Yasuhiko Tabata

List of Publications by Citations

349 papers	12,857 citations	58 h-index	103 g-index
372 ext. papers	14,483 ext. citations	5.5 avg, IF	6.71 L-index

#	Paper	IF	Citations
349	Gelatin as a delivery vehicle for the controlled release of bioactive molecules. *Journal of Controlled Release*, **2005**, 109, 256-74	11.7	820
348	Protein release from gelatin matrices. *Advanced Drug Delivery Reviews*, **1998**, 31, 287-301	18.5	677
347	Controlled release of growth factors based on biodegradation of gelatin hydrogel. *Journal of Biomaterials Science, Polymer Edition*, **2001**, 12, 77-88	3.5	322
346	Tissue regeneration based on growth factor release. *Tissue Engineering*, **2003**, 9 Suppl 1, S5-15		300
345	Vascularization effect of basic fibroblast growth factor released from gelatin hydrogels with different biodegradabilities. *Biomaterials*, **1999**, 20, 2169-75	15.6	284
344	Osteogenic differentiation of mesenchymal stem cells in biodegradable sponges composed of gelatin and beta-tricalcium phosphate. *Biomaterials*, **2005**, 26, 3587-96	15.6	264
343	Biodegradation of hydrogel carrier incorporating fibroblast growth factor. *Tissue Engineering*, **1999**, 5, 127-38		245
342	Accelerated tissue regeneration through incorporation of basic fibroblast growth factor-impregnated gelatin microspheres into artificial dermis. *Biomaterials*, **2000**, 21, 489-99	15.6	240
341	Adipose tissue engineering based on human preadipocytes combined with gelatin microspheres containing basic fibroblast growth factor. *Biomaterials*, **2003**, 24, 2513-21	15.6	226
340	Biomaterial technology for tissue engineering applications. *Journal of the Royal Society Interface*, **2009**, 6 Suppl 3, S311-24	4.1	225
339	Coupling of bone resorption and formation by RANKL reverse signalling. *Nature*, **2018**, 561, 195-200	50.4	221
338	4D printing of polymeric materials for tissue and organ regeneration. *Materials Today*, **2017**, 20, 577-591	21.8	200
337	Bone regeneration by basic fibroblast growth factor complexed with biodegradable hydrogels. *Biomaterials*, **1998**, 19, 807-15	15.6	186
336	Controlled delivery of basic fibroblast growth factor promotes human cardiosphere-derived cell engraftment to enhance cardiac repair for chronic myocardial infarction. *Journal of the American College of Cardiology*, **2008**, 52, 1858-1865	15.1	186
335	Macrophage phagocytosis of biodegradable microspheres composed of L-lactic acid/glycolic acid homo- and copolymers. *Journal of Biomedical Materials Research Part B*, **1988**, 22, 837-58		176
334	Neovascularization effect of biodegradable gelatin microspheres incorporating basic fibroblast growth factor. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 79-94	3.5	175
333	Photodynamic effect of polyethylene glycol-modified fullerene on tumor. *Japanese Journal of Cancer Research*, **1997**, 88, 1108-16		173

332	Controlled release of plasmid DNA from cationized gelatin hydrogels based on hydrogel degradation. *Journal of Controlled Release*, **2002**, 80, 333-43	11.7	144
331	Acceleration of fracture healing in nonhuman primates by fibroblast growth factor-2. *Journal of Clinical Endocrinology and Metabolism*, **2001**, 86, 875-80	5.6	143
330	De novo formation of adipose tissue by controlled release of basic fibroblast growth factor. *Tissue Engineering*, **2000**, 6, 279-89		139
329	Synthesis of gelatin microspheres containing interferon. *Pharmaceutical Research*, **1989**, 6, 422-7	4.5	134
328	Prevascularization with gelatin microspheres containing basic fibroblast growth factor enhances the benefits of cardiomyocyte transplantation. *Journal of Thoracic and Cardiovascular Surgery*, **2002** , 124, 50-6	1.5	131
327	Size effect on systemic and mucosal immune responses induced by oral administration of biodegradable microspheres. *Vaccine*, **1996**, 14, 1677-85	4.1	127
326	Enhanced angiogenesis by multiple release of platelet-rich plasma contents and basic fibroblast growth factor from gelatin hydrogels. *Acta Biomaterialia*, **2012**, 8, 1792-801	10.8	120
325	In vitro toxicity test of 2-cyanoacrylate polymers by cell culture method. *Journal of Biomedical Materials Research Part B*, **1990**, 24, 1355-67		113
324	Dual growth factor delivery from bilayered, biodegradable hydrogel composites for spatially-guided osteochondral tissue repair. *Biomaterials*, **2014**, 35, 8829-8839	15.6	112
323	Preparation of stem cell aggregates with gelatin microspheres to enhance biological functions. *Acta Biomaterialia*, **2011**, 7, 2797-803	10.8	108
322	Bile salts secretion in cirrhosis. *Tissue Engineering*, **1977**, 24, 15-9		108
321	Comparison of body distribution of poly(vinyl alcohol) with other water-soluble polymers after intravenous administration. *Journal of Pharmacy and Pharmacology*, **1995**, 47, 479-86	4.8	107
320	A novel approach to therapeutic angiogenesis for patients with critical limb ischemia by sustained release of basic fibroblast growth factor using biodegradable gelatin hydrogel: an initial report of the phase I-IIa study. *Circulation Journal*, **2007**, 71, 1181-6	2.9	105
319	Controlled release of vascular endothelial growth factor by use of collagen hydrogels. *Journal of Biomaterials Science, Polymer Edition*, **2000**, 11, 915-30	3.5	105
318	Potential efficacy of basic fibroblast growth factor incorporated in biodegradable hydrogels for skull bone regeneration. *Journal of Neurosurgery*, **1997**, 86, 871-5	3.2	98
317	In situ regeneration of adipose tissue in rat fat pad by combining a collagen scaffold with gelatin microspheres containing basic fibroblast growth factor. *Tissue Engineering*, **2006**, 12, 1475-87		97
316	In vitro sorption and desorption of basic fibroblast growth factor from biodegradable hydrogels. *Biomaterials*, **1998**, 19, 1781-9	15.6	96
315	In vivo degradability of hydrogels prepared from different gelatins by various cross-linking methods. *Journal of Biomaterials Science, Polymer Edition*, **2005**, 16, 549-61	3.5	95

314	Injectable dual-gelling cell-laden composite hydrogels for bone tissue engineering. *Biomaterials*, **2016**, 83, 1-11	15.6	94
313	Significance of release technology in tissue engineering. *Drug Discovery Today*, **2005**, 10, 1639-46	8.8	87
312	Controlled release of stromal-cell-derived factor-1 from gelatin hydrogels enhances angiogenesis. *Journal of Biomaterials Science, Polymer Edition*, **2010**, 21, 37-51	3.5	85
311	Body distribution profile of polysaccharides after intravenous administration. *Drug Delivery*, **1993**, 1, 75-82	7	85
310	Mesenchymal stem cell-based drug delivery strategy: from cells to biomimetic. *Journal of Controlled Release*, **2019**, 294, 102-113	11.7	85
309	Immunosuppressive effect of mesenchymal stem cell-derived exosomes on a concanavalin A-induced liver injury model. *Inflammation and Regeneration*, **2016**, 36, 26	10.9	78
308	Novel therapy for hearing loss: delivery of insulin-like growth factor 1 to the cochlea using gelatin hydrogel. *Otology and Neurotology*, **2007**, 28, 976-81	2.6	75
307	Dual-controlled release system of drugs for bone regeneration. *Advanced Drug Delivery Reviews*, **2015**, 94, 28-40	18.5	74
306	Tumor accumulation of poly(vinyl alcohol) of different sizes after intravenous injection. *Journal of Controlled Release*, **1998**, 50, 123-33	11.7	72
305	Topical insulin-like growth factor 1 treatment using gelatin hydrogels for glucocorticoid-resistant sudden sensorineural hearing loss: a prospective clinical trial. *BMC Medicine*, **2010**, 8, 76	11.4	70
304	Evaluation of Insulin Secretion of Isolated Rat Islets Cultured in Extracellular Matrix. *Cell Transplantation*, **2001**, 10, 447-451	4	70
303	Controlled release of hepatocyte growth factor from gelatin hydrogels based on hydrogel degradation. *Journal of Drug Targeting*, **2001**, 9, 461-71	5.4	69
302	Augmented liver targeting of exosomes by surface modification with cationized pullulan. *Acta Biomaterialia*, **2017**, 57, 274-284	10.8	68
301	Chronic vocal fold scar restoration with hepatocyte growth factor hydrogel. *Laryngoscope*, **2010**, 120, 108-13	3.6	65
300	Homogeneous seeding of mesenchymal stem cells into nonwoven fabric for tissue engineering. *Tissue Engineering*, **2003**, 9, 931-8		65
299	Evaluation of cell-laden polyelectrolyte hydrogels incorporating poly(L-Lysine) for applications in cartilage tissue engineering. *Biomaterials*, **2016**, 83, 332-46	15.6	64
298	A MnO Nanoparticle-Dotted Hydrogel Promotes Spinal Cord Repair Regulating Reactive Oxygen Species Microenvironment and Synergizing with Mesenchymal Stem Cells. *ACS Nano*, **2019**, 13, 14283-14293	16.7	62
297	Peptide-Tethered Hydrogel Scaffold Promotes Recovery from Spinal Cord Transection via Synergism with Mesenchymal Stem Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 3330-3342	9.5	61

