

Vivek C Mudera

List of Publications by Year in descending order

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65
papers

3,226
citations

168829

31
h-index

175968

55
g-index

66
all docs

66
docs citations

66
times ranked

4943
citing authors

#	ARTICLE	IF	CITATIONS
1	A Systematic Review Examining the Experimental Methodology Behind In Vivo Testing of Hiatus Hernia and Diaphragmatic Hernia Mesh. <i>Journal of Gastrointestinal Surgery</i> , 2022, 26, 684-692.	0.9	2
2	Evaluating Oxygen Tensions Related to Bone Marrow and Matrix for MSC Differentiation in 2D and 3D Biomimetic Lamellar Scaffolds. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4010.	1.8	8
3	Neuregulin 1 Drives Morphological and Phenotypical Changes in C2C12 Myotubes: Towards De Novo Formation of Intrafusal Fibres In Vitro. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 760260.	1.8	1
4	A Novel Tenorrhaphy Suture Technique with Tissue Engineered Collagen Graft to Repair Large Tendon Defects. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	0
5	The mechanobiology of tendon fibroblasts under static and uniaxial cyclic load in a 3D tissue engineered model mimicking native extracellular matrix. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 135-146.	1.3	24
6	Hyaluronan derived nanoparticle for simvastatin delivery: evaluation of simvastatin induced myotoxicity in tissue engineered skeletal muscle. <i>Biomaterials Science</i> , 2020, 8, 302-312.	2.6	9
7	Generating intrafusal skeletal muscle fibres in vitro: Current state of the art and future challenges. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173142098520.	2.3	10
8	Engineering of a Functional Tendon Using Collagen As a Natural Polymer. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5218-5228.	2.6	9
9	Scalable 3D Printed Molds for Human Tissue Engineered Skeletal Muscle. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 20.	2.0	48
10	Modelling multi-scale cell-tissue interaction of tissue-engineered muscle constructs. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141878714.	2.3	12
11	An Assessment of Myotube Morphology, Matrix Deformation, and Myogenic mRNA Expression in Custom-Built and Commercially Available Engineered Muscle Chamber Configurations. <i>Frontiers in Physiology</i> , 2018, 9, 483.	1.3	14
12	Demineralization–remineralization dynamics in teeth and bone. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4743-4763.	3.3	433
13	Creating Interactions between Tissue-Engineered Skeletal Muscle and the Peripheral Nervous System. <i>Cells Tissues Organs</i> , 2016, 202, 143-158.	1.3	37
14	Neuromuscular Junction Formation in Tissue-Engineered Skeletal Muscle Augments Contractile Function and Improves Cytoskeletal Organization. <i>Tissue Engineering - Part A</i> , 2015, 21, 2595-2604.	1.6	63
15	Tissue-engineered collagen grafts to treat large tendon defects. <i>Regenerative Medicine</i> , 2014, 9, 249-251.	0.8	5
16	Effects of photochemical riboflavin-mediated crosslinks on the physical properties of collagen constructs and fibrils. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 11-21.	1.7	57
17	Less is more: New biomimetic approach to control spatial and temporal cell loading for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 4108-4117.	2.1	3
18	Laminin promotes vascular network formation in 3D in vitro collagen scaffolds by regulating VEGF uptake. <i>Experimental Cell Research</i> , 2014, 327, 68-77.	1.2	54

