastric fibroblasts	PDF

Transient receptor potential vanilloid 4-dependent calcium influx and ATP release in mouse and rat gastric epithelia	胃粘膜上皮細胞	Gastric mucosal cell line RGE1-01	HTML
Angiopoietin-Like Protein 2 Induced by Mechanical Stress Accelerates Degeneration and Hypertrophy of the Ligamentum Flavum in Lumbar Spinal Canal Stenosis	黃色韌帶線維芽細胞	Ligamentum flavum fibroblasts	HTML
Periosteum-derived cells respond to mechanical stretch and activate Wnt and BMP signaling pathways	顎骨骨膜由来細胞	Jaw bone periosteum cells	PDF
Distinct mechanosensitive Ca <sup>2+</sup> influx mechanisms in human primary synovial fibroblasts	滑膜線維芽細胞	Synovial fibroblasts	HTML
Swelling-induced upregulation of miR-141-3p inhibits hepatocyte proliferation	肝細胞	Hepatocytes	HTML
ERK1/2 Mediates Mechanical Stretch-Induced Proliferation of Bone Marrow-Derived Mesenchymal Stem Cells	間葉系幹細胞	Mesenchymal stem cells	HTML
CTS Effect of Focal Adhesion Kinase on the Regulation of Realignment and Tenogenic Differentiation of Human Mesenchymal Stem Cells by Mechanical Stretch	間葉系幹細胞	Mesenchymal stem cells	PDF
Mechanical Stretch-Induced Changes in Cell Morphology and mRNA Expression of Tendon/Ligament-Associated Genes in Rat Bone-Marrow Mesenchymal Stem Cells	間葉系幹細胞	Mesenchymal stem cells	HTML
RhoA/ROCK, Cytoskeletal Dynamics, and Focal Adhesion Kinase are Required for Mechanical Stretch-Induced Tenogenic Differentiation of Human Mesenchymal Stem Cells	間葉系幹細胞	Mesenchymal stem cells	PDF
Determination of optimal cyclic uniaxial stretches for stem cell-to-tenocyte differentiation under a wide range of mechanical stretch conditions by evaluating gene expression and protein synthesis levels	間葉系幹細胞	Mesenchymal stem cells	PDF
Fate of tenogenic differentiation potential of human bone marrow stromal cells by uniaxial stretching affected by stretch-activated calcium channel agonist gadolinium	間葉系幹細胞	Mesenchymal stem cells	HTML
SAT0572 The Effect of Interleukin-4 on Mechanical Stress-Induced Protease Expressions by Human Chondrocytes	關節軟骨細胞	Human Articular Chondrocytes	HTML
AB0072 Hyaluronan inhibition of mechanical stress-induced protease expressions by human chondrocytes	關節軟骨細胞	Human Articular Chondrocytes	HTML
A Novel Ca <sup>2+</sup> Influx Pathway Activated by Mechanical Stretch in Human Airway Smooth Muscle Cells	氣管平滑筋細胞	Airway smooth muscle cells	HTML
Real-Time Imaging of ATP Release Induced by Mechanical Stretch in Human Airway Smooth Muscle Cells	氣管平滑筋細胞	Airway smooth muscle cells	HTML
Cyclic stretch enhances reorientation and differentiation of 3-D culture model of human airway smooth muscle	氣管平滑筋細胞	Airway smooth muscle cells	HTML
Microtubule Dynamics Regulate Cyclic Stretch-Induced Cell Alignment in Human Airway Smooth Muscle Cells	氣管平滑筋細胞	Airway smooth muscle cells	HTML

Characterization of contraction-inducible CXC chemokines and their roles in C2C12 myocytes	筋芽細胞	Myoblasts cell C2C12	HTML
The mechanical stimulation of cells in 3D culture within a self-assembling peptide hydrogel	筋芽細胞	Myoblasts cell C2C12	HTML
Caveolae respond to cell stretch and contribute to stretch-induced signaling	筋芽細胞	Myoblast cell	HTML
Mechanosensitive Ion Channel Piezo1 Regulates Myocyte Fusion during Skeletal Myogenesis	筋芽細胞	Myoblast cell	HTML
