

# Onnik Agbulut

## List of Publications by Year in descending order

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85  
papers

4,170  
citations

136740

32  
h-index

114278

63  
g-index

95  
all docs

95  
docs citations

95  
times ranked

5984  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transplantation of Human Embryonic Stem Cell-Derived Cardiovascular Progenitors for Severe Ischemic Left Ventricular Dysfunction. <i>Journal of the American College of Cardiology</i> , 2018, 71, 429-438.	1.2	336
2	Desmin Is Essential for the Tensile Strength and Integrity of Myofibrils but Not for Myogenic Commitment, Differentiation, and Fusion of Skeletal Muscle. <i>Journal of Cell Biology</i> , 1997, 139, 129-144.	2.3	318
3	Transplantation of cardiac-committed mouse embryonic stem cells to infarcted sheep myocardium: a preclinical study. <i>Lancet, The</i> , 2005, 366, 1005-1012.	6.3	270
4	Fibers for hearts: A critical review on electrospinning for cardiac tissue engineering. <i>Acta Biomaterialia</i> , 2017, 48, 20-40.	4.1	230
5	Myosin heavy chain isoforms in postnatal muscle development of mice. <i>Biology of the Cell</i> , 2003, 95, 399-406.	0.7	220
6	Comparison of human skeletal myoblasts and bone marrow-derived CD133+progenitors for the repair of infarcted myocardium. <i>Journal of the American College of Cardiology</i> , 2004, 44, 458-463.	1.2	145
7	Towards a clinical use of human embryonic stem cell-derived cardiac progenitors: a translational experience. <i>European Heart Journal</i> , 2015, 36, 743-750.	1.0	137
8	Acellular therapeutic approach for heart failure: in vitro production of extracellular vesicles from human cardiovascular progenitors. <i>European Heart Journal</i> , 2018, 39, 1835-1847.	1.0	137
9	A 3D magnetic tissue stretcher for remote mechanical control of embryonic stem cell differentiation. <i>Nature Communications</i> , 2017, 8, 400.	5.8	123
10	Characterization of the paracrine effects of human skeletal myoblasts transplanted in infarcted myocardium. <i>European Journal of Heart Failure</i> , 2008, 10, 1065-1072.	2.9	119
11	Cell Delivery: Intramyocardial Injections or Epicardial Deposition? A Head-to-Head Comparison. <i>Annals of Thoracic Surgery</i> , 2009, 87, 1196-1203.	0.7	112
12	A Nonionic Amphiphile Agent Promotes Gene Delivery In Vivo to Skeletal and Cardiac Muscles. <i>Human Gene Therapy</i> , 2002, 13, 1767-1775.	1.4	104
13	Epicardial adipose stem cell sheets results in greater post-infarction survival than intramyocardial injections. <i>Cardiovascular Research</i> , 2011, 91, 483-491.	1.8	104
14	Long-term functional benefits of human embryonic stem cell-derived cardiac progenitors embedded into a fibrin scaffold. <i>Journal of Heart and Lung Transplantation</i> , 2015, 34, 1198-1207.	0.3	80
15	Analysis of skeletal and cardiac muscle from desmin knock-out and normal mice by high resolution separation of myosin heavy chain isoforms. <i>Biology of the Cell</i> , 1996, 88, 131-135.	0.7	79
16	GFP expression in muscle cells impairs actin-myosin interactions: implications for cell therapy. <i>Nature Methods</i> , 2006, 3, 331-331.	9.0	72
17	Green Fluorescent Protein Impairs Actin-Myosin Interactions by Binding to the Actin-binding Site of Myosin. <i>Journal of Biological Chemistry</i> , 2007, 282, 10465-10471.	1.6	67
18	Myostatin is a key mediator between energy metabolism and endurance capacity of skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R444-R454.	0.9	65