296	Macrophage activation through phagocytosis of muramyl dipeptide encapsulated in gelatin microspheres. *Journal of Pharmacy and Pharmacology*, **1987**, 39, 698-704	4.8	61
295	Comparison of bone regeneration in a rabbit skull defect by recombinant human BMP-2 incorporated in biodegradable hydrogel and in solution. *Journal of Biomaterials Science, Polymer Edition*, **1998**, 9, 1001-14	3.5	61
294	Neural Stem Cells Transfected with Reactive Oxygen Species-Responsive Polyplexes for Effective Treatment of Ischemic Stroke. *Advanced Materials*, **2019**, 31, e1807591	24	61
293	Ectopic bone formation induced by biodegradable hydrogels incorporating bone morphogenetic protein. *Journal of Biomaterials Science, Polymer Edition*, **1998**, 9, 439-58	3.5	60
292	Effects of basic fibroblast growth factor on experimental diabetic neuropathy in rats. *Diabetes*, **2006**, 55, 1470-7	0.9	60
291	Synergistic effects of co-administration of suicide gene expressing mesenchymal stem cells and prodrug-encapsulated liposome on aggressive lung melanoma metastases in mice. *Journal of Controlled Release*, **2015**, 209, 260-71	11.7	58
290	Gene recombinant bone marrow mesenchymal stem cells as a tumor-targeted suicide gene delivery vehicle in pulmonary metastasis therapy using non-viral transfection. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 257-67	6	58
289	Gelatin nanospheres incorporating siRNA for controlled intracellular release. *Biomaterials*, **2012**, 33, 9097-104	15.6	56
288	Combination of hybrid peptide with biodegradable gelatin hydrogel for controlled release and enhancement of anti-tumor activity in vivo. *Journal of Controlled Release*, **2014**, 176, 1-7	11.7	55
287	Efficient long-term survival of cell grafts after myocardial infarction with thick viable cardiac tissue entirely from pluripotent stem cells. *Scientific Reports*, **2015**, 5, 16842	4.9	55
286	Intra-articular administration of gelatin hydrogels incorporating rapamycin-micelles reduces the development of experimental osteoarthritis in a murine model. *Biomaterials*, **2014**, 35, 9904-9911	15.6	54
285	In vitro proliferation and chondrogenic differentiation of rat bone marrow stem cells cultured with gelatin hydrogel microspheres for TGF-beta1 release. *Journal of Biomaterials Science, Polymer Edition*, **2010**, 21, 609-21	3.5	54
284	Effects of bFGF incorporated into a gelatin sheet on wound healing. *Journal of Biomaterials Science, Polymer Edition*, **2005**, 16, 893-907	3.5	52
283	Dual release of growth factor from nanocomposite fibrous scaffold promotes vascularisation and bone regeneration in rat critical sized calvarial defect. *Acta Biomaterialia*, **2018**, 78, 36-47	10.8	51
282	Three-Dimensional Culture System of Cancer Cells Combined with Biomaterials for Drug Screening. *Cancers*, **2020**, 12,	6.6	50
281	Promoted bone healing at a rabbit skull gap between autologous bone fragment and the surrounding intact bone with biodegradable microspheres containing transforming growth factor-beta1. *Tissue Engineering*, **2000**, 6, 331-40		49
280	Liver targeting of interferon through pullulan conjugation. *Pharmaceutical Research*, **1996**, 13, 1846-50	4.5	49
279	Protein precoating of polylactide microspheres containing a lipophilic immunopotentiator for enhancement of macrophage phagocytosis and activation. *Pharmaceutical Research*, **1989**, 6, 296-301	4.5	49

278	Generation of osteochondral tissue constructs with chondrogenically and osteogenically predifferentiated mesenchymal stem cells encapsulated in bilayered hydrogels. *Acta Biomaterialia*, **2014**, 10, 1112-23	10.8	47
277	Complete tissue coverage achieved by scaffold-based tissue engineering in the fetal sheep model of Myelomeningocele. *Biomaterials*, **2016**, 76, 133-43	15.6	46
276	Chitosan-aluminum monostearate composite sponge dressing containing asiaticoside for wound healing and angiogenesis promotion in chronic wound. *Materials Science and Engineering C*, **2015**, 50, 210-25	8.3	46
275	Tumor accumulation of poly(ethylene glycol) with different molecular weights after intravenous injection. *Drug Delivery*, **1997**, 4, 23-31	7	46
274	Controlled release of plasmid DNA from hydrogels prepared from gelatin cationized by different amine compounds. *Journal of Controlled Release*, **2006**, 112, 249-56	11.7	44
273	Effect of culture substrates and fibroblast growth factor addition on the proliferation and differentiation of rat bone marrow stromal cells. *Tissue Engineering*, **2004**, 10, 995-1005		44
272	Initial bone regeneration around fenestrated implants in Beagle dogs using basic fibroblast growth factor-gelatin hydrogel complex with varying biodegradation rates. *Journal of Prosthodontic Research*, **2009**, 53, 41-7	4.3	43
271	Vascularization into a porous sponge by sustained release of basic fibroblast growth factor. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 957-68	3.5	43
270	Cross-linking of amniotic membranes. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 1171-81	3.5	43
269	Safety and efficacy of sustained release of basic fibroblast growth factor using gelatin hydrogel in patients with critical limb ischemia. *Heart and Vessels*, **2016**, 31, 713-21	2.1	41
268	Combination of BMP-2-releasing gelatin/□TCP sponges with autologous bone marrow for bone regeneration of X-ray-irradiated rabbit ulnar defects. *Biomaterials*, **2015**, 56, 18-25	15.6	41
267	Promotion of fibrovascular tissue ingrowth into porous sponges by basic fibroblast growth factor. *Journal of Materials Science: Materials in Medicine*, **2000**, 11, 213-8	4.5	41
266	Chondroitin-6-sulfate attenuates inflammatory responses in murine macrophages via suppression of NF-**B** nuclear translocation. *Acta Biomaterialia*, **2014**, 10, 2684-92	10.8	39
265	Hepatocyte growth factor limits autoimmune neuroinflammation via glucocorticoid-induced leucine zipper expression in dendritic cells. *Journal of Immunology*, **2014**, 193, 2743-52	5.3	39
264	Promotion of Bone Regeneration by CCN2 Incorporated into Gelatin Hydrogel. *Tissue Engineering - Part A*, **2008**, 14, 1089-1098	3.9	39
263	Osteochondral defect repair using bilayered hydrogels encapsulating both chondrogenically and osteogenically pre-differentiated mesenchymal stem cells in a rabbit model. *Osteoarthritis and Cartilage*, **2014**, 22, 1291-300	6.2	38
262	Usefulness of microspheres composed of gelatin with various cross-linking density. *Journal of Microencapsulation*, **2003**, 20, 767-776	3.4	38
261	In vitro phagocytosis of polylactide microspheres by retinal pigment epithelial cells and intracellular drug release. *Current Eye Research*, **1994**, 13, 353-60	2.9	38

