

# Michael Lavagnino

## List of Publications by Citations

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35  
papers

1,815  
citations

24  
h-index

36  
g-index

36  
ext. papers

1,969  
ext. citations

3.2  
avg, IF

4.47  
L-index

#	Paper	IF	Citations
35	The mechanobiological aetiopathogenesis of tendinopathy: is it the over-stimulation or the under-stimulation of tendon cells?. <i>International Journal of Experimental Pathology</i> , <b>2007</b> , 88, 217-26	2.8	165
34	Activation of stress-activated protein kinases (SAPK) in tendon cells following cyclic strain: the effects of strain frequency, strain magnitude, and cytosolic calcium. <i>Journal of Orthopaedic Research</i> , <b>2002</b> , 20, 947-52	3.8	144
33	Ex vivo static tensile loading inhibits MMP-1 expression in rat tail tendon cells through a cytoskeletally based mechanotransduction mechanism. <i>Journal of Orthopaedic Research</i> , <b>2004</b> , 22, 328-33	3.8	132
32	Effect of amplitude and frequency of cyclic tensile strain on the inhibition of MMP-1 mRNA expression in tendon cells: an in vitro study. <i>Connective Tissue Research</i> , <b>2003</b> , 44, 181-7	3.3	125
31	In situ cell nucleus deformation in tendons under tensile load; a morphological analysis using confocal laser microscopy. <i>Journal of Orthopaedic Research</i> , <b>2002</b> , 20, 29-35	3.8	113
30	In vitro alterations in cytoskeletal tensional homeostasis control gene expression in tendon cells. <i>Journal of Orthopaedic Research</i> , <b>2005</b> , 23, 1211-8	3.8	106
29	Matrix metalloproteinase inhibitors prevent a decrease in the mechanical properties of stress-deprived tendons: an in vitro experimental study. <i>American Journal of Sports Medicine</i> , <b>2007</b> , 35, 763-9	6.8	91
28	Tendon mechanobiology: Current knowledge and future research opportunities. <i>Journal of Orthopaedic Research</i> , <b>2015</b> , 33, 813-22	3.8	87
27	Loss of homeostatic tension induces apoptosis in tendon cells: an in vitro study. <i>Clinical Orthopaedics and Related Research</i> , <b>2008</b> , 466, 1562-8	2.2	81
26	Isolated fibrillar damage in tendons stimulates local collagenase mRNA expression and protein synthesis. <i>Journal of Biomechanics</i> , <b>2006</b> , 39, 2355-62	2.9	77
25	A finite element model predicts the mechanotransduction response of tendon cells to cyclic tensile loading. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2008</b> , 7, 405-16	3.8	76
24	Collagen fibril diameter distribution does not reflect changes in the mechanical properties of in vitro stress-deprived tendons. <i>Journal of Biomechanics</i> , <b>2005</b> , 38, 69-75	2.9	73
23	Loss of homeostatic strain alters mechanostat "set point" of tendon cells in vitro. <i>Clinical Orthopaedics and Related Research</i> , <b>2008</b> , 466, 1583-91	2.2	64
22	The effect of stress-deprivation and cyclic loading on the TIMP/MMP ratio in tendon cells: an in vitro experimental study. <i>Disability and Rehabilitation</i> , <b>2008</b> , 30, 1523-9	2.4	59
21	Effect of in vitro stress-deprivation and cyclic loading on the length of tendon cell cilia in situ. <i>Journal of Orthopaedic Research</i> , <b>2011</b> , 29, 582-7	3.8	52
20	Patellar tendon strain is increased at the site of the jumper's knee lesion during knee flexion and tendon loading: results and cadaveric testing of a computational model. <i>American Journal of Sports Medicine</i> , <b>2008</b> , 36, 2110-8	6.8	51
19	Effect of Amplitude and Frequency of Cyclic Tensile Strain on the Inhibition of MMP-1 mRNA Expression in Tendon Cells: An In Vitro Study. <i>Connective Tissue Research</i> , <b>2003</b> , 44, 181-187	3.3	38

