

# Cesare Gargioli

## List of Publications by Citations

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

65  
papers

2,408  
citations

24  
h-index

48  
g-index

72  
ext. papers

2,965  
ext. citations

6.5  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
65	The crystal structure of the quorum sensing protein TraR bound to its autoinducer and target DNA. <i>EMBO Journal</i> , <b>2002</b> , 21, 4393-401	13	281
64	Oxidative stress preconditioning of mouse perivascular myogenic progenitors selects a subpopulation of cells with a distinct survival advantage in vitro and in vivo. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 1	9.8	267
63	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers in vitro and in vivo. <i>Biomaterials</i> , <b>2017</b> , 131, 98-110	15.6	184
62	A multi-cellular 3D bioprinting approach for vascularized heart tissue engineering based on HUVECs and iPSC-derived cardiomyocytes. <i>Scientific Reports</i> , <b>2018</b> , 8, 13532	4.9	164
61	Cell lineage tracing during <i>Xenopus</i> tail regeneration. <i>Development (Cambridge)</i> , <b>2004</b> , 131, 2669-79	6.6	159
60	3D Bioprinting in Skeletal Muscle Tissue Engineering. <i>Small</i> , <b>2019</b> , 15, e1805530	11	113
59	PLGF-MMP-9-expressing cells restore microcirculation and efficacy of cell therapy in aged dystrophic muscle. <i>Nature Medicine</i> , <b>2008</b> , 14, 973-8	50.5	105
58	3D hydrogel environment rejuvenates aged pericytes for skeletal muscle tissue engineering. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 203	4.6	77
57	3D bioprinting of hydrogel constructs with cell and material gradients for the regeneration of full-thickness chondral defect using a microfluidic printing head. <i>Biofabrication</i> , <b>2019</b> , 11, 044101	10.5	72
56	A novel, inducible, eukaryotic gene expression system based on the quorum-sensing transcription factor TraR. <i>EMBO Reports</i> , <b>2003</b> , 4, 159-65	6.5	64
55	In vivo generation of a mature and functional artificial skeletal muscle. <i>EMBO Molecular Medicine</i> , <b>2015</b> , 7, 411-22	12	63
54	Injectable polyethylene glycol-fibrinogen hydrogel adjuvant improves survival and differentiation of transplanted mesoangioblasts in acute and chronic skeletal-muscle degeneration. <i>Skeletal Muscle</i> , <b>2012</b> , 2, 24	5.1	61
53	Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801218	10.1	56
52	PLGF-MMP9-engineered iPSC cells supported on a PEG-fibrinogen hydrogel scaffold possess an enhanced capacity to repair damaged myocardium. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1053	9.8	46
51	Matrix scaffolding for stem cell guidance toward skeletal muscle tissue engineering. <i>Journal of Orthopaedic Surgery and Research</i> , <b>2016</b> , 11, 86	2.8	44
50	Engineering Muscle Networks in 3D Gelatin Methacryloyl Hydrogels: Influence of Mechanical Stiffness and Geometrical Confinement. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 22	5.8	42
49	S-nitrosoglutathione reductase deficiency-induced S-nitrosylation results in neuromuscular dysfunction. <i>Antioxidants and Redox Signaling</i> , <b>2014</b> , 21, 570-87	8.4	36

