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List of articles citing

Tissue stiffness, latent TGF-beta1 activation, and mechanical signal transduction: implications for the pathogenesis and treatment of fibrosis

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302	Role of integrin-mediated TGFbeta activation in the pathogenesis of pulmonary fibrosis. <b>2009</b> , 37, 849-54		86
301	The myofibroblast: paradigm for a mechanically active cell. <b>2010</b> , 43, 146-55		447
300	Mutations in fibrillin-1 cause congenital scleroderma: stiff skin syndrome. <b>2010</b> , 2, 23ra20		167
299	Linking optics and mechanics in an in vivo model of airway fibrosis and epithelial injury. <b>2010</b> , 15, 015004		19
298	The fibroblast integrin alpha11beta1 is induced in a mechanosensitive manner involving activin A and regulates myofibroblast differentiation. <b>2010</b> , 285, 10434-45		96
297	Role of myofibroblasts in vascular remodelling: focus on restenosis and aneurysm. <b>2010</b> , 88, 395-405		72
296	Thy-1-integrin alphav beta5 interactions inhibit lung fibroblast contraction-induced latent transforming growth factor-beta1 activation and myofibroblast differentiation. <b>2010</b> , 285, 22382-93		93
295	Stiff and tight skin: a rear window into fibrosis without inflammation. <b>2010</b> , 2, 23ps13		5
294	A senescence accelerated mouse model to study aging in the larynx. <b>2010</b> , 142, 879-85		5
293	Mediators leading to fibrosis - how to measure and control them in tissue engineering. <b>2010</b> , 20, 110-118		19
292	Subcellular localization of early biochemical transformations in cancer-activated fibroblasts using infrared spectroscopic imaging. <b>2011</b> , 136, 2953-8		42
291	(Micro)managing the mechanical microenvironment. <b>2011</b> , 3, 959-71		62
290	Epithelial-mesenchymal interactions in pulmonary fibrosis. <b>2011</b> , 73, 413-35		286
289	Smad3: adding complexity: the role of Smad3 in epithelial-myofibroblast transition. <b>2011</b> , 193, 41-52		52
288	The Role of the Myofibroblast in Fibrosis and Cancer Progression. <b>2011</b> , 37-74		5
287	Scar wars: mapping the fate of epithelial-mesenchymal-myofibroblast transition. <b>2011</b> , 80, 41-50		145
286	Laminin-332-rich tumor microenvironment for tumor invasion in the interface zone of breast cancer. <b>2011</b> , 178, 373-81		52

285	Emerging drugs for idiopathic pulmonary fibrosis. <b>2011</b> , 16, 341-62	19
284	Gingival fibroblasts display reduced adhesion and spreading on extracellular matrix: a possible basis for scarless tissue repair?. <b>2011</b> , 6, e27097	33
283	Lung parenchymal mechanics. <b>2011</b> , 1, 1317-51	101
282	Nonresolving fibrotic disorders: idiopathic pulmonary fibrosis as a paradigm of impaired tissue regeneration. <b>2011</b> , 341, 431-4	17
281	Fibroblasts and myofibroblasts in renal fibrosis. <b>2011</b> , 92, 158-67	238
280	A novel noncontact method to assess the biomechanical properties of wound tissue. <b>2011</b> , 19, 324-9	7
279	Lessons from (patho)physiological tissue stiffness and their implications for drug screening, drug delivery and regenerative medicine. <b>2011</b> , 63, 269-76	27
278	CCN2: a bona fide target for anti-fibrotic drug intervention. <b>2011</b> , 5, 131-3	10
277	A two-compartment mechanochemical model of the roles of transforming growth factor $\beta$ and tissue tension in dermal wound healing. <b>2011</b> , 272, 145-59	24
276	Mouse as a Model Organism. <b>2011</b> ,	3
275	ECM stiffness primes the TGF $\beta$ pathway to promote chondrocyte differentiation. <b>2012</b> , 23, 3731-42	130
274	Improved throughput traction microscopy reveals pivotal role for matrix stiffness in fibroblast contractility and TGF $\beta$ -responsiveness. <b>2012</b> , 303, L169-80	100
273	Posttraumatic elbow stiffness. <b>2012</b> , 94, 1428-37	81
272	Focal adhesion kinase and reactive oxygen species contribute to the persistent fibrotic phenotype of lesional scleroderma fibroblasts. <b>2012</b> , 51, 2146-54	39
271	Mechanotransduction is enhanced by the synergistic action of heterotypic cell interactions and TGF $\beta$ . <b>2012</b> , 26, 2522-30	13
270	Cancer-associated fibroblasts drive the progression of metastasis through both paracrine and mechanical pressure on cancer tissue. <b>2012</b> , 10, 1403-18	357
269	Axin pathway activity regulates in vivo pY654- $\beta$ -catenin accumulation and pulmonary fibrosis. <b>2012</b> , 287, 5164-72	70
268	New cellular and molecular mechanisms of lung injury and fibrosis in idiopathic pulmonary fibrosis. <b>2012</b> , 380, 680-8	287