260	Radial Glial Fibers Promote Neuronal Migration and Functional Recovery after Neonatal Brain Injury. *Cell Stem Cell*, **2018**, 22, 128-137.e9	18	37
259	The Efficacy of Prevascularization by Basic FGF for Hepatocyte Transplantation Using Polymer Devices in Rats. *Cell Transplantation*, **2001**, 10, 723-729	4	37
258	A pilot study of regenerative therapy using controlled release of recombinant human fibroblast growth factor for patients with pre-collapse osteonecrosis of the femoral head. *International Orthopaedics*, **2016**, 40, 1747-1754	3.8	36
257	The Effect of Control-released Basic Fibroblast Growth Factor in Wound Healing: Histological Analyses and Clinical Application. *Plastic and Reconstructive Surgery - Global Open*, **2013**, 1, e44	1.2	36
256	A trial to prepare biodegradable collagen-hydroxyapatite composites for bone repair. *Journal of Biomaterials Science, Polymer Edition*, **2001**, 12, 689-705	3.5	36
255	Stimulation of bone regeneration following the controlled release of water-insoluble oxysterol from biodegradable hydrogel. *Biomaterials*, **2014**, 35, 5565-71	15.6	35
254	Antitumor Effect of Poly(Ethylene Glycol)-Modified Fullerene. *Fullerenes, Nanotubes, and Carbon Nanostructures*, **1997**, 5, 989-1007		33
253	Complexation of basic fibroblast growth factor with gelatin. *Journal of Biomaterials Science, Polymer Edition*, **1998**, 9, 459-73	3.5	33
252	Areal Distribution of Preferential Alignment of Biological Apatite (BAp) Crystallite on Cross-Section of Center of Femoral Diaphysis in Osteopetrotic (op/op) Mouse. *Materials Transactions*, **2007**, 48, 337-342	1.3	33
251	Recruitment of mesenchymal stem cells and macrophages by dual release of stromal cell-derived factor-1 and a macrophage recruitment agent enhances wound closure. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 942-56	5.4	33
250	Growth factors released from gelatin hydrogel microspheres increase new neurons in the adult mouse brain. *Stem Cells International*, **2012**, 2012, 915160	5	32
249	Current status of regenerative medical therapy based on drug delivery technology. *Reproductive BioMedicine Online*, **2008**, 16, 70-80	4	32
248	Tissue regeneration based on tissue engineering technology. *Congenital Anomalies (discontinued)*, **2004**, 44, 111-24	1.1	32
247	Facial nerve regeneration using basic fibroblast growth factor-impregnated gelatin microspheres in a rat model. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, E559-E567	4.4	30
246	Peptide modified mesenchymal stem cells as targeting delivery system transfected with miR-133b for the treatment of cerebral ischemia. *International Journal of Pharmaceutics*, **2017**, 531, 90-100	6.5	30
245	Subcutaneous peripheral injection of cationized gelatin/DNA polyplexes as a platform for non-viral gene transfer to sensory neurons. *Molecular Therapy*, **2007**, 15, 2124-31	11.7	30
244	Development of a transplant injection device for optimal distribution and retention of human induced pluripotent stem cell-derived cardiomyocytes. *Journal of Heart and Lung Transplantation*, **2019**, 38, 203-214	5.8	30
243	Stimulation of Rotator Cuff Repair by Sustained Release of Bone Morphogenetic Protein-7 Using a Gelatin Hydrogel Sheet. *Tissue Engineering - Part A*, **2015**, 21, 2025-33	3.9	29

242	Research and Development of Magnetic Drug Delivery System Using Bulk High Temperature Superconducting Magnet. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 2257-2260	1.8	29
241	A Study of Magnetic Drug Delivery System Using Bulk High Temperature Superconducting Magnet. *IEEE Transactions on Applied Superconductivity*, **2008**, 18, 874-877	1.8	29
240	Biodegradation of Poly(□amino acid) in vitro. *Polymer Journal*, **1985**, 17, 463-471	2.7	29
239	Effect of gelatin hydrogel incorporating fibroblast growth factor 2 on human meniscal cells in an organ culture model. *Knee*, **2009**, 16, 285-9	2.6	28
238	Biocompatible polymer enhances the in vitro and in vivo transfection efficiency of HVJ envelope vector. *Journal of Gene Medicine*, **2005**, 7, 888-97	3.5	28
237	Development of an artificial dermis preparation capable of silver sulfadiazine release. *Journal of Biomedical Materials Research Part B*, **2001**, 57, 346-56		28
236	Hypoxia-induced angiogenesis is increased by the controlled release of deferoxiamine from gelatin hydrogels. *Acta Biomaterialia*, **2014**, 10, 3641-9	10.8	27
235	Gelatin Hydrogel Enhances the Engraftment of Transplanted Cardiomyocytes and Angiogenesis to Ameliorate Cardiac Function after Myocardial Infarction. *PLoS ONE*, **2015**, 10, e0133308	3.7	27
234	Interactions between BMP-7 and USAG-1 (uterine sensitization-associated gene-1) regulate supernumerary organ formations. *PLoS ONE*, **2014**, 9, e96938	3.7	27
233	Electric Charge Influence of Dextran Derivatives on their Tumor Accumulation After Intravenous Injection. *Drug Delivery*, **1997**, 4, 213-221	7	27
232	Influence of culture method on the proliferation and osteogenic differentiation of human adipo-stromal cells in nonwoven fabrics. *Tissue Engineering*, **2004**, 10, 1587-96		27
231	Cardiac Regeneration by Statin-Polymer Nanoparticle-Loaded Adipose-Derived Stem Cell Therapy in Myocardial Infarction. *Stem Cells Translational Medicine*, **2019**, 8, 1055-1067	6.9	26
230	FGF2 Has Distinct Molecular Functions from GDNF in the Mouse Germline Niche. *Stem Cell Reports*, **2018**, 10, 1782-1792	8	26
229	A Cancer Invasion Model Combined with Cancer-Associated Fibroblasts Aggregates Incorporating Gelatin Hydrogel Microspheres Containing a p53 Inhibitor. *Tissue Engineering - Part C: Methods*, **2019**, 25, 711-720	2.9	25
228	The regenerative effects of CCN2 independent modules on chondrocytes in vitro and osteoarthritis models in vivo. *Bone*, **2014**, 59, 180-8	4.7	24
227	Macrophage mannose receptor-specific gene delivery vehicle for macrophage engineering. *Acta Biomaterialia*, **2014**, 10, 1847-55	10.8	24
226	Preparation and functional evaluation of cell aggregates incorporating gelatin microspheres with different degradabilities. *Journal of Tissue Engineering and Regenerative Medicine*, **2013**, 7, 801-11	4.4	24
225	Active drug targeting with immunoconjugates to choroidal neovascularization. *Current Eye Research*, **2000**, 21, 952-61	2.9	24

224	Development of a New Method to Induce Angiogenesis at Subcutaneous Site of Streptozotocin-Induced Diabetic Rats for Islet Transplantation. *Cell Transplantation*, **2001**, 10, 453-457	4	24
223	Exploratory clinical trial of combination wound therapy with a gelatin sheet and platelet-rich plasma in patients with chronic skin ulcers: study protocol. *BMJ Open*, **2015**, 5, e007733	3	23
222	Facial nerve decompression surgery using bFGF-impregnated biodegradable gelatin hydrogel in patients with Bell palsy. *Otolaryngology - Head and Neck Surgery*, **2012**, 146, 641-6	5.5	22
221	Feasibility of drug targeting to the retinal pigment epithelium with biodegradable microspheres. *Current Eye Research*, **1994**, 13, 171-6	2.9	22
220	Antibacterial-Integrated Collagen Wound Dressing for Diabetes-Related Foot Ulcers: An Evidence-Based Review of Clinical Studies. *Polymers*, **2020**, 12,	4.5	22
219	Rapid treatment of full-thickness skin loss using ovine tendon collagen type I scaffold with skin cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2019**, 13, 874-891	4.4	22
218	Preparation of Biodegradable Gelatin Nanospheres with a Narrow Size Distribution for Carrier of Cellular Internalization of Plasmid DNA. *Journal of Biomaterials Science, Polymer Edition*, **2012**, 23, 991-1004	3.5	21
217	Potentiation of antitumor activity of macrophages by recombinant interferon alpha A/D contained in gelatin microspheres. *Japanese Journal of Cancer Research*, **1988**, 79, 636-46		21
216	Peptide drugs accelerate BMP-2-induced calvarial bone regeneration and stimulate osteoblast differentiation through mTORC1 signaling. *BioEssays*, **2016**, 38, 717-25	4.1	21
215	A therapeutic angiogenesis of sustained release of basic fibroblast growth factor using biodegradable gelatin hydrogel sheets in a canine chronic myocardial infarction model. *Heart and Vessels*, **2018**, 33, 1251-1257	2.1	21
214	Preparation of gelatin hydrogels incorporating small interfering RNA for the controlled release. *Journal of Drug Targeting*, **2012**, 20, 864-72	5.4	20
213	Promoted adipogenesis of rat mesenchymal stem cells by transfection of small interfering RNA complexed with a cationized dextran. *Tissue Engineering - Part A*, **2010**, 16, 21-31	3.9	20
212	In vitro transfection of plasmid DNA by cationized gelatin prepared from different amine compounds. *Journal of Biomaterials Science, Polymer Edition*, **2006**, 17, 645-58	3.5	20
211	Proapoptotic effect of control-released basic fibroblast growth factor on skin wound healing in a diabetic mouse model. *Wound Repair and Regeneration*, **2016**, 24, 65-74	3.6	20
210	TAT-dextran-mediated mitochondrial transfer enhances recovery from models of reperfusion injury in cultured cardiomyocytes. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 5007-5020	5.6	19
209	Implementation of soft microfingers for a hMSC aggregate manipulation system. *Microsystems and Nanoengineering*, **2016**, 2, 15048	7.7	19
208	Local Administration of Simvastatin Stimulates Healing of an Avascular Meniscus in a Rabbit Model of a Meniscal Defect. *American Journal of Sports Medicine*, **2016**, 44, 1735-43	6.8	19
207	Design of injectable hydrogels of gelatin and alginate with ferric ions for cell transplantation. *Acta Biomaterialia*, **2019**, 100, 184-190	10.8	18

