

CITATION REPORT

List of articles citing

Engineering vascularized skeletal muscle tissue

DOI: 10.1038/nbt1109

Nature Biotechnology, 2005, 23, 879-84.

Source: <https://exaly.com/paper-pdf/38211352/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. 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.

#	Paper	IF	Citations
1097	Engineering vascularized tissue. <i>Nature Biotechnology</i> , 2005 , 23, 821-3	44.5	600
1096	Biocontrol genome deciphered. <i>Nature Biotechnology</i> , 2005 , 23, 823-4	44.5	6
1095	Making a muscle. 2005 , 2, 566-566		
1094	Engineering blood vessels from stem cells: recent advances and applications. 2005 , 16, 516-23		62
1093	Polymeric Scaffolds for Stem Cell Growth. 2005 , 58, 689		6
1092	Conversion of embryonic stem cells into pancreatic beta-cell surrogates guided by ontogeny. 2006 , 1, 327-36		8
1091	Regulating activation of transplanted cells controls tissue regeneration. 2006 , 103, 2494-9		160
1090	Design and preparation of polymeric scaffolds for tissue engineering. 2006 , 3, 835-51		175
1089	Vascularized organoid engineered by modular assembly enables blood perfusion. 2006 , 103, 11461-6		313
1088	Endothelial cells assemble into a 3-dimensional prevascular network in a bone tissue engineering construct. 2006 , 12, 2685-93		278
1087	Mesenchymal stem cells enhance angiogenesis in mechanically viable prevascularized tissues via early matrix metalloproteinase upregulation. 2006 , 12, 2875-88		186
1086	Fabrication of cultured oral gingiva by tissue engineering techniques without materials of animal origin. 2006 , 77, 672-7		24
1085	Bioengineered cardiac cell sheet grafts have intrinsic angiogenic potential. 2006 , 341, 573-82		177
1084	Muscle regeneration by adipose tissue-derived adult stem cells attached to injectable PLGA spheres. 2006 , 348, 386-92		63
1083	Advanced tools for tissue engineering: scaffolds, bioreactors, and signaling. 2006 , 12, 3285-305		223
1082	Myoblast therapy: from bench to bedside. 2006 , 15, 455-62		15
1081	Future of regenerative medicine: challenges and hurdles. 2006 , 30, 828-34		28

1080	Thinking outside the dish. 2006 , 3, 1035-1043	9
1079	Capturing complex 3D tissue physiology in vitro. 2006 , 7, 211-24	1768
1078	Bioluminescent imaging: emerging technology for non-invasive imaging of bone tissue engineering. 2006 , 27, 1851-8	36
1077	Outgrowth endothelial cells isolated and expanded from human peripheral blood progenitor cells as a potential source of autologous cells for endothelialization of silk fibroin biomaterials. 2006 , 27, 5399-408	114
1076	A new approach to tissue engineering of vascularized skeletal muscle. 2006 , 10, 716-26	97
1075	Myocardial regeneration strategies using human embryonic stem cell-derived cardiomyocytes. 2006 , 116, 211-8	23
1074	Bioengineered muscle constructs and tissue-based therapy for cardiac disease. 2006 , 21, 167-171	2
1073	Using a CoreSheath Distribution of Surface Chemistry through 3D Tissue Engineering Scaffolds to Control Cell Ingress. 2006 , 18, 1406-1410	85
1072	Engineering three-dimensional tissue structures using stem cells. 2006 , 420, 381-91	7
1071	Regenerative Medicine of Musculoskeletal Tissues. 2006 , 251-281	1
1070	Scaffolds for liver tissue engineering. 2006 , 3, 21-7	41
1069	Pulsatile myocardial tubes fabricated with cell sheet engineering. 2006 , 114, 187-93	101
1068	Heart muscle engineering: an update on cardiac muscle replacement therapy. 2006 , 71, 419-29	130
1067	Creation of engineered cardiac tissue in vitro from mouse embryonic stem cells. 2006 , 113, 2229-37	136
1066	Chapter 4 Challenges in Tissue Engineering. 2006 , 8, 423-462	2
1065	Principles of Regenerative Biology - Pages 325-369. 2007 , 325-369	
1064	Vascular progenitor cells isolated from human embryonic stem cells give rise to endothelial and smooth muscle like cells and form vascular networks in vivo. 2007 , 101, 286-94	204
1063	Effects of the mechanical properties of collagen gel on the in vitro formation of microvessel networks by endothelial cells. 2007 , 13, 1443-53	140

1062	Differentiation, survival, and function of embryonic stem cell derived endothelial cells for ischemic heart disease. 2007 , 116, 146-54	169
1061	Cell-based bone tissue engineering. 2007 , 4, e9	229
1060	Micro- and Nanofabricated Scaffolds. 2007 , 341-358	4
1059	Neurotization improves contractile forces of tissue-engineered skeletal muscle. 2007 , 13, 2813-21	56
1058	Mechanistic exploration of phthalimide neovascular factor 1 using network analysis tools. 2007 , 13, 2561-75	11
1057	Vascular tissue engineering and vascularized 3D tissue regeneration. 2007 , 2, 831-7	26
1056	An arteriovenous loop in a protected space generates a permanent, highly vascular, tissue-engineered construct. 2007 , 21, 511-22	146
1055	Transplantation of 3D scaffolds seeded with human embryonic stem cells: biological features of surrogate tissue and teratoma-forming potential. 2007 , 2, 289-300	60
1054	Microvessel-like structures from outgrowth endothelial cells from human peripheral blood in 2-dimensional and 3-dimensional co-cultures with osteoblastic lineage cells. 2007 , 13, 2577-88	136
1053	Cardiac tissue engineering in an in vivo vascularized chamber. 2007 , 115, 353-60	189
1052	Incorporation of Capillary-Like Structures into Dermal Cell Sheets Constructed by Magnetic Force-Based Tissue Engineering. 2007 , 40, 51-58	27
1051	Endothelial potential of human embryonic stem cells. 2007 , 110, 806-14	86
1050	In vivo vasculogenic potential of human blood-derived endothelial progenitor cells. 2007 , 109, 4761-8	410
1049	SIMPLE 3D VASCULARIZATION MODELS FOR PERFUSION BIOREACTORS. 2007 , 40, 175-180	
1048	Tissue Engineering. 2007 ,	4
1047	From scrawny to brawny: the quest for neomusculogenesis; smart surfaces and scaffolds for muscle tissue engineering. 2007 , 4, 709-28	9
1046	Current state of the art in myocardial tissue engineering. 2007 , 13, 1825-36	53
1045	Tissue engineering approaches for the development of a contractile cardiac patch. 2007 , 3, 425-34	8

1044	A parametric study of human fibroblasts culture in a microchannel bioreactor. 2007 , 7, 611-7	58
1043	Peptide-mediated selective adhesion of smooth muscle and endothelial cells in microfluidic shear flow. 2007 , 23, 5050-5	112
1042	Three-dimensional perfusion culture of human adipose tissue-derived endothelial and osteoblastic progenitors generates osteogenic constructs with intrinsic vascularization capacity. 2007 , 25, 1823-9	165
1041	The roles of hypoxia in the in vitro engineering of tissues. 2007 , 13, 2153-62	213
1040	TERMIS-EU Meeting Abstracts London, UK September 4 th , 2007. 2007 , 13, 1633-1778	1
1039	Embryonic Stem Cells as a Cell Source for Tissue Engineering. 2007 , 445-458	
1038	Breast Reconstruction. 2007 , 519-534	
1037	Cardiac-Tissue Engineering. 2007 , 551-567	4
1036	Building Blood Vessels. 1712-1724	
1035	Synthetic tissue biology: tissue engineering meets synthetic biology. 2007 , 81, 354-61	17
1034	Engineered blood and lymphatic capillaries in 3-D VEGF-fibrin-collagen matrices with interstitial flow. 2007 , 96, 167-76	107
1033	Cell patterning using magnetite nanoparticles and magnetic force. 2007 , 97, 1309-17	106
1032	Forced Soft Lithography (FSL): Production of Micro- and Nanostructures in Thin Freestanding Sheets of Chitosan Biopolymer. 2007 , 19, 3696-3701	11
1031	Tissue Engineering Based on Cell Sheet Technology. 2007 , 19, 3089-3099	312
1030	In vitro and in vivo differentiation of human umbilical cord derived stem cells into endothelial cells. 2007 , 100, 608-16	145
1029	The construction of 3D-engineered tissues composed of cells and extracellular matrices by hydrogel template approach. 2007 , 28, 2729-37	92
1028	Co-culture in cartilage tissue engineering. 2007 , 1, 170-8	111
1027	Ultra-rapid engineered collagen constructs tested in an in vivo nursery site. 2007 , 1, 192-8	44

1026	Influences of the recombinant artificial cell adhesive proteins on the behavior of human umbilical vein endothelial cells in serum-free culture. 2007 , 35, 247-57	6
1025	Embryonic stem cells for cardiac muscle engineering. 2007 , 17, 134-40	41
1024	Tissue engineering of vascularized cardiac muscle from human embryonic stem cells. 2007 , 100, 263-72	478
1023	Matrices and scaffolds for drug delivery in vascular tissue engineering. 2007 , 59, 360-73	73
1022	Micromechanical control of cell and tissue development: implications for tissue engineering. 2007 , 59, 1306-18	173
1021	Creation of myocardial tubes using cardiomyocyte sheets and an in vitro cell sheet-wrapping device. 2007 , 28, 3508-16	95
1020	Delivery of non-viral gene carriers from sphere-templated fibrin scaffolds for sustained transgene expression. 2007 , 28, 4705-16	91
1019	Growth, differentiation, transplantation and survival of human skeletal myofibers on biodegradable scaffolds. 2008 , 29, 75-84	73
1018	Endothelial cell colonization and angiogenic potential of combined nano- and micro-fibrous scaffolds for bone tissue engineering. 2008 , 29, 4306-13	154
1017	Spatially defined oxygen gradients and vascular endothelial growth factor expression in an engineered 3D cell model. 2008 , 65, 177-86	83
1016	[Regenerative medicine in head and neck reconstructive surgery]. 2008 , 56, 262-74	7
1015	Patterning Cell and Tissue Function. 2008 , 1, 15-23	20
1014	Biomaterials for bone tissue engineering. 2008 , 11, 18-25	801
1013	Biomaterials engineered for integration. 2008 , 11, 44-51	62
1012	Differentiation stage alters matrix control of stem cells. 2008 , 85, 145-56	76
1011	The response of human embryonic stem cell-derived endothelial cells to shear stress. 2008 , 100, 830-7	78
1010	Engineered microenvironments for human stem cells. 2008 , 84, 335-47	22
1009	Enhancement of In Vitro Capillary Tube Formation by Substrate Nanotopography. 2008 , 20, 99-103	151

1008	Advanced biomaterials for skeletal tissue regeneration: Instructive and smart functions. 2008 , 59, 38-71	174
1007	The effect of mesenchymal populations and vascular endothelial growth factor delivered from biodegradable polymer scaffolds on bone formation. 2008 , 29, 1892-900	122
1006	The influence of proepicardial cells on the osteogenic potential of marrow stromal cells in a three-dimensional tubular scaffold. 2008 , 29, 2203-16	26
1005	Cell based bone tissue engineering in jaw defects. 2008 , 29, 3053-61	158
1004	Comparison of reporter gene and iron particle labeling for tracking fate of human embryonic stem cells and differentiated endothelial cells in living subjects. 2008 , 26, 864-73	191
1003	Delivery of basic fibroblast growth factor from gelatin microsphere scaffold for the growth of human umbilical vein endothelial cells. 2008 , 14, 1939-47	44
1002	Controlled differentiation of stem cells. 2008 , 60, 199-214	261
1001	Spheroid-based engineering of a human vasculature in mice. 2008 , 5, 439-45	172
1000	Tissue engineering of functional skeletal muscle: challenges and recent advances. 2008 , 27, 109-13	59
999	Spatial and temporal patterns of bone formation in ectopically pre-fabricated, autologous cell-based engineered bone flaps in rabbits. 2008 , 12, 1238-49	26
998	Engineering tissue from human embryonic stem cells. 2008 , 12, 709-29	44
997	Use of a novel collagen matrix with oriented pore structure for muscle cell differentiation in cell culture and in grafts. 2008 , 12, 1640-8	117
996	Vascularization in tissue engineering. 2008 , 26, 434-41	890
995	The effect of matrix density on the regulation of 3-D capillary morphogenesis. 2008 , 94, 1930-41	204
994	Establishing a dynamic process for the formation, propagation, and differentiation of human embryoid bodies. 2008 , 17, 1227-41	80
993	Tissue Engineering. 2008 , 541-583	3
992	Bridging the regeneration gap: stem cells, biomaterials and clinical translation in bone tissue engineering. 2008 , 473, 124-31	142
991	Lymphoid tissue engineering: invoking lymphoid tissue neogenesis in immunotherapy and models of immunity. 2008 , 20, 137-46	35

990	Human embryonic stem cells for cardiomyogenesis. 2008 , 45, 462-74	43
989	Cell delivery mechanisms for tissue repair. 2008 , 2, 205-13	280
988	Tissue engineering by self-assembly of cells printed into topologically defined structures. 2008 , 14, 413-21	295
987	Three-dimensional cell culture matrices: state of the art. 2008 , 14, 61-86	790
986	Microfluidic depletion of endothelial cells, smooth muscle cells, and fibroblasts from heterogeneous suspensions. 2008 , 8, 462-72	61
985	Engineering the microcirculation. 2008 , 14, 87-103	117
984	Polymeric biomaterials in tissue engineering. 2008 , 63, 487-91	225
983	Porous Polycaprolactone/Polystyrene Semi-interpenetrating Polymer Networks Synthesized within High Internal Phase Emulsions. 2008 , 41, 1469-1474	70
982	Directed assembly of cell-laden microgels for fabrication of 3D tissue constructs. 2008 , 105, 9522-7	488
981	Integrating novel technologies to fabricate smart scaffolds. 2008 , 19, 543-72	168
980	The muscle stem cell niche: regulation of satellite cells during regeneration. 2008 , 14, 419-31	80
979	Endothelial cell-matrix interactions in neovascularization. 2008 , 14, 19-32	67
978	The influence of serum-free culture conditions on skeletal muscle differentiation in a tissue-engineered model. 2008 , 14, 161-71	42
977	Co-culture of primary neural progenitor and endothelial cells in a macroporous gel promotes stable vascular networks in vivo. 2008 , 19, 1469-85	19
976	Vascularization strategies in tissue engineering. 2008 , 761-780	
975	Engineering robust and functional vascular networks in vivo with human adult and cord blood-derived progenitor cells. 2008 , 103, 194-202	398
974	In vivo pulmonary tissue engineering: contribution of donor-derived endothelial cells to construct vascularization. 2008 , 14, 361-8	46
973	Stem cells and scaffolds for vascularizing engineered tissue constructs. 2009 , 114, 129-72	6

972	Small blood vessel engineering. 2007 , 140, 183-95	18
971	Genetic Approaches in Human Embryonic Stem Cells and Their Derivatives. 2008 , 190-209	
970	Endothelial stem cells and precursors for tissue engineering: cell source, differentiation, selection, and application. 2008 , 14, 133-47	81
969	In vivo commitment and functional tissue regeneration using human embryonic stem cell-derived mesenchymal cells. 2008 , 105, 20641-6	223
968	Tissue engineered bone grafts: biological requirements, tissue culture and clinical relevance. 2008 , 3, 254-64	234
967	Characterization of human myoblast cultures for tissue engineering. 2008 ,	2
966	Cell nutrition. 2008 , 327-362	5
965	Tissue engineering of bone. 2008 , 559-610	18
964	Tissue engineering [an introduction. 2008 , xii-xxxvi	7
963	Vascular Assembly in Engineered and Natural Tissues. 2008 , 1020-1037	2
962	Gene therapy in the management of erectile dysfunction (ED): past, present, and future. 2009 , 9, 846-54	11
961	Advances in myogenic cell transplantation and skeletal muscle tissue engineering. 2009 , 14, 3012-23	13
960	Engineering orthopedic tissue interfaces. 2009 , 15, 127-41	224
959	Prevascularization of cardiac patch on the omentum improves its therapeutic outcome. 2009 , 106, 14990-5	282
958	Transport-mediated angiogenesis in 3D epithelial coculture. 2009 , 23, 2155-64	158
957	Essential environmental cues from the satellite cell niche: optimizing proliferation and differentiation. 2009 , 296, C1338-45	103
956	Physiological function and transplantation of scaffold-free and vascularized human cardiac muscle tissue. 2009 , 106, 16568-73	349
955	Vascularization--the conduit to viable engineered tissues. 2009 , 15, 159-69	242