267	The mechanical memory of lung myofibroblasts. <b>2012</b> , 4, 410-21	208
266	The complex dialogue between (myo)fibroblasts and the extracellular matrix during skin repair processes and ageing. <b>2012</b> , 60, 20-7	63
265	The role of the myofibroblast in tumor stroma remodeling. <b>2012</b> , 6, 203-19	161
264	Thrombospondin1 in tissue repair and fibrosis: TGF- $\beta$ -dependent and independent mechanisms. <b>2012</b> , 31, 178-86	152
263	Reprogramming cardiomyocyte mechanosensing by crosstalk between integrins and hyaluronic acid receptors. <b>2012</b> , 45, 824-31	63
262	Mechanisms of fibrosis: therapeutic translation for fibrotic disease. <b>2012</b> , 18, 1028-40	1900
261	Fibroblasts from phenotypically normal palmar fascia exhibit molecular profiles highly similar to fibroblasts from active disease in Dupuytren's Contracture. <b>2012</b> , 5, 15	22
260	Living cardiac patch: the elixir for cardiac regeneration. <b>2012</b> , 12, 1623-40	59
259	New insights into the regulation of epithelial-mesenchymal transition and tissue fibrosis. <b>2012</b> , 294, 171-221	120
258	Fibrosis: Insights from the Stiff Skin Syndrome. <b>2012</b> , 267-282	1
257	The impact of TGF- $\beta$ on lung fibrosis: from targeting to biomarkers. <b>2012</b> , 9, 111-6	398
256	Matrix stiffness-induced myofibroblast differentiation is mediated by intrinsic mechanotransduction. <b>2012</b> , 47, 340-8	324
255	Dupuytren's Disease and Related Hyperproliferative Disorders. <b>2012</b> ,	6
254	5.1 Introduction.	
253	5.2 Integrin function in heart fibrosis: mechanical strain, transforming growth factor-beta 1 activation, and collagen glycation.	
252	5.3 Cancer-associated fibroblast integrins as therapeutic targets in the tumor microenvironment.	
251	Directing epithelial to mesenchymal transition through engineered microenvironments displaying orthogonal adhesive and mechanical cues. <b>2012</b> , 100, 2119-27	53
250	Regulation of TGF- $\beta$ storage and activation in the human idiopathic pulmonary fibrosis lung. <b>2012</b> , 348, 491-503	51

249	Local injection of latency-associated peptide, a linker propeptide specific for active form of transforming growth factor-beta1, inhibits dermal sclerosis in bleomycin-induced murine scleroderma. <b>2012</b> , 21, 189-94	11
248	Tenocyte contraction induces crimp formation in tendon-like tissue. <b>2012</b> , 11, 449-59	40
247	Cellular re- and de-programming by microenvironmental memory: why short TGF- $\beta$ pulses can have long effects. <b>2013</b> , 6, 12	7
246	CCN2: a mechanosignaling sensor modulating integrin-dependent connective tissue remodeling in fibroblasts?. <b>2013</b> , 7, 203-5	3
245	Microengineered tumor models: insights & opportunities from a physical sciences-oncology perspective. <b>2013</b> , 15, 583-593	33
244	Mechanistic basis of manual therapy in myofascial injuries. Sonoelastographic evolution control. <b>2013</b> , 17, 221-34	18
243	IGF-II and IGFBP-6 regulate cellular contractility and proliferation in Dupuytren's disease. <b>2013</b> , 1832, 1511-9	31
242	Role of IGF-1 pathway in lung fibroblast activation. <b>2013</b> , 14, 102	41
241	Integrin 1: A Mechanosignaling Sensor Essential for Connective Tissue Deposition by Fibroblasts. <b>2013</b> , 2, 160-166	32
240	TRPV4 channels mediate cardiac fibroblast differentiation by integrating mechanical and soluble signals. <b>2013</b> , 54, 45-52	138
239	Complex networks of multiple factors in the pathogenesis of uterine leiomyoma. <b>2013</b> , 100, 178-93	121
238	Esophageal epithelial and mesenchymal cross-talk leads to features of epithelial to mesenchymal transition in vitro. <b>2013</b> , 319, 850-9	44
237	Stress and matrix-responsive cytoskeletal remodeling in fibroblasts. <b>2013</b> , 228, 50-7	24
236	Xiamenmycin attenuates hypertrophic scars by suppressing local inflammation and the effects of mechanical stress. <b>2013</b> , 133, 1351-60	41
235	Regulation of tissue fibrosis by the biomechanical environment. <b>2013</b> , 2013, 101979	50
234	In vivo and ex vivo approaches to studying the biomechanical properties of healing wounds in rat skin. <b>2013</b> , 135, 101009-8	15
233	Early cell changes and TGF $\beta$ pathway alterations in the aortopathy associated with bicuspid aortic valve stenosis. <b>2013</b> , 124, 97-108	44
232	The constant beat: cardiomyocytes adapt their forces by equal contraction upon environmental stiffening. <b>2013</b> , 2, 351-61	92

