Onnik Agbulut

List of Publications by Year
in descending order

85 papers	4,170 citations	32 h-index (136740)	63 g-index (114278)
95 all docs	95 docs citations	95 times ranked	5984 citing authors

#	Article	IF	Citations
1	3D models of dilated cardiomyopathy: Shaping the chemical, physical and topographical properties of biomaterials to mimic the cardiac extracellular matrix. Bioactive Materials, 2022, 7, 275-291.	8.6	11
2	Polysaccharideâ€“Protein Multilayers Based on Chitosanâ€“Fibrinogen Assemblies for Cardiac Cell Engineering. Macromolecular Bioscience, 2022, 22, e2100346.	2.1	5
3	Vimentin: Regulation and pathogenesis. Biochimie, 2022, 197, 96-112.	1.3	49
4	Desmin Modulates Muscle Cell Adhesion and Migration. Frontiers in Cell and Developmental Biology, 2022, 10, 783724.	1.8	7
5	The beneficial effect of chronic muscular exercise on muscle fragility is increased by Prox1 gene transfer in dystrophic mdx muscle. PLoS ONE, 2022, 17, e0254274.	1.1	3
6	Generation of an Adequate Perfusion Network within Dense Collagen Hydrogels Using Thermoplastic Polymers as Sacrificial Matrix to Promote Cell Viability. Bioengineering, 2022, 9, 313.	1.6	3
7	Efficacy of epicardial implantation of acellular chitosan hydrogels in ischemic and nonischemic heart failure: impact of the acetylation degree of chitosan. Acta Biomaterialia, 2021, 119, 125-139.	4.1	17
8	Alteration of skeletal and cardiac muscles function in <i>DBA/2J mdx</i> mice background: a focus on high intensity interval training. Intractable and Rare Diseases Research, 2021, 10, 269-275.	0.3	0
9	Absence of Desmin Results in Impaired Adaptive Response to Mechanical Overloading of Skeletal Muscle. Frontiers in Cell and Developmental Biology, 2021, 9, 662133.	1.8	8
10	Polyacrylamide Hydrogels with Rigidity-Independent Surface Chemistry Show Limited Long-Term Maintenance of Pluripotency of Human Induced Pluripotent Stem Cells on Soft Substrates. ACS Biomaterials Science and Engineering, 2020, 6, 340-351.	2.6	14
11	3D Magnetic Alignment of Cardiac Cells in Hydrogels. ACS Applied Bio Materials, 2020, 3, 6802-6810.	2.3	2
12	Vimentin as a target for the treatment of COVID-19. BMJ Open Respiratory Research, 2020, 7, e000623.	1.2	25
13	An Advantageous Donor Site Alternative for Preparing Crushed Cartilage Graft: The Postero-inferior Part of the Septal Cartilage. Indian Journal of Otolaryngology and Head and Neck Surgery, 2020, , 1.	0.3	1
14	Desmin prevents muscle wasting, exaggerated weakness and fragility, and fatigue in dystrophic <i>mdx</i> mouse. Journal of Physiology, 2020, 598, 3667-3689.	1.3	17
15	Design of Functional Electrospun Scaffolds Based on Poly(glycerol sebacate) Elastomer and Poly(lactic acid) for Cardiac Tissue Engineering. ACS Biomaterials Science and Engineering, 2020, 6, 2388-2400.	2.6	60
16	Synemin-related skeletal and cardiac myopathies: an overview of pathogenic variants. American Journal of Physiology - Cell Physiology, 2020, 318, C709-C718.	2.1	14
17	Alterations of redox dynamics and desmin post-translational modifications in skeletal muscle models of desminopathies. Experimental Cell Research, 2019, 383, 111539.	1.2	9
18	Effects of the selective inhibition of proteasome caspase-like activity by CLi a derivative of nor-cerpegin in dystrophic mdx mice. PLoS ONE, 2019, 14, e0215821.	1.1	3

