

部分已发表用户论文（2023）

论文题目：Microneedle Patches with Antimicrobial and Immunomodulating Properties for Infected Wound Healing (2023)

论文期刊：Advanced Science

DOI: 10.1002/advs.202300576

产品型号：**EFL-HAMA-150K**

论文题目：“Slow walk” mimetic tensile loading maintains human meniscus tissue resident progenitor cells homeostasis in photocrosslinked gelatin hydrogel (2023)

论文期刊：Bioactive Materials

DOI: 10.1016/j.bioactmat.2023.01.025

产品型号：**EFL-GM、EFL-LAP、EFL-GM-GF**

论文题目：In-situ Enzymatic Reaction Generates Magnesium-Based Mineralized Microspheres with Superior Bioactivity for Enhanced Bone Regeneration (2023)

论文期刊：Advanced Healthcare Materials

DOI: 10.1002/adhm.202300727

产品型号：**EFL-SilMA-001、EFL-LAP、EFL-LS-1601**

论文题目：Bioprinted Scaffold Remodels the Neuromodulatory Microenvironment for Enhancing Bone Regeneration (2023)

论文期刊：Advanced Functional Materials

DOI: 10.1002/adfm.202304172

产品型号：**EFL-GM-60、EFL-PEGDA-400**

论文题目：An Injectable Integration of Autologous Bioactive Concentrated Growth Factor and Gelatin Methacrylate Hydrogel with Efficient Growth Factor Release and 3D Spatial Structure for Accelerated Wound Healing (2023)

论文期刊：Macromolcor Bioscience

DOI: 10.1002/mabi.202200500

产品型号：**EFL-GM-30**

论文题目：Integrative Analysis Reveals the Diverse Effects of 3D Stiffness upon Stem Cell Fate (2023)

论文期刊：International Journal of Molecular Science

DOI: 10.3390/ijms24119311

产品型号：**EFL-GM-30/60/90**

论文题目：DLP-printed GelMA-PMAA scaffold for bone regeneration through endochondral ossification (2023)

论文期刊：International Journal Bioprinting

DOI: 10.1021/acsapm.2c00952

产品型号: **EFL-BP8601 Pro**

论文题目: 4D Printing of Personalized-Tunable Biomimetic Periosteum with Anisotropic Microstructure for Accelerated Vascularization and Bone Healing (2023)

论文期刊: Advanced Healthcare Materials

DOI: 10.1002/adhm.202202868

产品型号: **EFL-GM-30、EFL-DYE-UF-ENE-G**

论文题目: Gelatin methacryloyl hydrogel, from standardization, performance, to biomedical application (2023)

论文期刊: Advanced Healthcare Materials

DOI: 10.1002/adhm.202300395

产品型号: **EFL-GM-30/60/90、EFL-LAP**

论文题目: A "T.E.S.T." hydrogel bioadhesive assisted by corneal cross-linking for in situ sutureless corneal repair (2023)

论文期刊: Bioactive Materials

DOI: 10.1016/j.bioactmat.2023.02.006

产品型号: **EFL-Gel-001**

论文题目: Formation theory and printability of photocurable hydrogel for 3D bioprinting (2023)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202301209

产品型号: **EFL-GM 系列、EFL-LAP、EFL-GM-LS-001**

论文题目: Porous composite hydrogels with improved MSC survival for robust epithelial sealing around implants and M2 macrophage polarization (2023)

论文期刊: Acta Biomaterialia

DOI: 10.1016/j.actbio.2022.11.029

产品型号: **EFL-GM-PR-002、EFL-SiMA-001、EFL-DYE-UF-ENE-R**

论文题目: Targeting Endogenous Reactive Oxygen Species Removal and Regulating Regenerative Microenvironment at Annulus Fibrosus Defects Promote Tissue Repair (2023)

论文期刊: ACS nano

DOI: 10.1021/acsnano.3c00093

产品型号: **EFL-HAMA-150K、EFL-GelMA-90**

论文题目: Adjustable extracellular matrix rigidity tumor model for studying stiffness dependent pancreatic ductal adenocarcinomas progression and tumor immunosuppression (2023)

论文期刊: Bioengineering & Translational Medicine

DOI: 10.1002/btm2.10518

产品型号: **EFL-GM-60、EFL-GM-90、EFL-LS-1601-405**

论文题目: Repairing Avascular Meniscal Lesions by Recruiting Endogenous Targeted Cells Through Bispecific Synovial-Meniscal Aptamers (2023)

论文期刊: The American Journal of Sports Medicine

DOI: 10.1177/03635465231159668

产品型号: **EFL-GM 系列**

论文题目: Dynamic Magneto-Softening of 3D Hydrogel Reverses Malignant Transformation of Cancer Cells and Enhances Drug Efficacy (2023)

论文期刊: ACS NANO

DOI: 10.1021/acsnano.2c11278

产品型号: **EFL-LS-1601-405**

论文题目: Charge-Driven Self-Assembled Microspheres Hydrogel Scaffolds for Combined Drug Delivery and Photothermal Therapy of Diabetic Wounds (2023)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202214036

产品型号: **EFL-CSMA、EFL-HAMA 系列、EFL-LS-1601-405、EFL-LAP、EFL-DYE-ND**

论文题目: ROS filter coating scaffold protects 3D mesenchymal stem cell spheroids for dual-phase treatment of spinal cord injury (2023)

论文期刊: Chemical Engineering Journal

DOI: 10.1016/j.cej.2023.142192

产品型号: **EFL-GM-PR-002**

论文题目: Creating a semi-opened micro-cavity ovary through sacrificial microspheres as an in vitro model for discovering the potential effect of ovarian toxic agents (2023)

论文期刊: Bioactive Materials

DOI: 10.1016/j.bioactmat.2023.02.029

产品型号: **EFL-GM-60、EFL-GM-90**

论文题目: Loading neural stem cells on hydrogel scaffold improves cell retention rate and promotes functional recovery in traumatic brain injury (2023)

论文期刊: Materials Today Bio

DOI: 10.1016/j.mtbio.2023.100606

产品型号: **EFL-GM-60**

论文题目: The Eradication of Biofilm for Therapy of Bacterial Infected Chronic Wound Based on pH-Responsive Micelle of Antimicrobial Peptide Derived Biodegradable Microneedle Patch (2023)

论文期刊: Chemical Engineering Journal

DOI: 10.1016/j.cej.2023.142222

产品型号: **EFL-HAMA-150K、EFL-HA-150K、EFL-MMN-600、EFL-VDM-001**

论文题目: Nanotherapy for bone repair: milk-derived small extracellular vesicles delivery of icariin (2023)

论文期刊: Drug Delivery

DOI: 10.1080/10717544.2023.2169414

产品型号: **EFL-GM-30**

论文题目: A three-dimensional actively spreading bone repair material based on cell spheroids can facilitate the preservation of tooth extraction sockets (2023)

论文期刊: Frontiers in Bioengineering and Biotechnology

DOI: 10.3389/fbioe.2023.1161192/full

产品型号: **ELF-F127DA-001**

论文题目: Environmentally Stable, Robust, Adhesive and Conductive Supramolecular Deep Eutectic Gels as Ultrasensitive Flexible Temperature Sensor (2023)