231	A TRP to cardiac fibroblast differentiation. <b>2013</b> , 7, 211-4	39
230	Prospective potency of TGF- $\beta$ on maintenance and regeneration of periodontal tissue. <b>2013</b> , 304, 283-367	28
229	A novel immunomodulator, FTY-720 reverses existing cardiac hypertrophy and fibrosis from pressure overload by targeting NFAT (nuclear factor of activated T-cells) signaling and periostin. <b>2013</b> , 6, 833-44	43
228	Matrix stiffness corresponding to strictured bowel induces a fibrogenic response in human colonic fibroblasts. <b>2013</b> , 19, 891-903	91
227	The Evolution of Three-Dimensional Cell Cultures Towards Unimpeded Regenerative Medicine and Tissue Engineering. <b>2013</b> ,	4
226	Substratum compliance modulates corneal fibroblast to myofibroblast transformation. <b>2013</b> , 54, 5901-7	31
225	P190B RhoGAP overexpression in the developing mammary epithelium induces TGF $\beta$ -dependent fibroblast activation. <b>2013</b> , 8, e65105	8
224	Environmental particulate (PM2.5) augments stiffness-induced alveolar epithelial cell mechanoactivation of transforming growth factor beta. <b>2014</b> , 9, e106821	31
223	Quantifying tissue mechanical properties using photoplethysmography. <b>2014</b> , 5, 2362-75	12
222	Focal adhesion kinase (FAK) siRNA inhibits human hypertrophic scar by suppressing integrin $\beta$ TGF- $\beta$ and $\alpha$ SMA. <b>2014</b> , 38, 803-8	16
221	Deciphering the pro-fibrotic phenotype of fibroblasts in systemic sclerosis. <b>2014</b> , 23, 99-100	5
220	Novel Rho/MRTF/SRF inhibitors block matrix-stiffness and TGF- $\beta$ -induced fibrogenesis in human colonic myofibroblasts. <b>2014</b> , 20, 154-65	119
219	Aortic carboxypeptidase-like protein (ACLP) enhances lung myofibroblast differentiation through transforming growth factor $\beta$ receptor-dependent and -independent pathways. <b>2014</b> , 289, 2526-36	34
218	Biomechanics of TGF $\beta$ -induced epithelial-mesenchymal transition: implications for fibrosis and cancer. <b>2014</b> , 3, 23	93
217	Myofibroblasts: trust your heart and let fate decide. <b>2014</b> , 70, 9-18	211
216	Cutis laxa: intersection of elastic fiber biogenesis, TGF $\beta$ signaling, the secretory pathway and metabolism. <b>2014</b> , 33, 16-22	36
215	Substrate and strain alter the muscle-derived mesenchymal stem cell secretome to promote myogenesis. <b>2014</b> , 5, 74	39
214	Medical therapy of stricturing Crohn's disease: what the gut can learn from other organs - a systematic review. <b>2014</b> , 7, 5	53

213	Cancer Bioinformatics. <b>2014</b> ,	4
212	Mechanotransduction and fibrosis. <b>2014</b> , 47, 1997-2005	118
211	Regulation of matrix remodelling phenotype in gingival fibroblasts by substratum topography. <b>2015</b> , 19, 1183-96	11
210	Losartan ameliorates dystrophic epidermolysis bullosa and uncovers new disease mechanisms. <b>2015</b> , 7, 1211-28	102
209	Expression analysis of smooth muscle actin and tenascin-C in the periodontal ligament under orthodontic loading or in vitro culture. <b>2015</b> , 7, 232-41	5
208	Cellular and Molecular Mediators of Intestinal Fibrosis. <b>2017</b> , 11, 1491-1503	68
207	Varying RGD concentration and cell phenotype alters the expression of extracellular matrix genes in vocal fold fibroblasts. <b>2015</b> , 103, 3094-100	4
206	Immunohistochemical Evaluation of Idiopathic Epiretinal Membranes and In Vitro Studies on the Effect of TGF-β on Müller Cells. <b>2015</b> , 56, 6506-14	31
205	Experimentally-derived fibroblast gene signatures identify molecular pathways associated with distinct subsets of systemic sclerosis patients in three independent cohorts. <b>2015</b> , 10, e0114017	42
204	The effects of high fat diet and moderate exercise on TGF-β and collagen deposition in mouse skeletal muscle. <b>2015</b> , 73, 23-9	29
203	Biomechanical and biochemical remodeling of stromal extracellular matrix in cancer. <b>2015</b> , 33, 230-6	206
202	Collagen matrix as a tool in studying fibroblastic cell behavior. <b>2015</b> , 9, 308-16	47
201	The Stressful Life of Cardiac Myofibroblasts. <b>2015</b> , 71-92	1
200	Snail1-driven plasticity of epithelial and mesenchymal cells sustains cancer malignancy. <b>2015</b> , 1856, 55-61	34
199	Cardiac Fibrosis and Heart Failure: Cause or Effect?. <b>2015</b> ,	3
198	Hyaluronan Controls the Deposition of Fibronectin and Collagen and Modulates TGF-β Induction of Lung Myofibroblasts. <b>2015</b> , 42, 74-92	58
197	Matrix remodeling in systemic sclerosis. <b>2015</b> , 37, 559-63	22
196	Intracellular signaling of cardiac fibroblasts. <b>2015</b> , 5, 721-60	28