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19	Nanofibrous clinical-grade collagen scaffolds seeded with human cardiomyocytes induces cardiac remodeling in dilated cardiomyopathy. <i>Biomaterials</i> , 2016, 80, 157-168.	5.7	65
20	Temporal patterns of bone marrow cell differentiation following transplantation in doxorubicin-induced cardiomyopathy. <i>Cardiovascular Research</i> , 2003, 58, 451-459.	1.8	62
21	Design of Functional Electrospun Scaffolds Based on Poly(glycerol sebacate) Elastomer and Poly(lactic acid) for Cardiac Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2388-2400.	2.6	60
22	The Oxygen Paradox, the French Paradox, and age-related diseases. <i>GeroScience</i> , 2017, 39, 499-550.	2.1	59
23	Heart on a chip: Micro-nanofabrication and microfluidics steering the future of cardiac tissue engineering. <i>Microelectronic Engineering</i> , 2019, 203-204, 44-62.	1.1	59
24	Age-related appearance of tubular aggregates in the skeletal muscle of almost all male inbred mice. <i>Histochemistry and Cell Biology</i> , 2000, 114, 477-481.	0.8	58
25	Vimentin: Regulation and pathogenesis. <i>Biochimie</i> , 2022, 197, 96-112.	1.3	49
26	Lack of desmin results in abortive muscle regeneration and modifications in synaptic structure. <i>Cytoskeleton</i> , 2001, 49, 51-66.	4.4	48
27	Chitosan Hydrogels for the Regeneration of Infarcted Myocardium: Preparation, Physicochemical Characterization, and Biological Evaluation. <i>Biomacromolecules</i> , 2016, 17, 1662-1672.	2.6	46
28	Changes in Myotonic Dystrophy Protein Kinase Levels and Muscle Development in Congenital Myotonic Dystrophy. <i>American Journal of Pathology</i> , 2003, 162, 1001-1009.	1.9	45
29	Voluntary Physical Activity Protects from Susceptibility to Skeletal Muscle Contraction-Induced Injury But Worsens Heart Function in mdx Mice. <i>American Journal of Pathology</i> , 2013, 182, 1509-1518.	1.9	45
30	A discrepancy resolved: human satellite cells are not preprogrammed to fast and slow lineages. <i>Neuromuscular Disorders</i> , 2001, 11, 747-752.	0.3	37
31	Fabrication of cardiac patch by using electrospun collagen fibers. <i>Microelectronic Engineering</i> , 2015, 144, 46-50.	1.1	37
32	Can bone marrow-derived multipotent adult progenitor cells regenerate infarcted myocardium?. <i>Cardiovascular Research</i> , 2006, 72, 175-183.	1.8	34
33	Lipin1 deficiency causes sarcoplasmic reticulum stress and chaperone-responsive myopathy. <i>EMBO Journal</i> , 2019, 38, .	3.5	34
34	Mirroring the Multiple Potentials of MicroRNAs in Acute Myocardial Infarction. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 73.	1.1	32
35	Synemin acts as a regulator of signalling molecules in skeletal muscle hypertrophy. <i>Journal of Cell Science</i> , 2014, 127, 4589-601.	1.2	31
36	Expression of slow myosin heavy chain during muscle regeneration is not always dependent on muscle innervation and calcineurin phosphatase activity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R1508-R1514.	0.9	28