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19	A review on the use of cell therapy in the treatment of tendon disease and injuries. <i>Journal of Tissue Engineering</i> , 2014, 5, 204173141454967.	2.3	54
20	Collagen " Emerging collagen based therapies hit the patient. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 429-456.	6.6	249
21	Factors affecting the structure and maturation of human tissue engineered skeletal muscle. <i>Biomaterials</i> , 2013, 34, 5759-5765.	5.7	69
22	The mechanical environment in dupuytren's contracture determines cell contractility and associated MMP-mediated matrix remodeling. <i>Journal of Orthopaedic Research</i> , 2013, 31, 328-334.	1.2	13
23	Development of a Surgically Optimized Graft Insertion Suture Technique to Accommodate a Tissue-Engineered Tendon <i>In Vivo</i> . <i>BioResearch Open Access</i> , 2013, 2, 327-335.	2.6	18
24	Adipose-Derived Stem Cells Inhibit the Contractile Myofibroblast in Dupuytren's Disease. <i>Plastic and Reconstructive Surgery</i> , 2013, 132, 1139-1148.	0.7	44
25	Modelling <i>in vivo</i> skeletal muscle ageing <i>in vitro</i> using three-dimensional bioengineered constructs. <i>Aging Cell</i> , 2012, 11, 986-995.	3.0	62
26	A Rapid Fabricated Living Dermal Equivalent for Skin Tissue Engineering: An <i>In Vivo</i> Evaluation in an Acute Wound Model. <i>Tissue Engineering - Part A</i> , 2012, 18, 353-361.	1.6	53
27	Spatiotemporal Dynamics of Re-Innervation and Hyperinnervation Patterns by Uninjured CGRP Fibers in the Rat Foot Sole Epidermis after Nerve Injury. <i>Molecular Pain</i> , 2012, 8, 1744-8069-8-61.	1.0	50
28	Characterization and optimization of a simple, repeatable system for the long term <i>in vitro</i> culture of aligned myotubes in 3D. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 1044-1053.	1.2	73
29	The primordium of a biological joint replacement: Coupling of two stem cell pathways in biphasic ultrarapid compressed gel niches. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2011, 39, 380-386.	0.7	25
30	First implantable device for hypoxia-mediated angiogenic induction. <i>Journal of Controlled Release</i> , 2011, 153, 217-224.	4.8	27
31	Shear-aggregated fibronectin with anti-adhesive properties. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 20-31.	1.3	12
32	Mechanisms of structure generation during plastic compression of nanofibrillar collagen hydrogel scaffolds: towards engineering of collagen. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 505-519.	1.3	31
33	High-density collagen gel tubes as a matrix for primary human bladder smooth muscle cells. <i>Biomaterials</i> , 2011, 32, 1543-1548.	5.7	49
34	Evolution of oxygen utilization in multicellular organisms and implications for cell signalling in tissue engineering. <i>Journal of Tissue Engineering</i> , 2011, 2, 204173141143236.	2.3	81
35	Controlling physiological angiogenesis by hypoxia-induced signaling. <i>Journal of Controlled Release</i> , 2010, 146, 309-317.	4.8	27
36	The effect of cell density on the maturation and contractile ability of muscle derived cells in a 3D tissue-engineered skeletal muscle model and determination of the cellular and mechanical stimuli required for the synthesis of a postural phenotype. <i>Journal of Cellular Physiology</i> , 2010, 225, 646-653.	2.0	53