论文期刊: Advanced Materials

DOI: 10.1002/adma.202300114

产品型号: **EFL-BP-8601 Pro、TPO-L**

论文题目: 3D-Printed GelMA/PEGDA/F127DA Scaffolds for Bone Regeneration (2023)

论文期刊: Journal of functional biomaterials

DOI: 10.3390/jfb14020096

产品型号: **EFL-PEGDA 系列、EFL-F127DA-001、EFL-BP8601 Pro**

论文题目: Extrusion-based 3D co-printing: Printing material design and novel workflow for fabricating patterned heterogeneous tissue structures (2023)

论文期刊: Materials & Design

DOI: 10.1016/j.matdes.2023.111737

产品型号: **EFL-F127-001**

论文题目: Microneedle Patch Loaded with Exosomes Containing microRNA-29b Prevents Cardiac Fibrosis after Myocardial Infarction (2023)

论文期刊: Advanced Healthcare Materials

DOI: 10.1002/adhm.202202959

产品型号: **EFL-MMN-500**

论文题目: Gelatin methacryloyl (GelMA) loaded Gelatin methacryloyl (GelMA) loaded with concentrated hypoxic pretreated adipose-derived mesenchymal stem cells(ADSCs) conditioned medium promotes wound healing and vascular regeneration in aged skin (2023)

论文期刊: Biomaterials Research

DOI: 10.1186/s40824-023-00352-3

产品型号: **EFL-GM-60、EFL-LAP**

论文题目: Experimental study on repair of cartilage defects in the rabbits with GelMA-MSCs scaffold prepared by three-dimensional bioprinting (2023)

论文期刊: International Journal of Bioprinting

DOI: 10.18063/ijb.v9i2.662

产品型号: EFL-BP6601、EFL-GM-60、EFL-LAP

论文题目: Collagen type I-loaded methacrylamide hyaluronic acid hydrogel microneedles alleviate stress urinary incontinence in mice: A novel treatment and prevention strategy (2023)

论文期刊: Colloids and Surfaces B: Biointerfaces

DOI: 10.1016/j.colsurfb.2022.113085

产品型号: EFL-HAMA-150K, EFL-MMN-600, EFL-LAP、EFL-VDM-001

论文题目: Bioprinting a skin patch with dual-crosslinked gelatin (GelMA) and silk fibroin (SilMA): An approach to accelerating cutaneous wound healing (2023)

论文期刊: Materials Today Bio

DOI: 10.1016/j.mtbio.2023.100550

产品型号: EFL-SilMA-001、EFL-LAP

论文题目: Bioprinting EphrinB2-modified DPSCs with enhanced osteogenic capacity for alveolar bone engineering (2023)

论文期刊: Tissue Engineering Part A

DOI: 10.1089/ten.tea.2022.0180

产品型号: EFL-GM-60、EFL-GM-LS-001、EFL-LS-1601-405

论文题目: Equivalent Circuit Models for Magnetoelastic Resonance Sensors with Various Surface Loadings (2023)

论文期刊: IEEE Sensors Journal

DOI: 10.1109/JSEN.2023.3235982

产品型号: EFL-GM-30,60,90、EFL-LAP、EFL-LS-1600

论文题目: Mechano-responsive hydrogel for direct stem cell manufacturing to therapy (2023)

论文期刊: Bioactive Materials

DOI: 10.1016/j.bioactmat.2022.12.019

产品型号: EFL-LS-1601-405

论文题目: Multifunctional Integrated Nanozymes Facilitate Spinal Cord Regeneration by Remodeling the Extrinsic Neural Environment (2023)

论文期刊: Advanced Science

DOI: 10.1002/advs.202205997

产品型号: EFL-LS-1601-405

论文题目: Bioprinted Scaffold Remodels the Neuromodulatory Microenvironment for Enhancing Bone Regeneration (2023)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202304172

产品型号: EFL-GM-60、EFL-PEGDA-400K

论文题目: Porous microneedle patch with sustained delivery of extracellular vesicles mitigates severe spinal cord injury (2023)

论文期刊: Nature Communications

DOI: 10.1038/s41467-023-39745-2

产品型号: **EFL-MMN-600、EFL-GM-PR-001、EFL-GM-60、EFL-LAP**

论文题目: Micro-nanofiber composite biomimetic conduits promote long-gap peripheral nerve regeneration in canine models (2023)

论文期刊: Bioactive materials

DOI: 10.1016/j.bioactmat.2023.06.015

产品型号: **EFL-MDW5800**

论文题目: ROS-responsive microneedles loaded with integrin $\alpha v\beta 6$ -blocking antibodies for the treatment of pulmonary fibrosis (2023)

论文期刊: Journal of Controlled Release

DOI: 10.1016/j.jconrel.2023.03.060

产品型号: **EFL-HAMA-150K、EFL-HAMA-400K**

论文题目: A Hierarchical 3D Graft Printed with Nanoink for Functional Craniofacial Bone Restoration (2023)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202301099

产品型号: **EFL-BP8601、EFL-GM-90**

论文题目: 3D printing of vascularized hepatic tissues with a high cell density and heterogeneous microenvironment (2023)

论文期刊: Biofabrication

DOI: 10.1088/1758-5090/ace5e0

产品型号: **EFL-GM-60、EFL-GM-RF、EFL-GM-GF**

论文题目: Blue-ringed Octopus Inspired Microneedle Patch for Robust Tissue Surface Adhesion and Active-injection Drug Delivery (2023)

论文期刊: Science Advances

DOI: 10.1126/sciadv.adh2213

产品型号: **EFL-SF-001**

论文题目: Biomimetic Microenvironmental Stiffness Boosts Stemness of Pancreatic Ductal Adenocarcinoma via Augmented Autophagy (2023)

论文期刊: ACS Biomaterials Science & Engineering

DOI: 10.1021/acsbiomaterials.3c00487

产品型号: **EFL-GM-60、EFL-LAP**

论文题目: Corneal stromal filler injection of gelatin-based photocurable hydrogels for maintaining the corneal thickness and reconstruction of corneal stroma (2023)

论文期刊: Composites Part B: Engineering

DOI: 10.1016/j.compositesb.2023.111004

产品型号: EFL-CLD-001、EFL-GM-60、EFL-GM-90、EFL-LAP

论文题目: A bioengineered trachea-like structure improves survival in a rabbit tracheal defect model (2023)

论文期刊: Science Translational Medicine

DOI: 10.1126/scitranslmed.abo4272

产品型号: EFL-MDW5800

论文题目: 3D bioprinting of complex biological structures with tunable elastic modulus and porosity using freeform reversible embedding of suspended hydrogels (2023)

论文期刊: Bio-Design and Manufacturing

DOI: 10.1007/s42242-023-00251-5

产品型号: EFL-BP-6602 Pro

论文题目: Magnetic Field-Directed Deep Thermal Therapy via Double-Layered Microneedle Patch for Promoting Tissue Regeneration in Infected Diabetic Skin Wounds (2023)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202306357

产品型号: EFL-HAMA-150K、EFL-HAMA-400K

论文题目: Multicellular Bioprinting of Biomimetic Inks for Tendon-to-Bone Regeneration (2023)

论文期刊: Advanced Science

DOI: 10.1002/advs.202301309

产品型号: EFL-GM-LS-001

论文题目: Core-Shell Droplet-Based Microfluidic Screening System for Filamentous Fungi (2023)