Cyclic Stretch Facilitates Myogenesis in C2C12 Myoblasts and Rescues Thiazolidinedione-Inhibited Myotube Formation	筋芽細胞	Myoblast cell	HTML
Heartbeat regulates cardiogenesis by suppressing retinoic acid signaling via expression of miR-143	筋芽細胞 心筋細胞	Myoblasts cell C2C12 Cardiomyocytes H9C2	HTML
A novel mechanism of myocyte degeneration involving the Ca <sup>2+</sup> -permeable growth factor-regulated channel	筋管細胞	Myotube	HTML
Mechanical activation of TRPV4 channels controls albumin reabsorption by proximal tubule cells	近位尿細管	Proximal tubule	PDF
Mechanosensitive EPLIN-dependent remodeling of adherens junctions regulates epithelial reshaping	結腸直腸腺癌細胞株	DLD-1	HTML
Involvement of SA channels in orienting response of cultured endothelial cells to cyclic stretch	血管內皮細胞	Endothelial cells	HTML
Role of Intercellular Junctions in Redistribution of Focal Adhesions and Orientation of Vascular Endothelial Cells Exposed to Cyclic Stretching	血管內皮細胞	Endothelial cells	HTML
Orientation of apical and basal actin stress fibers in isolated and subconfluent endothelial cells as an early response to cyclic stretching	血管內皮細胞	Endothelial cells	HTML
Preparation of PIPAAm modified silicone elastomer by using electron beam irradiation	血管內皮細胞	Endothelial cells	PDF
Impaired vascular smooth muscle cell force-generating capacity and phenotypic deregulation in Marfan Syndrome mice	血管平滑筋細胞	Vascular Smooth muscle cells	HTML
Mechanical Strain Increases Expression of Type XII Collagen in Murine Osteoblasts MC3T3-E1 Cells	骨芽細胞	Osteoblasts	PDF
Calcium regulates the PI3K-Akt pathway in stretched osteoblasts	骨芽細胞	Osteoblasts	HTML
Strain waveform dependence of stress fiber reorientation in cyclically stretched osteoblastic cells: effects of viscoelastic compression of stress fibers	骨芽細胞	Osteoblasts	HTML

Conditions for Osteoblast Arrangement Induced under Long-Term Cyclic Stretching	骨芽細胞	Osteoblasts	PDF
In situ time-series monitoring of collagen fibers produced by standing-cultured osteoblasts using a second-harmonic-generation microscope	骨芽細胞	Osteoblasts	PDF
The Expression of Fn14 via Mechanical Stress-activated JNK Contributes to Apoptosis Induction in Osteoblasts	骨芽細胞	Osteoblasts	HTML
Quantitative in situ time-series evaluation of osteoblastic collagen synthesis under cyclic strain using second-harmonic-generation microscopy	骨芽細胞	Osteoblasts	HTML
Photocrosslinkable and Elastomeric Hydrogels for Bone Regeneration	骨芽細胞	Osteoblasts	HTML
Methionine Enkephalin Suppresses Osteocyte Apoptosis Induced by Compressive Force through Regulation of Nuclear Translocation of NFATc1	骨細胞様細胞株	Osteocyte MLO-Y4	HTML
Cyclic mechanical stretch contributes to network development of osteocyte-like cells with morphological change and autophagy promotion but without preferential cell alignment in rat	骨細胞様細胞株	Osteocyte	HTML
Dependence of cyclic stretch-induced stress fiber reorientation on stretch waveform	骨肉腫細胞	Osteosarcoma cells U2OS	HTML
Inhibition of adipocyte differentiation by mechanical stretching through ERK-mediated downregulation of PPAR $\gamma$ 2	脂肪細胞株	Preadipocyte cell line 3T3-L1	PDF
Involvement of Cyclooxygenase-2 in Synergistic Effect of Cyclic Stretching and Eicosapentaenoic Acid on Adipocyte Differentiation	脂肪細胞株	Preadipocyte cell line 3T3-L1	PDF