206	Systematic chemical screening identifies disulfiram as a repurposed drug that enhances sensitivity to cisplatin in bladder cancer: a summary of preclinical studies. *British Journal of Cancer*, **2019**, 121, 1027-1038	8.7	18
205	Angiogenic effect of platelet-rich plasma combined with gelatin hydrogel granules injected into murine subcutis. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 1941-1948	4.4	17
204	Influence of shaking culture on the biological functions of cell aggregates incorporating gelatin hydrogel microspheres. *Journal of Bioscience and Bioengineering*, **2019**, 128, 606-612	3.3	17
203	Preparation of fibrin hydrogels to promote the recruitment of anti-inflammatory macrophages. *Acta Biomaterialia*, **2019**, 89, 152-165	10.8	17
202	Enhancement of anti-tumor activity of hybrid peptide in conjugation with carboxymethyl dextran via disulfide linkers. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 92, 228-36	5.7	17
201	Coadministration of adipose-derived stem cells and control-released basic fibroblast growth factor facilitates angiogenesis in a murine ischemic hind limb model. *Journal of Vascular Surgery*, **2016**, 64, 1825-1834.e1	3.5	17
200	Nanomaterials of drug delivery systems for tissue regeneration. *Methods in Molecular Biology*, **2005**, 300, 81-100	1.4	17
199	Comparison of the efficacy of cryopreserved human platelet lysate and refrigerated lyophilized human platelet lysate for wound healing. *Regenerative Therapy*, **2019**, 10, 1-9	3.7	17
198	Fabrication of hydrogels with elasticity changed by alkaline phosphatase for stem cell culture. *Acta Biomaterialia*, **2016**, 29, 215-227	10.8	16
197	Biomaterial-based delivery systems of nucleic acid for regenerative research and regenerative therapy. *Regenerative Therapy*, **2019**, 11, 123-130	3.7	16
196	Controlled release of sphingosine-1-phosphate agonist with gelatin hydrogels for macrophage recruitment. *Acta Biomaterialia*, **2014**, 10, 4723-4729	10.8	16
195	Gelatin hydrogel with basic fibroblast growth factor for tympanic membrane regeneration. *Otology and Neurotology*, **2014**, 35, 540-4	2.6	16
194	Bone Regeneration of Rat Calvarial Defect by Magnesium Calcium Phosphate Gelatin Scaffolds with or without Bone Morphogenetic Protein-2. *Journal of Maxillofacial and Oral Surgery*, **2014**, 13, 29-35	0.9	16
193	Promotion of bone regeneration by CCN2 incorporated into gelatin hydrogel. *Tissue Engineering - Part A*, **2008**, 14, 1089-98	3.9	16
192	Biomaterial-Assisted Regenerative Medicine. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	16
191	TDAG8 involved in initiating inflammatory hyperalgesia and establishing hyperalgesic priming in mice. *Scientific Reports*, **2017**, 7, 41415	4.9	15
190	Gelatin hydrogel as a carrier of recombinant human fibroblast growth factor-2 during rat mandibular distraction. *Journal of Oral and Maxillofacial Surgery*, **2014**, 72, 2015-31	1.8	15
189	Novel role of CCN3 that maintains the differentiated phenotype of articular cartilage. *Journal of Bone and Mineral Metabolism*, **2017**, 35, 582-597	2.9	15

188	Preparation of biodegradable iron oxide nanoparticles with gelatin for magnetic resonance imaging. *Inflammation and Regeneration*, **2014**, 34, 045-055	10.9	15
187	A Co-Culture System of Three-Dimensional Tumor-Associated Macrophages and Three-Dimensional Cancer-Associated Fibroblasts Combined with Biomolecule Release for Cancer Cell Migration. *Tissue Engineering - Part A*, **2020**, 26, 1272-1282	3.9	15
186	Design of magnetic gene complexes as effective and serum resistant gene delivery systems for mesenchymal stem cells. *International Journal of Pharmaceutics*, **2017**, 520, 1-13	6.5	14
185	Sustained release of basic fibroblast growth factor using gelatin hydrogel improved left ventricular function through the alteration of collagen subtype in a rat chronic myocardial infarction model. *General Thoracic and Cardiovascular Surgery*, **2018**, 66, 641-647	1.6	14
184	Enhancement of wound closure by modifying dual release patterns of stromal-derived cell factor-1 and a macrophage recruitment agent from gelatin hydrogels. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 2999-3013	4.4	14
183	Macrophage activation for antitumour function by muramyl dipeptide-protein conjugates. *Journal of Pharmacy and Pharmacology*, **1990**, 42, 13-9	4.8	14
182	Regenerative inductive therapy based on DDS technology of protein and gene. *Journal of Drug Targeting*, **2006**, 14, 483-95	5.4	14
181	Local release of pioglitazone (a peroxisome proliferator-activated receptor □agonist) accelerates proliferation and remodeling phases of wound healing. *Wound Repair and Regeneration*, **2016**, 24, 57-64	3.6	14
180	In situ constructive myocardial remodeling of extracellular matrix patch enhanced with controlled growth factor release. *Journal of Thoracic and Cardiovascular Surgery*, **2015**, 150, 1280-90.e2	1.5	13
179	Evaluation of Gelatin Microparticles as Adherent-Substrates for Mesenchymal Stem Cells in a Hydrogel Composite. *Annals of Biomedical Engineering*, **2016**, 44, 1894-907	4.7	13
178	Promotion of tracheal cartilage growth by intra-tracheal injection of basic fibroblast growth factor (b-FGF). *Journal of Pediatric Surgery*, **2014**, 49, 296-300	2.6	13
177	EFFECTS OF APPLIED STRESS ON PREFERENTIAL ALIGNMENT OF BIOLOGICAL APATITE IN RABBIT FORELIMB BONES. *Phosphorus Research Bulletin*, **2004**, 17, 77-82	0.3	13
176	Effects of recombinant alpha-interferon-gelatin conjugate on in vivo murine tumor cell growth. *Cancer Research*, **1991**, 51, 5532-8	10.1	13
175	Effects of a synovial flap and gelatin/□tricalcium phosphate sponges loaded with mesenchymal stem cells, bone morphogenetic protein-2, and platelet rich plasma on equine osteochondral defects. *Research in Veterinary Science*, **2015**, 101, 140-3	2.5	12
174	Technical Report: Correlation Between the Repair of Cartilage and Subchondral Bone in an Osteochondral Defect Using Bilayered, Biodegradable Hydrogel Composites. *Tissue Engineering - Part C: Methods*, **2015**, 21, 1216-25	2.9	12
173	3D Culture of MSCs on a Gelatin Microsphere in a Dynamic Culture System Enhances Chondrogenesis. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	12
172	Enhanced survival and insulin secretion of insulinoma cell aggregates by incorporating gelatin hydrogel microspheres. *Regenerative Therapy*, **2018**, 8, 29-37	3.7	12
171	Effects of the conformation of PLGA molecules in the organic solvent on the aerodynamic diameter of spray dried microparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 539, 347-353	5.1	12