195	The matrix protein Fibulin-5 is at the interface of tissue stiffness and inflammation in fibrosis. <b>2015</b> , 6, 8574	37
194	Development of a chemically defined in vitro culture system to effectively stimulate the proliferation of adult human dermal fibroblasts. <b>2015</b> , 24, 543-5	4
193	Mechanoregulation of cardiac myofibroblast differentiation: implications for cardiac fibrosis and therapy. <b>2015</b> , 309, H532-42	45
192	Dissecting fibrosis: therapeutic insights from the small-molecule toolbox. <b>2015</b> , 14, 693-720	141
191	Tumor Microenvironment Heterogeneity: A Review of the Biology Masterpiece, Evaluation Systems, and Therapeutic Implications. <b>2016</b> ,	1
190	Fibrosis. <b>2016</b> , 293-314	
189	Collagens in wound healing. <b>2016</b> , 171-201	4
188	Endothelial to Mesenchymal Transition (EndoMT) in the Pathogenesis of Human Fibrotic Diseases. <b>2016</b> , 5,	146
187	Developmental Biology and Regenerative Medicine: Addressing the Vexing Problem of Persistent Muscle Atrophy in the Chronically Torn Human Rotator Cuff. <b>2016</b> , 96, 722-33	10
186	Mechanobiology and Mechanotherapy for Cutaneous Wound-Healing. <b>2016</b> , 239-253	1
185	A homeostatic-driven turnover remodelling constitutive model for healing in soft tissues. <b>2016</b> , 13,	16
184	Molecular networks underlying myofibroblast fate and fibrosis. <b>2016</b> , 97, 153-61	86
183	The effect of myofibroblasts and corticosteroid injections in adhesive capsulitis. <b>2016</b> , 25, 1274-9	21
182	Fibroblast-Derived MMP-14 Regulates Collagen Homeostasis in Adult Skin. <b>2016</b> , 136, 1575-1583	46
181	Active Traction Force Response to Long-Term Cyclic Stretch Is Dependent on Cell Pre-stress. <b>2016</b> , 110, 1845-1857	21
180	Role of scleraxis in mechanical stretch-mediated regulation of cardiac myofibroblast phenotype. <b>2016</b> , 311, C297-307	17
179	Acellular dermal matrix from one-day-old mouse skin on adult scarless cutaneous wound repair by second harmonic generation microscopic imaging. <b>2016</b> , 6, 71852-71862	7
178	Unloading results in rapid loss of TGFβ signaling in articular cartilage: role of loading-induced TGFβ signaling in maintenance of articular chondrocyte phenotype?. <b>2016</b> , 24, 1807-1815	22



177	The vitronectin RGD motif regulates TGF- $\beta$ -induced alveolar epithelial cell apoptosis. <b>2016</b> , 310, L1206-17	21
176	New frontiers in fibrotic disease therapies: The focus of the Joan and Joel Rosenbloom Center for Fibrotic Diseases at Thomas Jefferson University. <b>2016</b> , 51, 14-25	14
175	Myofibroblast persistence with real-time changes in boundary stiffness. <b>2016</b> , 32, 223-230	22
174	Fabrication of hydrogels with elasticity changed by alkaline phosphatase for stem cell culture. <b>2016</b> , 29, 215-227	16
173	Tunable Microfibers Suppress Fibrotic Encapsulation via Inhibition of TGF- $\beta$ Signaling. <b>2016</b> , 22, 142-50	4
172	Results of the Fifth Scientific Workshop of the ECCO (II): Pathophysiology of Perianal Fistulizing Disease. <b>2016</b> , 10, 377-86	69
171	Salidroside protects against bleomycin-induced pulmonary fibrosis: activation of Nrf2-antioxidant signaling, and inhibition of NF- $\kappa$ B and TGF- $\beta$ /Smad-2/-3 pathways. <b>2016</b> , 21, 239-49	57
170	Myofibroblasts. <b>2016</b> , 142, 56-70	205
169	Fibronectin fibrils regulate TGF- $\beta$ -induced Epithelial-Mesenchymal Transition. <b>2017</b> , 60-61, 157-175	51
168	Basic Mechanisms Linking Inflammation and Fibrosis. <b>2017</b> , 17-31	
167	A primer on current progress in cardiac fibrosis. <b>2017</b> , 95, 1091-1099	15
166	Mechano-sensitive regulation of gene expression during the embryonic development. <b>2017</b> , 55, e23026	11
165	Colchicine in Renal Medicine: New Virtues of an Ancient Friend. <b>2017</b> , 43, 125-135	14
164	TRPV4 ION Channel Is Associated with Scleroderma. <b>2017</b> , 137, 962-965	15
163	The Immune Response to Implanted Materials and Devices. <b>2017</b> ,	14
162	Current progress in understanding the molecular pathogenesis of burn scar contracture. <b>2017</b> , 5, 14	24
161	Anti-fibrogenic effect of PPAR- $\gamma$ agonists in human intestinal myofibroblasts. <b>2017</b> , 17, 73	16
160	Substrate stiffness-dependent regulation of the SRF-Mkl1 co-activator complex requires the inner nuclear membrane protein Emerin. <b>2017</b> , 130, 2111-2118	19