954	In vitro 3D model for human vascularized adipose tissue. 2009 , 15, 2227-36	107
953	Effect of scaffold stiffness on myoblast differentiation. 2009 , 15, 935-44	99
952	Influence of endothelial progenitor cells and platelet gel on tissue-engineered bone ectopically in goats. 2009 , 15, 3669-77	30
951	Fate of endothelialized modular constructs implanted in an omental pouch in nude rats. 2009 , 15, 2875-87	15
950	Effect of VEGF on the regenerative capacity of muscle stem cells in dystrophic skeletal muscle. 2009 , 17, 1788-98	132
949	Reclaiming a natural beauty: whole-organ engineering with natural extracellular materials. 2009 , 4, 747-58	17
948	In vivo engineering of a human vasculature for bone tissue engineering applications. 2009 , 13, 3380-6	58
947	Endothelial differentiation of Wharton's jelly-derived mesenchymal stem cells in comparison with bone marrow-derived mesenchymal stem cells. 2009 , 37, 629-40	219
946	Preparation of artificial skeletal muscle tissues by a magnetic force-based tissue engineering technique. 2009 , 108, 538-43	66
945	Tissue engineering using laminar cellular assemblies. 2009 , 21, 3404-9	41
944	Microfabricated poly(ethylene glycol) templates enable rapid screening of triculture conditions for cardiac tissue engineering. 2009 , 89, 616-31	77
943	In vitro cell infiltration and in vivo cell infiltration and vascularization in a fibrous, highly porous poly(D,L-lactide) scaffold fabricated by cryogenic electrospinning technique. 2009 , 91, 231-40	148
942	Modeling the adhesion of human embryonic stem cells to poly(lactic-co-glycolic acid) surfaces in a 3D environment. 2010 , 92, 683-92	9
941	VEGF-E enhances endothelialization and inhibits thrombus formation on polymeric surfaces. 2010 , 93, 77-85	8
940	Alignment of skeletal muscle myoblasts and myotubes using linear micropatterned surfaces ground with abrasives. 2009 , 103, 631-8	80
939	Vascular engineering using human embryonic stem cells. 2009 , 25, 2-9	44
938	Contribution of outgrowth endothelial cells from human peripheral blood on in vivo vascularization of bone tissue engineered constructs based on starch polycaprolactone scaffolds. 2009 , 30, 526-34	164
937	Dynamic processes involved in the pre-vascularization of silk fibroin constructs for bone regeneration using outgrowth endothelial cells. 2009 , 30, 1329-38	133

936	Computational design of drainage systems for vascularized scaffolds. 2009 , 30, 4435-43	22
935	Fabrication of complex three-dimensional tissue architectures using a magnetic force-based cell patterning technique. 2009 , 11, 713-21	45
934	A microperfused incubator for tissue mimetic 3D cultures. 2009 , 11, 1155-65	35
933	3D microfabricated bioreactor with capillaries. 2009 , 11, 1309-15	28
932	Bone marrow derived pluripotent cells are pericytes which contribute to vascularization. 2009 , 5, 437-45	56
931	Cardiac tissue engineering: implications for pediatric heart surgery. 2009 , 30, 716-23	58
930	Spatiotemporal tracking of cells in tissue-engineered cardiac organoids. 2009 , 3, 196-207	30
929	Current opportunities and challenges in skeletal muscle tissue engineering. 2009 , 3, 407-15	129
928	Impaired in vivo vasculogenic potential of endothelial progenitor cells in comparison to human umbilical vein endothelial cells in a spheroid-based implantation model. 2009 , 42, 498-505	39
927	The promotion of the vascularization of decalcified bone matrix in vivo by rabbit bone marrow mononuclear cell-derived endothelial cells. 2009 , 30, 3560-6	19
926	Tissue assembly and organization: developmental mechanisms in microfabricated tissues. 2009 , 30, 4851-8	107
925	Human microvasculature fabrication using thermal inkjet printing technology. 2009 , 30, 6221-7	518
924	Oxygen generating scaffolds for enhancing engineered tissue survival. 2009 , 30, 757-62	206
923	Scaffold-free vascular tissue engineering using bioprinting. 2009 , 30, 5910-7	996
922	Biomimetic approach to tissue engineering. 2009 , 20, 665-73	114
921	Update on therapeutic vascularization strategies. 2009 , 4, 65-80	108
920	Supply of nutrients to cells in engineered tissues. 2010 , 26, 163-78	98
919	A conversation with Robert Langer: pioneering biomedical scientist and engineer. Interview by Paul S. Weiss. 2009 , 3, 756-61	4

918	A home away from home: challenges and opportunities in engineering in vitro muscle satellite cell niches. 2009 , 78, 185-94	98
917	Pharmacologically induced angiogenesis in transgenic zebrafish. 2009 , 378, 766-71	48
916	Preview. Mending the failing heart with a vascularized cardiac patch. 2009 , 5, 575-6	12
915	Mathematical modelling of tissue-engineered angiogenesis. 2009 , 221, 101-20	28
914	Electrospinning thermoplastic polyurethane-contained collagen nanofibers for tissue-engineering applications. 2009 , 20, 1513-36	36
913	Growth factors, matrices, and forces combine and control stem cells. 2009 , 324, 1673-7	2065
912	A 3D hybrid model for tissue growth: the interplay between cell population and mass transport dynamics. 2009 , 97, 401-14	35
911	Prevascularization of a fibrin-based tissue construct accelerates the formation of functional anastomosis with host vasculature. 2009 , 15, 1363-71	238
910	The use of endothelial progenitor cells for prevascularized bone tissue engineering. 2009 , 15, 2015-27	98
909	Vascularization strategies for tissue engineering. 2009 , 15, 353-70	642
908	Inosculation: connecting the life-sustaining pipelines. 2009 , 15, 455-65	113
907	Induced endothelial cells enhance osteogenesis and vascularization of mesenchymal stem cells. 2009 , 190, 185-93	25
906	Biology of Stem Cells and the Molecular Basis of the Stem State. 2009 ,	15
905	Development and progress of engineering of skeletal muscle tissue. 2009 , 15, 319-31	71
904	Angiogenic capacity of human adipose-derived stromal cells during adipogenic differentiation: an in vitro study. 2009 , 15, 445-52	39
903	In vivo engineering of tissues: Biological considerations, challenges, strategies, and future directions. 2009 , 21, 3246-54	45
902	Applications and Degradation of Proteins Used as Tissue Engineering Materials. 2009 , 2, 613-635	37
901	Improving biomaterials in tendon and muscle regeneration. 2009 , 237-251	

900	The basic science of vascular biology: implications for the practicing surgeon. 2010 , 126, 1528-1538	36
899	Strategies for Vascularization of Polymer Scaffolds. 2010 , 58, 838-844	31
898	Prevascular structures promote vascularization in engineered human adipose tissue constructs upon implantation. 2010 , 19, 1007-20	58
897	Tissue engineering in plastic surgery: a review. 2010 , 126, 858-868	25
896	Biomaterial Applications in the Adult Skeletal Muscle Satellite Cell Niche: Deliberate Control of Muscle Stem Cells and Muscle Regeneration in the Aged Niche. 2010 , 275-308	1
895	HYBRID BIOMATERIALS FOR ENGINEERING VASCULAR TISSUES. 2010 , 373-387	1
894	Gene therapy used for tissue engineering applications. 2007 , 59, 329-50	39
893	Polymer Scaffolds for Biomaterials Applications. 2010 , 43, 581-591	372
892	Effects of the architecture of tissue engineering scaffolds on cell seeding and culturing. 2010 , 6, 4208-17	275
891	Quantitative analysis of cell tracing by in vivo imaging system. 2010 , 30, 541-5	3
890	Facile control of porous structures of polymer microspheres using an osmotic agent for pulmonary delivery. 2010 , 146, 61-7	92
889	Controlling physiological angiogenesis by hypoxia-induced signaling. 2010 , 146, 309-17	21
888	Engineered heart tissue graft derived from somatic cell nuclear transferred embryonic stem cells improve myocardial performance in infarcted rat heart. 2010 , 14, 2771-9	11
887	Engineering skeletal muscle tissue--new perspectives in vitro and in vivo. 2010 , 14, 2622-9	65
886	Modeling of flow-induced shear stress applied on 3D cellular scaffolds: Implications for vascular tissue engineering. 2010 , 105, 645-54	55
885	Influence of substrate stiffness on the phenotype of heart cells. 2010 , 105, 1148-60	252
884	Adipose tissue-derived progenitors for engineering osteogenic and vasculogenic grafts. 2010 , 225, 348-53	66
883	Investigation of medium perfusion through scaffold-free tissue constructs using endothelial cell-covered spheroids in vitro. 2010 , 50, 116-121	8

882	Effects of a combined mechanical stimulation protocol: Value for skeletal muscle tissue engineering. 2010 , 43, 1514-21	68
881	Biomimetic hydrogels with pro-angiogenic properties. 2010 , 31, 3840-7	286
880	Dense type I collagen matrices that support cellular remodeling and microfabrication for studies of tumor angiogenesis and vasculogenesis in vitro. 2010 , 31, 8596-607	243
879	Influence of polymer content in Ca-deficient hydroxyapatite-polycaprolactone nanocomposites on the formation of microvessel-like structures. 2010 , 6, 3169-77	23
878	Vascular differentiation of bone marrow stem cells is directed by a tunable three-dimensional matrix. 2010 , 6, 3395-403	71
877	The effect of the delivery of vascular endothelial growth factor and bone morphogenic protein-2 to osteoprogenitor cell populations on bone formation. 2010 , 31, 1242-50	186
876	Genetically engineered angiogenic cell sheets using magnetic force-based gene delivery and tissue fabrication techniques. 2010 , 31, 1251-9	84
875	Design of prevascularized three-dimensional cell-dense tissues using a cell sheet stacking manipulation technology. 2010 , 31, 1646-54	257
874	Engineering of capillary-like structures in tissue constructs by electrochemical detachment of cells. 2010 , 31, 2209-15	58
873	Pre-vascularization of in vitro three-dimensional tissues created by cell sheet engineering. 2010 , 31, 3903-9	194
872	Preparation and characterization of coaxial electrospun thermoplastic polyurethane/collagen compound nanofibers for tissue engineering applications. 2010 , 79, 315-25	147
871	Isolation, differentiation and characterization of vascular cells derived from human embryonic stem cells. 2010 , 5, 1115-26	78
870	Vascularization shaping the heart. 2010 , 1188, 46-51	23
869	Strategies in cardiac tissue engineering. 2010 , 80, 683-93	28
868	Tissue Equivalents Based on Cell-Seeded Biodegradable Microfluidic Constructs. 2010 , 3, 1833-1844	12
867	Intramyocardial fibroblast myocyte communication. 2010 , 106, 47-57	251
866	Tissue-engineered vascular adventitia with vasa vasorum improves graft integration and vascularization through inosculation. 2010 , 16, 2617-26	37
865	The correlation between the internal structure and vascularization of controllable porous bioceramic materials in vivo: a quantitative study. 2010 , 16, 3791-803	120

864	3-dimensional structures to enhance cell therapy and engineer contractile tissue. 2010 , 18, 188-98	23
863	Engineered vascularized bone grafts. 2010 , 107, 3311-6	187
862	Rapid anastomosis of endothelial progenitor cell-derived vessels with host vasculature is promoted by a high density of cotransplanted fibroblasts. 2010 , 16, 585-94	160
861	Transplantation of a tissue-engineered human vascularized cardiac muscle. 2010 , 16, 115-25	197
860	Complex temporal regulation of capillary morphogenesis by fibroblasts. 2010 , 299, C444-53	41
859	Implanted myoblast survival is dependent on the degree of vascularization in a novel delayed implantation/prevascularization tissue engineering model. 2010 , 16, 165-78	37
858	Regenerative Medicine. 2010 , 58, 849-858	23
857	[Skeletal muscle tissue engineering--current concepts and future perspectives]. 2010 , 42, 354-9	6
856	Biomaterials and mesenchymal stem cells for regenerative medicine. 2010 , 4, 1-22	73
855	Adult human bone marrow- and adipose tissue-derived stromal cells support the formation of prevascular-like structures from endothelial cells in vitro. 2010 , 16, 101-14	90
854	The role of endothelial progenitor cells in prevascularized bone tissue engineering: development of heterogeneous constructs. 2010 , 16, 2355-67	80
853	In vitro and in vivo bioluminescent imaging of hypoxia in tissue-engineered grafts. 2010 , 16, 479-85	16
852	Sonic hedgehog promotes angiogenesis and osteogenesis in a coculture system consisting of primary osteoblasts and outgrowth endothelial cells. 2010 , 16, 1235-7	54
851	Cranial bone defects: current and future strategies. 2010 , 29, E8	138
850	Liver tissue engineering: promises and prospects of new technology. 2010 , 12, 349-60	10
849	Biomaterials as Stem Cell Niche: Cardiovascular Stem Cells. 2010 , 173-193	
848	Creating Unique Cell Microenvironments for the Engineering of a Functional Cardiac Patch. 2010 , 81-94	
847	Outgrowth endothelial cells: sources, characteristics and potential applications in tissue engineering and regenerative medicine. 2010 , 123, 201-17	19

846	Designing Nanofibrous Scaffolds for Tissue Engineering. 2010 , 435-497	4
845	Recent trends and challenges in complex organ manufacturing. 2010 , 16, 189-97	85
844	Functional muscle regeneration with combined delivery of angiogenesis and myogenesis factors. 2010 , 107, 3287-92	321
843	Scaffold vascularization: a challenge for three-dimensional tissue engineering. 2010 , 17, 3944-67	92
842	Geometrically controlled endothelial tubulogenesis in micropatterned gels. 2010 , 16, 2255-63	127
841	Development of thick and highly cell-incorporated engineered tissues by hydrogel template approach with basic fibroblast growth factor or ascorbic acid. 2010 , 21, 415-28	2
840	Tissue engineering by self-assembly and bio-printing of living cells. 2010 , 2, 022001	434
839	Possibilities for an in vitro meat production system. 2010 , 11, 13-22	133
838	Dynamics of bone marrow-derived endothelial progenitor cell/mesenchymal stem cell interaction in co-culture and its implications in angiogenesis. 2010 , 400, 284-91	145
837	Meet the new meat: tissue engineered skeletal muscle. 2010 , 21, 59-66	68
836	Umbilical cord-derived mesenchymal stem cells isolated by a novel explantation technique can differentiate into functional endothelial cells and promote revascularization. 2010 , 19, 1511-22	40
835	Engineering blood vessels using stem cells: innovative approaches to treat vascular disorders. 2010 , 8, 1433-45	27
834	Regeneration of the articular surface of the rabbit synovial joint by cell homing: a proof of concept study. 2010 , 376, 440-8	481
833	The Future? Craniofacial Skeletal Muscle Engineering as an Aid for the Management of Craniofacial Deformities. 2010 , 16, 153-162	3
832	Xenogenic extracellular matrix as an inductive scaffold for regeneration of a functioning musculotendinous junction. 2010 , 16, 3309-17	150
831	Human endothelial stem/progenitor cells, angiogenic factors and vascular repair. 2010 , 7 Suppl 6, S731-51	49
830	Cell and Organ Printing. 2010 ,	8
829	Principles of biomimetic vascular network design applied to a tissue-engineered liver scaffold. 2010 , 16, 1469-77	35

828	Biomaterials as Stem Cell Niche. 2010,	1
827	Bioreactor Systems for Tissue Engineering II. 2010,	1
826	Soft substrates drive optimal differentiation of human healthy and dystrophic myotubes. 2010, 2, 193-201	52
825	The therapeutic potential of engineered human neovessels for cell-based gene therapy. 2011, 11, 67-76	5
824	A tissue-engineered muscle repair construct for functional restoration of an irrecoverable muscle injury in a murine model. 2011, 17, 2291-303	127
823	Growth of engineered human myocardium with mechanical loading and vascular coculture. 2011, 109, 47-59	512
822	An agent-based model for the investigation of neovascularization within porous scaffolds. 2011, 17, 2133-41	78
821	Characterization and modulation of fibroblast/endothelial cell co-cultures for the in vitro preformation of three-dimensional tubular networks. 2011, 35, 1097-110	34
820	Design of nano- and microfiber combined scaffolds by electrospinning of collagen onto starch-based fiber meshes: a man-made equivalent of natural extracellular matrix. 2011, 17, 463-73	51
819	Hypoxia promotes proliferation of human myogenic satellite cells: a potential benefactor in tissue engineering of skeletal muscle. 2011, 17, 1747-58	36
818	Tissue engineering using magnetite nanoparticles. 2011, 104, 355-95	52
817	Organ Printing. 2011, 587-606	5
816	Tissue Engineering. 2011, 175-211	3
815	Tissue Engineering in Regenerative Medicine. 2011,	5
814	Regenerating the Heart. 2011,	1
813	Mechanoregulation of vascularization in aligned tissue-engineered muscle: a role for vascular endothelial growth factor. 2011, 17, 2857-65	46
812	Biophysical Regulation of Vascular Differentiation and Assembly. 2011,	
811	The dynamic glycome microenvironment and stem cell differentiation into vasculature. 2011, 20, 749-58	8