论文期刊: ACS Sensors

DOI: 10.1021/acssensors.3c01018

产品型号: EFL-GM-90、EFL-LAP、EFL-LS-1601-405

论文题目: Photoinhibiting via simultaneous photoabsorption and free-radical reaction for high-fidelity light-based bioprinting (2023)

论文期刊: Nature Communications

DOI: 10.1038/s41467-023-38838-2

产品型号: EFL-SiMA-001

论文题目: Expanding Embedded 3D Bioprinting Capability for Engineering Complex Organs with Freeform Vascular Networks (2023)

论文期刊: Advanced Materials

DOI: 10.1002/adma.202205082

产品型号: EFL-GM-60、EFL-LAP

论文题目：Engineering Highly Vascularized Bone Tissues by 3D Bioprinting of Granular Prevascularized Spheroids (2023)

论文期刊：ACS Applied Materials & Interfaces

DOI: 10.1021/acsami.3c08550

产品型号：**EFL-GM-30、EFL-LAP**

论文题目：Oriented artificial niche provides physical-biochemical stimulations for rapid nerve regeneration (2023)

论文期刊：Materials Today Bio

DOI: 10.1016/j.mtbio.2023.100736

产品型号：**EFL-GM-60**

论文题目：Biocompatible scaffolds constructed by chondroitin sulfate microspheres conjugated 3D-printed frameworks for bone repair (2023)

论文期刊：Carbohydrate Polymers

DOI: 10.1016/j.carbpol.2022.120188

产品型号：**EFL-BP6601、EFL-LAP**

论文题目：Varying Mechanical Forces Drive Sensory Epithelium Formation (2023)

论文期刊：Science Advances

DOI: 10.1126/sciadv.adf2664

产品型号：**EFL-GM-60、EFL-Pep-RGDFKAC**

论文题目：Bionic Mineralized 3D-Printed Scaffolds with Enhanced In Situ Mineralization for Cranial Bone Regeneration (2023)

论文期刊：Advanced Functional Materials

DOI: 10.1002/adfm.202309042

产品型号：**EFL-BP8600**

论文题目：All-in-one smart dressing for simultaneous angiogenesis and neural regeneration (2023)

论文期刊：Journal of Nanobiotechnology

DOI: 10.1186/s12951-023-01787-5

产品型号：**EFL-GM-60**

论文题目：3D bioprinting of calcium molybdate nanoparticles-containing immunomodulatory bioinks for hair regrowth (2023)

论文期刊：Nano Today

DOI: 10.1016/j.nantod.2023.101917

产品型号：**EFL-GM-LS-001、EFL-LS-1601-405**

论文题目：Antibacterial, adhesive, and MSC exosomes encapsulated microneedles with spatio-temporal variation functions for diabetic wound healing (2023)

论文期刊: Nano Today

DOI: 10.1016/j.nantod.2022.101630

产品型号: **EFL-SHMA-001**

论文题目: Two-step method fabricating a 3D nerve cell model with brain-like mechanical properties and tunable porosity vascular structures via coaxial printing (2023)

论文期刊: Colloids and Surfaces B: Biointerfaces

DOI: 10.1016/j.colsurfb.2023.113202

产品型号: **EFL-BP6602 Pro**

论文题目: Xonotlite Nanowire-Containing Bioactive Scaffolds for the Therapy of Defective Adipose Tissue in Breast Cancer (2023)

论文期刊: Nano Letters

DOI: 10.1021/acs.nanolett.3c02016

产品型号: **EFL-LAP**

论文题目: A multifunctional nanocomposite hydrogel with controllable release behavior enhances bone regeneration (2023)

论文期刊: Regenerative Biomaterials

DOI: 10.1093/rb/rbad046

产品型号: **EFL-LAP、EFL-DYE-UF-ENE-R**

论文题目: Bioinspired nanovesicles released from injectable hydrogels facilitate diabetic wound healing by regulating macrophage polarization and endothelial cell dysfunction (2023)

论文期刊: Journal of Nanobiotechnology

DOI: 10.1186/s12951-023-02119-3

产品型号: **EFL-GM-60**

论文题目: Matrix stiffness triggers chemoresistance through elevated autophagy in pancreatic ductal adenocarcinoma (2023)

论文期刊: Biomaterials Science

DOI: 10.1039/d3bm00598d

产品型号: **EFL-GM-60、EFL-LAP**

论文题目: Quercetin-solid lipid nanoparticle-embedded hyaluronic acid functionalized hydrogel for immunomodulation to promote bone reconstruction (2023)

论文期刊: Regenerative Biomaterials

DOI: 10.1093/rb/rbad025

产品型号: EFL-Alizarin red staining

论文题目: Disc regeneration by injectable fucoidanmethacrylated dextran hydrogels through mechanical transduction and macrophage immunomodulation (2023)

论文期刊: Journal of Tissue Engineering

DOI: 10.1177/20417314231180050

产品型号: EFL-LAP

论文题目: GelMA hydrogel scaffold containing curcumin-loaded solid lipid nanoparticles promotes the regeneration of degenerative discs (2023)

论文期刊: SN Applied Sciences

DOI: 10.1007/s42452-023-05467-9

产品型号: EFL-LAP

论文题目: Antifungal bio-coating of endotracheal tube built by overexpressing the MCP1 gene of *Saccharomyces boulardii* and employing hydrogel as a "house" to antagonize *Candida albicans* (2023)

论文期刊: Biomaterials research

DOI: 10.1186/s40824-023-00443-1

产品型号: EFL-GM-60、EFL-LAP

论文题目: Injectable Living Probiotic Dressing Built by Droplet-Based Microfluidics and Photo-Cross-Linking to Prevent Pathogenic Infection and Promote Wound Repair (2023)

论文期刊: Advanced Healthcare Materials

DOI: 10.1002/adhm.202302423

产品型号: EFL-GM-60、EFL-LAP

论文题目: Transplantation of active nucleus pulposus cells with a keep-charging hydrogel microsphere system to rescue intervertebral disc degeneration (2023)

论文期刊: Journal of Nanobiotechnology

DOI: 10.1186/s12951-023-02226-1

产品型号: EFL-GM-60、EFL-LAP

论文题目: Reconstruction of tracheal window-shape defect by 3D printed polycaprolatone scaffold coated with Silk Fibroin Methacryloyl (2023)

论文期刊: Biotechnology Journal

DOI: 10.1002/biot.202300040

产品型号: **EFL-SHMA-001, EFL-SCR 系列**

论文题目: Metabolic Response Modulations by Zwitterionic Hydrogels for Achieving Promoted Bone Regeneration (2023)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202309594

产品型号: **EFL-GM-90, EFL-LAP**

论文题目: Individualized bio-scaffold encapsulating siPTEN-loaded exosomes for promoting neuronal regeneration in spinal cord injury (2023)

论文期刊: Composites Part B: Engineering

DOI: 10.1016/j.compositesb.2023.111146

产品型号: **EFL-GM-60, EFL-BP8601**

部分已发表用户论文 (2022)

论文题目: Persistent Production of Reactive Oxygen Species with Zn₂GeO₄:Cu Nanorod-Loaded Microneedles for Methicillin-Resistant Staphylococcus Aureus Infectious Wound Healing (2022)