Latent Transforming Growth Factor- $\beta$ Binding Protein 2 Negatively Regulates Coalescence of Oxytalan Fibers Induced by Stretching Stress	歯根膜線維芽細胞	Periodontal ligament fibroblasts	HTML
Stretching Induces the Rearrangement of the Periodontal Ligament Cells without Altering the Orientation of Oxytalan Fibers Relative to the Cell Axis in Vitro	歯根膜線維芽細胞	Periodontal ligament fibroblasts	PDF
Effects of Daidzein on the Production of Type I Collagen and Matrix Metalloproteinase1 by Stretched Human Periodontal Ligament Cells	歯根膜線維芽細胞	Periodontal ligament fibroblasts	PDF
R-spondin 2 promotes osteoblastic differentiation of immature human periodontal ligament cells through the Wnt/beta-catenin signaling pathway	歯根膜線維芽細胞	Periodontal ligament fibroblasts	PDF
Daidzein induces bone morphogenetic protein-2 and runt-related transcription 2 on periodontal ligament cells after experimental tooth movement	歯根膜線維芽細胞	Periodontal ligament fibroblasts	HTML
The Stromal Cell-derived Factor-1 Expression Protected in Periodontal Tissues Damage during Occlusal Traumatism	歯根膜線維芽細胞	Periodontal ligament fibroblasts	PDF
Accelerated construction of an in vitro model of human periodontal ligament tissue: vacuum plasma combined with fibronectin coating and a polydimethylsiloxane matrix	歯根膜線維芽細胞	Periodontal ligament fibroblasts	HTML

Cyclic Stretch Force Induces Periodontal Ligament Cells to Secrete Exosomes That Suppress IL-1 $\beta$ Production Through the Inhibition of the NF- $\kappa$ B Signaling Pathway in Macrophages	齒根膜線維芽細胞 齒肉線維芽細胞	Periodontal ligament fibroblasts Human gingival fibroblasts	HTML
Mechanical Stretch Increases the Proliferation While Inhibiting the Osteogenic Differentiation in Dental Pulp Stem Cells	齒髓幹細胞	Dental pulp stem cells	HTML
Characteristics of subepithelial fibroblasts as a mechano-sensor in the intestine: cell-shape-dependent ATP release and P2Y1 signaling	上皮下線維芽細胞	Subepithelial fibroblasts	HTML
Protective Roles of Interferon- $\gamma$ in Cardiac Hypertrophy Induced by Sustained Pressure Overload	心筋細胞	Cardiomyocytes	HTML
Disruption of actin dynamics regulated by Rho effector mDia1 attenuates pressure overload-induced cardiac hypertrophic responses and exacerbates dysfunction	心筋細胞	Cardiomyocytes	PDF
Novel Mechanisms of Valsartan on the Treatment of Acute Myocardial Infarction Through Inhibition of the Antiadhesion Molecule Periostin	心筋細胞	Cardiomyocytes	PDF
Phosphorylation of TRPC6 Channels at Thr69 Is Required for Anti-hypertrophic Effects of Phosphodiesterase 5 Inhibition	心筋細胞	Cardiomyocytes	HTML
ARRHYTHMOGENESIS AND CONDUCTION PROPERTIES OF CARDIOMYOCYTES IN RESPONSE TO DYSSYNCHRONOUS MECHANICAL AND ELECTRICAL STIMULATION	心筋細胞	Cardiomyocytes	PDF
Excessive cardiac insulin signaling exacerbates systolic dysfunction induced by pressure overload in rodents	心筋細胞	Cardiomyocytes	HTML
TRPC3 positively regulates reactive oxygen species driving maladaptive cardiac remodeling	心筋細胞	Cardiomyocytes	HTML
The mechanical effects of CRT promoting autophagy via mitochondrial calcium uniporter down-regulation and mitochondrial dynamics alteration	心筋細胞	Cardiomyocytes	HTML
2-Aminobutyric acid modulates glutathione homeostasis in the myocardium	心筋細胞	Cardiomyocytes H9c2	HTML
L-type calcium channel modulates mechanosensitivity of the cardiomyocyte cell line H9c2	心筋細胞	Cardiomyocytes H9c2	HTML