170	The BMP2 antagonist inhibitor L51P enhances the osteogenic potential of BMP2 by simultaneous and delayed synergism. *Bone*, **2014**, 69, 165-73	4.7	12
169	Effects of Gelatin Hydrogel Loading Mitomycin C on Conjunctival Scarring in a Canine Filtration Surgery Model **2015**, 56, 2601-5		12
168	Suppressive effect of recombinant TNF-gelatin conjugate on murine tumour growth in-vivo. *Journal of Pharmacy and Pharmacology*, **1993**, 45, 303-8	4.8	12
167	In vivo effects of recombinant interferon alpha A/D incorporated in gelatin microspheres on murine tumor cell growth. *Japanese Journal of Cancer Research*, **1989**, 80, 387-93		12
166	Ultra-small size gelatin nanogel as a blood brain barrier impermeable contrast agent for magnetic resonance imaging. *Acta Biomaterialia*, **2021**, 125, 290-299	10.8	12
165	Attenuation of osteoarthritis progression in mice following intra-articular administration of simvastatin-conjugated gelatin hydrogel. *Journal of Tissue Engineering and Regenerative Medicine*, **2019**, 13, 423-432	4.4	12
164	Preparation of cationized gelatin nanospheres incorporating molecular beacon to visualize cell apoptosis. *Scientific Reports*, **2018**, 8, 14839	4.9	12
163	Prevention of tooth extraction-triggered bisphosphonate-related osteonecrosis of the jaws with basic fibroblast growth factor: An experimental study in rats. *PLoS ONE*, **2019**, 14, e0211928	3.7	11
162	Enhanced formation of fibrosis in a rabbit aneurysm by gelatin hydrogel incorporating basic fibroblast growth factor. *Neurosurgery*, **2001**, 49, 954-60; discussion 960-1	3.2	11
161	Promotion of muscle regeneration by myoblast transplantation combined with the controlled and sustained release of bFGFcpr. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 325-33	4.4	11
160	Intracellular Controlled Release of Molecular Beacon Prolongs the Time Period of mRNA Visualization. *Tissue Engineering - Part A*, **2019**, 25, 1527-1537	3.9	10
159	Clinical and experimental studies of intraperitoneal lipolysis and the development of clinically relevant pancreatic fistula after pancreatic surgery. *British Journal of Surgery*, **2019**, 106, 616-625	5.3	10
158	Cell engineering by the internalization of bioinstructive micelles for enhanced bone regeneration. *Nanomedicine*, **2015**, 10, 1707-21	5.6	10
157	Cationized gelatin hydrogels mixed with plasmid DNA induce stronger and more sustained gene expression than atelocollagen at calvarial bone defects in vivo. *Journal of Biomaterials Science, Polymer Edition*, **2016**, 27, 419-30	3.5	10
156	Inhalable nanocomposite particles using amino acids with improved drug content and humidity resistance. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 529, 387-393	5.1	10
155	Preclinical efficacy of slow-release bFGF in ischemia-reperfusion injury in a Dorsal Island skin flap model. *Journal of Reconstructive Microsurgery*, **2013**, 29, 341-6	2.5	10
154	Regeneration Approaches for Dental Pulp and Periapical Tissues with Growth Factors, Biomaterials, and Laser Irradiation. *Polymers*, **2011**, 3, 1776-1793	4.5	10
153	Influence of gelatin complexation on cell proliferation activity and proteolytic resistance of basic fibroblast growth factor. *Journal of Biomaterials Science, Polymer Edition*, **2000**, 11, 571-82	3.5	10

152	Biomaterials Design of Culture Substrates for Cell Research. *Inflammation and Regeneration*, **2011**, 31, 137-145	10.9	10
151	Intramyocardial Transplantation of Human iPS Cell-Derived Cardiac Spheroids Improves Cardiac Function in Heart Failure Animals. *JACC Basic To Translational Science*, **2021**, 6, 239-254	8.7	10
150	Iron oxide nanoparticles augment the intercellular mitochondrial transfer-mediated therapy. *Science Advances*, **2021**, 7, eabj0534	14.3	10
149	Biodegradable gelatin/beta-tricalcium phosphate sponges incorporating recombinant human fibroblast growth factor-2 for treatment of recession-type defects: A split-mouth study in dogs. *Journal of Periodontal Research*, **2017**, 52, 863-871	4.3	9
148	Basic fibroblast growth factor enhances proliferation and hepatocyte growth factor expression of feline mesenchymal stem cells. *Regenerative Therapy*, **2020**, 15, 10-17	3.7	9
147	Effect of amine type on the expression of plasmid DNA by cationized dextran. *Journal of Biomaterials Science, Polymer Edition*, **2010**, 21, 225-36	3.5	9
146	Delivery of RANKL-Binding Peptide OP3-4 Promotes BMP-2-Induced Maxillary Bone Regeneration. *Journal of Dental Research*, **2016**, 95, 665-72	8.1	9
145	Efficacy of Gelatin Hydrogel Impregnated With Concentrated Platelet Lysate in Murine Wound Healing. *Journal of Surgical Research*, **2019**, 234, 190-201	2.5	9
144	Preparation of gelatin nanospheres incorporating quantum dots and iron oxide nanoparticles for multimodal cell imaging. *Journal of Biomaterials Science, Polymer Edition*, **2017**, 28, 555-568	3.5	8
143	Preparation of EpH4 and 3T3L1 cells aggregates incorporating gelatin hydrogel microspheres for a cell condition improvement. *Regenerative Therapy*, **2017**, 6, 90-99	3.7	8
142	Intraperitoneal chemotherapy for peritoneal metastases using sustained release formula of cisplatin-incorporated gelatin hydrogel granules. *Surgery Today*, **2019**, 49, 785-794	3	8
141	How controlled release technology can aid gene delivery. *Expert Opinion on Drug Delivery*, **2015**, 12, 1689-701	8	8
140	A cancer invasion model of cancer-associated fibroblasts aggregates combined with TGF-β1 release system. *Regenerative Therapy*, **2020**, 14, 196-204	3.7	8
139	Preparation of antibody-immobilized gelatin nanospheres incorporating a molecular beacon to visualize the biological function of macrophages. *Regenerative Therapy*, **2020**, 14, 11-18	3.7	8
138	A Gelatin Hydrogel Nonwoven Fabric Facilitates Metabolic Activity of Multilayered Cell Sheets. *Tissue Engineering - Part C: Methods*, **2019**, 25, 344-352	2.9	8
137	The intra-articular injection of RANKL-binding peptides inhibits cartilage degeneration in a murine model of osteoarthritis. *Journal of Pharmacological Sciences*, **2017**, 134, 124-130	3.7	8
136	Effect of the molecular weight of water-soluble polymers on accumulation at an inflammatory site following intravenous injection. *Drug Delivery*, **1996**, 3, 231-238	7	8
135	Bioinspired nanocomposite fibrous scaffold mediated delivery of ONO-1301 and BMP2 enhance bone regeneration in critical sized defect. *Materials Science and Engineering C*, **2020**, 110, 110591	8.3	8