论文期刊: ACS Applied Materials & Interfaces

DOI: 10.1021/acsami.2c02503

产品型号: **EFL-HA-150K, EFL-PVA-001**

论文题目: Photothermal Nanozyme-based Microneedle Patch against Refractory Bacterial Biofilm Infection via Iron-actuated Janus Ion Therapy (2022)

论文期刊: Advanced Materials

DOI: 10.1002/adma.202207961

产品型号: **EFL-HAMA-150K**

论文题目: Regulating Macrophage Polarization in High Glucose Microenvironment Using Lithium-Modified Bioglass-Hydrogel for Diabetic Bone Regeneration (2022)

论文期刊: Advanced Healthcare Materials

DOI: 10.1002/adhm.202200298

产品型号: **EFL-LAP, EFL-LS-1600-405**

论文题目: Mechanically enhanced composite hydrogel scaffold for in situ bone repairs (2022)

论文期刊: Biomaterials Advances

DOI: 10.1016/j.msec.2022.112700

产品型号: **EFL-LAP**

论文题目: Congenital microtia patients: the genetically engineered exosomes released from porous gelatin methacryloyl hydrogel for downstream small RNA profiling, functional modulation of microtia chondrocytes and tissue-engineered ear cartilage regeneration (2022)

论文期刊: Journal of Nanobiotechnology

DOI: 10.1186/s12951-022-01352-6

产品型号: **EFL-GM-30、EFL-GM-PR-002、EFL-SCR 系列**

论文题目: Three-Dimensional-Cultured MSC-Derived Exosome-Hydrogel Hybrid Microneedle Array Patch for Spinal Cord Repair (2022)

论文期刊: Nano Letters

DOI: 10.1021/acs.nanolett.2c02259

产品型号: **EFL-GM-60、EFL-SCR-3D-24-2、EFL-LAP、EFL-MMN-500**

论文题目: 3D bioprinting of cell-laden nano-attapulgit/gelatin methacrylate composite hydrogel scaffolds for bone tissue repair (2022)

论文期刊: Journal of Materials Science & Technology

DOI: 10.1016/j.jmst.2022.07.011

产品型号: **EFL-LAP**

论文题目: Artificial Intelligence-Assisted Bioinformatics, Microneedle, and Diabetic Wound Healing: A “New Deal” of an Old Drug (2022)

论文期刊: ACS Applied Materials & Interfaces

DOI: 10.1021/acsami.2c08994

产品型号: **EFL-AlgMA 系列、EFL-LAP、EFL-MMN-600**

论文题目: Mineralized Enzyme-Based Biomaterials with Superior Bioactivities for Bone Regeneration (2022)

论文期刊: ACS Applied Materials & Interfaces

DOI: 10.1021/acsami.2c05794

产品型号: **EFL-GM-60**

论文题目: A Silk Fibroin Methacryloyl-Modified Hydrogel Promoting Cell Adhesion for Customized 3D Cell-Laden Structures (2022)

论文期刊: ACS Applied Polymer Materials

DOI: 10.1021/acsapm.2c00952

产品型号: **EFL-SiMA-001、EFL-LAP**

论文题目: Three-Dimensional Printing Self-Healing Dynamic/Photocrosslinking Gelatin-Hyaluronic Acid Double-Network Hydrogel for Tissue Engineering (2022)

论文期刊: ACS Omega

DOI: 10.1021/acsomega.2c00335

产品型号：EFL-GM-60、EFL-LAP、EFL-LS-1601-405

论文题目：Chondroitin sulfate microspheres anchored with drug-loaded liposomes play a dual antioxidant role in the treatment of osteoarthritis (2022)

论文期刊：Acta Biomaterialia

DOI：10.1016/j.actbio.2022.07.052

产品型号：EFL-ChSMA-001、EFL-LAP

论文题目：Hyaluronic acid methacrylate/pancreatic extracellular matrix as a potential 3D printing bioink for constructing islet organoids (2022)

论文期刊：Acta Biomaterialia

DOI：10.1016/j.actbio.2022.06.036

产品型号：EFL-HAMA 系列、EFL-BP86 系列

论文题目：Gelatin methacryloyl-alginate core-shell microcapsules as efficient delivery platforms for prevascularized microtissues in endodontic regeneration (2022)

论文期刊：Acta Biomaterialia

DOI：10.1016/j.actbio.2022.03.045

产品型号：EFL-GM-90、EFL-LAP、EFL-LS-1601-405

论文题目：VH298-loaded extracellular vesicles released from gelatin methacryloyl hydrogel facilitate diabetic wound healing by HIF-1 α -mediated enhancement of angiogenesis (2022)

论文期刊：Acta Biomaterialia

DOI：10.1016/j.actbio.2022.05.018

产品型号：EFL-GM 系列、EFL-LAP

论文题目：Transcriptome Analysis Revealed the Symbiosis Niche of 3D Scaffolds to Accelerate Bone Defect Healing (2022)

论文期刊：Advanced Science

DOI：10.1002/advs.202105194

产品型号：EFL-BP6601

论文题目：The PCK2-glycolysis axis assists three-dimensional-stiffness maintaining stem cell osteogenesis (2022)

论文期刊：Bioactive Materials

DOI：10.1016/j.bioactmat.2022.03.036

产品型号：EFL-GM 系列

论文题目：3D printed biomimetic epithelium/stroma bilayer hydrogel implant for corneal regeneration (2022)

论文期刊：Bioactive Materials

DOI：10.1016/j.bioactmat.2022.01.034

产品型号：EFL-BP8600、EFL-LAP

论文题目: Smart acoustic 3D cell construct assembly with high-resolution (2022)

论文期刊: Biofabrication

DOI: 10.1088/1758-5090/ac7c90

产品型号: **EFL-GM-60**

论文题目: Analysis of the potential role of photocurable hydrogel in patient-derived glioblastoma organoid culture through RNA sequencing (2022)

论文期刊: Biomaterials Science

DOI: 10.1039/D2BM00589A

产品型号: **EFL-GM-60、EFL-HA-150K、EFL-GM-LS-001**

论文题目: Engineering the viscoelasticity of gelatin methacryloyl (GelMA) hydrogels via small “dynamic bridges” to regulate BMSC behaviors for osteochondral regeneration (2022)

论文期刊: Bioactive Materials

DOI: 10.1016/j.bioactmat.2022.07.031

产品型号: **EFL-GM-30、EFL-GM-60、EFL-GM-90**

论文题目: Epithelial Gasdermin D shapes the host-microbial interface by driving mucus layer formation (2022)

论文期刊: Science Immunology

DOI: 10.1126/sciimmunol.abk2092

产品型号: **EFL-BP8600**

论文题目: Fabrication of aerogel scaffolds with adjustable macro/micro-pore structure through 3D printing and sacrificial template method for tissue engineering (2022)

论文期刊: Materials & Design

DOI: 10.1016/j.matdes.2022.110662

产品型号: **EFL-BP6602**

论文题目: Fabrication of hydrogels with adjustable mechanical properties through 3D cell-laden printing technology (2022)

论文期刊: Colloids and Surfaces A: Physicochemical and Engineering Aspects

DOI: 10.1016/j.colsurfa.2022.128980

产品型号: **EFL-GM-90、EFL-LAP**

论文题目: Hyaluronic acid methacrylate/pancreatic extracellular matrix as a potential 3D printing bioink for constructing islet organoids (2022)