Stretch of Atrial Myocytes Stimulates Recruitment of Macrophages via ATP Released Through Gap-Junction Channels	心筋細胞	Atrial myocyte cell line HL-1	PDF
Exploring Regulatory Mechanisms of Atrial Myocyte Hypertrophy of Mitral Regurgitation through Gene Expression Profiling Analysis: Role of NFAT in Cardiac Hypertrophy	心筋細胞	Atrial myocyte cell line HL-1	HTML
Functional Role of the L396R Mutation of Tks5 Identified by an Exome-Wide Association Study in Atrial Fibrillation	心筋細胞	Atrial myocyte cell line HL-1	PDF
Idi1 and Hmgcs2 Are Affected by Stretch in HL-1 Atrial Myocytes	心筋細胞	Atrial myocyte cell line HL-1	PDF

An abnormal TRPV4-related cytosolic Ca <sup>2+</sup> rise in response to uniaxial stretch in induced pluripotent stem cells-derived cardiomyocytes from dilated cardiomyopathy patients	心筋細胞	Human ES cell line iPSC-CMs	HTML
The intracellular Ca <sup>2+</sup> concentration is elevated in cardiomyocytes differentiated from hiPSCs derived from a Duchenne muscular dystrophy patient	心筋細胞	Cardiomyocytes differentiated from hiPSCs	HTML
The CR9 element is a novel mechanical load-responsive enhancer that regulates natriuretic peptide genes expression	心筋細胞, 心筋線維芽細胞	Cardiomyocytes, Cardiac fibroblasts	PDF
Crim1 suppresses left ventricular hypertrophy	心室筋細胞	Ventricular myocytes	HTML
The Effects of Mechanical Stress on the Growth, Differentiation, and Paracrine Factor Production of Cardiac Stem Cells	心臓幹細胞	Cardiac stem cells	HTML
Standardized Scalp Massage Results in Increased Hair Thickness by Inducing Stretching Forces to Dermal Papilla Cells in the Subcutaneous Tissue	真皮乳頭細胞	Dermal papilla cells	HTML
TRPV2 is required for mechanical nociception and the stretch-evoked response of primary sensory neurons	脊髄後根神経節ニューロン	Dorsal root ganglion (DRG) neuron	HTML
Contribution of plasma membrane lipid domains to red blood cell (re)shaping	赤血球	Red blood cell	HTML
Cyclic stretch induces upregulation of endothelin-1 with keratinocytes in vitro: Possible role in mechanical stress-induced hyperpigmentation	線維芽細胞	Fibroblast Keratinocytes	HTML
Mechanical Stretch on Human Skin Equivalent Increases the Epidermal Thickness and Develops the Basement Membrane	線維芽細胞	Fibroblast Keratinocytes	HTML
Mechanical Role of Nesprin-1-Mediated Nucleus-Actin Filament Binding in Cyclic Stretch-Induced Fibroblast Elongation	線維芽細胞	Fibroblast	HTML
Two Diverse Hemodynamic Forces, a Mechanical Stretch and a High Wall Shear Stress, Determine Intracranial Aneurysm Formation	線維芽細胞	Fibroblast hAoFB	PDF
Downregulation of CFTR Is Involved in the Formation of Hypertrophic Scars	線維芽細胞	Fibroblast	PDF
Glucocorticoid counteracts cellular mechanoresponses by LINC01569-dependent glucocorticoid receptor-mediated mRNA decay	線維芽細胞	Fibroblast	HTML
Possible role of rivaroxaban in attenuating pressure-overload-induced atrial fibrosis and fibrillation	線維芽細胞	Fibroblast	HTML
Mechanical stretch induces Ca <sup>2+</sup> influx and extracellular release of -PGE <sub>2</sub> through Piezo1 activation in trabecular meshwork cells	線維柱帯細胞	Trabecular meshwork	HTML
Piezo 1 is involved in intraocular pressure regulation	線維柱帯細胞	Trabecular meshwork	HTML

TRPV4 Inhibition and CRISPR-Cas9 Knockout Reduce Inflammation Induced by Hyperphysiological Stretching in Human Annulus Fibrosus Cells	線維輪細胞	Annulus fibrosus cells	PDF