134	Fabrication of Bio-Based Gelatin Sponge for Potential Use as A Functional Acellular Skin Substitute. *Polymers*, **2020**, 12,	4.5	8
133	Transcytosis-Targeting Peptide: A Conductor of Liposomal Nanoparticles through the Endothelial Cell Barrier. *Small*, **2016**, 12, 1212-21	11	8
132	Enhanced intestinal anastomotic healing with gelatin hydrogel incorporating basic fibroblast growth factor. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, E433-E442	4.4	8
131	Peptide-induced de novo bone formation after tooth extraction prevents alveolar bone loss in a murine tooth extraction model. *European Journal of Pharmacology*, **2016**, 782, 89-97	5.3	8
130	Enhanced Sternal Healing Through Platelet-Rich Plasma and Biodegradable Gelatin Hydrogel. *Tissue Engineering - Part A*, **2018**, 24, 1406-1412	3.9	8
129	Effect of hydrogel elasticity and ephrinB2-immobilized manner on Runx2 expression of human mesenchymal stem cells. *Acta Biomaterialia*, **2017**, 58, 312-322	10.8	7
128	Autologous fat augmentation of the vocal fold with basic fibroblast growth factor: Computed tomographic assessment of fat tissue survival after augmentation. *Acta Oto-Laryngologica*, **2015**, 135, 1163-7	1.6	7
127	Tracheoplasty with cartilage-engineered esophagus environments. *Journal of Pediatric Surgery*, **2015**, 50, 1093-8	2.6	7
126	Slow release of basic fibroblast growth factor (b-FGF) enhances mechanical properties of rat trachea. *Journal of Pediatric Surgery*, **2015**, 50, 255-9	2.6	7
125	The Effect of Nanoparticle-Incorporated Natural-Based Biomaterials towards Cells on Activated Pathways: A Systematic Review.. *Polymers*, **2022**, 14,	4.5	7
124	Gelatin hydrogels with eicosapentaenoic acid can prevent osteoarthritis progression in vivo in a mouse model. *Journal of Orthopaedic Research*, **2020**, 38, 2157-2169	3.8	6
123	Insulin secretion of mixed insulinoma aggregates-gelatin hydrogel microspheres after subcutaneous transplantation. *Regenerative Therapy*, **2018**, 8, 38-45	3.7	6
122	Bone Regeneration of Osteoporotic Vertebral Body Defects Using Platelet-Rich Plasma and Gelatin Tricalcium Phosphate Sponges. *Tissue Engineering - Part A*, **2018**, 24, 1001-1010	3.9	6
121	Establishment of a novel mouse xenograft model of human uterine leiomyoma. *Scientific Reports*, **2018**, 8, 8872	4.9	6
120	Intrapleural administration of gelatin-embedded, sustained-release basic fibroblast growth factor for the regeneration of emphysematous lungs in rats. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 147, 1644-9	1.5	6
119	Fascia implantation with fibroblast growth factor on vocal fold paralysis. *American Journal of Otolaryngology - Head and Neck Medicine and Surgery*, **2013**, 34, 331-6	2.8	6
118	Preparation of epithelial cell aggregates incorporating matrigel microspheres to enhance proliferation and differentiation of epithelial cells. *Regenerative Therapy*, **2017**, 7, 34-44	3.7	6
117	ANALYSIS OF PREFERENTIAL ALIGNMENT OF BIOLOGICAL APATITE CRYSTALLITES IN SUBCHONDRAL BONE OF THE OSTEOARTHRITIC KNEE. *Phosphorus Research Bulletin*, **2004**, 17, 83-84	0.3	6

116	Preparation of rapidly curable hydrogels from gelatin and poly (carboxylic acid) and their adhesion to skin. *Macromolecular Symposia*, **1998**, 130, 169-177	0.8	6
115	Adhesion to Soft Tissues by Gelatin-Polyanion Hydrogels **1996**, 59, 197-205		6
114	Preparation and Properties of A-B-A Tri-Block Copolymer Membranes Consisting of N-Hydroxyethyl-L-glutamine as the A Component and L-Leucine as the B Component. *Polymer Journal*, **1985**, 17, 1149-1157	2.7	6
113	Texture of Biological Apatite Crystallites and the Related Mechanical Function in Regenerated and Pathological Hard Tissues. *Journal of Hard Tissue Biology*, **2005**, 14, 363-364	0.4	6
112	Physicochemical Characterization of Bilayer Hybrid Nanocellulose-Collagen as a Potential Wound Dressing. *Materials*, **2020**, 13,	3.5	6
111	Preparation of a nitric oxide imaging agent from gelatin derivative micelles. *Regenerative Therapy*, **2016**, 5, 64-71	3.7	6
110	Preparation of cell aggregates incorporating gelatin hydrogel microspheres containing bone morphogenic protein-2 with different degradabilities. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 775-792	3.5	6
109	Gelatin hydrogel membrane containing carbonate hydroxyapatite for nerve regeneration scaffold. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 2491-2503	5.4	5
108	Effects of cellular parameters on the in vitro osteogenic potential of dual-gelling mesenchymal stem cell-laden hydrogels. *Journal of Biomaterials Science, Polymer Edition*, **2016**, 27, 1277-90	3.5	5
107	Experimental proliferative vitreoretinopathy in rabbits by delivery of bioactive proteins with gelatin microspheres. *European Journal of Pharmaceutics and Biopharmaceutics*, **2018**, 129, 267-272	5.7	5
106	Development of Poly Lactic/Glycolic Acid (PLGA) Microspheres for Controlled Release of Rho-Associated Kinase Inhibitor. *Journal of Ophthalmology*, **2017**, 2017, 1598218	2	5
105	Effect of Control-released Basic Fibroblast Growth Factor Incorporated in □Tricalcium Phosphate for Murine Cranial Model. *Plastic and Reconstructive Surgery - Global Open*, **2014**, 2, e126	1.2	5
104	Ocular drug delivery for bioactive proteins. *Expert Review of Ophthalmology*, **2011**, 6, 657-667	1.5	5
103	Accumulation of Poly(vinyl alcohol) at Inflammatory Site. *ACS Symposium Series*, **1994**, 163-171	0.4	5
102	Potentiation of in vivo antitumor effects of recombinant interleukin-1 alpha by gelatin conjugation. *Japanese Journal of Cancer Research*, **1993**, 84, 681-8		5
101	Strategies Using Gelatin Microparticles for Regenerative Therapy and Drug Screening Applications. *Molecules*, **2021**, 26,	4.8	5
100	ONO-1301 loaded nanocomposite scaffolds modulate cAMP mediated signaling and induce new bone formation in critical sized bone defect. *Biomaterials Science*, **2020**, 8, 884-896	7.4	5
99	Characterization and Cytocompatibility of Collagen□Gelatin□Elastin (CollaGee) Acellular Skin Substitute towards Human Dermal Fibroblasts: In Vitro Assessment. *Biomedicines*, **2022**, 10, 1327	4.8	5

98	Nanoparticle-mediated local delivery of pioglitazone attenuates bleomycin-induced skin fibrosis. *Journal of Dermatological Science*, **2019**, 93, 41-49	4.3	4
97	Preparation of cell aggregates incorporating gelatin hydrogel microspheres of sugar-responsive water solubilization. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 1050-1062	4.4	4
96	Effect of cell seeding methods on the distribution of cells into the gelatin hydrogel nonwoven fabric. *Regenerative Therapy*, **2020**, 14, 160-164	3.7	4
95	Effects of platelet-rich plasma on tissue-engineered vascularized flaps in an in vivo chamber. *Journal of Plastic, Reconstructive and Aesthetic Surgery*, **2018**, 71, 1062-1068	1.7	4
94	Intracellular release of rapamycin from poly (lactic acid) nanospheres modifies autophagy. *Journal of Biomaterials Science, Polymer Edition*, **2016**, 27, 1291-302	3.5	4
93	Evaluation of Autologous Fascia Implantation With Controlled Release of Fibroblast Growth Factor for Recurrent Laryngeal Nerve Paralysis Due to Long-term Denervation. *Annals of Otology, Rhinology and Laryngology*, **2016**, 125, 508-15	2.1	4
92	Data describing the swelling behavior and cytocompatibility of biodegradable polyelectrolyte hydrogels incorporating poly(L-lysine) for applications in cartilage tissue engineering. *Data in Brief*, **2016**, 7, 614-9	1.2	4
91	Effect of sustained release of basic fibroblast growth factor using biodegradable gelatin hydrogels on frozen-thawed human ovarian tissue in a xenograft model. *Journal of Obstetrics and Gynaecology Research*, **2018**, 44, 1947-1955	1.9	4
90	Osteogenic differentiation enhances the MC3T3-E1 secretion of glycosaminoglycans with an affinity for basic fibroblast growth factor and bone morphogenetic protein-2. *Regenerative Therapy* , **2018**, 8, 58-62	3.7	4
89	Preparation of polymer microspheres capable for pioglitazone release to modify macrophages function. *Regenerative Therapy*, **2019**, 11, 131-138	3.7	4
88	Synthesis of a dextran-based bone tracer for in vivo magnetic resonance and optical imaging by two orthogonal coupling reactions. *RSC Advances*, **2014**, 4, 7561	3.7	4
87	Controlled release of granulocyte colony-stimulating factor enhances osteoconductive and biodegradable properties of Beta-tricalcium phosphate in a rat calvarial defect model. *International Journal of Biomaterials*, **2014**, 2014, 134521	3.2	4
86	Bioengineered osteochondral precursor for treatment of osteochondritis dissecans in a Thoroughbred filly. *Australian Veterinary Journal*, **2013**, 91, 411-415	1.2	4
85	Easy-to-Use Preservation and Application of Platelet-Rich Plasma in Combination Wound Therapy With a Gelatin Sheet and Freeze-Dried Platelet-Rich Plasma: A Case Report. *Eplasty*, **2016**, 16, e22	0.3	4
84	Cellular Interaction of Human Skin Cells towards Natural Bioink via 3D-Bioprinting Technologies for Chronic Wound: A Comprehensive Review.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	4
83	Evaluation of dual release of stromal cell-derived factor-1 and basic fibroblast growth factor with nerve conduit for peripheral nerve regeneration: An experimental study in mice. *Microsurgery*, **2020** , 40, 377-386	2.1	4
82	Development of tooth regenerative medicine strategies by controlling the number of teeth using targeted molecular therapy. *Inflammation and Regeneration*, **2020**, 40, 21	10.9	4
81	Coating with spermine-pullulan polymer enhances adenoviral transduction of mesenchymal stem cells. *International Journal of Nanomedicine*, **2016**, 11, 6763-6769	7.3	4