论文期刊: Acta Biomaterialia

DOI: 10.1016/j.actbio.2022.06.036

产品型号: **EFL-BP 系列**

论文题目: 3D-bioprinted Recombination Structure of Hertwig's Epithelial Root Sheath Cells and Dental Papilla Cells for Alveolar Bone Regeneration (2022)

论文期刊: International Journal of Bioprinting

DOI: 10.18063/ijb.v8i3.512

产品型号: **EFL-GM-60**

论文题目: Low-intensity pulsed ultrasound promotes cell viability and inhibits apoptosis of H9C2 cardiomyocytes in 3D bioprinting scaffolds via PI3K-Akt and ERK1/2 pathways (2022)

论文期刊: Journal of Biomaterials Applications

DOI: 10.1177/08853282221102669

产品型号: **EFL-GM 系列、EFL-LAP、EFL-LS-1601-405**

论文题目: An injectable photo-cross-linking silk hydrogel system augments diabetic wound healing in orthopaedic surgery through spatiotemporal immunomodulation (2022)

论文期刊: Journal of Nanobiotechnology

DOI: 10.1186/s12951-022-01414-9

产品型号: **EFL-SilMA-001**

论文题目: Super-aligned carbon nanotubes and GelMA hydrogel composite scaffolds promote spiral ganglion neuron growth and orientation (2022)

论文期刊: Materials Today Nano

DOI: 10.1016/j.mtnano.2022.100181

产品型号: **EFL-GM-60**

论文题目: Photocurable Hydrogel Substrate—Better Potential Substitute on Bone-Marrow-Derived Dendritic Cells Culturing (2022)

论文期刊: Materials

DOI: 10.3390/ma15093322

产品型号: **EFL-GM-30**

论文题目: Microneedle Patches Integrated with Biom mineralized Melanin Nanoparticles for Simultaneous Skin Tumor Photothermal Therapy and Wound Healing (2022)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202113269

产品型号: **EFL-HAMA 系列、EFL-MMN 系列**

论文题目: Microtissue-Based Bioink as A Chondrocyte Micro-Shelter for DLP Bioprinting (2022)

论文期刊: Advanced Healthcare Materials

DOI: 10.1002/adhm.202201877

产品型号: **EFL-BP8600、EFL-GM-90、EFL-LAP**

论文题目: 3D Bioprinted GelMA-Nanoclay Hydrogels Induce Colorectal Cancer Stem Cells Through Activating Wnt/ β -Catenin Signaling (2022)

论文期刊: Small

DOI: 10.1002/sml.202200364

产品型号：EFL-GM-60、EFL-LAP

论文题目：Superwetable and injectable GelMA-MSC microspheres promote cartilage repair in temporomandibular joints (2022)

论文期刊：Frontiers in Bioengineering and Biotechnology

DOI：10.3389/fbioe.2022.1026911/full

产品型号：EFL-MS-C-GM 系列

论文题目：3D bioprinted tumor model with extracellular matrix enhanced bioinks for nanoparticle evaluation (2022)

论文期刊：Biofabrication

DOI：10.1088/1758-5090/ac48e4

产品型号：EFL-GM-LS-001

论文题目：Biomimetic cell membrane-coated glucose/oxygen-exhausting nanoreactor for remodeling tumor microenvironment in targeted hypoxic tumor therapy (2022)

论文期刊：Biomaterials

DOI：10.1016/j.biomaterials.2022.121821

产品型号：EFL-SP101

论文题目：3D bioprinting of in situ vascularized tissue engineered bone for repairing large segmental bone defects (2022)

论文期刊：Materials Today Bio

DOI：10.1016/j.mtbio.2022.100382

产品型号：EFL-GM 系列、EFL-LAP、EFL-LS-1601-405

论文题目：3D Bioprinting of Living Materials for Structure-Dependent Production of Hyaluronic Acid (2022)

论文期刊：ACS Macro Letters

DOI：10.1021/acsmacrolett.2c00037

产品型号：EFL-GEL-001、EFL-LAP、EFL-LS-1601-405

论文题目：3D-printed mesoporous bioactive glass/GelMA biomimetic scaffolds for osteogenic/cementogenic differentiation of periodontal ligament cells (2022)

论文期刊：Frontiers in Bioengineering and Biotechnology

DOI：10.3389/fbioe.2022.950970/full

产品型号：EFL-GM 系列、EFL-LAP

论文题目：3D Printing Mini-Capsule Device for Islet Delivery to Treat Type 1 Diabetes (2022)

论文期刊：ACS Applied Materials & Interfaces

DOI：10.1021/acsaami.2c02487

产品型号：EFL-GM-100-M3、EFL-LAP

论文题目：3D printing of reduced glutathione grafted gelatine methacrylate hydrogel scaffold promotes diabetic bone regeneration by activating PI3K/Akt signaling pathway (2022)

论文期刊：International Journal of Biological Macromolecules

DOI：10.1016/j.ijbiomac.2022.09.236

产品型号：**EFL-GM 系列、EFL-LAP**

论文题目：A Cell-Free Silk Fibroin Biomaterial Strategy Promotes In Situ Cartilage Regeneration Via Programmed Releases of Bioactive Molecules (2022)

论文期刊：Advanced healthcare materials

DOI：10.1002/adhm.202201588

产品型号：**EFL-HAMA 系列、EFL-LAP**

论文题目：A decellularized spinal cord extracellular matrix-gel/GelMA hydrogel three-dimensional composite scaffold promotes recovery from spinal cord injury via synergism with human menstrual blood-derived stem cells (2022)

论文期刊：Journal of Materials Chemistry B

DOI：10.1039/d2tb00792d

产品型号：**EFL-GM 系列、EFL-LAP**

论文题目：A versatile embedding medium for freeform bioprinting with multi-crosslinking methods (2022)

论文期刊：Biofabrication

DOI：10.1088/1758-5090/ac7909

产品型号：**EFL-GM-90、EFL-LAP**

论文题目：An artificial LAMA2-GelMA hydrogel microenvironment for the development of pancreatic endocrine progenitors (2022)

论文期刊：Biomaterials

DOI：10.1016/j.biomaterials.2022.121882

产品型号：**EFL-GM 系列、EFL-LAP**

论文题目：An injectable curcumin-releasing organohydrogel with non-drying property and high mechanical stability at low-temperature for expedited skin wound care (2022)

论文期刊：Journal of Materials Science & Technology

DOI：10.1016/j.jmst.2022.06.002

产品型号：**EFL-GM 系列**

论文题目：Biomimetic peridontium patches for functional periodontal regeneration (2022)

论文期刊：Advanced healthcare materials

DOI：10.1002/adhm.202202169

产品型号：**EFL-GM-90**

论文题目：Calcium silicate nanowires-containing multicellular bioinks for 3D bioprinting of neural-bone constructs (2022)

论文期刊：Nano Today

DOI: 10.1016/j.nantod.2022.101584

产品型号: **EFL-LS-1601-405**

论文题目: circ_0003204 regulates the osteogenic differentiation of human adipose-derived stem cells via miR-370-3p/HDAC4 axis (2022)

论文期刊: International Journal of Oral Science

DOI: 10.1038/s41368-022-00184-2

产品型号: **EFL-GM-90**

论文题目: Construction of a decellularized spinal cord matrix/GelMA composite scaffold and its effects on neuronal differentiation of neural stem cells (2022)