810	Myocardial Tissue Engineering. 2011,	2
809	Tissue Engineering of Muscle Tissue. 2011, 345-359	4
808	In vivo and in vitro tracking of erosion in biodegradable materials using non-invasive fluorescence imaging. 2011, 10, 704-9	286
807	Genetic Approaches in Human Embryonic Stem Cells and their Derivatives: Prospects for Regenerative Medicine. 2011, 179-198	
806	Three-dimensional biomaterials for the study of human pluripotent stem cells. 2011, 8, 731-6	187
805	Materials for engineering vascularized adipose tissue. 2011, 20, 37-48	23
804	Human embryonic stem cell-derived vascular smooth muscle cells in therapeutic neovascularisation. 2011, 51, 651-64	42
803	Assessing the permeability of engineered capillary networks in a 3D culture. 2011, 6, e22086	49
802	Engineering 3D cell instructive microenvironments by rational assembly of artificial extracellular matrices and cell patterning. 2011, 3, 1102-11	47
801	Vascularization of three-dimensional collagen hydrogels using ultrasound standing wave fields. 2011, 37, 1853-64	37
800	Advances in cell transplantation therapy for diseased myocardium. 2011, 2011, 679171	3
799	Mesenchymal Stem Cells in Combination with Scaffolds for Bone Tissue Engineering. 2011, 4, 1793-1804	15
798	Cell-Based Therapies and Tissue Engineering in Heart Failure. 2011, 742-752	
797	Tissue Engineering of Skeletal Muscle. 2011,	1
796	Controlled activation of morphogenesis to generate a functional human microvasculature in a synthetic matrix. 2011, 118, 804-15	145
795	Engineered blood vessel networks connect to host vasculature via wrapping-and-tapping anastomosis. 2011, 118, 4740-9	101
794	First implantable device for hypoxia-mediated angiogenic induction. 2011, 153, 217-24	22
793	Regenerative medicine. 2011, 48, 148-212	29

792	Engineering vessel-like networks within multicellular fibrin-based constructs. 2011 , 32, 7856-69	159
791	The creation of an in vitro adipose tissue that contains a vascular-adipocyte complex. 2011 , 32, 9667-76	30
790	Tissue Engineering of Blood Vessels: How to Make a Graft. 2011 , 395-430	
789	Human endothelial colony forming cells undergo vasculogenesis within biphasic calcium phosphate bone tissue engineering constructs. 2011 , 7, 4222-8	22
788	Strategies for tissue engineering cardiac constructs to affect functional repair following myocardial infarction. 2011 , 4, 575-91	45
787	Prospectus of cultured meat—advancing meat alternatives. 2011 , 48, 125-140	85
786	Application of microtechnologies for the vascularization of engineered tissues. 2011 , 3, 24	11
785	Interaction between electrical stimulation, protein coating and matrix elasticity: a complex effect on muscle fibre maturation. 2011 , 5, 60-8	16
784	Characterization of electrospun poly(L-lactide) and gold nanoparticle composite scaffolds for skeletal muscle tissue engineering. 2011 , 5, 560-8	86
783	Reconstructing the differentiation niche of embryonic stem cells using biomaterials. 2011 , 11, 36-49	58
782	Biomimetic Materials for Bone Tissue Engineering [State of the Art and Future Trends. 2011 , 13, B135-B150	45
781	Rapid construction of three-dimensional multilayered tissues with endothelial tube networks by the cell-accumulation technique. 2011 , 23, 3506-10	203
780	The use of whole organ decellularization for the generation of a vascularized liver organoid. 2011 , 53, 604-17	480
779	Individual-based modelling of angiogenesis inside three-dimensional porous biomaterials. 2011 , 103, 372-83	10
778	Culture media for the differentiation of mesenchymal stromal cells. 2011 , 7, 463-77	189
777	Endothelial cells guided by immobilized gradients of vascular endothelial growth factor on porous collagen scaffolds. 2011 , 7, 3027-35	67
776	Engineering of large osteogenic grafts with rapid engraftment capacity using mesenchymal and endothelial progenitors from human adipose tissue. 2011 , 32, 5801-9	83
775	Efficacy of engineered FVIII-producing skeletal muscle enhanced by growth factor-releasing co-axial electrospun fibers. 2011 , 32, 1669-77	54

774	Homing of endogenous stem/progenitor cells for in situ tissue regeneration: Promises, strategies, and translational perspectives. 2011 , 32, 3189-209	275
773	Hypoxia-inducible vascular endothelial growth factor-engineered mesenchymal stem cells prevent myocardial ischemic injury. 2011 , 19, 741-50	71
772	Microfluidic devices for studying heterotypic cell-cell interactions and tissue specimen cultures under controlled microenvironments. 2011 , 5, 13406	108
771	Biphasic electrical field stimulation aids in tissue engineering of multicell-type cardiac organoids. 2011 , 17, 1465-77	76
770	Perfusion systems that minimize vascular volume fraction in engineered tissues. 2011 , 5, 22201	12
769	Aqueous biphasic microprinting approach to tissue engineering. 2011 , 5, 13404	18
768	Developing vasculature and stroma in engineered human myocardium. 2011 , 17, 1219-28	54
767	Functional neovascularization in tissue engineering with porcine acellular dermal matrix and human umbilical vein endothelial cells. 2011 , 17, 423-33	41
766	Uniaxial cyclic strain drives assembly and differentiation of skeletal myocytes. 2011 , 17, 2543-50	41
765	Enhanced neovascular formation in a novel hydrogel matrix consisting of citric Acid and collagen. 2011 , 4, 196-203	1
764	Cardiac Tissue. 2011 , 877-909	
763	The Digit. 2011 , 1091-1103	
762	Craniofacial reconstruction using allotransplantation and tissue engineering: challenges, opportunities, and potential synergy. 2011 , 67, 655-61	22
761	Improved vascular organization enhances functional integration of engineered skeletal muscle grafts. 2011 , 108, 14789-94	149
760	Accelerating vascularization in polycaprolactone scaffolds by endothelial progenitor cells. 2011 , 17, 1819-30	45
759	Chimeric vessel tissue engineering driven by endothelialized modules in immunosuppressed Sprague-Dawley rats. 2011 , 17, 151-60	27
758	Stochastic modeling and identification of emergent behaviors of an Endothelial Cell population in angiogenic pattern formation. 2011 , 30, 659-677	15
757	Tissue-Engineering Hollow Noncardiac Intrathoracic Organs: State-of-the-Art 2010. 2011 , 509-527	1

756	Airway tissue engineering. 2011 , 11, 1623-35	36
755	A new approach of in vivo musculoskeletal tissue engineering using the epigastric artery as central core vessel of a 3-dimensional construct. 2012 , 2012, 510852	1
754	ADDITION OF CONDUCTIVE ELEMENTS TO POLYMERIC SCAFFOLDS FOR MUSCLE TISSUE ENGINEERING. 2012 , 02, 1230011	4
753	Concise review: stem cell therapy for muscular dystrophies. 2012 , 1, 833-42	24
752	Sonic Hedgehog-activated engineered blood vessels enhance bone tissue formation. 2012 , 109, 4413-8	50
751	Perfusable branching microvessel bed for vascularization of engineered tissues. 2012 , 109, E3414-23	135
750	Multipotent vasculogenic pericytes from human pluripotent stem cells promote recovery of murine ischemic limb. 2012 , 125, 87-99	173
749	Smooth muscle and other cell sources for human blood vessel engineering. 2012 , 195, 15-25	26
748	Stem cell-derived vascular endothelial cells and their potential application in regenerative medicine. 2012 , 195, 41-7	18
747	Facile synthesis of radial-like macroporous superparamagnetic chitosan spheres with in-situ co-precipitation and gelation of ferro-gels. 2012 , 7, e49329	19
746	Biofabrication enables efficient interrogation and optimization of sequential culture of endothelial cells, fibroblasts and cardiomyocytes for formation of vascular cords in cardiac tissue engineering. 2012 , 4, 035002	27
745	Thermal inkjet printing in tissue engineering and regenerative medicine. 2012 , 6, 149-55	347
744	Combined mesenchymal stem cell sheets and rhBMP-2-releasing calcium sulfate-rhBMP-2 scaffolds for segmental bone tissue engineering. 2012 , 21, 693-705	20
743	Comparing scaffold-free and fibrin-based adipose-derived stromal cell constructs for adipose tissue engineering: an in vitro and in vivo study. 2012 , 21, 2283-97	19
742	Bone tissue engineering: recent advances and challenges. 2012 , 40, 363-408	1340
741	In vitro microvessels for the study of angiogenesis and thrombosis. 2012 , 109, 9342-7	657
740	Building vascular networks. 2012 , 4, 160ps23	175
739	Bioactive polymer scaffold for fabrication of vascularized engineering tissue. 2012 , 15, 215-24	26

738	Tissue engineering in the development of replacement technologies. 2012 , 745, 47-57	2
737	Effect of adipose tissue-derived osteogenic and endothelial cells on bone allograft osteogenesis and vascularization in critical-sized calvarial defects. 2012 , 18, 1552-61	43
736	Additive manufacturing of tissues and organs. 2012 , 37, 1079-1104	841
735	Instructive nanofiber scaffolds with VEGF create a microenvironment for arteriogenesis and cardiac repair. 2012 , 4, 146ra109	115
734	Comparison of different fabrication techniques for human adipose tissue engineering in severe combined immunodeficient mice. 2012 , 36, 227-37	24
733	Bio-hybrid muscle cell-based actuators. 2012 , 14, 987-98	72
732	Longitudinal in vivo imaging to assess blood flow and oxygenation in implantable engineered tissues. 2012 , 18, 697-709	40
731	Construction of vascularized cardiac tissue from genetically modified mouse embryonic stem cells. 2012 , 31, 204-12	11
730	Enhancement of tibial regeneration in a rat model by adipose-derived stromal cells in a PLGA scaffold. 2012 , 51, 313-23	24
729	Bone tissue engineering: current strategies and techniques--part II: Cell types. 2012 , 18, 258-69	67
728	Microvascular repair: post-angiogenesis vascular dynamics. 2012 , 19, 676-95	34
727	A silk-based scaffold platform with tunable architecture for engineering critically-sized tissue constructs. 2012 , 33, 9214-24	101
726	Prefabrication of vascularized bone grafts using a combination of bone marrow mesenchymal stem cells and vascular bundles with β -tricalcium phosphate ceramics. 2012 , 114, S153-9	5
725	Engineering muscle tissues on microstructured polyelectrolyte multilayer films. 2012 , 18, 1664-76	34
724	Muscle repair and regeneration: stem cells, scaffolds, and the contributions of skeletal muscle to amphibian limb regeneration. 2013 , 367, 133-59	16
723	VEGF improves skeletal muscle regeneration after acute trauma and reconstruction of the limb in a rabbit model. 2012 , 470, 3607-14	35
722	Regenerative Therapies for Musculoskeletal Tissues. 2012 , 355-392	3
721	Engineering dextran-based scaffolds for drug delivery and tissue repair. 2012 , 7, 1771-84	105

720	Isolation and maintenance-free culture of contractile myotubes from <i>Manduca sexta</i> embryos. 2012 , 7, e31598	22
719	Vascularization in the Bone Repair. 2012 ,	5
718	Microvascular guidance: a challenge to support the development of vascularised tissue engineering construct. 2012 , 2012, 201352	19
717	Oxygen diffusion through collagen scaffolds at defined densities: implications for cell survival in tissue models. 2012 , 6, 77-84	61
716	Biomimetic poly(ethylene glycol)-based hydrogels as scaffolds for inducing endothelial adhesion and capillary-like network formation. 2012 , 13, 706-13	34
715	Three-dimensional vascularization of electrospun PCL/collagen-blend nanofibrous scaffolds in vivo. 2012 , 100, 2302-11	16
714	Functional Human Vascular Network Generated in Photocrosslinkable Gelatin Methacrylate Hydrogels. 2012 , 22, 2027-2039	484
713	Regeneration of skeletal muscle. 2012 , 347, 759-74	180
712	Musculoskeletal tissue engineering by endogenous stem/progenitor cells. 2012 , 347, 665-76	24
711	Intestinal tissue engineering: current concepts and future vision of regenerative medicine in the gut. 2012 , 24, 7-19	39
710	The promotion of in vitro vessel-like organization of endothelial cells in magnetically responsive alginate scaffolds. 2012 , 33, 4100-9	92
709	Prospects for translational regenerative medicine. 2012 , 30, 658-72	61
708	A critical evaluation of in vitro cell culture models for high-throughput drug screening and toxicity. 2012 , 134, 82-106	265
707	Microporous polymeric microsphere via surfactant-free Suzuki coupling polymerization in a single-phase: Porosity and gas uptake. 2012 , 53, 2032-2037	16
706	Alginate: properties and biomedical applications. 2012 , 37, 106-126	4151
705	Polymers used to influence cell fate in 3D geometry: New trends. 2012 , 37, 645-658	55
704	Microdrop printing of hydrogel bioinks into 3D tissue-like geometries. 2012 , 24, 391-6	197
703	Esophageal tissue engineering: an in-depth review on scaffold design. 2012 , 109, 1-15	46

702	TGF- β enhances contractility in engineered skeletal muscle. 2013 , 7, 562-71	29
701	Model microgravity enhances endothelium differentiation of mesenchymal stem cells. 2013 , 100, 125-33	37
700	Biomaterials and biotechnology: from the discovery of the first angiogenesis inhibitors to the development of controlled drug delivery systems and the foundation of tissue engineering. 2013 , 101, 2449-55	15
699	Direct plotting of three-dimensional hollow fiber scaffolds based on concentrated alginate pastes for tissue engineering. 2013 , 2, 777-83	104
698	Regeneration. Preface. 2013 , 367, v-vii	4
697	Mechanical and Chemical Signaling in Angiogenesis. 2013 ,	1
696	Skeletal muscle tissue engineering: which cell to use?. 2013 , 19, 503-15	52
695	In vitro engineering of vascularized tissue surrogates. 2013 , 3, 1316	223
694	Formation of microvascular networks in vitro. 2013 , 8, 1820-36	149
693	Endothelialization approaches for viable engineered tissues. 2013 , 16, 1-14	88
692	Micromechanical Design Criteria for Tissue Engineering Biomaterials. 2013 , 1165-1178	1
691	Microvascular endothelial cell spreading and proliferation on nanofibrous scaffolds by polymer blends with enhanced wettability. 2013 , 9, 5529	32
690	Patterned prevascularised tissue constructs by assembly of polyelectrolyte hydrogel fibres. 2013 , 4, 2353	99
689	The use of anisotropic cell sheets to control orientation during the self-organization of 3D muscle tissue. 2013 , 34, 7372-80	97
688	Materials science and tissue engineering: repairing the heart. 2013 , 88, 884-98	85
687	Update on vascularization in tissue engineering. 2013 , 8, 759-70	24
686	SLIT3-ROBO4 activation promotes vascular network formation in human engineered tissue and angiogenesis in vivo. 2013 , 64, 124-31	42
685	Induction of Angiogenesis and Vasculogenesis in Cell-Embedded Biomaterials. 2013 , 53, n/a-n/a	