Cyclic tensile strain stimulates CTGF/CCN2 expression in human anterior cruciate ligament-derived cells.	前十字韌帶	Human anterior cruciate ligament-derived cells	PDF
Uniaxial cyclic stretch stimulates TRPV4 to induce realignment of human embryonic stem cell-derived cardiomyocytes	多能性幹細胞由来心筋	Pluripotent stem cell-derived myocardium	PDF
Mechanotransduction in an extracted cell model: Fyn drives stretch- and flow-elicited PECAM-1 phosphorylation	大動脈内皮細胞	Aortic endothelial cells	HTML
Stretch-Induced Stress Fiber Remodeling and the Activations of JNK and ERK Depend on Mechanical Strain Rate, but Not FAK	大動脈内皮細胞	Aortic endothelial cells	HTML
Down-regulation of ERK but not MEK phosphorylation in cultured endothelial cells by repeated changes in cyclic stretch	大動脈内皮細胞	Aortic endothelial cells	HTML
Remodeling of Endothelial Cell Nucleus Exposed to Three Different Mechanical Stimuli	大動脈内皮細胞	Aortic endothelial cells	PDF
Mechanotransduction properties of the cytoplasmic tail of PECAM-1	大動脈内皮細胞	Aortic endothelial cells	HTML
Influence of poly(N-isopropylacrylamide) (PIPAAm) graft density on properties of PIPAAm grafted poly(dimethylsiloxane) surfaces and their stability	大動脈内皮細胞	Aortic endothelial cells	HTML
Olmesartan inhibits cultured rat aortic smooth muscle cell death induced by cyclic mechanical stretch through the inhibition of the c-Jun N-terminal kinase and p38 signaling pathways	大動脈平滑筋細胞	Aortic smooth muscle cells	HTML
Effects of Three-Dimensional Culture and Cyclic Stretch Stimulation on Expression of Contractile Proteins in Freshly Isolated Rat Aortic Smooth Muscle Cells.	大動脈平滑筋細胞	Aortic smooth muscle cells	PDF
Biomechanical Forces Activate Tissue Transglutaminase Resulting in Vascular Remodeling and Stiffening	大動脈平滑筋細胞	Aortic smooth muscle cells	HTML
Chemokines protect vascular smooth muscle cells from cell death induced by cyclic mechanical stretch	大動脈平滑筋細胞	Aortic smooth muscle cells	HTML
The involvement of aldosterone in cyclic stretch-mediated activation of NADPH oxidase in vascular smooth muscle cells	大動脈平滑筋細胞	Aortic smooth muscle cells	HTML
Dynamic Changes of Traction Force at Focal Adhesions during Macroscopic Cell Stretching Using an Elastic Micropillar Substrate: Tensional Homeostasis of Aortic Smooth Muscle Cells	大動脈平滑筋細胞	Aortic smooth muscle cells	PDF
Azelinidipine Inhibits Cultured Rat Aortic Smooth Muscle Cell Death Induced by Cyclic Mechanical Stretch	大動脈平滑筋細胞	Aortic smooth muscle cells	HTML
Biomechanical strain induces elastin and collagen production in human pluripotent stem cell-derived vascular smooth muscle cells	大動脈平滑筋細胞	Aortic smooth muscle cells	HTML

L1CAM-ILK-YAP Mechanotransduction Drives Proliferative Activity of Epithelial Cells in Middle Ear Cholesteatoma	中耳上皮細胞	Middle-ear epithelial cells	HTML
Angiopoietin-Like Protein 2 Induces Synovial Inflammation in the Facet Joint Leading to Degenerative Changes via Interleukin-6 Secretion	椎間關節滑膜細胞	Facet joint synoviocytes	HTML
Histone deacetylase inhibitors suppress mechanical stress-induced expression of RUNX-2 and ADAMTS-5 through the inhibition of the MAPK signaling pathway in cultured human chondrocytes	軟骨細胞	Chondrocytes	HTML
