

# Michael Lavagnino

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/10752482/michael-lavagnino-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
34	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
33	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
32	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
31	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
30	Tendon mechanobiology: Current knowledge and future research opportunities. <i>Journal of Orthopaedic Research</i> , <b>2015</b> , 33, 813-22	3.8	87
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	Infrapatellar Straps Decrease Patellar Tendon Strain at the Site of the Jumper's Knee Lesion: A Computational Analysis Based on Radiographic Measurements. <i>Sports Health</i> , <b>2011</b> , 3, 296-302	4.7	32
19	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

18	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
17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	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, 328-338	3.8	132
7	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
6	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
5	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
4	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
3	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
2	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
1	The Response of Tendon Cells to Changing Loads: Implications in the Etiopathogenesis of Tendinopathy	46-59	9