684	Mesenchymal stem cell response to TGF- β in both 2D and 3D environments. 2013 , 1, 860-869	16
683	Nanomaterials for cardiac tissue engineering. 2013 , 244-275	4
682	Vascular tissue engineering: biodegradable scaffold platforms to promote angiogenesis. 2013 , 4, 8	55
681	Preservation of Capillary-beds in Rat Lung Tissue Using Optimized Chemical Decellularization. 2013 , 1, 4801-4808	19
680	Characteristics of stem cells. 2013 , 1-32	
679	Upcyte \square microvascular endothelial cells repopulate decellularized scaffold. 2013 , 19, 57-67	18
678	A mathematical model predicting the coculture dynamics of endothelial and mesenchymal stem cells for tissue regeneration. 2013 , 19, 1155-64	3
677	The effect of in vitro formation of acetylcholine receptor (AChR) clusters in engineered muscle fibers on subsequent innervation of constructs in vivo. 2013 , 34, 3246-55	41
676	Thinking inside the box: keeping tissue-engineered constructs in vitro for use as preclinical models. 2013 , 19, 14-30	42
675	Biomaterials and stem cells for tissue engineering. 2013 , 13, 527-40	34
674	Three-dimensional spheroids of adipose-derived mesenchymal stem cells are potent initiators of blood vessel formation in porous polyurethane scaffolds. 2013 , 9, 6876-84	78
673	Nonsteady state oxygen transport in engineered tissue: implications for design. 2013 , 19, 1433-42	32
672	Spheroid culture as a tool for creating 3D complex tissues. 2013 , 31, 108-15	639
671	Materiomics: an -omics approach to biomaterials research. 2013 , 25, 802-24	90
670	Engineering a 3D vascular network in hydrogel for mimicking a nephron. 2013 , 13, 1612-8	77
669	Genetic Approaches in Human Embryonic Stem Cells and their Derivatives. 2013 , 311-325	1
668	Human adipose tissue-derived SSEA-4 subpopulation multi-differentiation potential towards the endothelial and osteogenic lineages. 2013 , 19, 235-46	36
667	Platelet-derived growth factor and spatiotemporal cues induce development of vascularized bone tissue by adipose-derived stem cells. 2013 , 19, 2076-86	46

666	Biomaterials for Cell-Based Therapeutic Angiogenesis. 2013 , 247-259	
665	Adipose-derived stem cells promote angiogenesis and tissue formation for in vivo tissue engineering. 2013 , 19, 1327-35	78
664	Three-dimensional tissue cultures: current trends and beyond. 2013 , 352, 123-31	125
663	Vascularization in 3D tissue using cell sheet technology. 2013 , 8, 371-7	22
662	Use of culture geometry to control hypoxia-induced vascular endothelial growth factor secretion from adipose-derived stem cells: optimizing a cell-based approach to drive vascular growth. 2013 , 19, 2330-8	38
661	InVERT molding for scalable control of tissue microarchitecture. 2013 , 4, 1847	100
660	A review of mathematical models for the formation of vascular networks. 2013 , 333, 174-209	104
659	Cell and Gene Transfer Strategies for Vascularization During Skin Wound Healing. 2013 , 637-695	3
658	Biodegradable scaffold fabricated of electrospun albumin fibers: mechanical and biological characterization. 2013 , 19, 257-64	45
657	Microfabricated mammalian organ systems and their integration into models of whole animals and humans. 2013 , 13, 1201-12	184
656	Workshop meeting report Organs-on-Chips: human disease models. 2013 , 13, 3449-70	68
655	The pivotal role of vascularization in tissue engineering. 2013 , 15, 177-200	225
654	Network formation through active migration of human vascular endothelial cells in a multilayered skeletal myoblast sheet. 2013 , 34, 662-8	39
653	The role of endothelial cells in myofiber differentiation and the vascularization and innervation of bioengineered muscle tissue in vivo. 2013 , 34, 140-9	39
652	3D scaffolds in tissue engineering and regenerative medicine: beyond structural templates?. 2013 , 1, 267-281	12
651	Prevascularized microtemplated fibrin scaffolds for cardiac tissue engineering applications. 2013 , 19, 967-77	50
650	Effectiveness of nanometer-sized extracellular matrix layer-by-layer assembled films for a cell membrane coating protecting cells from physical stress. 2013 , 29, 7362-8	64
649	Magnetic Hydrogels and Their Potential Biomedical Applications. 2013 , 23, 660-672	431

648	Myogenic differentiation of mesenchymal stem cells in a newly developed neurotised AV-loop model. 2013 , 2013, 935046	22
647	Nanomagnetic Gene Transfection for Non-Viral Gene Delivery in NIH 3T3 Mouse Embryonic Fibroblasts. 2013 , 6, 255-264	21
646	A BOTTOM-UP METHOD TO BUILD 3D SCAFFOLDS WITH PREDEFINED VASCULAR NETWORK. 2013 , 13, 1340008	5
645	Geometric control of vascular networks to enhance engineered tissue integration and function. 2013 , 110, 7586-91	197
644	Reversing charges or how to improve Wharton® jelly mesenchymal stem cells culture on polyelectrolyte multilayer films. 2013 , 23, 299-309	7
643	Boosting angiogenesis and functional vascularization in injectable dextran-hyaluronic acid hydrogels by endothelial-like mesenchymal stromal cells. 2014 , 20, 819-29	13
642	Effects of B-cell lymphoma 2 gene transfer to myoblast cells on skeletal muscle tissue formation using magnetic force-based tissue engineering. 2013 , 19, 307-15	12
641	Biomaterials directed in vivo osteogenic differentiation of mesenchymal cells derived from human embryonic stem cells. 2013 , 19, 1723-32	41
640	Immunomodulatory effect of a decellularized skeletal muscle scaffold in a discordant xenotransplantation model. 2013 , 110, 14360-5	155
639	Integration and regression of implanted engineered human vascular networks during deep wound healing. 2013 , 2, 297-306	37
638	Polymers from Renewable Resources. 2013 , 1, 83-112	18
637	Engineering skeletal muscle tissues from murine myoblast progenitor cells and application of electrical stimulation. 2013 , e4267	17
636	Discussion: A report of the ASPS Task Force on regenerative medicine: opportunities for plastic surgery. 2013 , 131, 400-403	3
635	Reconstruction of human mandibular continuity defects with allogenic scaffold and autologous marrow mesenchymal stem cells. 2013 , 24, 1292-7	23
634	Fusible core molding for the fabrication of branched, perfusable, three-dimensional microvessels for vascular tissue engineering. 2013 , 36, 159-65	4
633	Directed in vitro myogenesis of human embryonic stem cells and their in vivo engraftment. 2013 , 8, e72023	35
632	A novel in vitro model for microvasculature reveals regulation of circumferential ECM organization by curvature. 2013 , 8, e81061	20
631	Manipulating the microvasculature and its microenvironment. 2013 , 41, 91-123	18

630	Tissue Engineering. 2014 , 1-21	4
629	Microfabrication of channel arrays promotes vessel-like network formation in cardiac cell construct and vascularization in vivo. 2014 , 6, 024102	34
628	Prospects for In Vitro Cultured Meat [A Future Harvest. 2014 , 1663-1683	13
627	Engineering of human hepatic tissue with functional vascular networks. 2014 , 10, 260-7	28
626	Principles of Cardiovascular Tissue Engineering. 2014 , 627-683	
625	Vascularization, Survival, and Functionality of Tissue-Engineered Constructs. 2014 , 471-496	1
624	Biomimetic engineered muscle with capacity for vascular integration and functional maturation in vivo. 2014 , 111, 5508-13	169
623	3D hydrogel environment rejuvenates aged pericytes for skeletal muscle tissue engineering. 2014 , 5, 203	77
622	Cardiac tissue engineering: a reflection after a decade of hurry. 2014 , 5, 365	5
621	Preparation of three-dimensional vascularized MSC cell sheet constructs for tissue regeneration. 2014 , 2014, 301279	42
620	Differentiation of canine adipose tissue-derived mesenchymal stem cells towards endothelial progenitor cells. 2014 , 75, 685-91	8
619	Skeletal muscle tissue engineering: strategies for volumetric constructs. 2014 , 5, 362	71
618	ENGINEERING OF SURFACE FUNCTIONALITY ONTO POLYSTYRENE MICROCARRIERS FOR THE ATTACHMENT AND GROWTH OF HUMAN ENDOTHELIAL CELLS. 2014 , 02, 1450003	1
617	Engineering of tissues and organs. 2014 , 347-386	
616	Automated, spatio-temporally controlled cell microprinting with polymeric aqueous biphasic system. 2014 , 111, 404-12	19
615	Implanted cell-dense prevascularized tissues develop functional vasculature that supports reoxygenation after thrombosis. 2014 , 20, 2316-28	33
614	Arrayed Hollow Channels in Silk-based Scaffolds Provide Functional Outcomes for Engineering Critically-sized Tissue Constructs. 2014 , 24, 2188-2196	63
613	Introduction to biomedical foams. 2014 , 3-39	11

612	In vivo skeletal muscle biocompatibility of composite, coaxial electrospun, and microfibrinous scaffolds. 2014 , 20, 1961-70	26
611	Vascularizing engineered tissues for in vivo and in vitro applications. 2014 , 283-298	
610	Connections matter: channeled hydrogels to improve vascularization. 2014 , 2, 52	26
609	A multistep procedure to prepare pre-vascularized cardiac tissue constructs using adult stem cells, dynamic cell cultures, and porous scaffolds. 2014 , 5, 210	21
608	Synergistic Effect of Regeneration and Inflammation via Ibuprofen-Loaded Electrospun Fibrous Scaffolds for Repairing Skeletal Muscle. 2014 , 12, 41-52	1
607	Spirobixanthene-based microporous polymeric microsphere for gas uptake and vapor adsorption. 2014 , 116, 120-122	1
606	Vascularization strategies for bone regeneration. 2014 , 42, 432-44	51
605	A tunable silk-alginate hydrogel scaffold for stem cell culture and transplantation. 2014 , 35, 3736-43	72
604	Critical analysis of 3-D organoid in vitro cell culture models for high-throughput drug candidate toxicity assessments. 2014 , 69-70, 1-18	139
603	The effect of scaffold macroporosity on angiogenesis and cell survival in tissue-engineered smooth muscle. 2014 , 35, 5129-37	56
602	Phage nanofibers induce vascularized osteogenesis in 3D printed bone scaffolds. 2014 , 26, 4961-4966	171
601	Nanofibers coated on acellular tissue-engineered bovine pericardium supports differentiation of mesenchymal stem cells into endothelial cells for tissue engineering. 2014 , 9, 623-34	11
600	Prolonged presence of VEGF promotes vascularization in 3D bioprinted scaffolds with defined architecture. 2014 , 184, 58-66	165
599	Heart regeneration with engineered myocardial tissue. 2014 , 16, 1-28	55
598	Strategies and Challenges for Bio-inspired Cardiovascular Biomaterials. 2014 , 227-257	
597	From Mathematical Models to Clinical Reality. 2014 , 25-39	
596	Induced pluripotent stem cell-derived hepatocytes and endothelial cells in multi-component hydrogel fibers for liver tissue engineering. 2014 , 35, 6006-14	104
595	Effects of angiogenic factors and 3D-microenvironments on vascularization within sandwich cultures. 2014 , 35, 4739-48	74

594	Application of magnetic nanoparticle for controlled tissue assembly and tissue engineering. 2014 , 37, 120-8	47
593	Geometric control of capillary architecture via cell-matrix mechanical interactions. 2014 , 35, 3273-80	32
592	Bioengineering dermo-epidermal skin grafts with blood and lymphatic capillaries. 2014 , 6, 221ra14	142
591	Three-dimensional cell culture technique and pathophysiology. 2014 , 74, 95-103	73
590	Biofunctionalized microfiber-assisted formation of intrinsic three-dimensional capillary-like structures. 2014 , 20, 1858-69	24
589	Engineering Angiogenesis for Myocardial Infarction Repair: Recent Developments, Challenges, and Future Directions. 2014 , 5, 281-307	10
588	Directed self-assembly of polypeptide-engineered physical microgels for building porous cell-laden hydrogels. 2014 , 50, 9405-8	24
587	The effect of endothelial cells on hESC-derived pancreatic progenitors in a 3D environment. 2014 , 2, 1706-1714	11
586	Using physiologically-based pharmacokinetic-guided "body-on-a-chip" systems to predict mammalian response to drug and chemical exposure. 2014 , 239, 1225-39	103
585	Microfabrication and microfluidics for muscle tissue models. 2014 , 115, 279-93	34
584	Detecting De-gelation through Tissue Using Magnetically Modulated Optical Nanoprobes (MagMOONs). 2014 , 205, 313-321	10
583	Cardiac Tissue Engineering. 2014 ,	2
582	In vivo bioluminescent tracking of mesenchymal stem cells within large hydrogel constructs. 2014 , 20, 806-16	22
581	Tissue engineering. 2014 , 48, 137-54	30
580	Role of angiogenesis in bone repair. 2014 , 561, 109-17	211
579	Roles of adherent myogenic cells and dynamic culture in engineered muscle function and maintenance of satellite cells. 2014 , 35, 9438-46	46
578	CellBiomaterial interactions for blood vessel formation. 2014 , 350-388	1
577	Airway tissue engineering: an update. 2014 , 14, 1477-91	55

576	Cell and tissue engineering for liver disease. 2014 , 6, 245sr2	212
575	Embryonic Stem Cells as a Cell Source for Tissue Engineering. 2014 , 609-638	4
574	Poly(2-hydroxyethyl methacrylate)-b-poly(L-Lysine) cationic hybrid materials for non-viral gene delivery in NIH 3T3 mouse embryonic fibroblasts. 2014 , 14, 1239-48	8
573	Emerging nanostructured materials for musculoskeletal tissue engineering. 2014 , 2, 6435-6461	47
572	In situ regeneration of skeletal muscle tissue through host cell recruitment. 2014 , 10, 4332-9	55
571	[New perspectives in skeletal muscle tissue engineering]. 2014 , 62, 415-22	1
570	Skeletal muscle tissue engineering: methods to form skeletal myotubes and their applications. 2014 , 20, 403-36	164
569	Effect of nano- and micro-scale topological features on alignment of muscle cells and commitment of myogenic differentiation. 2014 , 6, 035012	63
568	Integrating organ-specific function with the microcirculation. 2014 , 3, 103-111	10
567	Fabrication of Cell Patches Using Biodegradable Scaffolds with a Hexagonal Array of Interconnected Pores (SHAIPs). 2014 , 55, 445-452	9
566	MSC-based VEGF gene therapy in rat myocardial infarction model using facial amphipathic bile acid-conjugated polyethyleneimine. 2014 , 35, 1744-54	65
565	Smooth muscle cells largely develop independently of functional hemogenic endothelium. 2014 , 12, 222-32	10
564	Microfluidic techniques for development of 3D vascularized tissue. 2014 , 35, 7308-25	215
563	Characterization and multilineage potential of cells derived from isolated microvascular fragments. 2014 , 192, 214-22	30
562	Time Dependence of Material Properties of Polyethylene Glycol Hydrogels Chain Extended with Short Hydroxy Acid Segments. 2014 , 55, 3894-3904	20
561	Comparison of angiogenic potential between prevascular and non-prevascular layered adipose-derived stem cell-sheets in early post-transplanted period. 2014 , 102, 358-65	22
560	Bone Biology and Regeneration. 2014 , 315-342	3
559	Cell sheet-based tissue engineering for fabricating 3-dimensional heart tissues. 2014 , 78, 2594-603	32

558	Neonatal human dermal fibroblasts immobilized in RGD-alginate induce angiogenesis. 2014 , 23, 945-57	18
557	Nanotechnologies for Cardiovascular Tissue Engineering. 2014 , 381-406	
556	Regeneration and repair of human digits and limbs: fact and fiction. 2015 , 2, 149-68	22
555	6b. Cell SheetBased Myocardial Tissue Engineering. 2015 , 183-198	
554	Cell Sheet-Based Tissue Engineering for Organizing Anisotropic Tissue Constructs Produced Using Microfabricated Thermoresponsive Substrates. 2015 , 4, 2388-407	49
553	Facile fabrication of egg white macroporous sponges for tissue regeneration. 2015 , 4, 2281-90	28
552	Negating Tissue Contracture Improves Volume Maintenance and Longevity of In Vivo Engineered Tissues. 2015 , 136, 453e-460e	1
551	Trends in Mesenchymal Stem CellsApplications for Skeletal Muscle Repair and Regeneration. 2015 , ,	4
550	Imaging approaches in functional assessment of implantable myogenic biomaterials and engineered muscle tissue. 2015 , 25, 63	10
549	A review of cellularization strategies for tissue engineering of whole organs. 2015 , 3, 43	131
548	Guest Editorial: Vascularization in Tissue Engineering. 2015 , 43, 431-2	
547	Cell based advanced therapeutic medicinal products for bone repair: Keep it simple?. 2015 , 84, 30-44	33
546	A method for constructing vascularized muscle flap. 2015 , 84, 70-5	15
545	In situ vascularization of injectable fibrin/poly(ethylene glycol) hydrogels by human amniotic fluid-derived stem cells. 2015 , 103, 2645-53	23
544	Synergizing Engineering and Biology to Treat and Model Skeletal Muscle Injury and Disease. 2015 , 17, 217-42	38
543	Monitoring through Tissue the De-gelation of Alginate Gels by Different De-gelling Agents. 2015 , 62-66	1
542	Endothelial outgrowth cells regulate coagulation, platelet accumulation, and respond to tumor necrosis factor similar to carotid endothelial cells. 2015 , 21, 174-82	10
541	Multifunctional cell-culture platform for aligned cell sheet monitoring, transfer printing, and therapy. 2015 , 9, 2677-88	58