论文期刊: Journal of Biomaterials Science Polymer Edition

DOI: 10.1080/09205063.2022.2102275

产品型号: **EFL-GM 系列、EFL-LAP**

论文题目: Epidermal growth factor-loaded microspheres/hydrogel composite for instant hemostasis and liver regeneration (2022)

论文期刊: Smart Materials in Medicine

DOI: 10.1016/j.smim.2022.09.006

产品型号: **EFL-GM 系列、EFL-LAP**

论文题目: Functional gelatin hydrogel scaffold with degraded-release of glutamine to enhance cellular energy metabolism for cartilage repair (2022)

论文期刊: International Journal of Biological Macromolecules

DOI: 10.1016/j.ijbiomac.2022.09.039

产品型号: **EFL-GM 系列、EFL-LAP**

论文题目: Graded-Three-Dimensional Cell-Encapsulating Hydrogel as a Potential Biologic Scaffold for Disc Tissue Engineering (2022)

论文期刊: Tissue Engineering and Regenerative Medicine

DOI: 10.1007/s13770-022-00480-2

产品型号: **EFL-GM 系列、EFL-LAP**

论文题目: Heterogeneous spheroids with tunable interior morphologies by droplet-based microfluidics (2022)

论文期刊: Biofabrication

DOI: 10.1088/1758-5090/ac5e12

产品型号: **EFL-GM 系列、EFL-LAP**

论文题目: Microtissue-Based Bioink as a Chondrocyte Microshelter for DLP Bioprinting (2022)

论文期刊: Advanced Healthcare Materials

DOI: 10.1002/adhm.202201877

产品型号: **EFL-BP-8600、EFL-GM 系列**

论文题目: Orchestration of energy metabolism and osteogenesis by Mg²⁺ facilitates low-dose BMP-2-driven regeneration (2022)

论文期刊: Bioactive Materials

DOI: 10.1016/j.bioactmat.2022.03.024

产品型号: **EFL-AIgMA 系列、EFL-GM 系列**

论文题目: Regurable Supporting Baths for Embedded Printing of Soft Biomaterials with Variable Stiffness (2022)

论文期刊: ACS Applied Materials & Interfaces

DOI: 10.1021/acsami.2c09221

产品型号: **EFL-GM-90、EFL-LAP**

论文题目: Salvianolic acid B combined with bone marrow mesenchymal stem cells piggybacked on HAMA hydrogel re-transplantation improves intervertebral disc degeneration (2022)

论文期刊: Frontiers in Bioengineering and Biotechnology

DOI: 10.3389/fbioe.2022.950625

产品型号: **EFL-HAMA-400K**

论文题目: A 3D-bioprinted functional module based on decellularized extracellular matrix bioink for periodontal regeneration (2022)

论文期刊: Advanced science

DOI: 10.1002/advs.202205041

产品型号: **EFL-GM-60、EFL-LAP**

论文题目: Cell Infiltrative Inner Connected Porous Hydrogel Improves Stem Cell Migration and Differentiation for Functional Repair of Spinal Cord Injury (2022)

论文期刊: ACS Biomaterials Science & Engineering

DOI: 10.1021/acsbomaterials.2c01127

产品型号: **EFL-GM-60、EFL-GM-PR-002、EFL-LAP、EFL-DYE-UF-ENE-R**

论文题目: High-resolution 3D printing of angle-ply annulus fibrosus scaffolds for intervertebral disc regeneration (2022)

论文期刊: Biofabrication

DOI: 10.1088/1758-5090/aca71f/meta

产品型号: **EFL-GM-60**

论文题目: Low-Swelling Adhesive Hydrogel with Rapid Hemostasis and Potent Anti-Inflammatory Capability for Full-Thickness Oral Mucosal Defect Repair (2022)

论文期刊: ACS Applied Materials & Interfaces

DOI: 10.1021/acsami.2c18664

产品型号: **EFL-LAP**

论文题目: Low-Swelling Adhesive Hydrogel with Rapid Hemostasis and Potent Anti-Inflammatory Capability for Full-Thickness Oral Mucosal Defect Repair (2022)

论文期刊: ACS Applied Materials & Interfaces

DOI: 10.1021/acsami.2c18664

产品型号: **EFL-LAP**

论文题目: One-Step Generation of Porous GelMA Microgels by Droplet-Based Chaotic Advection Effect (2022)

论文期刊: Advanced Materials Technologies

DOI: 10.1002/admt.202201102

产品型号: **EFL-LAP、EFL-GM-LS-001**

论文题目: Rapid trapping and tagging of microparticles in controlled flow by in situ digital projection lithography (2022)

论文期刊: Lab on chip

DOI: 10.1039/D2LC00186A

产品型号: **EFL-PEGDA 系列、EFL-LAP**

论文题目: Silk fibroin-based colorimetric microneedle patch for rapid detection of spoilage in packaged salmon samples (2022)

论文期刊: Food Chemistry

DOI: 10.1016/j.foodchem.2022.135039

产品型号: **EFL-SiMA-001、EFL-LAP**

论文题目: Size- and density-dependent acoustic differential bioassembly of spatially-defined heterocellular architecture (2022)

论文期刊: Biofabrication

DOI: 10.1088/1758-5090/aca79c

产品型号: **EFL-GM-PR 系列**

论文题目: Study on properties of 3D-printed GelMA hydrogel scaffolds with different nHA contents (2022)

论文期刊: Journal of Bioactive and Compatible Polymers

DOI: 10.1177/08839115221119211

产品型号: **EFL-BP-8601pro、EFL-GM-60、EFL-LAP**

论文题目: Vascularized dental pulp regeneration using cell-laden microfiber aggregates (2022)

论文期刊: Journal of Materials Chemistry B

DOI: 10.1039/D2TB01825J

产品型号: **EFL-GM-90**

论文题目: Application of Bone Marrow-Derived Macrophages Combined with Bone Mesenchymal Stem Cells in Dual-Channel Three-Dimensional Bioprinting Scaffolds for Early Immune Regulation and Osteogenic Induction in Rat Calvarial Defects (2022)

论文期刊: ACS Applied Materials & Interfaces

DOI: 10.1021/acsami.2c13557

产品型号: **EFL-HAMA 系列、EFL-GM 系列**

论文题目: Three-in-one customized bioink for islet organoid: GelMA/ECM/PRP orchestrate pro-angiogenic and immunoregulatory function (2022)

论文期刊: Colloids and Surfaces B: Biointerfaces

DOI: 10.1016/j.colsurfb.2022.113017

产品型号: **EFL-BP8601 Pro、EFL-GM-60、EFL-GM-LS-001、EFL-LAP**

论文题目: ZIF-8 modified multifunctional injectable photopolymerizable GelMA hydrogel for the treatment of periodontitis (2022)

论文期刊: Acta Biomaterialia

DOI: 10.1016/j.actbio.2022.03.046

产品型号: **EFL-GM-60**

部分已发表用户论文 (2021)

论文题目: Donut-like MOFs of copper/nicotinic acid and composite hydrogels with superior bioactivity for rh-bFGF delivering and skin wound healing (2021)

论文期刊: Journal of Nanobiotechnology

DOI: 10.1186/s12951-021-01014-z

产品型号: **EFL-GM 系列**

论文题目: 3D-bioprinted peptide coupling patches for wound healing (2021)