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37	Identification of Key Factors in Deep O ₂ Cell Perfusion for Vascular Tissue Engineering. International Journal of Artificial Organs, 2009, 32, 318-328.	0.7	13
38	Guiding cell migration in 3D: A collagen matrix with graded directional stiffness. Cytoskeleton, 2009, 66, 121-128.	4.4	207
39	Host muscle cell infiltration in cell-seeded plastic compressed collagen constructs. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 72-75.	1.3	2
40	Close dependence of fibroblast proliferation on collagen scaffold matrix stiffness. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 77-84.	1.3	253
41	Interface integration of layered collagen scaffolds with defined matrix stiffness: implications for sheet-based tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 230-241.	1.3	26
42	Force generation and protease gene expression in organotypic co-cultures of fibroblasts and keratinocytes. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 647-650.	1.3	7
43	Transforming Growth Factor- β 1 Stimulation Enhances Dupuytren's Fibroblast Contraction in Response to Uniaxial Mechanical Load Within a 3-Dimensional Collagen Gel. Journal of Hand Surgery, 2009, 34, 1102-1110.	0.7	31
44	A Poly(Lactic Acid-Co-Caprolactone)-Collagen Hybrid for Tissue Engineering Applications. Tissue Engineering - Part A, 2009, 15, 1667-1675.	1.6	47
45	Muscle Tissue Engineering. , 2009, , 243-253.		2
46	Synergy between myogenic and non-myogenic cells in a 3D tissue-engineered craniofacial skeletal muscle construct. Journal of Tissue Engineering and Regenerative Medicine, 2008, 2, 408-417.	1.3	56
47	Matrix stiffness and serum concentration effects matrix remodelling and ECM regulatory genes of human bone marrow stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2008, 2, 97-105.	1.3	29
48	A Novel Biomimetic Material for Engineering Postsurgical Adhesion Using the Injured Digital Flexor Tendon-Synovial Complex as an In Vivo Model. Plastic and Reconstructive Surgery, 2008, 121, 781-793.	0.7	13
49	Ultra-rapid engineered collagen constructs tested in an in vivo nursery site. Journal of Tissue Engineering and Regenerative Medicine, 2007, 1, 192-198.	1.3	54
50	Spatial differences of cellular origins and in vivo hypoxia modify contractile properties of pulmonary artery smooth muscle cells: lessons for arterial tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2007, 1, 287-295.	1.3	7
51	Fabricating tissues: Analysis of farming versus engineering strategies. Biotechnology and Bioprocess Engineering, 2007, 12, 9-14.	1.4	24
52	The origins and regulation of tissue tension: Identification of collagen tension-fixation process in vitro. Experimental Cell Research, 2006, 312, 423-433.	1.2	55
53	In Situ Monitoring of Tendon Structural Changes by Elastic Scattering Spectroscopy: Correlation with Changes in Collagen Fibril Diameter and Crimp. Tissue Engineering, 2006, 12, 1821-1831.	4.9	21
54	In Situ Monitoring of Tendon Structural Changes by Elastic Scattering Spectroscopy: Correlation with Changes in Collagen Fibril Diameter and Crimp. Tissue Engineering, 2006, .	4.9	0

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55	5-Fluorouracil Selectively Inhibits Collagen Synthesis. <i>Plastic and Reconstructive Surgery</i> , 2005, 116, 209-221.	0.7	54
56	A three-dimensional in vitro model system to study the adaptation of craniofacial skeletal muscle following mechanostimulation. <i>European Journal of Oral Sciences</i> , 2005, 113, 218-224.	0.7	36
57	Mechanical signals and IGF-I gene splicing in vitro in relation to development of skeletal muscle. <i>Journal of Cellular Physiology</i> , 2005, 202, 67-75.	2.0	102
58	Structural changes in loaded equine tendons can be monitored by a novel spectroscopic technique. <i>Journal of Physiology</i> , 2004, 554, 791-801.	1.3	15
59	Soluble phosphate glasses: in vitro studies using human cells of hard and soft tissue origin. <i>Biomaterials</i> , 2004, 25, 2283-2292.	5.7	118
60	The Contractile Properties and Responses to Tensional Loading of Dupuytren's Disease-Derived Fibroblasts Are Altered: A Cause of the Contracture?. <i>Plastic and Reconstructive Surgery</i> , 2004, 113, 611-621.	0.7	41
61	The early surface cell response to flexor tendon injury. <i>Journal of Hand Surgery</i> , 2003, 28, 221-230.	0.7	41
62	Synovial sheath cell migratory response to flexor tendon injury: an experimental study in rats. <i>Journal of Hand Surgery</i> , 2003, 28, 987-993.	0.7	33
63	Enhanced Fibroblast Contraction of 3D Collagen Lattices and Integrin Expression by TGF- β 1 and - β 3: Mechanoregulatory Growth Factors?. <i>Experimental Cell Research</i> , 2002, 274, 310-322.	1.2	81
64	Evidence for sequential utilization of fibronectin, vitronectin, and collagen during fibroblast-mediated collagen contraction. <i>Wound Repair and Regeneration</i> , 2002, 10, 397-408.	1.5	76
65	A study of the cellular response to orientated fibronectin material in healing extensor rat tendon. <i>Journal of Materials Science: Materials in Medicine</i> , 2001, 12, 1005-1011.	1.7	3