159	TRPV4 ion channel is a novel regulator of dermal myofibroblast differentiation. <b>2017</b> , 312, C562-C572	39
158	The soft mechanical signature of glial scars in the central nervous system. <b>2017</b> , 8, 14787	202
157	The Biomechanical Environment and Impact on Tissue Fibrosis. <b>2017</b> , 169-188	
156	The 3D mechanical environment and chemical milieu influence the hMSC fibrogenesis and fibroblast-to-myofibroblast transition. <b>2017</b> , 7, 20-25	4
155	Keloid progression: a stiffness gap hypothesis. <b>2017</b> , 14, 764-771	18
154	Bone and Muscle. <b>2017</b> , 281-316	1
153	Human Fibrotic Diseases: Current Challenges in Fibrosis Research. <b>2017</b> , 1627, 1-23	72
152	Characterization of dermal myofibroblast differentiation in pseudoxanthoma elasticum. <b>2017</b> , 360, 153-162	8
151	The role of mechanobiology in progression of rotator cuff muscle atrophy and degeneration. <b>2018</b> , 36, 546-556	8
150	The role of biophysical properties of provisional matrix proteins in wound repair. <b>2017</b> , 60-61, 124-140	54
149	The Extracellular Matrix in Dupuytren Disease. <b>2017</b> , 43-54	
148	Layer-by-layer assembly of readily detachable chitosan and poly(acrylic acid) polyelectrolyte multilayer films. <b>2017</b> , 55, 127-131	12
147	Mucosal Mesenchymal Cells: Secondary Barrier and Peripheral Educator for the Gut Immune System. <b>2017</b> , 8, 1787	7
146	Crohn's Strictures-Moving Away from the Knife. <b>2017</b> , 5, 141	7
145	Relaxin Modulates the Expression of MMPs and TIMPs in Fibroblasts of Patients with Carpal Tunnel Syndrome. <b>2017</b> , 58, 415-422	4
144	Early onset of disc degeneration in SM/J mice is associated with changes in ion transport systems and fibrotic events. <b>2018</b> , 70, 123-139	33
143	Regulation of fibrosis in muscular dystrophy. <b>2018</b> , 68-69, 602-615	51
142	Matrix Stiffness: the Conductor of Organ Fibrosis. <i>Current Rheumatology Reports</i> , <b>2018</b> , 20, 2	4.9 84

141	Substrate stiffness-dependent exacerbation of endothelial permeability and inflammation: mechanisms and potential implications in ALI and PH (2017 Grover Conference Series). <b>2018</b> , 8, 2045894018773044	18
140	Idiopathic pulmonary fibrosis (IPF) signaling pathways and protective roles of melatonin. <b>2018</b> , 201, 17-29	44
139	Material Strategies for Modulating Epithelial to Mesenchymal Transitions. <b>2018</b> , 4, 1149-1161	15
138	Aging and ocular tissue stiffness in glaucoma. <b>2018</b> , 63, 56-74	65
137	Platelet-rich plasma: combinational treatment modalities for musculoskeletal conditions. <b>2018</b> , 12, 139-152	19
136	Left-Ventricular Assist Device Impact on Aortic Valve Mechanics, Proteomics and Ultrastructure. <b>2018</b> , 105, 572-580	8
135	Dual $\alpha 1$ and $\alpha 2$ blockade attenuates fibrotic and vascular alterations in a murine model of systemic sclerosis. <b>2018</b> , 132, 231-242	16
134	Elbow Stiffness: Basic Science and Overview. <b>2018</b> , 529-536	1
133	Unraveling SSc Pathophysiology; The Myofibroblast. <b>2018</b> , 9, 2452	61
132	Directing fibroblast self-assembly to fabricate highly-aligned, collagen-rich matrices. <b>2018</b> , 81, 70-79	10
131	Modulation of human corneal stromal cell differentiation by hepatocyte growth factor and substratum compliance. <b>2018</b> , 176, 235-242	12
130	Perspective: The role of mechanobiology in the etiology of brain metastasis. <b>2018</b> , 2, 031801	11
129	Elevated transforming growth factor $\beta$ signaling activation in $\beta$ -actin-knockout mouse embryonic fibroblasts enhances myofibroblast features. <b>2018</b> , 233, 8884-8895	4
128	Collagen morphology influences macrophage shape and marker expression in vitro. <b>2018</b> , 1, 13-20	10
127	Premacular membranes in tissue culture. <b>2018</b> , 256, 1589-1597	7
126	Biophysics of Tumor Microenvironment and Cancer Metastasis - A Mini Review. <b>2018</b> , 16, 279-287	115
125	YAP/TAZ Are Essential for TGF- $\beta$ -Mediated Conjunctival Fibrosis. <b>2018</b> , 59, 3069-3078	32
124	Thermosensitive biomimetic polyisocyanopeptide hydrogels may facilitate wound repair. <b>2018</b> , 181, 392-401	52

123	Differential Role of Transforming Growth Factor-beta in an Osteoarthritic or a Healthy Joint. <b>2018</b> , 25, 65-72	43
122	Modeling Methods for Medical Systems Biology. <b>2018</b> ,	1
121	$\beta$ -spectrin and $\alpha$ -spectrin do not affect TGF $\beta$ -induced myofibroblast differentiation. <b>2018</b> , 374, 165-175	3
120	Increased Substrate Stiffness Elicits a Myofibroblastic Phenotype in Human Lamina Cribrosa Cells. <b>2018</b> , 59, 803-814	9
119	Topographic distribution of idiopathic pulmonary fibrosis: a hybrid physics- and agent-based model. <b>2018</b> , 39, 064007	14
118	TGF $\beta$ and activin A in the tumor microenvironment in colorectal cancer. <b>2019</b> , 17,	3
117	Matrix Mechanics as Regulatory Factors and Therapeutic Targets in Hepatic Fibrosis. <b>2019</b> , 15, 2509-2521	15
116	Nano-mechanical mapping of interdependent cell and ECM mechanics by AFM force spectroscopy. <b>2019</b> , 9, 12317	28
115	An Improved Method of Maintaining Primary Murine Cardiac Fibroblasts in Two-Dimensional Cell Culture. <b>2019</b> , 9, 12889	16
114	Umbilical cord/placenta-derived mesenchymal stem cells inhibit fibrogenic activation in human intestinal myofibroblasts via inhibition of myocardin-related transcription factor A. <b>2019</b> , 10, 291	13
113	Biofabrication of phenotypic pulmonary fibrosis assays. <b>2019</b> , 11, 032005	1
112	Controlled degradable chitosan/collagen composite scaffolds for application in nerve tissue regeneration. <b>2019</b> , 166, 73-85	31
111	Therapeutic Targeting of Fibrotic Epithelial-Mesenchymal Transition-An Outstanding Challenge. <b>2019</b> , 10, 388	25
110	Inhibition of TLR9 attenuates skeletal muscle fibrosis in aged sarcopenic mice via the p53/SIRT1 pathway. <b>2019</b> , 122, 25-33	5
109	Identification of regulators of the myofibroblast phenotype of primary dermal fibroblasts from early diffuse systemic sclerosis patients. <b>2019</b> , 9, 4521	18
108	Systemic Sclerosis Pathogenesis and Emerging Therapies, beyond the Fibroblast. <b>2019</b> , 2019, 4569826	34
107	Targeting Fibrotic Signaling: A Review of Current Literature and Identification of Future Therapeutic Targets to Improve Wound Healing. <b>2019</b> , 83, e92-e95	1
106	Current and upcoming therapies to modulate skin scarring and fibrosis. <b>2019</b> , 146, 37-59	55