Probing the microenvironmental conditions for induction of superficial zone protein expression	軟骨細胞	Chondrocytes	HTML
Engineering Chondrogenic Microenvironments for Tissue Engineering Applications	軟骨細胞	Chondrocytes	HTML
p21 deficiency is susceptible to osteoarthritis through STAT3 phosphorylation	軟骨細胞	Chondrocytes	HTML
P21 regulates mmp-13 expression and decreased aggrecan expression via STAT3/ SDF-1 pathway	軟骨細胞	Chondrocytes	HTML
Mechanical stress loading induces CD44 cleavage in human chondrocytic HCS-2/8 cells	軟骨細胞	Chondrocytes	PDF
Inhibition of CD44 intracellular domain production suppresses bovine articular chondrocyte de-differentiation induced by excessive mechanical stress loading	軟骨細胞	Chondrocytes	HTML
CCN Family Member 2/Connective Tissue Growth Factor (CCN2/CTGF) Has Anti-Aging Effects That Protect Articular Cartilage from Age-Related Degenerative Changes	軟骨細胞	Chondrocytes	HTML
Gremlin1 induced by excessive mechanical stress loading enhances cartilage degradation	軟骨細胞	Chondrocytes	HTML
Involvement of Transient Receptor Potential Vanilloid Channel 2 in the Induction of Lubricin and Suppression of Ectopic Endochondral Ossification in Mouse Articular Cartilage	軟骨細胞	Chondrocytes	PDF
Excessive mechanical loading promotes osteoarthritis through the gremlin-1-NF- $\kappa$ B pathway	軟骨細胞	Chondrocytes	HTML
Hyaluronan suppresses enhanced cathepsin K expression via activation of NF- $\kappa$ B with mechanical stress loading in a human chondrocytic HCS-2/8 cells	軟骨肉腫細胞	Chondrocytes HCS-2/8	HTML
Regulation of mechanical stress-induced MMP-13 and ADAMTS-5 expression by RUNX-2 transcriptional factor in SW1353 chondrocyte-like cells	軟骨肉腫細胞	Chondrocytes SW1353	HTML
Tensile strain increases expression of CCN2 and COL2A1 by activating TGF- $\beta$ -Smad2/3 pathway in chondrocytic cells	軟骨肉腫細胞株	Chondrosarcoma cell line SW1353	PDF
The TRPV4 Cation Channel Mediates Stretch-evoked Ca <sup>2+</sup> Influx and ATP Release in Primary Urothelial Cell Cultures	尿路上皮細胞	Urothelial Cell	HTML

The kinase Pyk2 is involved in renal fibrosis by means of mechanical stretch-induced growth factor expression in renal tubules	尿路上皮細胞	Urothelial Cell	HTML
Functional Role for Piezo1 in Stretch-evoked Ca <sup>2+</sup> Influx and ATP Release in Urothelial Cell Culture	尿路上皮細胞	Urothelial Cell	HTML
Urothelial ATP exocytosis: regulation of bladder compliance in the urine storage phase	尿路上皮細胞	Urothelial Cell	HTML
P2Y6-deficiency increases micturition frequency and attenuates sustained contractility of the urinary bladder in mice	尿路上皮細胞	Urothelial Cell	HTML
ERK-mediated Curvature Feedback Regulates Branching Morphogenesis in Lung Epithelial Tissue	肺上皮組織	Lung epithelial tissues	PDF
Uni-axial cyclic stretch induces the activation of transcription factor nuclear factor $\kappa$ B in human fibroblast cells	肺線維芽細胞	Human lung fibroblasts TIG-1	HTML
Uni-axial stretching regulates intracellular localization of Hic-5 expressed in smooth-muscle cells in vivo	肺線維芽細胞	Human lung fibroblasts TIG-1	PDF
Involvement of reactive oxygen species in cyclic stretch-induced NF- $\kappa$ B activation in human fibroblast cells	肺線維芽細胞	Human lung fibroblasts TIG-1	HTML
Real-time imaging of mechanically and chemically induced ATP release in human lung fibroblasts	肺線維芽細胞	Human lung fibroblasts TIG-1	PDF