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37	Dystrophin restoration therapy improves both the reduced excitability and the force drop induced by lengthening contractions in dystrophic mdx skeletal muscle. <i>Skeletal Muscle</i> , 2016, 6, 23.	1.9	28
38	Viral-mediated expression of desmin mutants to create mouse models of myofibrillar myopathy. <i>Skeletal Muscle</i> , 2013, 3, 4.	1.9	27
39	PREPARATION OF ISOLATED HUMAN MUSCLE FIBERS: A TECHNICAL REPORT. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2002, 38, 66.	0.7	26
40	Long-Term Functional Benefits of Epicardial Patches as Cell Carriers. <i>Cell Transplantation</i> , 2014, 23, 87-96.	1.2	26
41	Desmin mutations in the terminal consensus motif prevent synemin-desmin heteropolymer filament assembly. <i>Experimental Cell Research</i> , 2011, 317, 886-897.	1.2	25
42	Impaired Adaptive Response to Mechanical Overloading in Dystrophic Skeletal Muscle. <i>PLoS ONE</i> , 2012, 7, e35346.	1.1	25
43	Vimentin as a target for the treatment of COVID-19. <i>BMJ Open Respiratory Research</i> , 2020, 7, e000623.	1.2	25
44	Myosin Heavy Chain Expression in Human Laryngeal Muscle Fibers. <i>Annals of Otology, Rhinology and Laryngology</i> , 2000, 109, 216-220.	0.6	22
45	Efficacy of epicardially delivered adipose stroma cell sheets in dilated cardiomyopathy. <i>Cardiovascular Research</i> , 2013, 99, 640-647.	1.8	22
46	Specific isomyosin proportions in hyperexcitable and physiologically denervated mouse muscle. <i>FEBS Letters</i> , 2004, 561, 191-194.	1.3	21
47	TGF- $\beta$ 1 favors the development of fast type identity during soleus muscle regeneration. <i>Journal of Muscle Research and Cell Motility</i> , 2006, 27, 1-8.	0.9	21
48	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
49	Epo Is Relevant Neither for Microvascular Formation Nor for the New Formation and Maintenance of Mice Skeletal Muscle Fibres in Both Normoxia and Hypoxia. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-13.	3.0	20
50	Improvement of Dystrophic Muscle Fragility by Short-Term Voluntary Exercise through Activation of Calcineurin Pathway in mdx Mice. <i>American Journal of Pathology</i> , 2018, 188, 2662-2673.	1.9	20
51	Protective effect of female gender-related factors on muscle force-generating capacity and fragility in the dystrophic <i>mdx</i> mouse. <i>Muscle and Nerve</i> , 2013, 48, 68-75.	1.0	19
52	Myofiber Androgen Receptor Promotes Maximal Mechanical Overload-Induced Muscle Hypertrophy and Fiber Type Transition in Male Mice. <i>Endocrinology</i> , 2014, 155, 4739-4748.	1.4	18
53	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. <i>Muscle and Nerve</i> , 2015, 52, 788-794.	1.0	17
54	Desmin prevents muscle wasting, exaggerated weakness and fragility, and fatigue in dystrophic <i>mdx</i> mouse. <i>Journal of Physiology</i> , 2020, 598, 3667-3689.	1.3	17

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55	Efficacy of epicardial implantation of acellular chitosan hydrogels in ischemic and nonischemic heart failure: impact of the acetylation degree of chitosan. <i>Acta Biomaterialia</i> , 2021, 119, 125-139.	4.1	17
56	Mechanical Overloading Increases Maximal Force and Reduces Fragility in Hind Limb Skeletal Muscle from Mdx Mouse. <i>American Journal of Pathology</i> , 2015, 185, 2012-2024.	1.9	15
57	Gonad-related factors promote muscle performance gain during postnatal development in male and female mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E12-E25.	1.8	15
58	Dynamic expression of synemin isoforms in mouse embryonic stem cells and neural derivatives. <i>BMC Cell Biology</i> , 2011, 12, 51.	3.0	14
59	Polyacrylamide Hydrogels with Rigidity-Independent Surface Chemistry Show Limited Long-Term Maintenance of Pluripotency of Human Induced Pluripotent Stem Cells on Soft Substrates. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 340-351.	2.6	14
60	Synemin-related skeletal and cardiac myopathies: an overview of pathogenic variants. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C709-C718.	2.1	14
61	Differential Modification of Myosin Heavy Chain Expression by Tenotomy in Regenerating Fast and Slow Muscles of the Rat. <i>Experimental Physiology</i> , 2000, 85, 187-191.	0.9	13
62	Voluntary Exercise Improves Cardiac Function and Prevents Cardiac Remodeling in a Mouse Model of Dilated Cardiomyopathy. <i>Frontiers in Physiology</i> , 2017, 8, 899.	1.3	13
63	Overcoming bacterial DNA contamination in real-time PCR and RT-PCR reactions for LacZ detection in cell therapy monitoring. <i>Molecular and Cellular Probes</i> , 2004, 18, 437-441.	0.9	12
64	Advances in the understanding of skeletal muscle weakness in murine models of diseases affecting nerve-evoked muscle activity, motor neurons, synapses and myofibers. <i>Neuromuscular Disorders</i> , 2014, 24, 960-972.	0.3	11
65	3D models of dilated cardiomyopathy: Shaping the chemical, physical and topographical properties of biomaterials to mimic the cardiac extracellular matrix. <i>Bioactive Materials</i> , 2022, 7, 275-291.	8.6	11
66	Molecular Mechanisms of Allosteric Inhibition of Brain Glycogen Phosphorylase by Neurotoxic Dithiocarbamate Chemicals. <i>Journal of Biological Chemistry</i> , 2017, 292, 1603-1612.	1.6	10
67	Alterations of redox dynamics and desmin post-translational modifications in skeletal muscle models of desminopathies. <i>Experimental Cell Research</i> , 2019, 383, 111539.	1.2	9
68	Absence of Desmin Results in Impaired Adaptive Response to Mechanical Overloading of Skeletal Muscle. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 662133.	1.8	8
69	Desmin Modulates Muscle Cell Adhesion and Migration. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 783724.	1.8	7
70	Polysaccharide-Protein Multilayers Based on Chitosan-Fibrinogen Assemblies for Cardiac Cell Engineering. <i>Macromolecular Bioscience</i> , 2022, 22, e2100346.	2.1	5
71	Skeletal muscle intrinsic functional properties are preserved in a model of erythropoietin deficient mice exposed to hypoxia. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 459, 713-723.	1.3	4
72	Skeletal muscle glycogen phosphorylase is irreversibly inhibited by mercury: Molecular, cellular and kinetic aspects. <i>FEBS Letters</i> , 2014, 588, 138-142.	1.3	4