540	Marine Biomaterials. 2015 , 1195-1215	5
539	A medium throughput device to study the effects of combinations of surface strains and fluid-flow shear stresses on cells. 2015 , 15, 429-39	28
538	Patterning vascular networks in vivo for tissue engineering applications. 2015 , 21, 509-17	39
537	In vivo generation of a mature and functional artificial skeletal muscle. 2015 , 7, 411-22	63
536	In vitro analysis of scaffold-free prevascularized microtissue spheroids containing human dental pulp cells and endothelial cells. 2015 , 41, 663-70	45
535	Nano-film modification of collagen hydrogels for controlled growth factor release. 2015 , 137, 626-630	9
534	Endothelial Network Formation Within Human Tissue-Engineered Skeletal Muscle. 2015 , 21, 2548-58	54
533	Experimental approaches to vascularisation within tissue engineering constructs. 2015 , 26, 683-734	42
532	Auricular reconstruction using biofabrication-based tissue engineering strategies. 2015 , 7, 032001	30
531	A 3D bioprinted complex structure for engineering the muscle-tendon unit. 2015 , 7, 035003	235
530	Biomaterials and scaffolds for musculoskeletal tissue engineering. 2015 , 3-23	15
529	Muscle tissue engineering. 2015 , 239-268	0
528	Vascularization of engineered musculoskeletal tissues. 2015 , 269-291	
527	Spatial coordination of cell orientation directed by nanoribbon sheets. 2015 , 53, 86-94	32
526	pH-responsive scaffolds generate a pro-healing response. 2015 , 57, 22-32	23
525	Enzymatic regulation of functional vascular networks using gelatin hydrogels. 2015 , 19, 85-99	31
524	Recellularization of rat liver scaffolds by human liver stem cells. 2015 , 21, 1929-39	41
523	LbL Nanofilms Through Biological Recognition for 3D Tissue Engineering. 2015 , 419-452	

522	Vascularization of hollow channel-modified porous silk scaffolds with endothelial cells for tissue regeneration. 2015 , 56, 68-77	107
521	The promotion of angiogenesis induced by three-dimensional porous beta-tricalcium phosphate scaffold with different interconnection sizes via activation of PI3K/Akt pathways. 2015 , 5, 9409	104
520	Investigating muscle regeneration with a dermis/small intestinal submucosa scaffold in a rat full-thickness abdominal wall defect model. 2015 , 103, 355-64	33
519	Biomaterials based strategies for skeletal muscle tissue engineering: existing technologies and future trends. 2015 , 53, 502-21	270
518	Hyper Bio Assembler for 3D Cellular Systems. 2015 ,	0
517	Applications of three-dimensional printing technology in the cardiovascular field. 2015 , 10, 769-80	14
516	Cell Detachment for Engineering Three-Dimensional Tissues. 2015 , 213-222	
515	Ductile electroactive biodegradable hyperbranched polylactide copolymers enhancing myoblast differentiation. 2015 , 71, 158-167	85
514	Self-assembly of polydimethylsiloxane structures from 2D to 3D for bio-hybrid actuation. 2015 , 10, 056001	25
513	Endothelial cell dynamics during anastomosis in vitro. 2015 , 7, 454-66	20
512	Bioprinting in Regenerative Medicine. 2015 ,	3
511	Bioengineering vascularized tissue constructs using an injectable cell-laden enzymatically crosslinked collagen hydrogel derived from dermal extracellular matrix. 2015 , 27, 151-166	60
510	Regenerative medicine: Current therapies and future directions. 2015 , 112, 14452-9	464
509	Human endothelial colony-forming cells expanded with an improved protocol are a useful endothelial cell source for scaffold-based tissue engineering. 2015 , 9, E84-97	12
508	Engineering a freestanding biomimetic cardiac patch using biodegradable poly(lactic-co-glycolic acid) (PLGA) and human embryonic stem cell-derived ventricular cardiomyocytes (hESC-VCMs). 2015 , 15, 426-36	25
507	Endothelial progenitor cells from peripheral blood support bone regeneration by provoking an angiogenic response. 2015 , 98, 40-7	33
506	Induction of functional tissue-engineered skeletal muscle constructs by defined electrical stimulation. 2014 , 4, 4781	77
505	Three-dimensional cell manipulation and patterning using dielectrophoresis via a multi-layer scaffold structure. 2015 , 15, 920-30	34

504	Incorporation of a prolyl hydroxylase inhibitor into scaffolds: a strategy for stimulating vascularization. 2015 , 21, 1106-15	1
503	Angiogenic gene-modified myoblasts promote vascularization during repair of skeletal muscle defects. 2015 , 9, 1404-16	15
502	Controlled protein delivery in the generation of microvascular networks. 2015 , 5, 75-88	7
501	Advances in techniques for probing mechanoregulation of tissue morphogenesis. 2015 , 20, 127-37	6
500	Evaluating 3D-printed biomaterials as scaffolds for vascularized bone tissue engineering. 2015 , 27, 138-44	196
499	Skeletal Muscle Tissue Engineering. 2015 , 567-592	3
498	Radially oriented collagen scaffold with SDF-1 promotes osteochondral repair by facilitating cell homing. 2015 , 39, 114-23	132
497	Advances in tissue engineering through stem cell-based co-culture. 2015 , 9, 488-503	111
496	Construction of three-dimensional liver tissue models by cell accumulation technique and maintaining their metabolic functions for long-term culture without medium change. 2015 , 103, 1554-64	20
495	Anisotropic cellular network formation in engineered muscle tissue through the self-organization of neurons and endothelial cells. 2015 , 4, 356-60	32
494	Alginate composites for bone tissue engineering: a review. 2015 , 72, 269-81	523
493	Naturally derived and synthetic scaffolds for skeletal muscle reconstruction. 2015 , 84, 208-21	151
492	Co-culture of adipose-derived stem cells and endothelial cells in fibrin induces angiogenesis and vasculogenesis in a chorioallantoic membrane model. 2016 , 10, 496-506	42
491	. 2016 ,	12
490	Development of Synthetic and Natural Materials for Tissue Engineering Applications Using Adipose Stem Cells. 2016 , 2016, 5786257	28
489	Applications of Mesenchymal Stem Cells and Neural Crest Cells in Craniofacial Skeletal Research. 2016 , 2016, 2849879	6
488	The Application of Ultrasound in 3D Bio-Printing. 2016 , 21,	19
487	Wnt5a Regulates the Assembly of Human Adipose Derived Stromal Vascular Fraction-Derived Microvasculatures. 2016 , 11, e0151402	7

486	Fabrication of High-Aspect-Ratio 3D Hydrogel Microstructures Using Optically Induced Electrokinetics. 2016 , 7,	5
485	Patterning Vasculature: The Role of Biofabrication to Achieve an Integrated Multicellular Ecosystem. 2016 , 2, 1694-1709	21
484	High-Throughput Blood- and Lymph-Capillaries with Open-Ended Pores Which Allow the Transport of Drugs and Cells. 2016 , 5, 1969-78	13
483	Cell spheroids: the new frontiers in in vitro models for cancer drug validation. 2016 , 21, 1553-1560	72
482	Endothelial colony-forming cells for preparing prevascular three-dimensional cell-dense tissues using cell-sheet engineering. 2016 , 10, 739-47	12
481	Primary skeletal muscle cells cultured on gelatin bead microcarriers develop structural and biochemical features characteristic of adult skeletal muscle. 2016 , 40, 364-74	6
480	Directed Assembly and Development of Material-Free Tissues with Complex Architectures. 2016 , 28, 4032-9	40
479	Perinatal Tissue-Derived Stem Cells. 2016 ,	
478	Perinatal Tissue-Derived Endothelial Progenitor Cells. 2016 , 65-80	2
477	Progressive Muscle Cell Delivery as a Solution for Volumetric Muscle Defect Repair. 2016 , 6, 38754	26
476	Guidelines for Models of Skeletal Muscle Injury and Therapeutic Assessment. 2016 , 202, 214-226	7
475	A morphospace for synthetic organs and organoids: the possible and the actual. 2016 , 8, 485-503	34
474	Gradual conversion of cellular stress patterns into pre-stressed matrix architecture during in vitro tissue growth. 2016 , 13,	21
473	Construction and myogenic differentiation of 3D myoblast tissues fabricated by fibronectin-gelatin nanofilm coating. 2016 , 474, 515-521	17
472	3D-printed fluidic networks as vasculature for engineered tissue. 2016 , 16, 2025-43	93
471	In vitro formation of vascular-like networks using hydrogels. 2016 , 122, 519-527	18
470	Vasculogenic potential evaluation of bottom-up, PCL scaffolds guiding early angiogenesis in tissue regeneration. 2016 , 27, 107	14
469	Muscular dystrophy in a dish: engineered human skeletal muscle mimetics for disease modeling and drug discovery. 2016 , 21, 1387-1398	39

468	Hydrophilic Polymers. 2016 , 163-185	1
467	Polyester Nano- and Microtechnologies for Tissue Engineering. 2016 , 595-649	1
466	Generation of human muscle fibers and satellite-like cells from human pluripotent stem cells in vitro. 2016 , 11, 1833-50	132
465	Plasma treatment in conjunction with EGM-2 medium increases endothelial and osteogenic marker expressions of bone marrow mesenchymal stem cells. 2016 , 51, 9145-9154	4
464	Creating Interactions between Tissue-Engineered Skeletal Muscle and the Peripheral Nervous System. 2016 , 202, 143-158	28
463	Enhancing vascularization of a gelatin-based micro-cavitary hydrogel by increasing the density of the micro-cavities. 2016 , 11, 055012	10
462	In vivo vascularization of MSC-loaded porous hydroxyapatite constructs coated with VEGF-functionalized collagen/heparin multilayers. 2016 , 6, 19871	26
461	Engineered Vascularized Muscle Flap. 2016 ,	3
460	Striated muscle function, regeneration, and repair. 2016 , 73, 4175-4202	48
459	Vascularization of three-dimensional engineered tissues for regenerative medicine applications. 2016 , 41, 17-26	91
458	Design Principles for Engineering of Tissues from Human Pluripotent Stem Cells. 2016 , 2, 43-51	17
457	Mechanisms by which acellular biologic scaffolds promote functional skeletal muscle restoration. 2016 , 103, 128-136	49
456	Stretchable and Transparent Biointerface Using Cell-Sheet/Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle. 2016 , 26, 3207-3217	103
455	Vascularization strategies of engineered tissues and their application in cardiac regeneration. 2016 , 96, 183-94	98
454	Effects of Dexamethasone on Satellite Cells and Tissue Engineered Skeletal Muscle Units. 2016 , 22, 480-9	22
453	Spontaneous Formation of Extensive Vessel-Like Structures in Murine Engineered Heart Tissue. 2016 , 22, 326-35	16
452	Soft Origami: Classification, Constraint, and Actuation of Highly Compliant Origami Structures. 2016 , 8,	9
451	Creating Hierarchical Topographies on Fibrous Platforms Using Femtosecond Laser Ablation for Directing Myoblasts Behavior. 2016 , 8, 3407-17	38

450	Physical and Chemical Signals That Promote Vascularization of Capillary-Scale Channels. 2016 , 9, 73-84	36
449	Ultrasound-guided photoacoustic imaging-directed re-endothelialization of acellular vasculature leads to improved vascular performance. 2016 , 32, 35-45	8
448	Advances in tissue engineering. 2016 , 51, 8-12	143
447	Prevascularization in tissue engineering: Current concepts and future directions. 2016 , 34, 112-21	164
446	Vascularization and Angiogenesis in Tissue Engineering: Beyond Creating Static Networks. 2016 , 34, 733-745	364
445	Characterization and preparation of bio-tubular scaffolds for fabricating artificial vascular grafts by combining electrospinning and a co-culture system. 2016 , 24, 131-142	17
444	Human adipose-derived stem cells promote vascularization of collagen-based scaffolds transplanted into nude mice. 2016 , 11, 261-71	27
443	Biomaterials for pluripotent stem cell engineering: From fate determination to vascularization. 2016 , 4, 3454-3463	13
442	Endothelial sprouting and network formation in collagen- and fibrin-based modular microbeads. 2016 , 29, 33-41	28
441	Heart regeneration. 2016 , 1863, 1749-59	18
440	Microscale Technologies for Engineering Complex Tissue Structures. 2016 , 3-25	4
439	Three-dimensional bioprinting in tissue engineering and regenerative medicine. 2016 , 38, 203-11	142
438	Design, evaluation, and application of engineered skeletal muscle. 2016 , 99, 81-90	35
437	Classic Studies on the Potential of Stem Cell Neuroregeneration. 2016 , 25, 123-41	2
436	Mechanical regulation of vascular network formation in engineered matrices. 2016 , 96, 176-82	28
435	Interfacial self-assembly of endothelial cells toward angiogenic network formation in the composite hydrogel culture systems. 2017 , 32, 61-73	3
434	"Steel-Concrete" Inspired Biofunctional Layered Hybrid Cage for Spine Fusion and Segmental Bone Reconstruction. 2017 , 3, 637-647	2
433	Developing a biomimetic tooth bud model. 2017 , 11, 3326-3336	27

432	Direct 3D bioprinting of prevascularized tissue constructs with complex microarchitecture. 2017 , 124, 106-115	313
431	Tropoelastin coated PLLA-PLGA scaffolds promote vascular network formation. 2017 , 122, 72-82	41
430	Ectopic tissue engineered ligament with silk collagen scaffold for ACL regeneration: A preliminary study. 2017 , 53, 307-317	11
429	MRI of Vascularized Tissue-Engineered Organs. 2017 , 311-331	
428	Creating to understand - developmental biology meets engineering in Paris. 2017 , 144, 733-736	7
427	Construction of three-dimensional vascularized functional human liver tissue using a layer-by-layer cell coating technique. 2017 , 133, 263-274	53
426	Glucose-sensitive self-healing hydrogel as sacrificial materials to fabricate vascularized constructs. 2017 , 133, 20-28	65
425	Construction of vascularized pacemaker tissues by seeding cardiac progenitor cells and endothelial progenitor cells into Matrigel. 2017 , 179, 139-146	17
424	Biomimetic Assembly of Vascular Endothelial Cells and Muscle Cells in Microgrooved Collagen Porous Scaffolds. 2017 , 23, 367-376	25
423	A short discourse on vascular tissue engineering. 2017 , 2,	88
422	Effect of monocytes/macrophages on the osteogenic differentiation of adipose-derived mesenchymal stromal cells in 3D co-culture spheroids. 2017 , 49, 461-469	8
421	Microsurgical Approaches for In Vivo Prevascularization. 2017 , 1-18	2
420	Bioengineered constructs combined with exercise enhance stem cell-mediated treatment of volumetric muscle loss. 2017 , 8, 15613	129
419	Novel hiPSC-based tri-culture for pre-vascularization of calcium phosphate scaffold to enhance bone and vessel formation. 2017 , 79, 296-304	27
418	Improvement of endothelial progenitor outgrowth cell (EPOC)-mediated vascularization in gelatin-based hydrogels through pore size manipulation. 2017 , 58, 225-237	21
417	3D-printed vascular networks direct therapeutic angiogenesis in ischaemia. 2017 , 1,	91
416	Implanted scaffolds: Pre-ordered vessels halt ischaemia. 2017 , 1,	0
415	Towards a Humanized Mouse Model of Liver Stage Malaria Using Ectopic Artificial Livers. 2017 , 7, 45424	17