80	Comparison between different isoelectric points of biodegradable gelatin sponges incorporating tricalcium phosphate and recombinant human fibroblast growth factor-2 for ridge augmentation: A preclinical study of saddle-type defects in dogs. *Journal of Periodontal Research*, **2019**, 54, 278-285	4.3	4
79	Addition of glycerol enhances the flexibility of gelatin hydrogel sheets; application for in utero tissue engineering. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2021**, 109, 921-931	3.5	4
78	Sustained-release lidocaine sheet for pain following tooth extraction: A randomized, single-blind, dose-response, controlled, clinical study of efficacy and safety. *PLoS ONE*, **2018**, 13, e0200059	3.7	4
77	Active stealth and self-positioning biomimetic vehicles achieved effective antitumor therapy. *Journal of Controlled Release*, **2021**, 335, 515-526	11.7	4
76	Characterisation of Rapid In Situ Forming Gelipin Hydrogel for Future Use in Irregular Deep Cutaneous Wound Healing. *Polymers*, **2021**, 13,	4.5	4
75	Efficient cell transplantation combining injectable hydrogels with control release of growth factors. *Regenerative Therapy*, **2021**, 18, 372-383	3.7	4
74	Visualization of Human Induced Pluripotent Stem Cells-Derived Three-Dimensional Cartilage Tissue by Gelatin Nanospheres. *Tissue Engineering - Part C: Methods*, **2020**, 26, 244-252	2.9	3
73	Gelatin Hydrogel-Fragmented Fibers Suppress Shrinkage of Cell Sheet. *Tissue Engineering - Part C: Methods*, **2020**, 26, 216-224	2.9	3
72	La-Ni Substituted M-type Sr Hexaferrite Studied by 57Fe Mössbauer Spectroscopy. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2014**, 61, S266-S269	0.2	3
71	Pinching and releasing of cellular aggregate by microfingers using PDMS pneumatic balloon actuators **2014**,		3
70	Design of an osteoinductive biodegradable cell scaffold based on controlled release technology of bone morphogenetic protein. *Israel Journal of Chemistry*, **2005**, 45, 465-475	3.4	3
69	Potential of Nanoparticles Integrated with Antibacterial Properties in Preventing Biofilm and Antibiotic Resistance. *Antibiotics*, **2021**, 10,	4.9	3
68	Significant Role of Tissue Engineering in Regenerative Medicine. *Journal of Hard Tissue Biology*, **2003**, 12, 33-43	0.4	3
67	The Effect of Partial Dissolution-Precipitation Treatment on Calcium Phosphate Ceramics in the Release of BMP-2 and Osteoinduction. *Journal of Hard Tissue Biology*, **2012**, 21, 459-468	0.4	3
66	Novel Method to Enhance Sternal Healing After Harvesting Bilateral Internal Thoracic Arteries With Use of Basic Fibroblast Growth Factor. *Circulation*, **2000**, 102,	16.7	3
65	Improved viability of murine skin flaps using a gelatin hydrogel sheet impregnated with bFGF. *Journal of Artificial Organs*, **2020**, 23, 348-357	1.8	3
64	A portable platform for stepwise hematopoiesis from human pluripotent stem cells within PET-reinforced collagen sponges. *International Journal of Hematology*, **2016**, 104, 647-660	2.3	3
63	Development of a stent capable of the controlled release of basic fibroblast growth factor and argatroban to treat cerebral aneurysms: In vitro experiment and evaluation in a rabbit aneurysm model. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 2185-2194	3.5	3

62	Basic fibroblast growth factor attenuates left-ventricular remodeling following surgical ventricular restoration in a rat ischemic cardiomyopathy model. *General Thoracic and Cardiovascular Surgery*, **2020**, 68, 311-318	1.6	3
61	Molecular Beacon Imaging to Visualize Ki67 mRNA for Cell Proliferation Ability. *Tissue Engineering - Part A*, **2021**, 27, 526-535	3.9	3
60	Anti-USAG-1 therapy for tooth regeneration through enhanced BMP signaling. *Science Advances*, **2021**, 7,	14.3	3
59	Immunosuppressive mesenchymal stem cells aggregates incorporating hydrogel microspheres promote an in vitro invasion of cancer cells.. *Regenerative Therapy*, **2021**, 18, 516-522	3.7	3
58	Efficacy of gelatin hydrogels incorporating triamcinolone acetonide for prevention of fibrosis in a mouse model. *Regenerative Therapy*, **2019**, 11, 41-46	3.7	2
57	Safety and durability of the biodegradable felt in aortic surgery: a propensity score-matched study. *European Journal of Cardio-thoracic Surgery*, **2018**, 54, 361-368	3	2
56	Comparison of human Mesenchymal Stem Cells biocompatibility data growth on gelatin and silk fibroin scaffolds. *Data in Brief*, **2019**, 27, 104678	1.2	2
55	Evaluation of a Porous Hydroxyapatite Granule and Gelatin Hydrogel Microsphere Composite in Bone Regeneration. *Journal of Hard Tissue Biology*, **2017**, 26, 203-214	0.4	2
54	Controlled release of pioglitazone from biodegradable hydrogels to modify macrophages phenotype. *Inflammation and Regeneration*, **2015**, 35, 086-096	10.9	2
53	Development of drug-delivery systems to the posterior segments of the eye. *Expert Review of Ophthalmology*, **2007**, 2, 197-211	1.5	2
52	Minimally invasive proximal interphalangeal joint arthrodesis using a locking compression plate and tissue engineering in horses: a pilot study. *Canadian Veterinary Journal*, **2014**, 55, 1050-6	0.5	2
51	Influence of basic fibroblast growth factor in the solution and adsorbed form on the proliferation and differentiation of cells. *Inflammation and Regeneration*, **2006**, 26, 181-184	10.9	2
50	Design, construction, and biological testing of an implantable porous trilayer scaffold for repairing osteoarthritic cartilage. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 355-368	4.4	2
49	Extracellular Vesicles Derived From Canine Mesenchymal Stromal Cells in Serum Free Culture Medium Have Anti-inflammatory Effect on Microglial Cells. *Frontiers in Veterinary Science*, **2021**, 8, 633426	3.1	2
48	Antagomir-92a impregnated gelatin hydrogel microsphere sheet enhances cardiac regeneration after myocardial infarction in rats. *Regenerative Therapy*, **2016**, 5, 9-16	3.7	2
47	Preparation of gelatin hydrogel sponges incorporating bioactive glasses capable for the controlled release of fibroblast growth factor-2. *Journal of Biomaterials Science, Polymer Edition*, **2019**, 30, 49-63	3.5	2
46	Regenerative potential of basic fibroblast growth factor contained in biodegradable gelatin hydrogel microspheres applied following vocal fold injury: Early effect on tissue repair in a rabbit model. *Brazilian Journal of Otorhinolaryngology*, **2021**, 87, 274-282	1.6	2
45	A new biological glue from gelatin and poly (L-glutamic acid) **1996**, 31, 157		2