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73	Distinct Fiber Type Signature in Mouse Muscles Expressing a Mutant Lamin A Responsible for Congenital Muscular Dystrophy in a Patient. <i>Cells</i> , 2017, 6, 10.	1.8	4
74	Differential Modification of Myosin Heavy Chain Expression by Tenotomy in Regenerating Fast and Slow Muscles of the Rat. , 2000, 85, 187.		4
75	Effects of the selective inhibition of proteasome caspase-like activity by CLI a derivative of nor-cerpegin in dystrophic mdx mice. <i>PLoS ONE</i> , 2019, 14, e0215821.	1.1	3
76	The beneficial effect of chronic muscular exercise on muscle fragility is increased by Prox1 gene transfer in dystrophic mdx muscle. <i>PLoS ONE</i> , 2022, 17, e0254274.	1.1	3
77	Generation of an Adequate Perfusion Network within Dense Collagen Hydrogels Using Thermoplastic Polymers as Sacrificial Matrix to Promote Cell Viability. <i>Bioengineering</i> , 2022, 9, 313.	1.6	3
78	3D Magnetic Alignment of Cardiac Cells in Hydrogels. <i>ACS Applied Bio Materials</i> , 2020, 3, 6802-6810.	2.3	2
79	Reply to "GFP fails to inhibit actin-myosin interactions in vitro". <i>Nature Methods</i> , 2008, 5, 213-214.	9.0	1
80	The Role of Genetics in Cardiomyopathy. , 0, , .		1
81	Supercooled Liquid Serum Physiologic Solution Instantly Crystallized on the Nurse Table Used for Cooling of Periorbital Region During Rhinoplasty. <i>Aesthetic Plastic Surgery</i> , 2019, 43, 453-456.	0.5	1
82	An Advantageous Donor Site Alternative for Preparing Crushed Cartilage Graft: The Postero-inferior Part of the Septal Cartilage. <i>Indian Journal of Otolaryngology and Head and Neck Surgery</i> , 2020, , 1.	0.3	1
83	0413 : Cardiac differentiation of human pluripotent stem cells: the first step toward cardiac tissue engineering and cell therapy. <i>Archives of Cardiovascular Diseases Supplements</i> , 2015, 7, 198.	0.0	0
84	Alteration of skeletal and cardiac muscles function in <i>DBA/2J mdx</i> mice background: a focus on high intensity interval training. <i>Intractable and Rare Diseases Research</i> , 2021, 10, 269-275.	0.3	0
85	Modéliser la myopathie myofibrillaire pour élucider la pathogénèse cardiaque. <i>Les Cahiers De Myologie</i> , 2019, , 47-48.	0.0	0