414	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers <i>in vitro</i> and <i>in vivo</i> . 2017 , 131, 98-110	184
413	Skeletal Myoblast-Seeded Vascularized Tissue Scaffolds in the Treatment of a Large Volumetric Muscle Defect in the Rat Biceps Femoris Muscle. 2017 , 23, 989-1000	26
412	Development of Tissue-Engineered Blood Vessels. 2017 , 325-361	
411	Musculoskeletal Tissue Engineering: Tendon, Ligament, and Skeletal Muscle Replacement and Repair. 2017 , 465-523	1
410	Elderly Patient-Derived Endothelial Cells for Vascularization of Engineered Muscle. 2017 , 25, 935-948	31
409	Engineering an Injectable Muscle-Specific Microenvironment for Improved Cell Delivery Using a Nanofibrous Extracellular Matrix Hydrogel. 2017 , 11, 3851-3859	45
408	Advances in on-chip vascularization. 2017 , 12, 285-302	81
407	Biomimetic Approaches for Bone Tissue Engineering. 2017 , 23, 480-493	46
406	Additive Manufacturing of Vascular Grafts and Vascularized Tissue Constructs. 2017 , 23, 436-450	49
405	Engineering of an angiogenic niche by perfusion culture of adipose-derived stromal vascular fraction cells. 2017 , 7, 14252	14
404	Design of biomimetic cellular scaffolds for co-culture system and their application. 2017 , 8, 2041731417724640	8
403	Injectable biomimetic liquid crystalline scaffolds enhance muscle stem cell transplantation. 2017 , 114, E7919-E7928	59
402	3D porous polyurethanes featured by different mechanical properties: Characterization and interaction with skeletal muscle cells. 2017 , 75, 147-159	25
401	Multilayered Engineered Tissue Sheets for Vascularized Tissue Regeneration. 2017 , 14, 371-381	14
400	Convergence of microengineering and cellular self-organization towards functional tissue manufacturing. 2017 , 1, 939-956	59
399	Harnessing Sphingosine-1-Phosphate Signaling and Nanotopographical Cues To Regulate Skeletal Muscle Maturation and Vascularization. 2017 , 11, 11954-11968	17
398	Electrical pulse stimulation of cultured skeletal muscle cells as a model for <i>in vitro</i> exercise - possibilities and limitations. 2017 , 220, 310-331	53
397	Application of bioresorbable polymers in muscular system. 2017 , 469-495	

396	Endothelial pattern formation in hybrid constructs of additive manufactured porous rigid scaffolds and cell-laden hydrogels for orthopedic applications. 2017 , 65, 356-372	20
395	Skeletal muscle-derived interstitial progenitor cells (PICs) display stem cell properties, being clonogenic, self-renewing, and multi-potent in vitro and in vivo. 2017 , 8, 158	20
394	The combination of stem cells and tissue engineering: an advanced strategy for blood vessels regeneration and vascular disease treatment. 2017 , 8, 194	33
393	. 2017 ,	4
392	Engineering Muscle Networks in 3D Gelatin Methacryloyl Hydrogels: Influence of Mechanical Stiffness and Geometrical Confinement. 2017 , 5, 22	42
391	A Novel Human Tissue-Engineered 3-D Functional Vascularized Cardiac Muscle Construct. 2017 , 5, 2	20
390	Tissue Engineering. 2017 ,	6
389	5.14 Biofabrication in Tissue Engineering. 2017 , 236-266	22
388	6.21 Tissue-Engineering Hollow Noncardiac Intrathoracic Organs: State-of-the-Art 2010. 2017 , 383-402	
387	5.16 Medical Applications of Cell Sheet Engineering. 2017 , 287-302	
386	5.18 Endogenous Strategies in Tissue Engineering. 2017 , 329-342	
385	6.13 Tissue Engineering of Muscle Tissue. 2017 , 216-235	
384	In Situ Forming Gelatin Hydrogels-Directed Angiogenic Differentiation and Activity of Patient-Derived Human Mesenchymal Stem Cells. 2017 , 18,	10
383	Exploratory study on the effect of osteoactivin on muscle regeneration in a rat volumetric muscle loss model. 2017 , 12, e0175853	8
382	Introduction of vasculature in engineered three-dimensional tissue. 2017 , 37, 25	14
381	An in vitro human skeletal muscle model: coculture of myotubes, neuron-like cells, and the capillary network. 2017 , 41, 514-525	
380	Bio-Instructive Scaffolds for Musculoskeletal Interfaces. 2017 , 203-233	5
379	Engineering Vascular Niche for Bone Tissue Regeneration. 2017 , 517-529	

378	Micro- and Nanosurface Patterning Technologies. 2017 , 375-390	2
377	Tissue Engineering of Skeletal Tissues. 2018 ,	2
376	Tackling muscle fibrosis: From molecular mechanisms to next generation engineered models to predict drug delivery. 2018 , 129, 64-77	21
375	Opportunities for applying biomedical production and manufacturing methods to the development of the clean meat industry. 2018 , 132, 161-168	60
374	Vascular Tissue Engineering: Progress, Challenges, and Clinical Promise. 2018 , 22, 340-354	185
373	Conducting Polymers for Tissue Engineering. 2018 , 19, 1764-1782	389
372	Three-Dimensional Human iPSC-Derived Artificial Skeletal Muscles Model Muscular Dystrophies and Enable Multilineage Tissue Engineering. 2018 , 23, 899-908	141
371	Vascularization in Craniofacial Bone Tissue Engineering. 2018 , 97, 969-976	30
370	Xeno-free pre-vascularized spheroids for therapeutic applications. 2018 , 8, 230	24
369	Vascularization and angiogenesis in electrospun tissue engineered constructs: towards the creation of long-term functional networks. 2018 , 4, 032001	8
368	Numerical Simulation of Turbulent Flow and Heat Transfer in a Three-Dimensional Channel Coupled with Flow Through Porous Structures. 2018 , 122, 145-167	19
367	Enzymatic Formation of an Injectable Hydrogel from a Glycopeptide as a Biomimetic Scaffold for Vascularization. 2018 , 10, 6180-6189	32
366	Rapid generation of three-dimensional microchannels for vascularization using a subtractive printing technique. 2018 , 11, e201700226	5
365	A 3D bioprinted in situ conjugated-co-fabricated scaffold for potential bone tissue engineering applications. 2018 , 106, 1311-1321	26
364	Cellular Biomechanics in Skeletal Muscle Regeneration. 2018 , 126, 125-176	21
363	Myogenic potential of mesenchymal stem cells isolated from porcine adipose tissue. 2018 , 372, 507-522	9
362	In Vitro Tissue-Engineered Skeletal Muscle Models for Studying Muscle Physiology and Disease. 2018 , 7, e1701498	44
361	Graphene Oxide-Based Biocompatible 3D Mesh with a Tunable Porosity and Tensility for Cell Culture. 2018 , 4, 1505-1517	3

360	Stem Cells for Skeletal Muscle Tissue Engineering. 2018 , 24, 373-391	38
359	[Stem cell-based strategies in vascular surgery]. 2018 , 23, 28-33	
358	Flow-Induced Vascular Network Formation and Maturation in Three-Dimensional Engineered Tissue. 2018 , 4, 1265-1271	22
357	Functional Tissue Engineering: A Prevascularized Cardiac Muscle Construct for Validating Human Mesenchymal Stem Cells Engraftment Potential In Vitro. 2018 , 24, 157-185	17
356	Fibroblasts as maestros orchestrating tissue regeneration. 2018 , 12, 240-251	42
355	Endothelial Progenitor Cells for the Vascularization of Engineered Tissues. 2018 , 24, 1-24	91
354	Differentiation and characterization of rat adipose tissue mesenchymal stem cells into endothelial-like cells. 2018 , 47, 11-20	7
353	Biomaterials and Tissue Engineering. 2018 , 17-51	21
352	Crosstalk between developing vasculature and optogenetically engineered skeletal muscle improves muscle contraction and angiogenesis. 2018 , 156, 65-76	38
351	iPSCs-based generation of vascular cells: reprogramming approaches and applications. 2018 , 75, 1411-1433	39
350	Inspired by Nature: Hydrogels as Versatile Tools for Vascular Engineering. 2018 , 7, 232-246	28
349	Obstacles and challenges for tissue engineering and regenerative medicine: Australian nuances. 2018 , 45, 390-400	15
348	48 and 51 integrin-specific ligands: From tumor angiogenesis inhibitors to vascularization promoters in regenerative medicine?. 2018 , 36, 208-227	31
347	Fibrin Hydrogels for Endothelialized Liver Tissue Engineering with a Predesigned Vascular Network. 2018 , 10,	19
346	Engineered circulatory scaffolds for building cardiac tissue. 2018 , 10, S2312-S2328	18
345	Myocardial Repair. 2018 , 425-439	
344	OBSOLETE: Myocardial Repair. 2018 ,	
343	Strategies for Tissue Engineering Vascularized Cardiac Patches to Treat Myocardial Infarctions. 2018 , 141-175	

342	Prevascularization of collagen-glycosaminoglycan scaffolds: stromal vascular fraction versus adipose tissue-derived microvascular fragments. 2018 , 12, 24	24
341	Biophysical Regulation of Vascular Differentiation and Assembly. 2018 ,	1
340	Hypoxia Impairs Initial Outgrowth of Endothelial Colony Forming Cells and Reduces Their Proliferative and Sprouting Potential. 2018 , 5, 356	4
339	Engineering an Environment for the Study of Fibrosis: A 3D Human Muscle Model with Endothelium Specificity and Endomysium. 2018 , 25, 3858-3868.e4	31
338	Long-Term High-Density Extracellular Recordings Enable Studies of Muscle Cell Physiology. 2018 , 9, 1424	3
337	Promoted Angiogenesis and Osteogenesis by Dexamethasone-loaded Calcium Phosphate Nanoparticles/Collagen Composite Scaffolds with Microgroove Networks. 2018 , 8, 14143	13
336	Channels in a porous scaffold: a new player for vascularization. 2018 , 13, 705-715	27
335	Protease-Sensitive Hydrogel Biomaterials with Tunable Modulus and Adhesion Ligand Gradients for 3D Vascular Sprouting. 2018 , 19, 4168-4181	13
334	Use of Matrix and Seeding With Cells for Vasculature of Organs. 2018 , 425-425	
333	3D skeletal muscle fascicle engineering is improved with TGF- β treatment of myogenic cells and their co-culture with myofibroblasts. 2018 , 6, e4939	14
332	Biomedical applications of magneto-responsive scaffolds. 2018 , 11, 5049-5064	38
331	3D biofabrication of vascular networks for tissue regeneration: A report on recent advances. 2018 , 8, 277-296	86
330	Angiogenic Self-Assembling Peptide Scaffolds for Functional Tissue Regeneration. 2018 , 19, 3597-3611	24
329	Strategies for directing cells into building functional hearts and parts. 2018 , 6, 1664-1690	15
328	Bioengineering strategies to accelerate stem cell therapeutics. 2018 , 557, 335-342	222
327	Improved Left Ventricular Aneurysm Repair with Cell- and Cytokine-Seeded Collagen Patches. 2018 , 2018, 4717802	8
326	Response of hPDLSCs on 3D printed PCL/PLGA composite scaffolds in vitro. 2018 , 18, 1335-1344	13
325	3D and 4D Bioprinting of the Myocardium: Current Approaches, Challenges, and Future Prospects. 2018 , 2018, 6497242	48

324	3D bioprinting of functional tissue models for personalized drug screening and in vitro disease modeling. 2018 , 132, 235-251	201
323	Stiffness modification of photopolymerizable gelatin-methacrylate hydrogels influences endothelial differentiation of human mesenchymal stem cells. 2018 , 12, 2099-2111	27
322	Gene Therapy in Reconstructive and Regenerative Surgery. 2018 ,	
321	3D bioprinting of tissues and organs for regenerative medicine. 2018 , 132, 296-332	232
320	Promotion of Vascular Morphogenesis of Endothelial Cells Co-Cultured with Human Adipose-Derived Mesenchymal Stem Cells Using Polycaprolactone/Gelatin Nanofibrous Scaffolds. 2018 , 8,	29
319	Decellularized Diaphragmatic Muscle Drives a Constructive Angiogenic Response In Vivo. 2018 , 19,	17
318	Induced neuro-vascular interactions robustly enhance functional attributes of engineered neural implants. 2018 , 180, 1-11	5
317	Reduced graphene oxide-loaded nanocomposite scaffolds for enhancing angiogenesis in tissue engineering applications. 2018 , 5, 172017	35
316	Human tissue-engineered skeletal muscle: a novel 3D in vitro model for drug disposition and toxicity after intramuscular injection. 2018 , 8, 12206	26
315	Gene Therapy in Skeletal Muscle Repair and Regeneration. 2018 , 49-69	
314	Innervation of an engineered muscle graft for reconstruction of muscle defects. 2019 , 19, 37-47	11
313	Intelligent Surfaces for Cell Sheet Engineering. 2019 , 469-484	2
312	Cardiac Tissue. 2019 , 1073-1099	3
311	A Versatile Biosynthetic Hydrogel Platform for Engineering of Tissue Analogues. 2019 , 8, e1900979	34
310	Chemical and Biological Approaches to Regenerative Medicine and Tissue Engineering. 2019 , 03, 122-128	3
309	Medicinal Biotechnology for Disease Modeling, Clinical Therapy, and Drug Discovery and Development. 2019 , 89-128	3
308	Introduction to Biotech Entrepreneurship: From Idea to Business. 2019 ,	
307	Fabrication Techniques for Vascular and Vascularized Tissue Engineering. 2019 , 8, e1900742	35

306	Oxygen and nutrient delivery in tissue engineering: Approaches to graft vascularization. 2019 , 13, 1815-1829	45
305	Bioprinting Approaches to Engineering Vascularized 3D Cardiac Tissues. 2019 , 21, 90	18
304	Nano/microscale topographically designed alginate/PCL scaffolds for inducing myoblast alignment and myogenic differentiation. 2019 , 223, 115041	29
303	Direct-write and sacrifice-based techniques for vasculatures. 2019 , 104, 109936	9
302	Vascular Pedicle and Microchannels: Simple Methods Toward Effective In Vivo Vascularization of 3D Scaffolds. 2019 , 8, e1901106	10
301	The fabrication of uniaxially aligned micro-textured polycaprolactone struts and application for skeletal muscle tissue regeneration. 2019 , 11, 025005	12
300	Plant seed-inspired cell protection, dormancy, and growth for large-scale biofabrication. 2019 , 11, 025008	12
299	Mature vessel networks in engineered tissue promote graft-host anastomosis and prevent graft thrombosis. 2019 , 116, 2955-2960	55
298	Biofabrication of thick vascularized neo-pedicle flaps for reconstructive surgery. 2019 , 211, 84-122	0
297	Treatment of volumetric muscle loss in mice using nanofibrillar scaffolds enhances vascular organization and integration. 2019 , 2, 170	41
296	Enzymatically-degradable alginate hydrogels promote cell spreading and in vivo tissue infiltration. 2019 , 217, 119294	53
295	Tissue Engineering for Clean Meat Production. 2019 , 3,	58
294	Tissue Engineering of the Microvasculature. 2019 , 9, 1155-1212	9
293	Engineering the vasculature for islet transplantation. 2019 , 95, 131-151	30
292	Skeletal myotube formation enhanced through fibrillated collagen nanofibers coated on a 3D-printed polycaprolactone surface. 2019 , 181, 408-415	5
291	Photosensitive Hydrogel Creates Favorable Biologic Niches to Promote Spinal Cord Injury Repair. 2019 , 8, e1900013	33
290	Engineering blood vessels and vascularized tissues: technology trends and potential clinical applications. 2019 , 133, 1115-1135	38
289	Calcium phosphate cement scaffold with stem cell co-culture and prevascularization for dental and craniofacial bone tissue engineering. 2019 , 35, 1031-1041	32