论文期刊: Materials Today Bio

DOI: 10.1016/j.mtbio.2021.100188

产品型号: **EFL-GM 系列、EFL-HAMA 系列**

论文题目: Platelet lysate functionalized gelatin methacrylate microspheres for improving angiogenesis in endodontic regeneration (2021)

论文期刊: Acta Biomaterialia

DOI: 10.1016/j.actbio.2021.09.024

产品型号: **EFL-GM-90、EFL-LS-1600-405**

论文题目: 3D Printing of Cell-Laden Microgel-Based Biphasic Bioink with Heterogeneous Microenvironment for Biomedical Applications (2021)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202109810

产品型号: **EFL-GM-60、EFL-LAP**

论文题目: Peripheral Nerve Regeneration with 3D Printed Bionic Scaffolds Loading Neural Crest Stem Cell Derived Schwann Cell Progenitors (2021)

论文期刊: Advanced

DOI: 10.1002/adfm.202010215

产品型号: **EFL-BP6601**

论文题目: Mussel-inspired blue-light-activated cellulose-based adhesive hydrogel with fast gelation, rapid haemostasis and antibacterial property for wound healing (2021)

论文期刊: Chemical Engineering Journal

DOI: 10.1016/j.cej.2021.129329

产品型号: **EFL-LAP**

论文题目: HtrA3-Mediated Endothelial Cell-Extracellular Matrix Crosstalk Regulates Tip Cell Specification (2021)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202100633

产品型号: **EFL-GM 系列**

论文题目: Bioprinted Constructs that Mimic the Ossification Center Microenvironment for Targeted Innervation in Bone Regeneration (2021)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202109871

产品型号: **EFL-GM 系列、EFL-AlgMA 系列**

论文题目: 3D bioprinting of proangiogenic constructs with induced immunomodulatory microenvironments through a dual cross-linking procedure using laponite incorporated bioink (2021)

论文期刊: Composites Part B: Engineering

DOI: 10.1016/j.compositesb.2021.109399

产品型号: **EFL-GM 系列、EFL-LAP**

论文题目: 3D bioprinting modified autologous matrix-induced chondrogenesis (AMIC) technique for repair of cartilage defects (2021)

论文期刊: Materials and Design

DOI: 10.1016/j.matdes.2021.109621

产品型号: **EFL-BP-6601**

论文题目: Mussel-Inspired Conductive Hydrogel with Self-Healing, Adhesive, and Antibacterial Properties for Wearable Monitoring (2021)

论文期刊: ACS Applied Polymer Materials

DOI: 10.1021/acsapm.1c01026

产品型号: **EFL-LAP、EFL-LS-1601-405**

论文题目: Nitric Oxide Nanomotor Driving Exosomes Loaded Microneedles for Achilles Tendinopathy Healing (2021)

论文期刊: ACS Nano

DOI: 10.1021/acsnano.1c03177

产品型号：EFL-GM-90

论文题目：Magnesium Ammonium Phosphate Composite Cell-Laden Hydrogel Promotes Osteogenesis and Angiogenesis In Vitro (2021)

论文期刊：ACS Omega

DOI：10.1021/acsomega.0c06083

产品型号：EFL-GM 系列、EFL-LAP

论文题目：A 3D-printed PRP-GelMA hydrogel promotes osteochondral regeneration through M2 macrophage polarization in a rabbit model (2021)

论文期刊：Acta Biomaterialia

DOI：10.1016/j.actbio.2021.04.010

产品型号：EFL-GM-90

论文题目：Targeting Endogenous Hydrogen Peroxide at Bone Defects Promotes Bone Repair (2021)

论文期刊：Advanced Functional Materials

DOI：10.1002/adfm.202111208

产品型号：EFL-GM 系列、EFL-LAP、EFL-LA-1600-405

论文题目：Fabrication of Thermo-responsive Hydrogel Scaffolds with Engineered Microscale Vasculatures (2021)

论文期刊：Advanced Functional Materials

DOI：10.1002/adfm.202102685

产品型号：EFL-GM 系列

论文题目：Negative pressure wound therapy improves bone regeneration by promoting osteogenic differentiation via the AMPK-ULK1-autophagy axis (2021)

论文期刊：Autophagy

DOI：10.1080/15548627.2021.2016231

产品型号：EFL-GM-90

论文题目：Printability during projection-based 3D bioprinting (2021)

论文期刊：Bioactive Materials

DOI：10.1016/j.bioactmat.2021.09.021

产品型号：EFL-GM-100-3M、EFL-LAP

论文题目：Matrix stiffness modulates tip cell formation through the p-PXN-Rac1-YAP signaling axis (2021)

论文期刊：Bioactive Materials

DOI：10.1016/j.bioactmat.2021.05.033

产品型号：EFL-GM 系列

论文题目：Natural polymer-derived photocurable bioadhesive hydrogels for sutureless keratoplasty (2021)

论文期刊：Bioactive Materials

DOI: 10.1016/j.bioactmat.2021.07.001

产品型号: EFL-GM-60、EFL-LAP

论文题目: 3D “honeycomb” cell/carbon nanofiber/gelatin methacryloyl (GelMA) modified screen-printed electrode for electrochemical assessment of the combined toxicity of deoxynivalenol family mycotoxins (2021)

论文期刊: Bioelectrochemistry

DOI: 10.1016/j.bioelechem.2021.107743

产品型号: EFL-BP-6601、EFL-GM-60、EFL-LS-1601-405

论文题目: A biomimetic “intestinal microvillus” cell sensor based on 3D bioprinting for the detection of wheat allergen gliadin (2021)

论文期刊: Bioelectrochemistry

DOI: 10.1016/j.bioelechem.2021.107919

产品型号: EFL-BP-8600、EFL-GM-90

论文题目: Mechanically reinforced injectable bioactive nanocomposite hydrogels for insitu bone regeneration (2021)

论文期刊: Chemical Engineering Journal

DOI: 10.1016/j.ccej.2021.132799

产品型号: EFL-GM 系列

论文题目: Electrical stimulation of neonatal rat cardiomyocytes using conductive polydopamine-reduced graphene oxide-hybrid hydrogels for constructing cardiac microtissues (2021)

论文期刊: Colloids and Surfaces B Biointerfaces

DOI: 10.1016/j.colsurfb.2021.111844

产品型号: EFL-GM-60、EFL-LAP

论文题目: Potential Mechanisms of the Impact of Hepatocyte Growth Factor Gene-Modified Tendon Stem Cells on Tendon Healing (2021)

论文期刊: Frontiers in Cell and Developmental Biology

DOI: 10.3389/fcell.2021.659389/full

产品型号: EFL-GM-60

论文题目: Hydrogel composite scaffolds with an attenuated immunogenicity component for bone tissue engineering applications (2021)

论文期刊: Journal of Materials Chemistry B

DOI: 10.1039/d0tb02588g

产品型号: EFL-GM-60

论文题目: The acoustic droplet printing of functional tumor microenvironments (2021)

论文期刊: Lab on a Chip

DOI: 10.1039/d1lc00003a

产品型号：EFL-GM-90、EFL-LAP

论文题目：hDPSC-laden GelMA microspheres fabricated using electrostatic microdroplet method for endodontic regeneration (2021)