48	Activation of the Pro-Oxidant PKC $\beta$ -p66Shc Signaling Pathway Contributes to Pericyte Dysfunction in Skeletal Muscles of Patients With Diabetes With Critical Limb Ischemia. <i>Diabetes</i> , <b>2016</b> , 65, 3691-3704	0.9	35
47	Metformin protects skeletal muscle from cardiotoxin induced degeneration. <i>PLoS ONE</i> , <b>2014</b> , 9, e114018	3.7	33
46	The niche-derived glial cell line-derived neurotrophic factor (GDNF) induces migration of mouse spermatogonial stem/progenitor cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e59431	3.7	33
45	Tissue engineering for skeletal muscle regeneration. <i>Muscles, Ligaments and Tendons Journal</i> , <b>2012</b> , 2, 230-4	1.9	31
44	Purification and characterization of a fibrinogenolytic and hemorrhagic metalloproteinase isolated from <i>Vipera lebetina</i> venom. <i>Biochimie</i> , <b>2010</b> , 92, 797-805	4.6	29
43	Combination of biochemical and mechanical cues for tendon tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , <b>2017</b> , 21, 2711-2719	5.6	28
42	Metformin Delays Satellite Cell Activation and Maintains Quiescence. <i>Stem Cells International</i> , <b>2019</b> , 2019, 5980465	5	25
41	Fibro-adipogenic progenitors of dystrophic mice are insensitive to NOTCH regulation of adipogenesis. <i>Life Science Alliance</i> , <b>2019</b> , 2,	5.8	24
40	Adipogenesis of skeletal muscle fibro/adipogenic progenitors is affected by the WNT5a/GSK3/ $\beta$ catenin axis. <i>Cell Death and Differentiation</i> , <b>2020</b> , 27, 2921-2941	12.7	23
39	Regulation of myoblast differentiation by metabolic perturbations induced by metformin. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182475	3.7	20
38	Lens-forming competence in the epidermis of <i>Xenopus laevis</i> during development. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , <b>2005</b> , 303, 1-12		20
37	High-Density ZnO Nanowires as a Reversible Myogenic-Differentiation Switch. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14097-14107	9.5	19
36	The lens-regenerating competence in the outer cornea and epidermis of larval <i>Xenopus laevis</i> is related to pax6 expression. <i>Journal of Anatomy</i> , <b>2008</b> , 212, 612-20	2.9	16
35	Tissue interactions and lens-forming competence in the outer cornea of larval <i>Xenopus laevis</i> . <i>The Journal of Experimental Zoology</i> , <b>2003</b> , 299, 161-71		15
34	Binding of sFRP-3 to EGF in the extra-cellular space affects proliferation, differentiation and morphogenetic events regulated by the two molecules. <i>PLoS ONE</i> , <b>2008</b> , 3, e2471	3.7	15
33	Isolation and characterization of a myotoxin from the venom of <i>Macrovipera lebetina</i> transmediterranea. <i>Toxicon</i> , <b>2010</b> , 56, 381-90	2.8	13
32	High-Dimensional Single-Cell Quantitative Profiling of Skeletal Muscle Cell Population Dynamics during Regeneration. <i>Cells</i> , <b>2020</b> , 9,	7.9	13
31	Group I Paks support muscle regeneration and counteract cancer-associated muscle atrophy. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2018</b> , 9, 727-746	10.3	13