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19	Lipin1 deficiency causes sarcoplasmic reticulum stress and chaperoneâ€responsive myopathy. EMBO Journal, 2019, 38, .	3.5	34
20	Heart on a chip: Micro-nanofabrication and microfluidics steering the future of cardiac tissue engineering. Microelectronic Engineering, 2019, 203-204, 44-62.	1.1	59
21	Supercooled Liquid Serum Physiologic Solution Instantly Crystallized on the Nurse Table Used for Cooling of Periorbital Region During Rhinoplasty. Aesthetic Plastic Surgery, 2019, 43, 453-456.	0.5	1
22	ModÃ©liser la myopathie myofibrillaire pour Ã©lucider la pathogenÃ¨se cardiaque. Les Cahiers De Myologie, 2019, , 47-48.	0.0	0
23	Transplantation of Human Embryonic StemÂCellâ€"Derived Cardiovascular Progenitors for SevereÂIschemic LeftÂVentricular Dysfunction. Journal of the American College of Cardiology, 2018, 71, 429-438.	1.2	336
24	Acellular therapeutic approach for heart failure: inÂvitro production of extracellular vesicles from human cardiovascular progenitors. European Heart Journal, 2018, 39, 1835-1847.	1.0	137
25	Improvement of Dystrophic Muscle Fragility by Short-Term Voluntary Exercise through Activation of Calcineurin Pathway in mdx Mice. American Journal of Pathology, 2018, 188, 2662-2673.	1.9	20
26	Molecular Mechanisms of Allosteric Inhibition of Brain Glycogen Phosphorylase by Neurotoxic Dithiocarbamate Chemicals. Journal of Biological Chemistry, 2017, 292, 1603-1612.	1.6	10
27	Gonad-related factors promote muscle performance gain during postnatal development in male and female mice. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E12-E25.	1.8	15
28	A 3D magnetic tissue stretcher for remote mechanical control of embryonic stem cell differentiation. Nature Communications, 2017, 8, 400.	5.8	123
29	Fibers for hearts: A critical review on electrospinning for cardiac tissue engineering. Acta Biomaterialia, 2017, 48, 20-40.	4.1	230
30	The Oxygen Paradox, the French Paradox, and age-related diseases. GeroScience, 2017, 39, 499-550.	2.1	59
31	Voluntary Exercise Improves Cardiac Function and Prevents Cardiac Remodeling in a Mouse Model of Dilated Cardiomyopathy. Frontiers in Physiology, 2017, 8, 899.	1.3	13
32	Distinct Fiber Type Signature in Mouse Muscles Expressing a Mutant Lamin A Responsible for Congenital Muscular Dystrophy in a Patient. Cells, 2017, 6, 10.	1.8	4
33	MiRroring the Multiple Potentials of MicroRNAs in Acute Myocardial Infarction. Frontiers in Cardiovascular Medicine, 2017, 4, 73.	1.1	32
34	Chitosan Hydrogels for the Regeneration of Infarcted Myocardium: Preparation, Physicochemical Characterization, and Biological Evaluation. Biomacromolecules, 2016, 17, 1662-1672.	2.6	46
35	Dystrophin restoration therapy improves both the reduced excitability and the force drop induced by lengthening contractions in dystrophic mdx skeletal muscle. Skeletal Muscle, 2016, 6, 23.	1.9	28
36	Nanofibrous clinical-grade collagen scaffolds seeded with human cardiomyocytes induces cardiac remodeling in dilated cardiomyopathy. Biomaterials, 2016, 80, 157-168.	5.7	65