105	Peripheral nerve injury, scarring, and recovery. <b>2019</b> , 60, 3-9	55
104	A model for positive feedback control of the transformation of fibroblasts to myofibroblasts. <b>2019</b> , 144, 30-40	14
103	Lysyl oxidase enzymes mediate TGF- $\beta$ -induced fibrotic phenotypes in human skin-like tissues. <b>2019</b> , 99, 514-527	11
102	TRP channels in cardiac and intestinal fibrosis. <b>2019</b> , 94, 40-49	22
101	Gentle cyclic straining of human fibroblasts on electrospun scaffolds enhances their regenerative potential. <b>2019</b> , 84, 159-168	18
100	TRPV4 regulates matrix stiffness and TGF $\beta$ -induced epithelial-mesenchymal transition. <b>2019</b> , 23, 761-774	44
99	The altered mechanical phenotype of fetal fibroblasts hinders myofibroblast differentiation. <b>2019</b> , 27, 29-38	5
98	Laminin 332 in cancer: When the extracellular matrix turns signals from cell anchorage to cell movement. <b>2020</b> , 62, 149-165	39
97	General Features of Autoimmune Disease. <b>2020</b> , 17-44	4
96	Microparticles in systemic sclerosis, targets or tools to control fibrosis: This is the question!. <b>2020</b> , 5, 6-20	1
95	Endothelium-mediated contributions to fibrosis. <b>2020</b> , 101, 78-86	20
94	Evasion of apoptosis by myofibroblasts: a hallmark of fibrotic diseases. <b>2020</b> , 16, 11-31	128
93	A Novel Fibroblast Reporter Cell Line for Studies of Pulmonary Fibrosis. <b>2020</b> , 11, 567675	0
92	Fibroblast mechanosensing, SKI and Hippo signaling and the cardiac fibroblast phenotype: Looking beyond TGF- $\beta$ <b>2020</b> , 76, 109802	7
91	The role of lamina cribrosa tissue stiffness and fibrosis as fundamental biomechanical drivers of pathological glaucoma cupping. <b>2020</b> , 319, C611-C623	12
90	Myofibroblasts and Fibrosis: Mitochondrial and Metabolic Control of Cellular Differentiation. <b>2020</b> , 127, 427-447	49
89	Development of Nascent Focal Adhesions in Spreading Cells. <b>2020</b> , 119, 2063-2073	5
88	The Roles of Tissue Rigidity and Its Underlying Mechanisms in Promoting Tumor Growth. <b>2020</b> , 38, 445-462	2

87	Mechanical properties of the spinal cord and brain: Comparison with clinical-grade biomaterials for tissue engineering and regenerative medicine. <b>2020</b> , 258, 120303	18
86	Mechanical tumor microenvironment and transduction: cytoskeleton mediates cancer cell invasion and metastasis. <b>2020</b> , 16, 2014-2028	33
85	Pharmacological Treatment of Fibrosis: a Systematic Review of Clinical Trials. <b>2020</b> , 2, 531-550	4
84	SASH1 promotes melanin synthesis and migration via suppression of TGF- $\beta$ secretion in melanocytes resulting in pathologic hyperpigmentation. <b>2020</b> , 16, 1264-1273	6
83	Porcine Vocal Fold Lamina Propria-Derived Biomaterials Modulate TGF- $\beta$ -Mediated Fibroblast Activation in Vitro. <b>2020</b> , 6, 1690-1703	7
82	TRPV4 deletion protects heart from myocardial infarction-induced adverse remodeling via modulation of cardiac fibroblast differentiation. <b>2020</b> , 115, 14	40
81	Fibrosis in Arrhythmogenic Cardiomyopathy: The Phantom Thread in the Fibro-Adipose Tissue. <b>2020</b> , 11, 279	8
80	Pathological matrix stiffness promotes cardiac fibroblast differentiation through the POU2F1 signaling pathway. <b>2021</b> , 64, 242-254	5
79	AXL Is a Potential Target for the Treatment of Intestinal Fibrosis. <b>2021</b> , 27, 303-316	8
78	Mechanical Feed-Forward Loops Contribute to Idiopathic Pulmonary Fibrosis. <b>2021</b> , 191, 18-25	13
77	Keloid disorder: Fibroblast differentiation and gene expression profile in fibrotic skin diseases. <b>2021</b> , 30, 132-145	10
76	Cell-Laden Bioactive Poly(ethylene glycol) Hydrogels for Studying Mesenchymal Stem Cell Behavior in Myocardial Infarct-Stiffness Microenvironments. <b>2021</b> , 12, 183-199	5
75	Engineering Advanced In Vitro Models of Systemic Sclerosis for Drug Discovery and Development. <b>2021</b> , 5, e2000168	2
74	Label-free histological imaging of tissues using Brillouin light scattering contrast. <b>2021</b> , 12, 1437-1448	5
73	The Role of Pro-fibrotic Myofibroblasts in Systemic Sclerosis: from Origin to Therapeutic Targeting. <b>2021</b> ,	2
72	Mechanical stretch promotes hypertrophic scar formation through mechanically activated cation channel Piezo1. <b>2021</b> , 12, 226	5
71	Collagen Film Activation with Nanoscale IKVAV-Capped Dendrimers for Selective Neural Cell Response. <b>2021</b> , 11,	2
70	Potential Role of Epithelial Endoplasmic Reticulum Stress and Anterior Gradient Protein 2 Homologue in Crohn's Disease Fibrosis. <b>2021</b> , 15, 1737-1750	1