288	Co-culture of human umbilical vein endothelial cells and human bone marrow stromal cells into a micro-cavitary gelatin-methacrylate hydrogel system to enhance angiogenesis. 2019 , 102, 906-916	18
287	Engineering complex muscle-tissue interfaces through microfabrication. 2019 , 11, 032004	10
286	Alginate Hydrogel and Aerogel. 2019 , 59-77	
285	Allogenic tissue-specific decellularized scaffolds promote long-term muscle innervation and functional recovery in a surgical diaphragmatic hernia model. 2019 , 89, 115-125	15
284	Recent advances in 3D printing: vascular network for tissue and organ regeneration. 2019 , 211, 46-63	50
283	Inorganic composites in biomedical engineering. 2019 , 47-80	1
282	3D Printing of Personalized Thick and Perfusable Cardiac Patches and Hearts. 2019 , 6, 1900344	387
281	Fabrication of Perfusable Pseudo Blood Vessels by Controlling Sol-Gel Transition of Gellan Gum Templates. 2019 , 5, 5637-5643	9
280	Engineering Biomimetic Materials for Skeletal Muscle Repair and Regeneration. 2019 , 8, e1801168	47
279	Quantification of human neuromuscular function through optogenetics. 2019 , 9, 1232-1246	30
278	Coculture with monocytes/macrophages modulates osteogenic differentiation of adipose-derived mesenchymal stromal cells on poly(lactic-co-glycolic) acid/polycaprolactone scaffolds. 2019 , 13, 785-798	11
277	Cellular Based Strategies for Microvascular Engineering. 2019 , 15, 218-240	10
276	Emergence of Three Dimensional Printed Cardiac Tissue: Opportunities and Challenges in Cardiovascular Diseases. 2019 , 15, 188-204	6
275	Tissue Engineering in Oral and Maxillofacial Surgery. 2019 ,	
274	Enhanced Host Neovascularization of Prevascularized Engineered Muscle Following Transplantation into Immunocompetent versus Immunocompromised Mice. 2019 , 8,	9
273	Cell-Electrospinning and Its Application for Tissue Engineering. 2019 , 20,	50
272	Microfluidic devices for disease modeling in muscle tissue. 2019 , 198, 250-258	11
271	Recovery of blood flow regulation in microvascular resistance networks during regeneration of mouse gluteus maximus muscle. 2019 , 597, 1401-1417	5

270	Pre-vascularized dermis model for fast and functional anastomosis with host vasculature. 2019 , 192, 159-170	27
269	Efficiency of coculture with angiogenic cells or physiological BMP-2 administration on improving osteogenic differentiation and bone formation of MSCs. 2019 , 107, 643-653	12
268	Alginate Materials and Dental Impression Technique: A Current State of the Art and Application to Dental Practice. 2018 , 17,	39
267	Thermally-triggered fabrication of cell sheets for tissue engineering and regenerative medicine. 2019 , 138, 276-292	45
266	Vascular Tissue Engineering Using Scaffold-Free Prevascular Endothelial-Fibroblast Constructs. 2019 , 8, 1-15	10
265	Stem-cell based organ-on-a-chip models for diabetes research. 2019 , 140, 101-128	36
264	Myogenesis. 2019 ,	0
263	Coculture Method to Obtain Endothelial Networks Within Human Tissue-Engineered Skeletal Muscle. 2019 , 1889, 169-183	8
262	Bioengineering human vascular networks: trends and directions in endothelial and perivascular cell sources. 2019 , 76, 421-439	25
261	Engineering vascularized skeletal muscle tissue with transcriptional factor ETV2-induced autologous endothelial cells. 2019 , 10, 217-222	6
260	High-Throughput Scaffold System for Studying the Effect of Local Geometry and Topology on the Development and Orientation of Sprouting Blood Vessels. 2020 , 30, 1901335	11
259	Biofabrication of tissue perfusion systems and microvasculatures. 2020 , 205-225	0
258	Skeletal muscle cell transplantation: models and methods. 2020 , 41, 297-311	12
257	A novel decellularized skeletal muscle-derived ECM scaffolding system for in situ muscle regeneration. 2020 , 171, 77-85	21
256	Improving cancer therapy through the nanomaterials-assisted alleviation of hypoxia. 2020 , 228, 119578	82
255	From Engineered Tissues and Microfluidics to Human Eyes-On-A-Chip. 2020 , 36, 4-6	2
254	Combined Effects of Electrical Stimulation and Protein Coatings on Myotube Formation in a Soft Porous Scaffold. 2020 , 48, 734-746	4
253	Vascularized and Innervated Skeletal Muscle Tissue Engineering. 2020 , 9, e1900626	44

252	Vascularization of tissue-engineered skeletal muscle constructs. 2020 , 235, 119708	31
251	Glass-activated regeneration of volumetric muscle loss. 2020 , 103, 306-317	11
250	Vascularization in tissue engineering: fundamentals and state-of-art. 2020 , 2,	40
249	Updates on the applications of iron-based nanoplatforms in tumor theranostics. 2020 , 589, 119815	2
248	Additive manufacturing of trabecular tantalum scaffolds by laser powder bed fusion: Mechanical property evaluation and porous structure characterization. 2020 , 170, 110694	9
247	Embedding cells within nanoscale, rapidly mineralizing hydrogels: A new paradigm to engineer cell-laden bone-like tissue. 2020 , 212, 107636	5
246	Cardiovascular tissue regeneration system based on multiscale scaffolds comprising double-layered hydrogels and fibers. 2020 , 10, 20321	8
245	Advances in biomaterials for skeletal muscle engineering and obstacles still to overcome. 2020 , 7, 100069	18
244	Stem Cell-Based and Tissue Engineering Approaches for Skeletal Muscle Repair. 2020 , 1-62	1
243	An overview of extrusion-based bioprinting with a focus on induced shear stress and its effect on cell viability. 2020 , 20, e00093	29
242	Injectable pre-cultured tissue modules catalyze the formation of extensive functional microvasculature in vivo. 2020 , 10, 15562	5
241	Cultured Meat: Meat Industry Hand in Hand with Biomedical Production Methods. 2020 , 12, 498-519	4
240	Fabrication of Spheroids with Dome-Shaped Endothelial Tube Networks by an Adhesive Culture System. 2020 , 4, e2000120	1
239	Prevascularized Scaffolds Bearing Human Dental Pulp Stem Cells for Treating Complete Spinal Cord Injury. 2020 , 9, e2000974	18
238	Paramagnetic Functionalization of Biocompatible Scaffolds for Biomedical Applications: A Perspective. 2020 , 7,	2
237	Engineering pericyte-supported microvascular capillaries in cell-laden hydrogels using stem cells from the bone marrow, dental pulp and dental apical papilla. 2020 , 10, 21579	8
236	From Grafts to Human Bioengineered Vascularized Skin Substitutes. 2020 , 21,	15
235	The effects of human platelet lysate versus commercial endothelial growth medium on the endothelial differentiation potential of human amniotic fluid mesenchymal stem cells. 2020 , 6, e04873	0

234	Biomimetic Design for Bio-Matrix Interfaces and Regenerative Organs. 2021 , 27, 411-429	1
233	Functional evaluation of prevascularization in one-stage versus two-stage tissue engineering approach of human bio-artificial muscle. 2020 , 12, 035021	7
232	The emerging role of microfluidics in multi-material 3D bioprinting. 2020 , 20, 2044-2056	34
231	Novel Cell-Based and Tissue Engineering Approaches for Induction of Angiogenesis as an Alternative Therapy for Diabetic Retinopathy. 2020 , 21,	3
230	Introductory Chapter: Alginates - A General Overview. 2020 ,	16
229	Melatonin-Based and Biomimetic Scaffold as MuscleECM Implant for Guiding Myogenic Differentiation of Volumetric Muscle Loss. 2020 , 30, 2002378	14
228	Direct-writing Process and in vivo Evaluation of Prevascularized Composite Constructs for Muscle Tissue Engineering Application. 2020 , 17, 457-468	7
227	Sulfated chitosan coated polylactide membrane enhanced osteogenic and vascularization differentiation in MC3T3-E1s and HUVECs co-cultures system. 2020 , 245, 116522	2
226	Guided vascularization in the rat heart leads to transient vessel patterning. 2020 , 4, 016105	4
225	Ectopic transient overexpression of facilitates BMP4-induced osteogenic transdifferentiation of human umbilical vein endothelial cells. 2020 , 11, 2041731420909208	6
224	Collagen Microfibers Induce Blood Capillary Orientation and Open Vascular Lumen. 2020 , 4, e2000038	16
223	Programmable antibiotic delivery to combat methicillin-resistant Staphylococcus aureus through precision therapy. 2020 , 321, 710-717	9
222	Grafting of 3D Bioprinting to In Vitro Drug Screening: A Review. 2020 , 9, e1901773	36
221	Micro/nano-hierarchical scaffold fabricated using a cell electrospinning/3D printing process for co-culturing myoblasts and HUVECs to induce myoblast alignment and differentiation. 2020 , 107, 102-114	40
220	Wholly vascularized millimeter-sized engineered tissues by cell-sized microscaffolds. 2020 , 6, 100054	11
219	Transient Support from Fibroblasts is Sufficient to Drive Functional Vascularization in Engineered Tissues. 2020 , 30, 2003777	19
218	Pre-innervated tissue-engineered muscle promotes a pro-regenerative microenvironment following volumetric muscle loss. 2020 , 3, 330	19
217	Nanoscale 3D Bioprinting for Osseous Tissue Manufacturing. 2020 , 15, 215-226	10

216	Neural cell integration into 3D bioprinted skeletal muscle constructs accelerates restoration of muscle function. 2020 , 11, 1025	70
215	Biofabrication Strategies and Engineered In Vitro Systems for Vascular Mechanobiology. 2020 , 9, e1901255	21
214	Organs-on-a-chip as model systems for multifactorial musculoskeletal diseases. 2020 , 63, 79-88	20
213	From mathematical modeling and machine learning to clinical reality. 2020 , 37-51	3
212	Embryonic stem cells as a cell source for tissue engineering. 2020 , 467-490	5
211	Cultured meat – humane meat production system. 2020 , 1369-1388	4
210	Textured soy protein scaffolds enable the generation of three-dimensional bovine skeletal muscle tissue for cell-based meat. 2020 , 1, 210-220	66
209	Rapid prototyping fabrication of soft and oriented polyester scaffolds for axonal guidance. 2020 , 251, 120062	21
208	Effects of External Stimulators on Engineered Skeletal Muscle Tissue Maturation. 2021 , 8, 2001167	16
207	Strategies for re-vascularization and promotion of angiogenesis in trauma and disease. 2021 , 269, 120628	13
206	Computer-Aided Tissue Engineering. 2021 ,	
205	Rapid Fabrication of Cell-Laden Microfibers for Construction of Aligned Biomimetic Tissue. 2020 , 8, 610249	3
204	In Vitro and In Vivo Approaches for Prevascularization of Three-Dimensional Engineered Tissues. 2021 , 449-474	
203	Microsurgical Approaches for In Vivo Prevascularization. 2021 , 503-520	
202	Cell-Laden Gradient Hydrogel Scaffolds for Neovascularization of Engineered Tissues. 2021 , 10, e2001706	2
201	Future Directions and Requirements for Tissue Engineering Biomaterials. 2021 , 195-195	2
200	Stem Cell-Based and Tissue Engineering Approaches for Skeletal Muscle Repair. 2021 , 429-488	
199	Co-culture Systems for Vasculogenesis. 2021 , 385-413	

198	Angiogenesis: Basics of Vascular Biology. 2021 , 3-31	1
197	From Autologous Flaps to Engineered Vascularized Grafts for Bone Regeneration. 2021 , 521-554	
196	Microvascular Networks and Models: In Vitro Formation. 2021 , 345-383	0
195	Fabrication and characterization of alginate-based green materials. 2021 , 85-108	
194	Application of Adipose-Derived Stem Cells in Treatment of Bone Tissue Defects.	1
193	Engineering Human Cardiac Muscle Patch Constructs for Prevention of Post-infarction LV Remodeling. 2021 , 8, 621781	6
192	Regenerative Medicine Under the Control of 3D Scaffolds: Current State and Progress of Tissue Scaffolds. 2021 , 16, 209-229	5
191	Tissue-Engineered Skeletal Muscle Models to Study Muscle Function, Plasticity, and Disease. 2021 , 12, 619710	5
190	Recent advances in 3D bioprinting of musculoskeletal tissues. 2020 ,	17
189	Integrating biomaterials and food biopolymers for cultured meat production. 2021 , 124, 108-129	18
188	Engineered aligned endothelial cell structures in tethered collagen hydrogels promote peripheral nerve regeneration. 2021 , 126, 224-237	12
187	3D bioprinting of prevascularised implants for the repair of critically-sized bone defects. 2021 , 126, 154-169	20
186	Current Strategies for the Regeneration of Skeletal Muscle Tissue. 2021 , 22,	4
185	Engineering skeletal muscle: Building complexity to achieve functionality. 2021 , 119, 61-69	2
184	Functionalizing biomaterials to promote neurovascular regeneration following skeletal muscle injury. 2021 , 320, C1099-C1111	1
183	3D Collagen Hydrogel Promotes In Vitro Langerhans Islets Vascularization through ad-MVFs Angiogenic Activity. 2021 , 9,	1
182	Composite Materials by Building Block Chemistry Using Weak Interaction. 2021 , 94, 1903-1921	6
181	Effect of Pore Size of Honeycomb-Patterned Polymer Film on Spontaneous Formation of 2D Micronetworks by Coculture of Human Umbilical Vein Endothelial Cells and Mesenchymal Stem Cells. 2021 , 21, e2100113	3

180	meat: a promising solution for sustainability of meat sector. 2021 , 63, 693-724	4
179	Technical requirements for cultured meat production: a review. 2021 , 63, 681-692	3
178	Bioengineering approaches to treat the failing heart: from cell biology to 3D printing. 2021 ,	7
177	Methacrylic acid-based hydrogels enhance skeletal muscle regeneration after volumetric muscle loss in mice. 2021 , 275, 120909	5
176	Colonization versus encapsulation in cell-laden materials design: porosity and process biocompatibility determine cellularization pathways. 2021 , 379, 20200344	3
175	Spheroid Coculture of Human Gingiva-Derived Progenitor Cells With Endothelial Cells in Modified Platelet Lysate Hydrogels. 2021 , 9, 739225	2
174	Adipogenic Differentiation Alters Properties of Vascularized Tissue-Engineered Skeletal Muscle. 2021 ,	0
173	Implantable Microfluidic Device: An Epoch of Technology. 2021 ,	
172	3D Bioprinting of Engineered Tissue Flaps with Hierarchical Vessel Networks (VesselNet) for Direct Host-To-Implant Perfusion. 2021 , 33, e2102661	11
171	Bioprinted hASC-laden structures with cell-differentiation niches for muscle regeneration. 2021 , 419, 129570	6
170	Biofabrication of 3D Human Muscle Model with Vascularization and Endomysium. 2022 , 2373, 213-230	0
169	Replace and repair: Biomimetic bioprinting for effective muscle engineering. 2021 , 5, 031502	4
168	Biofabrication of natural hydrogels for cardiac, neural, and bone Tissue engineering Applications. 2021 , 6, 3904-3923	29
167	Cardiac Fibroblast and Cardiomyocyte Growth. 2021 , 41-53	0
166	Advanced Hybrid Conducting Polymers: Tissue Engineering Aspects. 2021 , 249-269	1
165	Chapter 17: Clinical Application and Regulation of Bioprinting Biomaterials Focusing on Hydrogels. 2021 , 409-438	
164	PEG/HA Hybrid Hydrogels for Biologically and Mechanically Tailorable Bone Marrow Organoids. 2020 , 30, 1910282	20
163	Tissue Engineering for Facial Reconstruction. 2011 , 447-462	2

162	Bioprinting of Complex Vascularized Tissues. 2021 , 2147, 163-173	0
161	Hepatic Tissue Engineering. 2011 , 321-342	5
160	Cell tri-culture for cardiac vascularization. 2014 , 1181, 131-7	14
159	Magnetically actuated alginate scaffold: a novel platform for promoting tissue organization and vascularization. 2014 , 1181, 83-95	14
158	Embryonic Stem Cells for Myocardial Repair. 2007 , 101-114	1
157	Tissue Engineering Strategies for Cardiac Regeneration. 2011 , 443-475	1
156	Engineering Functional Bone Grafts. 2011 , 221-235	3
155	In Vitro and In Vivo Approaches for Pre-vascularization of 3-Dimensional Engineered Tissues. 2017 , 1-27	2
154	Co-Culture Systems for Vasculogenesis. 2017 , 1-29	4
153	Three-Dimensional Bioprinting in Regenerative Medicine. 2015 , 109-122	1
152	Muscle Tissue Engineering. 2009 , 243-253	2
151	Tissue Engineering Application in General Surgery. 2009 , 855-867	1
150	Biomaterials Approaches in Vascular Engineering: a Review of Past and Future Trends. 2011 , 457-487	1
149	Medical Applications of Cell Sheet Engineering. 2011 , 405-419	2
148	Nanofiber composites in skeletal muscle tissue engineering. 2017 , 369-394	3
147	Bioprinting of 3D in vitro skeletal muscle models: A review. 2020 , 193, 108794	27
146	Development of a Tough, Self-Healing Polyampholyte Terpolymer Hydrogel Patch with Enhanced Skin Adhesion via Tuning the Density and Strength of Ion-Pair Associations. 2021 , 13, 8889-8900	6
145	Chapter 9:3D Tissue Modelling of Skeletal Muscle Tissue. 2019 , 184-215	2