30	Metabolic reprogramming of fibro/adipogenic progenitors facilitates muscle regeneration. <i>Life Science Alliance</i> , <b>2020</b> , 3,	5.8	12
29	The immunosuppressant drug azathioprine restrains adipogenesis of muscle Fibro/Adipogenic Progenitors from dystrophic mice by affecting AKT signaling. <i>Scientific Reports</i> , <b>2019</b> , 9, 4360	4.9	10
28	The optic vesicle promotes cornea to lens transdifferentiation in larval <i>Xenopus laevis</i> . <i>Journal of Anatomy</i> , <b>2008</b> , 212, 621-6	2.9	10
27	PIM1 destabilization activates a p53-dependent response to ribosomal stress in cancer cells. <i>Oncotarget</i> , <b>2016</b> , 7, 23837-49	3.3	10
26	Characterization by mass cytometry of different methods for the preparation of muscle mononuclear cells. <i>New Biotechnology</i> , <b>2016</b> , 33, 514-23	6.4	9
25	Biofabricating murine and human myo-substitutes for rapid volumetric muscle loss restoration. <i>EMBO Molecular Medicine</i> , <b>2021</b> , 13, e12778	12	9
24	Extracellular Vesicles from Skeletal Muscle Cells Efficiently Promote Myogenesis in Induced Pluripotent Stem Cells. <i>Cells</i> , <b>2020</b> , 9,	7.9	8
23	Intramuscular Transplantation of Muscle Precursor Cells over-expressing MMP-9 improves Transplantation Success. <i>PLOS Currents</i> , <b>2011</b> , 3, RRN1275		8
22	SCA-1 micro-heterogeneity in the fate decision of dystrophic fibro/adipogenic progenitors. <i>Cell Death and Disease</i> , <b>2021</b> , 12, 122	9.8	8
21	Engineering Human-Scale Artificial Bone Grafts for Treating Critical-Size Bone Defects.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 5077-5092	4.1	7
20	Could a functional artificial skeletal muscle be useful in muscle wasting?. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2016</b> , 19, 182-7	3.8	7
19	Designing a 3D printed human derived artificial myo-structure for anal sphincter defects in anorectal malformations and adult secondary damage. <i>Materials Today Communications</i> , <b>2018</b> , 15, 120-125	12.5	6
18	Myo-REG: A Portal for Signaling Interactions in Muscle Regeneration. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 1216	4.6	6
17	Neurogenesis during optic tectum regeneration in <i>Xenopus laevis</i> . <i>Development Growth and Differentiation</i> , <b>2010</b> , 52, 365-76	3	6
16	Role of TPBG (Trophoblast Glycoprotein) Antigen in Human Pericyte Migratory and Angiogenic Activity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2019</b> , 39, 1113-1124	9.4	5
15	Lack of PKC $\zeta$ Promotes Regenerative Ability of Muscle Stem Cells in Chronic Muscle Injury. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
14	The change in Ig regulation from children to adults disconnects the correlation with the 3RR hs1.2 polymorphism. <i>BMC Immunology</i> , <b>2014</b> , 15, 45	3.7	5
13	Evidence for a quadruplex structure in the polymorphic hs1.2 enhancer of the immunoglobulin heavy chain 3Sregulatory regions and its conservation in mammals. <i>Biopolymers</i> , <b>2016</b> , 105, 768-78	2.2	5

12	Crystallization and preliminary X-ray diffraction studies of the transcriptional regulator TraR bound to its cofactor and to a specific DNA sequence. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2002</b> , 58, 1362-4		4
11	Adipogenesis of Skeletal Muscle Fibro/Adipogenic Progenitors is Controlled by the WNT5a/GSK3/ECatenin Axis. <i>SSRN Electronic Journal</i> ,	1	4
10	Skeletal Muscle-Derived Human Mesenchymal Stem Cells: Influence of Different Culture Conditions on Proliferative and Myogenic Capabilities. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 553198	4.6	4
9	Association between Psoriasis and haplotypes of the IgH 3SRegulatory Region 1. <i>Gene</i> , <b>2018</b> , 669, 47-51	3.8	4
8	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 732130	5.8	4
7	Myoblast Myogenic Differentiation but Not Fusion Process Is Inhibited via MyoD Tetraplex Interaction. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 7640272	6.7	3
6	Characterization of the Skeletal Muscle Secretome Reveals a Role for Extracellular Vesicles and IL1 $\beta$ in Restricting Fibro/Adipogenic Progenitor Adipogenesis. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	3
5	Photocurable Biopolymers for Coaxial Bioprinting. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2147, 45-54	1.4	2
4	Skeletal Muscle Subpopulation Rearrangements upon Rhabdomyosarcoma Development through Single-Cell Mass Cytometry. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	2
3	Single-cell quantitative analysis of skeletal muscle cell population dynamics during regeneration and ageing		1
2	Aligned Cell-Laden Yarns: Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns (Adv. Healthcare Mater. 7/2019). <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, 1970025	10.1	0
1	Dystrophic Muscle Affects Motoneuron Axon Outgrowth and NMJ Assembly. <i>Advanced Materials Technologies</i> , 2101216	6.8	