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37	Effect of voluntary physical activity initiated at age 7 months on skeletal hindlimb and cardiac muscle function in <i>mdx</i> mice of both genders. Muscle and Nerve, 2015, 52, 788-794.	1.0	17
38	Mechanical Overloading Increases Maximal Force and Reduces Fragility in Hind Limb Skeletal Muscle from Mdx Mouse. American Journal of Pathology, 2015, 185, 2012-2024.	1.9	15
39	Long-term functional benefits of human embryonic stem cell-derived cardiac progenitors embedded into a fibrin scaffold. Journal of Heart and Lung Transplantation, 2015, 34, 1198-1207.	0.3	80
40	Fabrication of cardiac patch by using electrospun collagen fibers. Microelectronic Engineering, 2015, 144, 46-50.	1.1	37
41	0413 : Cardiac differentiation of human pluripotent stem cells: the first step toward cardiac tissue engineering and cell therapy. Archives of Cardiovascular Diseases Supplements, 2015, 7, 198.	0.0	0
42	Towards a clinical use of human embryonic stem cell-derived cardiac progenitors: a translational experience. European Heart Journal, 2015, 36, 743-750.	1.0	137
43	Myofiber Androgen Receptor Promotes Maximal Mechanical Overload-Induced Muscle Hypertrophy and Fiber Type Transition in Male Mice. Endocrinology, 2014, 155, 4739-4748.	1.4	18
44	Synemin acts as a regulator of signalling molecules in skeletal muscle hypertrophy. Journal of Cell Science, 2014, 127, 4589-601.	1.2	31
45	Myostatin is a key mediator between energy metabolism and endurance capacity of skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R444-R454.	0.9	65
46	Skeletal muscle glycogen phosphorylase is irreversibly inhibited by mercury: Molecular, cellular and kinetic aspects. FEBS Letters, 2014, 588, 138-142.	1.3	4
47	Advances in the understanding of skeletal muscle weakness in murine models of diseases affecting nerve-evoked muscle activity, motor neurons, synapses and myofibers. Neuromuscular Disorders, 2014, 24, 960-972.	0.3	11
48	Long-Term Functional Benefits of Epicardial Patches as Cell Carriers. Cell Transplantation, 2014, 23, 87-96.	1.2	26
49	Viral-mediated expression of desmin mutants to create mouse models of myofibrillar myopathy. Skeletal Muscle, 2013, 3, 4.	1.9	27
50	Efficacy of epicardially delivered adipose stroma cell sheets in dilated cardiomyopathy. Cardiovascular Research, 2013, 99, 640-647.	1.8	22
51	Voluntary Physical Activity Protects from Susceptibility to Skeletal Muscle Contractionâ€"Induced Injury But Worsens Heart Function in mdx Mice. American Journal of Pathology, 2013, 182, 1509-1518.	1.9	45
52	Protective effect of female genderâ€"related factors on muscle forceâ€generating capacity and fragility in the dystrophic <i>mdx</i> mouse. Muscle and Nerve, 2013, 48, 68-75.	1.0	19
53	Impaired Adaptive Response to Mechanical Overloading in Dystrophic Skeletal Muscle. PLoS ONE, 2012, 7, e35346.	1.1	25
54	Desmin mutations in the terminal consensus motif prevent synemin-desmin heteropolymer filament assembly. Experimental Cell Research, 2011, 317, 886-897.	1.2	25