144	Osteopontin sequence modified mesoporous calcium silicate scaffolds to promote angiogenesis in bone tissue regeneration. 2020 , 8, 5849-5861	8
143	In Vivo Pulmonary Tissue Engineering: Contribution of Donor-Derived Endothelial Cells to Construct Vascularization*. 110306233438005	1
142	The Influence of Serum-Free Culture Conditions on Skeletal Muscle Differentiation in a Tissue-Engineered Model. 2008 , 14, 161-171	2
141	Tissue Engineering by Self-Assembly of Cells Printed into Topologically Defined Structures. 110306233438005	5
140	Vascular Endothelial Growth Factor Induction of Muscle-Derived Stem Cells Enhances Vascular Phenotype While Preserving Myogenic Potential. 2017 , 79, 404-409	5
139	Integrating Engineered Macro Vessels with Self-assembled Capillaries in 3D Implantable Tissue for Promoting Vascular Integration In-vivo.	1
138	Pre-Innervated Tissue Engineered Muscle Promotes a Pro-Regenerative Microenvironment Following Volumetric Muscle Loss.	2
137	In Vivo Vascularization for Large-Volume Soft Tissue Engineering. 2014 , 343-362	1
136	In vitro model of vascularized bone: synergizing vascular development and osteogenesis. 2011 , 6, e28352	90
135	Engineered vascular beds provide key signals to pancreatic hormone-producing cells. 2012 , 7, e40741	47
134	Endothelial differentiation of mesenchymal stromal cells. 2012 , 7, e46842	136
133	Vascularized Organoids: A More Complete Model. 2021 , 14, 127-137	5
132	Tissue Engineering: Challenges and Selected Application. 2017 , 3,	2
131	Strategies for vascularization of polymer scaffolds. 2010 , 58, 838-44	13
130	Animal-free Meat Biofabrication. 2011 , 6, 441-459	43
129	Imaging Approaches in Functional Assessment of Implantable Myogenic Biomaterials and Engineered Muscle Tissue. 2015 , 25, 4847	13
128	A novel strategy for engineering vascularized grafts in vitro. 2010 , 2, 93-6	3
127	Differentiation of umbilical cord lining membrane-derived mesenchymal stem cells into endothelial-like cells. 2014 , 18, 67-75	18

- 126 Recent Applications of Polymeric Biomaterials and Stem Cells in Tissue Engineering and Regenerative Medicine. **2014**, 38, 113-128 6
- 125 Cell-assembled extracellular matrix (CAM): a human biopaper for the biofabrication of pre-vascularized tissues able to connect to the host circulation. **2021**, 14, 0
- 124 Engineering injectable vascularized tissues from the bottom-up: Dynamics of in-gel extra-spheroid dermal tissue assembly. **2021**, 279, 121222 1
- 123 Spatiotemporally controlled, aptamers-mediated growth factor release locally manipulates microvasculature formation within engineered tissues.. **2022**, 12, 71-84 1
- 122 The Usages and Potential Uses of Alginate for Healthcare Applications. **2021**, 8, 719972 4
- 121 Bionic grandma. **2005**, 2005, ns3
- 120 Mesenchymal Stem Cells Enhance Angiogenesis in Mechanically Viable Prevascularized Tissues via Early Matrix Metalloproteinase Upregulation. **2006**, 060928131519005
- 119 Current State of the Art in Myocardial Tissue Engineering. **2007**, 070126052142001
- 118 Tissue-Engineered Cardiovascular Products. **2007**, 1237-1251
- 117 Cardiac Tissue. **2008**, 1038-1059
- 116 Endothelial CellMatrix Interactions in Neovascularization. 110306233438005
- 115 Nanotechnologies for Cardiovascular Tissue Engineering. **2008**, 311-328
- 114 MSC Therapy in Animal Models and in Regenerative Medicine for Human Diseases. **2009**, 245-266
- 113 Muscle Regeneration: Research for the Treatment of Fecal Incontinence. **2010**, 26, 1 3
- 112 What Should We Print? Emerging Principles to Rationally Design Tissues Prone to Self-Organization. **2010**, 163-171
- 111 Endothelial Progenitor Cells for Tissue Engineering and Tissue Regeneration. **2010**, 45-54
- 110 Chapter 13. Stem Cell-based Replacement Tissue for Heart Repair. **2010**, 273-295
- 109 Tissue Engineering for Stem Cell Mediated Regenerative Medicine. 377-399

108 Hypoxia and Matrix Manipulation for Vascular Engineering. **2011**, 127-165

107 Skeletal Muscle Engineering: The Need for a Suitable Niche. **2011**, 197-209

106 Skeletal Muscle Stem Cells. **2011**, 347-363

105 Embryonic Stem Cells. **2011**, 3-30

104 Angiogenesis control in spine regeneration. **2012**, 510-537e

103 Endothelialization of Acellular Porcine ECM with Chemical Modification. **2012**, 363-368

o

102 The Potential Use of Three-Dimensional Cellular Multilayers as a Blood Vessel Model. **2014**, 95-129

101 Biomaterials as Artificial Niches for Pluripotent Stem Cell Engineering. 21-43

100 Tissue Engineering for Facial Plastic Surgery. **2014**, 1105-1132

99 Microenvironment Applications. 4652-4670

98 Biomedical Advances in Three Dimensions: An Overview of Human Cellular Studies in Space and Spaceflight Analogues. **2016**, 83-92

97 Skeletal Muscle Culture Under Spaceflight Conditions. **2016**, 151-174

96 Angiogenesis: Basics of Vascular Biology. **2016**, 1-29

o

95 In Vitro Vascularization: Tissue Engineering Constructs. 4043-4062

94 From Autologous Flaps to Engineered Vascularized Grafts for Bone Regeneration. **2017**, 1-34

93 Biotechnological Potential of Stem Cells. **2017**, 3,

1

92 Wachstumsfaktoren unter besonderer Berücksichtigung des muskuloskelettalen Systems. **2018**, 171-228

91 In vitro Vascularization: Tissue Engineering Constructs. **2017**, 723-742

- 90 Current Developments and Future Perspectives of Tissue Engineering and Regenerative Medicine. **2018**, 3-14
- 89 Bioreactors for Regenerative Medicine in Urology. **2018**, 87-104
- 88 Microvascular Networks and Models, In vitro Formation. **2018**, 1-40
- 87 Hypoxia and Matrix Manipulation for Vascular Engineering. **2018**, 73-119
- 86 Angiogenesis mechanisms in transplantation of tissue-engineered constructions. **2018**, 19, 141-145
- 85 Vascularization in Oral and Maxillofacial Tissue Engineering. **2019**, 97-122
- 84 The Effect Of Ankaferd Blood Stopper As A Drug On Human Umbilical Vein Endothelial Cell Culture (Huvec).
- 83 Recovery of cryo-injured rabbit urethras by biofabricated C-shaped adipose-derived mesenchymal cell structures.
- 82 Engineered Aligned Endothelial Cell Structures in Tethered Collagen Hydrogels Promote Peripheral Nerve Regeneration.
- 81 In vitro disease and organ model. **2020**, 629-668
- 80 Vascularization of 3D Engineered Tissues. **2020**, 1-18
- 79 Vascularization of 3D Engineered Tissues. **2020**, 469-486
- 78 Musculoskeletal regenerative nanomedicine: Current therapies, translational hurdles, and future directions. **2020**, 237-272
- 77 Regenerative Engineering: Current Applications and Future Perspectives. **2021**, 8, 731031 1
- 76 Scaffold biomaterials and nano-based therapeutic strategies for skeletal muscle regeneration. **2021**, 16, 2521-2538
- 75 Impact of Electrospun Biomimetic Extracellular Environment on Proliferation and Intercellular Communication of Muscle Precursor Cells. 247-265
- 74 Bioengineering to enhance progenitor cell therapeutics. **2009**, 36, 140-4 5
- 73 Prevascularized mesenchymal stem cell-sheets increase survival of random skin flaps in a nude mouse model. **2019**, 11, 1403-1416 9

72	Role of Vascular Endothelial Growth Factor and Human Umbilical Vein Endothelial Cells in Designing An Vascular-Muscle Cellular Model Using Adipose-Derived Stem Cells. 2020 , 22, 19-28	
71	Integrating engineered macro vessels with self-assembled capillaries in 3D implantable tissue for promoting vascular integration in-vivo. 2021 , 280, 121286	4
70	Recent advances on bioengineering approaches for fabrication of functional engineered cardiac pumps: A review. 2021 , 280, 121298	7
69	Pro-angiogenic approach for skeletal muscle regeneration. 2021 , 1866, 130059	1
68	Scaffolding Biomaterials for 3D Cultivated Meat: Prospects and Challenges. 2021 , 9, e2102908	10
67	Engineered Customizable Microvessels for Progressive Vascularization in Large Regenerative Implants. 2021 , e2101836	0
66	A strategy to engineer vascularized tissue constructs by optimizing and maintaining the geometry. 2021 ,	1
65	Nano-sized graphene oxide coated nanopillars on microgroove polymer arrays that enhance skeletal muscle cell differentiation. 2021 , 8, 40	5
64	GelMA-Alginate Core-Shell Microcapsules as Efficient Delivery Platform For Prevascularized Microtissues in Endodontic Regeneration.	
63	Exploring the potential of stem cell-based therapy for aesthetic and plastic surgery.. 2021 , PP,	
62	The Application of Nanomaterial in Skeletal Muscle Regeneration. 2021 , 37-85	
61	The Role of Biomaterials in Peripheral Nerve and Spinal Cord Injury: A Review.. 2022 , 23,	3
60	Gelatin Methacrylate Hydrogel for Tissue Engineering Applications-A Review on Material Modifications.. 2022 , 15,	4
59	Support Bath-Free Vertical Extrusion Cryo(bio)printing for Anisotropic Tissue Manufacturing.. 2021 , e2108931	6
58	Development of a Novel Microfluidic Co-culture model to study Organoid Vascularization.	
57	Cell-Seeded Biomaterial Scaffolds: The Urgent Need for Unanswered Accelerated Angiogenesis.. 2022 , 17, 1035-1068	1
56	Gelatin methacryloyl-alginate core-shell microcapsules as efficient delivery platforms for prevascularized microtissues in endodontic regeneration.. 2022 ,	5
55	Myoblast 3D bioprinting to burst in vitro skeletal muscle differentiation.. 2022 ,	3

54	The Evolution of Complex Muscle Cell In Vitro Models to Study Pathomechanisms and Drug Development of Neuromuscular Disease.. 2022 , 11,	
53	Immunoengineering strategies to enhance vascularization and tissue regeneration.. 2022 , 184, 114233	1
52	Heterotypic Multicellular Spheroids as Experimental and Preclinical Models of Sprouting Angiogenesis.. 2021 , 11,	0
51	Microcomputed Tomography-Based Analysis of Neovascularization within Bioengineered Vascularized Tissues.. 2021 ,	2
50	Consumer Acceptance and Production of In Vitro Meat: A Review. 2022 , 14, 4910	
49	Data_Sheet_1.PDF. 2018 ,	
48	Data_Sheet_2.PDF. 2018 ,	
47	Image_1.JPEG. 2018 ,	
46	Image_2.JPEG. 2018 ,	
45	Table_1.pdf. 2018 ,	
44	Image_1.TIF. 2018 ,	
43	Table_1.docx. 2018 ,	
42	Video_1.MOV. 2018 ,	
41	Bioengineered Hierarchical Bonelike Compartmentalized Microconstructs Using Nanogrooved Microdiscs.. 2022 ,	0
40	Hydrogel Scaffolds Based on Alginate, Gelatin, and 2-Hydroxyethyl Methacrylate for Tissue Regeneration. 2022 , 173-204	
39	3D Bioprinting of Human Hollow Organs.. 2022 , 23, 139	2
38	Cellular orientational fluctuations, rotational diffusion and nematic order under periodic driving.	0
37	Engineering the multiscale complexity of vascular networks.	0

36	Contractile force assessment methods for in vitro skeletal muscle tissues. 11,	0
35	Biomimetic Surface Topography from the <i>Rubus fruticosus</i> Leaf as a Guidance of Angiogenesis in Tissue Engineering Applications.	0
34	Introduction. 2022 , 1-15	
33	Cell patterning. 2022 , 347-382	
32	Angiogenesis and vasculogenesis: Status in tissue engineering. 2022 , 1-13	
31	Construction and Properties of Simvastatin and Calcium Phosphate Dual-Loaded Coaxial Fibrous Membranes with Osteogenic and Angiogenic Functions.	
30	Borate Bioactive Glasses (BBG): Bone Regeneration, Wound Healing Applications, and Future Directions.	1
29	Temporal Control over Macrophage Phenotype and the Host Response via Magnetically Actuated Scaffolds.	
28	Tri-culture of spatially organizing human skeletal muscle cells, endothelial cells, and fibroblasts enhances contractile force and vascular perfusion of skeletal muscle tissues. 2022 , 36,	0
27	Harvest of quality-controlled bovine myogenic cells and biomimetic bovine muscle tissue engineering for sustainable meat production. 2022 , 287, 121649	1
26	Biomaterial-based 3D bioprinting strategy for orthopedic tissue engineering. 2022 ,	2
25	Advancing Engineered Heart Muscle Tissue Complexity with Hydrogel Composites. 2200067	1
24	Amniotic Membrane Scaffolds Support Organized Muscle Regeneration in A Murine Volumetric Muscle Defect Model. 2022 , 10, e4499	0
23	Efficient co-isolation of microvascular endothelial cells and satellite cell-derived myoblasts from human skeletal muscle. 10,	0
22	Inflammatory Immune Responses Trigger Rejection of Allogeneic Fibroblasts Transplanted into Mouse Skin. 2022 , 31, 096368972211138	0
21	Cellular orientational fluctuations, rotational diffusion and nematic order under periodic driving. 2022 , 18, 7091-7102	0
20	Multiscale engineered human skeletal muscles with perfusable vasculature and microvascular network recapitulating the fluid compartments.	0
19	Preclinical research studies for treating severe muscular injuries: focus on tissue-engineered strategies. 2022 ,	0

- 18 Isolation of ready-made rat microvessels and its applications in effective in vivo vascularization and in angiogenic studies in vitro. ○
- 17 Translating musculoskeletal bioengineering into tissue regeneration therapies. **2022**, 14, ○
- 16 Harnessing the synergy of perfusable muscle flap matrix and adipose-derived stem cells for prevascularization and macrophage polarization to reconstruct volumetric muscle loss. **2023**, 22, 588-614 ○
- 15 Conducting Polymers: A Versatile Material for Biomedical Applications. **2022**, 7, ○
- 14 Organotypic cultures as aging associated disease models. **2022**, 14, 9338-9383 1
- 13 3D soft tissue printing from vision to reality Review of current concepts. ○
- 12 Engineering transplantable human lymphatic and blood capillary networks in a porous scaffold. **2022**, 13, 204173142211409 1
- 11 3D bioprinting vascular networks in suspension baths. **2023**, 30, 101729 ○
- 10 Hydrogel-Based Tissue-Mimics for Vascular Regeneration and Tumor Angiogenesis. **2023**, 143-180 ○
- 9 The Current Status, Prospects, and Challenges of Shape Memory Polymers Application in Bone Tissue Engineering. **2023**, 15, 556 ○
- 8 Recent Advances in Cell Sheet Engineering: From Fabrication to Clinical Translation. **2023**, 10, 211 ○
- 7 Highly Parallel Tissue Grafting for Combinatorial In Vivo Screening. ○
- 6 Spatial control of self-organizing vascular networks with programmable aptamer-tethered growth factor photopatterning. **2023**, 19, 100551 ○
- 5 Engineering branching morphogenesis using cell communication. **2023**, 30, e00261 ○
- 4 Engineered tissue vascularization and engraftment depends on host model. **2023**, 13, ○
- 3 Construction of Engineered Muscle Tissue Consisting of Myotube Bundles in a Collagen Gel Matrix. **2023**, 9, 141 ○
- 2 Tumor Therapy Strategies Based on Microenvironment-Specific Responsive Nanomaterials. ○
- 1 In vitro angiogenesis in response to biomaterial properties for bone tissue engineering: a review of the state of the art. **2023**, 10, ○