44	Design of cell niches for the regulation of stem cell fate in central nervous tissue regeneration. *Materials Letters*, **2015**, 148, 96-98	3.3	1
43	Viability evaluation of layered cell sheets after ultraviolet light irradiation of 222□nm. *Regenerative Therapy*, **2020**, 14, 344-351	3.7	1
42	Reconstruction of Severely Crushed Fingertip Amputations with Basic Fibroblast Growth Factor Slow Release System. *Plastic and Reconstructive Surgery - Global Open*, **2017**, 5, e1384	1.2	1
41	REPAIRING OF RABBIT SKULL DEFECT BY TGF-□1-INCORPORATED COLLAGEN SPONGES OF DIFFERENT THICKNESS. *Biomedical Engineering - Applications, Basis and Communications*, **2003**, 15, 1-7	0.6	1
40	Drug delivery system using microspheres that contain tacrolimus in porcine small bowel transplantation. *Transplant International*, **2004**, 17, 841-847	3	1
39	Comparison of Release Profiles of Various Growth Factors from Biodegradable Carriers. *Materials Research Society Symposia Proceedings*, **1998**, 530, 13		1
38	Drug delivery systems for antitumor activation of macrophages. *Critical Reviews in Therapeutic Drug Carrier Systems*, **1990**, 7, 121-48	2.8	1
37	Potential of Drug Delivery Technology in Tissue Regeneration Therapy. *Journal of Hard Tissue Biology*, **2006**, 15, 73-81	0.4	1
36	CHARACTERIZATION OF BIO-ABSORBABLE AND BIOMIMETIC GRANULES PRODUCED FROM ANIMAL BONE BY THE HIGH VELOCITY ROTATION-CRUSHING AND DEMINERALIZING TECHNIQUE. *Phosphorus Research Bulletin*, **2012**, 26, 65-70	0.3	1
35	Combined therapy of platelet-rich plasma and basic fibroblast growth factor using gelatin-hydrogel sheet for rotator cuff healing in rat models. *Journal of Orthopaedic Surgery and Research*, **2021**, 16, 605	2.8	1
34	Gelatin hydrogel nonwoven fabrics of a cell culture scaffold to formulate 3-dimensional cell constructs. *Regenerative Therapy*, **2021**, 18, 418-429	3.7	1
33	Cranial Bone Regeneration by Controlled Release of Platelet Growth Factors from Biodegradable Hydrogel. *Journal of Hard Tissue Biology*, **2005**, 14, 288-290	0.4	1
32	Enhanced Osteoinduction by Biodegradable Gelatin-.BETA.-tricalcium Phosphate Sponge Capable for Bone Morphogenetic Protein Release. *Journal of Hard Tissue Biology*, **2005**, 14, 286-287	0.4	1
31	Visualization of Apoptosis in Three-Dimensional Cell Aggregates Based on Molecular Beacon Imaging. *Tissue Engineering - Part C: Methods*, **2021**, 27, 264-275	2.9	1
30	Local application of Usag-1 siRNA can promote tooth regeneration in Runx2-deficient mice. *Scientific Reports*, **2021**, 11, 13674	4.9	1
29	Antiadhesion effect of the C17 glycerin ester of isoprenoid-type lipid forming a nonlamellar liquid crystal. *Acta Biomaterialia*, **2019**, 84, 257-267	10.8	1
28	□-Arabinofuranosidase as an Orthogonal Enzyme for Human Cells. *Chemistry Letters*, **2021**, 50, 1493-1495	1.7	1
27	A novel topical treatment for bone metastases using a gelatin hydrogel incorporating cisplatin as a sustained release system. *Journal of Orthopaedic Research*, **2021**, 39, 525-535	3.8	0

26	Intracellular controlled release prolongs the time period of siRNA-based gene suppression. *Journal of Biomaterials Science, Polymer Edition*, **2021**, 32, 2088-2102	3.5	0
25	Extracellular vesicles synchronize cellular phenotypes of differentiating cells. *Journal of Extracellular Vesicles*, **2021**, 10, e12147	16.4	0
24	Complexation design of cationized gelatin and molecular beacon to visualize intracellular mRNA. *PLoS ONE*, **2021**, 16, e0245899	3.7	0
23	Transplantation of human iPSC-derived muscle stem cells in the diaphragm of Duchenne muscular dystrophy model mice.. *PLoS ONE*, **2022**, 17, e0266391	3.7	0
22	Nanostructure Control of an Antibiotic-based Polyion Complex Using a Series of Polycations with Different Side-chain Modification Rates. *Macromolecular Rapid Communications*,2200316	4.8	0
21	Effect of lipopolysaccharide addition on the gene transfection of spermine-introduced pullulan-plasmid DNA complexes for human mesenchymal stem cells. *Journal of Biomaterials Science, Polymer Edition*, **2019**, 30, 1542-1558	3.5	
20	[FOREWORD] World of DDS Growing Progressively. *Drug Delivery System*, **2017**, 32, 7-7	0	
19	Bio-Medical Research by making use of DDS technologies. *Drug Delivery System*, **2017**, 32, 50-58	0	
18	Regenerative medicine in terms of DDS technology - Regenerative therapy and regenerative research -. *Drug Delivery System*, **2015**, 30, 34-46	0	
17	Regenerative medical therapy from the viewpoint of biomaterials. *Inflammation and Regeneration*, **2008**, 28, 86-95	10.9	
16	Significant Role of Naturally Occurring Materials in Drug Delivery Technology for Tissue Regeneration Therapy. *ACS Symposium Series*, **2008**, 81-105	0.4	
15	Ultrasound exposure enhances the biological action of interferon in the liver. *Journal of Drug Targeting*, **2002**, 10, 205-9	5.4	
14	Effect of Fascia Implantation and Controlled Release of Basic Fibroblast Growth Factor for Muscle Atrophy in Rat Laryngeal Paralysis. *Otolaryngology - Head and Neck Surgery*, **2021**, 1945998211052895	5.5	
13	Regenerative Medical Therapy for Hard Tissues Based on Tissue Engineering. *Journal of Hard Tissue Biology*, **2005**, 14, 145-146	0.4	
12	Recent advances in tissue engineering for regeneration of oral tissues. *Inflammation and Regeneration*, **2006**, 26, 82-91	10.9	
11	[OPINION]EPR Effect and Molecular Size. *Drug Delivery System*, **2018**, 33, 75-76	0	
10	A New Regenerative Approach to Fetal Myelomeningocele by Cell Sheet Transplantation. *The Showa University Journal of Medical Sciences*, **2017**, 29, 1-7	0.1	
9	Fetal myelomeningocele repair based on cell sheet technology.. *The Japanese Journal of SURGICAL METABOLISM and NUTRITION*, **2014**, 48, 215-218	0	

8	Protocol of Osteoblastic Differentiation of BMSC in Biodegradable Scaffolds Composed of Gelatin and □Tricalcium Phosphate. *Manuals in Biomedical Research*, **2014**, 83-90	
7	Retraction Note: Enhanced suppression of tumor growth using a combination of NK4 plasmid DNA-PEG engrafted cationized dextran complex and ultrasound irradiation. *Cancer Gene Therapy*, **2020**, 27, 266	5.4
6	Accuracy of spiked cell counting methods for designing a pre-clinical tumorigenicity study model. *Heliyon*, **2020**, 6, e04423	3.6
5	Controlled Release Technology to Support Advanced Medicine. *Drug Delivery System*, **2016**, 31, 219-227	0
4	Retraction notice to "In vitro gene expression by cationized derivatives of an artificial protein with repeated RGD sequences, pronectin□ " [J. Control. Release 86 (2002) 169-182]. *Journal of Controlled Release*, **2016**, 232, 268	11.7
3	Retraction notice to "Ultrasound enhances in vivo tumor expression of plasmid DNA by PEG-introduced cationized dextran" [J. Control. Release 108 (2005) 540-556]. *Journal of Controlled Release*, **2016**, 232, 269	11.7
2	Retraction notice to "PEGylation enhances tumor targeting of plasmid DNA by an artificial cationized protein with repeated RGD sequences, Pronectin□ " [J. Control. Release 97 (2004) 157-171]. *Journal of Controlled Release*, **2016**, 232, 270	11.7
1	Studies on Sandwich Culture by Making Use of Biofunctional Hydrogels as a Three-Dimensional Culture Environment. *Kobunshi Ronbunshu*, **2018**, 75, 23-31	0