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55	Dynamic expression of synemin isoforms in mouse embryonic stem cells and neural derivatives. BMC Cell Biology, 2011, 12, 51.	3.0	14
56	Epicardial adipose stem cell sheets results in greater post-infarction survival than intramyocardial injections. Cardiovascular Research, 2011, 91, 483-491.	1.8	104
57	Skeletal muscle intrinsic functional properties are preserved in a model of erythropoietin deficient mice exposed to hypoxia. Pflugers Archiv European Journal of Physiology, 2010, 459, 713-723.	1.3	4
58	Epo Is Relevant Neither for Microvascular Formation Nor for the New Formation and Maintenance of Mice Skeletal Muscle Fibres in Both Normoxia and Hypoxia. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-13.	3.0	20
59	Cell Delivery: Intramyocardial Injections or Epicardial Deposition? A Head-to-Head Comparison. Annals of Thoracic Surgery, 2009, 87, 1196-1203.	0.7	112
60	Reply to â€œGFP fails to inhibit actin-myosin interactions in vitroâ€• Nature Methods, 2008, 5, 213-214.	9.0	1
61	Characterization of the paracrine effects of human skeletal myoblasts transplanted in infarcted myocardium. European Journal of Heart Failure, 2008, 10, 1065-1072.	2.9	119
62	Green Fluorescent Protein Impairs Actin-Myosin Interactions by Binding to the Actin-binding Site of Myosin. Journal of Biological Chemistry, 2007, 282, 10465-10471.	1.6	67
63	GFP expression in muscle cells impairs actin-myosin interactions: implications for cell therapy. Nature Methods, 2006, 3, 331-331.	9.0	72
64	TGF-Î²1 favors the development of fast type identity during soleus muscle regeneration. Journal of Muscle Research and Cell Motility, 2006, 27, 1-8.	0.9	21
65	Can bone marrow-derived multipotent adult progenitor cells regenerate infarcted myocardium?. Cardiovascular Research, 2006, 72, 175-183.	1.8	34
66	Expression of slow myosin heavy chain during muscle regeneration is not always dependent on muscle innervation and calcineurin phosphatase activity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R1508-R1514.	0.9	28
67	Transplantation of cardiac-committed mouse embryonic stem cells to infarcted sheep myocardium: a preclinical study. Lancet, The, 2005, 366, 1005-1012.	6.3	270
68	Comparison of human skeletal myoblasts and bone marrow-derived CD133+progenitors for the repair of infarcted myocardium. Journal of the American College of Cardiology, 2004, 44, 458-463.	1.2	145
69	Overcoming bacterial DNA contamination in real-time PCR and RT-PCR reactions for LacZ detection in cell therapy monitoring. Molecular and Cellular Probes, 2004, 18, 437-441.	0.9	12
70	Specific isomyosin proportions in hyperexcitable and physiologically denervated mouse muscle. FEBS Letters, 2004, 561, 191-194.	1.3	21
71	Myosin heavy chain isoforms in postnatal muscle development of mice. Biology of the Cell, 2003, 95, 399-406.	0.7	220
72	Changes in Myotonic Dystrophy Protein Kinase Levels and Muscle Development in Congenital Myotonic Dystrophy. American Journal of Pathology, 2003, 162, 1001-1009.	1.9	45

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73	Temporal patterns of bone marrow cell differentiation following transplantation in doxorubicin-induced cardiomyopathy. Cardiovascular Research, 2003, 58, 451-459.	1.8	62
74	A Nonionic Amphiphile Agent Promotes Gene DeliveryIn Vivoto Skeletal and Cardiac Muscles. Human Gene Therapy, 2002, 13, 1767-1775.	1.4	104
75	PREPARATION OF ISOLATED HUMAN MUSCLE FIBERS: A TECHNICAL REPORT. In Vitro Cellular and Developmental Biology - Animal, 2002, 38, 66.	0.7	26
76	A discrepancy resolved: human satellite cells are not preprogrammed to fast and slow lineages. Neuromuscular Disorders, 2001, 11, 747-752.	0.3	37
77	Lack of desmin results in abortive muscle regeneration and modifications in synaptic structure. Cytoskeleton, 2001, 49, 51-66.	4.4	48
78	Differential Modification of Myosin Heavy Chain Expression by Tenotomy in Regenerating Fast and Slow Muscles of the Rat. Experimental Physiology, 2000, 85, 187-191.	0.9	13
79	Age-related appearance of tubular aggregates in the skeletal muscle of almost all male inbred mice. Histochemistry and Cell Biology, 2000, 114, 477-481.	0.8	58
80	Myosin Heavy Chain Expression in Human Laryngeal Muscle Fibers. Annals of Otology, Rhinology and Laryngology, 2000, 109, 216-220.	0.6	22
81	Differential Modification of Myosin Heavy Chain Expression by Tenotomy in Regenerating Fast and Slow Muscles of the Rat. , 2000, 85, 187.		4
82	Desmin Is Essential for the Tensile Strength and Integrity of Myofibrils but Not for Myogenic Commitment, Differentiation, and Fusion of Skeletal Muscle. Journal of Cell Biology, 1997, 139, 129-144.	2.3	318
83	Analysis of skeletal and cardiac muscle from desmin knockâ€out and normal mice by high resolution separation of myosin heavyâ€chain isoforms. Biology of the Cell, 1996, 88, 131-135.	0.7	79
84	Analysis of skeletal and cardiac muscle from desmin knock-out and normal mice by high resolution separation of myosin heavy-chain isoforms. , 1996, 88, 131.		21
85	The Role of Genetics in Cardiomyopathy. , 0, , .		1