Vascular endothelial cell membranes differentiate between stretch and shear stress through transitions in their lipid phases	肺動脈内皮細胞	Pulmonary artery ESc	HTML
Actin Cytoskeleton Regulates Stretch-Activated Ca <sup>2+</sup> Influx in Human Pulmonary Microvascular Endothelial Cells	肺微小血管内皮細胞	Human Pulmonary Microvascular Endothelial Cells	HTML
Type 2 secretory cells are primary source of ATP release in mechanically stretched lung alveolar cells	肺胞上皮細胞	Alveolar epithelial cells	HTML
Role of Rho small GTPases in meniscus cells	半月板細胞	Meniscus cells	HTML
Mechanical stretch increases Smad3-dependent CCN2 expression in inner meniscus cells	半月板細胞	Meniscus cells	HTML
Mechanical stretch enhances COL2A1 expression on chromatin by inducing SOX9 nuclear translocation in inner meniscus cells	半月板細胞	Meniscus cells	HTML
Differences between the root and horn cells of the human medial meniscus from the osteoarthritic knee in cellular characteristics and responses to mechanical stress	半月板細胞	Meniscus cells	HTML
A Precise, Controllable in vitro Model for Diffuse Axonal Injury Through Uniaxial Stretch Injury	皮質ニューロン	Primary cortical neurons	HTML

Stretch-Induced Tenomodulin Expression Promotes Tenocyte Migration via F-Actin and Chromatin Remodeling	腱細胞	Tenocytes	PDF
Mechanical loading increased BMP-2 expression which promoted osteogenic differentiation of tendon-derived stem cells	腱由来幹細胞	Tendon-derived stem cells	HTML
Cystic fibrosis transmembrane conductance regulator mediates tenogenic differentiation of tendon-derived stem cells and tendon repair: accelerating tendon injury healing by intervening in its downstream signaling	腱由来幹細胞	Tendon-derived stem cells	HTML
Involvement of STAT3 in Bladder Smooth Muscle Hypertrophy Following Bladder Outlet Obstruction	膀胱平滑筋細胞	Bladder smooth muscle cells	PDF
Mechanotransduction by integrin is essential for IL-6 secretion from endothelial cells in response to uniaxial continuous stretch	臍帶靜脈内皮細胞	Human umbilical vein endothelial cells	HTML
Protamine augments stretch induced calcium increase in vascular endothelium	臍帶靜脈内皮細胞	Human umbilical vein endothelial cells	HTML
Pp125FAK is required for stretch dependent morphological response of endothelial cells	臍帶靜脈内皮細胞	Human umbilical vein endothelial cells	PDF
The Effect of Cyclic Uniaxial Stretch on E-Selectin Expression in HUVEC Cells	臍帶靜脈内皮細胞	Human umbilical vein endothelial cells	HTML
Endocardial TRPC-6 Channels Act as Atrial Mechanosensors and Load-Dependent Modulators of Endocardial/Myocardial Cross-Talk	臍帶靜脈内皮細胞	Human umbilical vein endothelial cells	HTML
Rho guanine nucleotide exchange factors involved in cyclic-stretch-induced reorientation of vascular endothelial cells	臍帶靜脈内皮細胞	Human umbilical vein endothelial cells	PDF
Uni-axial cyclic stretch induces c-src activation and translocation in human endothelial cells via SA channel activation	臍帶靜脈内皮細胞	Human umbilical vein endothelial cells	HTML
Role of Intercellular Junctions in Redistribution of Focal Adhesions and Orientation of Vascular Endothelial Cells Exposed to Cyclic Stretching	臍帶靜脈内皮細胞	Human umbilical vein endothelial cells	HTML
Temporal Effects of Cyclic Stretching on Distribution and Gene Expression of Integrin and Cytoskeleton by Ligament Fibroblasts In Vitro	韌帶線維芽細胞	Ligament Fibroblasts	HTML