18	Comparison of the Effects of the CO2 Surgical Laser and Conventional Surgical Techniques on Healing and Wound Tensile Strength of Skin Flaps in the Dog. <i>Veterinary Surgery</i> , <b>2003</b> , 32, 153-160	1.7	34
17	Infrapatellar Straps Decrease Patellar Tendon Strain at the Site of the Jumper <sup>®</sup> Knee Lesion: A Computational Analysis Based on Radiographic Measurements. <i>Sports Health</i> , <b>2011</b> , 3, 296-302	4.7	32
16	In vitro effects of oxytetracycline on matrix metalloproteinase-1 mRNA expression and on collagen gel contraction by cultured myofibroblasts obtained from the accessory ligament of foals. <i>American Journal of Veterinary Research</i> , <b>2004</b> , 65, 491-6	1.1	32
15	In situ deflection of tendon cell-cilia in response to tensile loading: an in vitro study. <i>Journal of Orthopaedic Research</i> , <b>2011</b> , 29, 925-30	3.8	29
14	Re-establishment of cytoskeletal tensional homeostasis in lax tendons occurs through an actin-mediated cellular contraction of the extracellular matrix. <i>Journal of Orthopaedic Research</i> , <b>2012</b> , 30, 1695-701	3.8	28
13	Age-related changes in the cellular, mechanical, and contractile properties of rat tail tendons. <i>Connective Tissue Research</i> , <b>2013</b> , 54, 70-5	3.3	28
12	The effect of cranial cruciate ligament insufficiency on caudal cruciate ligament morphology: An experimental study in dogs. <i>Veterinary Surgery</i> , <b>2002</b> , 31, 596-603	1.7	24
11	Tendon Contraction After Cyclic Elongation Is an Age-Dependent Phenomenon: In Vitro and In Vivo Comparisons. <i>American Journal of Sports Medicine</i> , <b>2014</b> , 42, 1471-7	6.8	20
10	Predicting tenocyte expression profiles and average molecular concentrations in Achilles tendon ECM from tissue strain and fiber damage. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2017</b> , 16, 1329-1348	3.8	11
9	Crimp length decreases in lax tendons due to cytoskeletal tension, but is restored with tensional homeostasis. <i>Journal of Orthopaedic Research</i> , <b>2017</b> , 35, 573-579	3.8	11
8	The Response of Tendon Cells to Changing Loads: Implications in the Etiopathogenesis of Tendinopathy	46-59	9
7	Hypoxia inhibits primary cilia formation and reduces cell-mediated contraction in stress-deprived rat tail tendon fascicles. <i>Muscles, Ligaments and Tendons Journal</i> , <b>2016</b> , 6, 193-197	1.9	7
6	Tendon cell ciliary length as a biomarker of in situ cytoskeletal tensional homeostasis. <i>Muscles, Ligaments and Tendons Journal</i> , <b>2013</b> , 3, 118-21	1.9	4
5	Stress-deprivation induces an up-regulation of versican and connexin-43 mRNA and protein synthesis and increased ADAMTS-1 production in tendon cells. <i>Connective Tissue Research</i> , <b>2021</b> , 1-10	3.3	4
4	Age-dependent effects of systemic administration of oxytetracycline on the viscoelastic properties of rat tail tendons as a mechanistic basis for pharmacological treatment of flexural limb deformities in foals. <i>American Journal of Veterinary Research</i> , <b>2012</b> , 73, 1951-6	1.1	3
3	Effect of collagen length distribution and timing for repair on the active TGF- $\beta$ concentration in tendon. <i>Connective Tissue Research</i> , <b>2018</b> , 59, 396-409	3.3	2
2	Thermal energy enhances cell-mediated contraction of lax rat tail tendon fascicles following exercise. <i>Muscles, Ligaments and Tendons Journal</i> , <b>2015</b> , 5, 51-5	1.9	1
1	High magnitude, in vitro, biaxial, cyclic tensile strain induces actin depolymerization in tendon cells. <i>Muscles, Ligaments and Tendons Journal</i> , <b>2015</b> , 5, 124-8	1.9	1