论文期刊：Materials Science & Engineering C

DOI: 10.1016/j.msec.2020.111850

产品型号：EFL-GM-90

论文题目：Biodegradable hydrogel with thermo-response and hemostatic effect for photothermal enhanced anti-infective therapy (2021)

论文期刊：Nano Today

DOI: 10.1016/j.nantod.2021.101165

产品型号：EFL-GM 系列

论文题目：Gelatin methacrylate hydrogel scaffold carrying resveratrol-loaded solid lipid nanoparticles for enhancement of osteogenic differentiation of BMSCs and effective bone regeneration (2021)

论文期刊：Regenerative Biomaterials

DOI: 10.1093/rb/rbab044

产品型号：EFL-GM 系列

论文题目：Adipose-derived mesenchymal stromal cell-derived exosomes promote tendon healing by activating both SMAD1/5/9 and SMAD2/3 (2021)

论文期刊：Stem Cell Research & Therapy

DOI: 10.1186/s13287-021-02410-w

产品型号：EFL-GM-60

论文题目：Strontium ranelate promotes chondrogenesis through inhibition of the Wnt/ β -catenin pathway (2021)

论文期刊：Stem Cell Research & Therapy

DOI: 10.1186/s13287-021-02372-z

产品型号：EFL-GM-30、EFL-LAP

论文题目：3D Printed Biocatalytic Living Materials with Dual-Network Reinforced Bioinks (2021)

论文期刊：Small

DOI: 10.1002/sml.202104820

产品型号：EFL-BP-6601

论文题目：Photocrosslinkable Col/PCL/Mg composite membrane providing spatiotemporal maintenance and positive osteogenic effects during guided bone regeneration (2021)

论文期刊：Bioactive Materials

DOI: 10.1016/j.bioactmat.2021.10.019

产品型号：EFL-TPOL

论文题目: Biodegradable Dual-crosslinked Adhesive Glue for Fixation and Promotion of Osteogenesis (2021)

论文期刊: Chemical Engineering Journal

DOI: 10.1016/j.cej.2021.132000

产品型号: **EFL-GM-30**

论文题目: Enzyme- and UV-Mediated Double-Network Hybrid Hydrogels for 3D Cell Culture application (2021)

论文期刊: Macromolecular Bioscience

DOI: 10.1002/mabi.202100189

产品型号: **EFL-GM-60、EFL-LAP、EFL-SCR 系列**

论文题目: Peripheral Nerve Regeneration with 3D Printed Bionic Scaffolds Loading Neural Crest Stem Cell Derived Schwann Cell Progenitors (2021)

论文期刊: Advanced Functional Materials

DOI: 10.1002/adfm.202010215

产品型号: **EFL-BP6601**

部分已发表用户论文 (2020 前)

论文题目: Coaxial Extrusion of Tubular Tissue Constructs Using a Gelatin/GelMA Blend Bioink (2019)

论文期刊: ACS Biomaterials Science and Engineering

DOI: 10.1021/acsbomaterials.9b00926

产品型号: **EFL-GM-90**

论文题目: A smart hydrogel system for visual detection of glucose (2019)

论文期刊: Biosensors and Bioelectronics

DOI: 10.1016/j.bios.2019.111547

产品型号: **EFL-GM-60**

论文题目: 3D printing of complex GelMA-based scaffolds with nanoclay (2019)

论文期刊: Biofabrication

DOI: 10.1088/1758-5090/ab0cf6

产品型号: **EFL-GM-90**

论文题目: Promoting 3D neuronal differentiation in hydrogel for spinal cord regeneration (2020)

论文期刊: Colloids and Surfaces B: Biointerfaces

DOI: 10.1016/j.colsurfb.2020.111214

产品型号: **EFL-GM 系列**

论文题目： Three-dimensional printed multiphasic scaffolds with stratified cell-laden gelatin methacrylate hydrogels for biomimetic tendon-to-bone interface engineering (2020)

论文期刊： Journal of Orthopaedic Translation

DOI: 10.1016/j.jot.2020.01.004

产品型号： **EFL-GM 系列**

论文题目： Fabrication of vascular smooth muscle-like tissues based on self-organization of circumferentially aligned cells in microengineered hydrogels (2020)

论文期刊： Lab on a Chip

DOI: 10.1039/d0lc00544d

产品型号： **EFL-GM 系列**

论文题目： On-chip hydrogel arrays individually encapsulating acoustic formed multicellular aggregates for high throughput drug testing (2020)

论文期刊： Lab on a Chip

DOI: 10.1039/d0lc00255k

产品型号： **EFL-GM-60**

论文题目： Three-dimensional bioprinting of multicell-laden scaffolds containing bone morphogenic protein-4 for promoting M2 macrophage polarization and accelerating bone defect repair in diabetes mellitus (2020)

论文期刊： Bioactive Materials

DOI: 10.1016/j.bioactmat.2020.08.030

产品型号： **EFL-GM-90**

论文题目： Growth differentiation factor-5–gelatin methacryloyl injectable microspheres laden with adiposederived stem cells for repair of disc degeneration (2020)

论文期刊： Biofabrication

DOI: 10.1088/1758-5090/abc4d3

产品型号： **EFL-GM-30、EFL-LAP**

论文题目： A bioartificial liver support system integrated with a DLM/GelMA-based bioengineered whole liver for prevention of hepatic encephalopathy via enhanced ammonia reduction (2020)

论文期刊： Biomaterials Science

DOI: 10.1039/c9bm01879d

产品型号： **EFL-GM 系列**

论文题目： Stiffness of photocrosslinkable gelatin hydrogel influences nucleus pulposus cell properties in vitro (2020)

论文期刊： Journal of Cellular and Molecular Medicine

DOI: 10.1111/jcmm.16141

产品型号： **EFL-GM 系列**

论文题目：3D printing of gelatin methacrylate-based nerve guidance conduits with multiple channels (2020)

论文期刊：Materials and Design

DOI: 10.1016/j.matdes.2020.108757

产品型号：**EFL-GM-100-M5**

论文题目：Template-based fabrication of spatially organized 3D bioactive constructs using magnetic low-concentration gelation methacrylate (GelMA) microfibers (2020)

论文期刊：Soft Matter

DOI: 10.1039/c9sm01945f

产品型号：**EFL-GM 系列、EFL-LAP**

论文题目：Tendon stem cell-derived exosomes regulate inflammation and promote the high-quality healing of injured tendon (2020)

论文期刊：Stem Cell Research & Therapy

DOI: 10.1186/s13287-020-01918-x

产品型号：**EFL-GM-60**

论文题目：3D printing of metal-organic framework incorporated porous scaffolds to promote osteogenic differentiation and bone regeneration (2020)

论文期刊：Nanoscale

DOI: 10.1039/d0nr06297a

产品型号：**EFL-BP6601**

论文题目：Low-Temperature Three-Dimensional Printing of Tissue Cartilage Engineered with Gelatin Methacrylamide (2020)

论文期刊：Tissue Engineering, Part C Methods

DOI: 10.1089/ten.tec.2020.0053

产品型号：**EFL-BP6601**

论文题目：Metastasis-on-a-chip mimicking the progression of kidney cancer in the liver for predicting treatment efficacy (2020)

论文期刊：Theranostics

DOI: 10.7150/thno.38736

产品型号：**EFL-MT-5600**