69	3D confinement regulates stem cell fate.	
68	Biomimetic analyses of interactions between macrophages and palmar fascia myofibroblasts derived from Dupuytren's disease reveal distinct inflammatory cytokine responses. <b>2021</b> , 29, 627-636	2
67	Measurements of Cellular Forces and their Importance in the Lung-From the Sub- to the Multicellular Scale. <b>2021</b> , 11,	1
66	Mechanotopography-Driven Design of Dispersible Nanofiber-Laden Hydrogel as a 3D Cell Culture Platform for Investigating Tissue Fibrosis. <b>2021</b> , 10, e2101109	0
65	Aspiration Is Associated with Poor Treatment Response in Pediatric Pulmonary Vein Stenosis. <b>2021</b> , 8,	2
64	Effects of substrate stiffness on mast cell migration. <b>2021</b> , 100, 151178	
63	3D Confinement Regulates Cell Life and Death. 2104098	1
62	The Multiple Faces of Integrin-ECM Interactions in Inflammatory Bowel Disease. <b>2021</b> , 22,	1
61	The role of osteoprotegerin (OPG) in fibrosis: its potential as a biomarker and/or biological target for the treatment of fibrotic diseases. <b>2021</b> , 228, 107941	6
60	Cell-Generated Forces in Tissue Assembly, Function, and Disease. <b>2011</b> , 47-74	1
59	The Reality of Aging Viewed from the Arterial Wall. <b>2014</b> , 137-153	1
58	Future Applications and Directions of Liver Stiffness Studies. <b>2020</b> , 687-693	1
57	Mechanical and Matrix Regulation of Valvular Fibrosis. <b>2015</b> , 23-53	3
56	Medical Systems Biology. <b>2018</b> , 1069, 1-33	2
55	The Role of the Myofibroblast in Dupuytren's Disease: Fundamental Aspects of Contraction and Therapeutic Perspectives. <b>2012</b> , 53-60	2
54	The Effects of Mechanical Forces on Nucleus Pulposus and Annulus Fibrosus Cells. <b>2014</b> , 109-124	1
53	Cardiac fibrosis in mice with hypertrophic cardiomyopathy is mediated by non-myocyte proliferation and requires Tgf- $\beta$ <b>2010</b> , 120, 3520-9	301
52	Inhibition of mechanosensitive signaling in myofibroblasts ameliorates experimental pulmonary fibrosis. <b>2013</b> , 123, 1096-108	289

51	The puzzling pathophysiology of frozen shoulders - a scoping review. <b>2020</b> , 7, 91	4
50	Mechanical tension increases CCN2/CTGF expression and proliferation in gingival fibroblasts via a TGF $\beta$ -dependent mechanism. <b>2011</b> , 6, e19756	58
49	High resolution ultrasound for imaging complications of muscle injury: Is there an additional role for elastography?. <b>2019</b> , 19, 137-144	11
48	Uniaxial Tensile Testing Device for Measuring Mechanical Properties of Biological Tissue with Stress-Relaxation Test under a Confocal Microscope. <b>2018</b> , 18, 866-872	2
47	Does pressure cause liver cirrhosis? The sinusoidal pressure hypothesis. <b>2016</b> , 22, 10482-10501	56
46	Fibrostenotic strictures in Crohn's disease. <b>2020</b> , 18, 379-401	13
45	Comparative transcriptome analysis of papilla and skin in the sea cucumber, <i>Apostichopus japonicus</i> . <b>2016</b> , 4, e1779	9
44	Tumor-Stroma Interactions: Focus on Fibroblasts. <b>2011</b> , 117-130	
43	Primary Dupuytren's Disease Cell Interactions with the Extra-cellular Environment: A Link to Disease Progression?. <b>2012</b> , 151-159	1
42	Cancer After Metastasis: The Second Transformation. <b>2014</b> , 279-304	
41	Traction Microscopy. <b>2015</b> , 93-114	
40	References. <b>2015</b> , 157-209	
39	Hepatic Fibrosis and Cirrhosis. 2070-2086	
38	The Pathogenesis of Intraabdominal Adhesions: Similarities and Differences to Luminal Fibrosis. <b>2018</b> , 319-346	
37	Mechanotransduction in Wound Healing and Scar Formation. <b>2019</b> , 35-45	
36	Loss of adipocyte identity through synergistic repression of PPAR $\gamma$ by TGF- $\beta$ and mechanical stress.	
35	Introduction to the Molecular Basis of Liver Stiffness and Its Relation to Mechano-signaling. <b>2020</b> , 631-643	
34	Role of Sinusoidal Pressure and Arterialization in Driving Fibrosis Progression. <b>2020</b> , 671-683	o



33	DAMP-Promoted Efferent Innate Immune Responses in Human Diseases: Fibrosis. <b>2020</b> , 211-257	
32	CHAPTER 9:BH3 Mimetic Drugs for Anti-fibrotic Therapy. <b>2020</b> , 235-258	
31	Development of nascent focal adhesions in spreading cells.	
30	A deep learning approach to identify and segment alpha-smooth muscle actin stress fiber positive cells. <b>2021</b> , 11, 21855	0
29	Remotely-activatable extracellular matrix-mimetic hydrogel promotes physiological bone mineralization for enhanced cranial defect healing. <b>2021</b> , 133382	2
28	Correlations between the polymorphism of +869T/C in TGF- $\beta$ 1 and rheumatoid arthritis. <b>2019</b> , 19, 127-132	3
27	Fibroblasts, Fibrosis and Autophagy. <b>2022</b> , 117-130	
26	The local wound environment is a key determinant of the outcome of TGF $\beta$ signaling on the fibrotic response of CD44 leader cells in an ex vivo post-cataract-surgery model. <b>2021</b> , 213, 108829	1
25	The future of precision medicine to predict outcomes and control tissue remodeling in inflammatory bowel disease.. <b>2021</b> ,	3
24	, and Approaches for Investigation of Skin Scarring: Human and Animal Models.. <b>2021</b> ,	1
23	DDR1 associates with TRPV4 in cell-matrix adhesions to enable calcium-regulated myosin activity and collagen compaction.. <b>2022</b> ,	0
22	MiR-375 and miR-5691 exert anti-fibroproliferative effects on hypertrophic scar fibroblasts by suppressing thrombospondin 1 expression. <b>2022</b> , 40, 34	
21	Cell-to-Cell Communications in Alcohol-Associated Liver Disease.. <b>2022</b> , 13, 831004	3
20	Self-assembled human skin equivalents model macrophage activation of cutaneous fibrogenesis in systemic sclerosis.. <b>2022</b> ,	2
19	Mechanomodulation: Physical Treatment Modalities Employ Mechanotransduction to Improve Scarring. <b>2022</b> , 3, 241-255	0
18	A Strategy to Quantify Myofibroblast Activation on a Continuous Spectrum.	
17	Fibroblast Growth Factor 23 Stimulates Cardiac Fibroblast Activity through Phospholipase C-Mediated Calcium Signaling.. <b>2021</b> , 23,	0
16	The Modulatory Effect of Adipose-Derived Stem Cells on Endometrial Polyp Fibroblasts.. <b>2022</b> ,	

- 15 Positive Association of Matrix Proteins Alteration with TAZ and The Progression of High-Grade Bladder Cancer.. **2021**, 23, 742-749
- 14 Transcriptional Profiling of Insulin-like Growth Factor Signaling Components in Embryonic Lung Development and Idiopathic Pulmonary Fibrosis. **2022**, 11, 1973 ○
- 13 A strategy to quantify myofibroblast activation on a continuous spectrum. **2022**, 12, 1
- 12 Feasibility of Implanting a FootAnkle Endoprosthesis within Skin in a Rabbit Model of Transtibial Amputation. **2022**, 9, 348
- 11 Matrix stiffness and architecture drive fibro-adipogenic progenitorsActivation into myofibroblasts. **2022**, 12, 2
- 10 Is Epithelial-Mesenchymal Transition a New Roadway in the Pathogenesis of Oral Submucous Fibrosis: A Comprehensive Review. **2022**, ○
- 9 Culturing of Cardiac Fibroblasts in Engineered Heart Matrix Reduces Myofibroblast Differentiation but Maintains Their Response to Cyclic Stretch and Transforming Growth Factor  $\beta$ . **2022**, 9, 551 1
- 8 Dynamic changes in mechanical properties of the adult rat spinal cord after injury. **2022**, ○
- 7 Engineered Microenvironments for 3D Cell Culture and Regenerative Medicine: Challenges, Advances, and Trends. **2023**, 10, 17 ○
- 6 Autoimmune diseases. **2023**, 123-244 ○
- 5 Predicting alveolar ventilation heterogeneity in pulmonary fibrosis using a non-uniform polyhedral spring network model. 3, ○
- 4 Genipin increases extracellular matrix synthesis preventing corneal perforation. **2023**, 28, 115-123 ○
- 3 Extracellular matrix stiffnessThe central cue for skin fibrosis. 10, ○
- 2 Changes in nascent chromatin structure regulate activation of the pro-fibrotic transcriptome and myofibroblast emergence in organ fibrosis. **2023**, 26, 106570 ○
- 1 Mechanobiology of Cardiac Fibroblasts in Cardiac Remodeling. **2023**, 101-120 ○