Advances in keratinocyte delivery in burn wound care

Advanced Drug Delivery Reviews

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Citation Report

#	Article	IF	Citations
1	Lumican as a multivalent effector in wound healing. Advanced Drug Delivery Reviews, 2018, 129, 344-351.	6.6	57
2	Structuring of Hydrogels across Multiple Length Scales for Biomedical Applications. Advanced Materials, 2018, 30, e1705013.	11.1	70
3	Delivery systems of current biologicals for the treatment of chronic cutaneous wounds and severe burns. Advanced Drug Delivery Reviews, 2018, 129, 219-241.	6.6	83
4	An immune cell spray (ICS) formulation allows for the delivery of functional monocyte/macrophages. Scientific Reports, 2018, 8, 16281.	1.6	7
5	Apparatus for Harvesting Tissue Microcolumns. Journal of Visualized Experiments, 2018, , .	0.2	4
6	3D bioprinting of skin tissue: From pre-processing to final product evaluation. Advanced Drug Delivery Reviews, 2018, 132, 270-295.	6.6	122
7	Mesenchymal Stromal Cell Preconditioning: The Next Step Toward a Customized Treatment For Severe Burn. Stem Cells and Development, 2018, 27, 1385-1405.	1.1	13
8	3D Bioprinting: Recent Trends and Challenges. Journal of the Indian Institute of Science, 2019, 99, 375-403.	0.9	27
9	Comparative effectiveness of BiobraneÂ®, RECELLÂ® Autologous skin Cell suspension and Silver dressings in partial thickness paediatric burns: BRACS randomised trial protocol. Burns and Trauma, 2019, 7, 33.	2.3	13
10	Methods of extraction, physicochemical properties of alginates and their applications in biomedical field â€“ a review. Open Chemistry, 2019, 17, 738-762.	1.0	94
11	Vitamin E preconditioning alleviates in vitro thermal stress in cultured human epidermal keratinocytes. Life Sciences, 2019, 239, 116972.	2.0	8
12	Design and evaluation of mesenchymal stem cells seeded chitosan/glycosaminoglycans quaternary hydrogel scaffolds for wound healing applications. International Journal of Pharmaceutics, 2019, 570, 118632.	2.6	19
13	Multiple Injections of Autologous Adipose-Derived Stem Cells Accelerate the Burn Wound Healing Process and Promote Blood Vessel Regeneration in a Rat Model. Stem Cells and Development, 2019, 28, 1463-1472.	1.1	44
14	Hsp90Î± promotes the migration of iPSCs-derived keratinocyte to accelerate deep second-degree burn wound healing in mice. Biochemical and Biophysical Research Communications, 2019, 520, 145-151.	1.0	15
15	Î²-Glucan-Based Wet Dressing for Cutaneous Wound Healing. Advances in Wound Care, 2019, 8, 125-135.	2.6	29
16	Challenges Facing Airway Epithelial Cell-Based Therapy for Cystic Fibrosis. Frontiers in Pharmacology, 2019, 10, 74.	1.6	53
18	Advanced Techniques in Burn Wound Repair. , 2019, , 345-355.		1
19	Enhanced antibacterial activity of PEO-chitosan nanofibers with potential application in burn infection management. International Journal of Biological Macromolecules, 2019, 135, 1222-1236.	3.6	75

#	Article	IF	Citations
20	Characterization of burn wound healing gel prepared from human amniotic membrane and Aloe vera extract. BMC Complementary and Alternative Medicine, 2019, 19, 115.	3.7	60
21	Influence of fibrin matrices and their released factors on epidermal substitute phenotype and engraftment. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1362-1374.	1.3	4
22	Challenges With the Development of Biomaterials for Sustainable Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2019, 7, 127.	2.0	191
23	Hydrogel scaffold with substrate elasticity mimicking physiological-niche promotes proliferation of functional keratinocytes. RSC Advances, 2019, 9, 10174-10183.	1.7	11
24	Precision cell delivery in biphasic polymer systems enhances growth of keratinocytes in culture and promotes their attachment on acellular dermal matrices. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 997-1006.	1.3	4
25	In Vitro Expansion of Keratinocytes on Human Dermal Fibroblast-Derived Matrix Retains Their Stem-Like Characteristics. Scientific Reports, 2019, 9, 18561.	1.6	27
26	Wound healing after cultured epithelial autografting in patients with massive burn injury: A cohort study. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2019, 72, 427-437.	0.5	13
27	Impact of human mesenchymal cells of different body site origins on the maturation of dermo-epidermal skin substitutes. Pediatric Surgery International, 2019, 35, 121-127.	0.6	6
28	IL-1Î²â€“Primed Mesenchymal Stromal Cells Improve Epidermal Substitute Engraftment and Wound Healing via Matrix Metalloproteinases and Transforming Growth Factor-Î²1. Journal of Investigative Dermatology, 2020, 140, 688-698.e21.	0.3	31
29	Thin and Ultra-Thin Split-Thickness Skin Grafts Are Safe and Efficacious in the Burn Population. Journal of Burn Care and Research, 2020, 41, 849-852.	0.2	5
30	Burn Dressings and Skin Substitutes. , 2020, , 1169-1180.		0
31	Fabrication of chitosan-polyvinyl alcohol and silk electrospun fiber seeded with differentiated keratinocyte for skin tissue regeneration in animal wound model. Journal of Biological Engineering, 2020, 14, 27.	2.0	62
32	Biomimetic Alginate/Gelatin Cross-Linked Hydrogels Supplemented with Polyphosphate for Wound Healing Applications. Molecules, 2020, 25, 5210.	1.7	18
33	Bacterial Nanocellulose and Titania Hybrids: Cytocompatible and Cryopreservable Cell Carriers. ACS Biomaterials Science and Engineering, 2020, 6, 4893-4902.	2.6	17
34	Enhancement of Skin Wound Healing by rhEGF-Loaded Carboxymethyl Chitosan Nanoparticles. Polymers, 2020, 12, 1612.	2.0	13
35	Polydeoxyribonucleotide-delivering therapeutic hydrogel for diabetic wound healing. Scientific Reports, 2020, 10, 16811.	1.6	35
36	Formulation and Characterization of Alginate Dialdehyde, Gelatin, and Platelet-Rich Plasma-Based Bioink for Bioprinting Applications. Bioengineering, 2020, 7, 108.	1.6	27
37	Long-Noncoding RNA TUG1 Promotes Parkinson's Disease via Modulating MiR-152-3p/PTEN Pathway. Human Gene Therapy, 2020, 31, 1274-1287.	1.4	19

#	Article	IF	Citations
38	Bioengineered Skin Intended as In Vitro Model for Pharmacosmetics, Skin Disease Study and Environmental Skin Impact Analysis. Biomedicines, 2020, 8, 464.	1.4	20
39	Dual-responsive injectable hydrogels encapsulating drug-loaded micelles for on-demand antimicrobial activity and accelerated wound healing. Journal of Controlled Release, 2020, 324, 204-217.	4.8	145
40	Solid Composite Material for Delivering Viable Cells into Skin Tissues via Detachable Dissolvable Microneedles. ACS Applied Bio Materials, 2020, 3, 4581-4589.	2.3	11
41	Auto Micro Atomization Delivery of Human Epidermal Organoids Improves Therapeutic Effects for Skin Wound Healing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 110.	2.0	8
42	Facile Production of Largeâ€Area Cell Arrays Using Surfaceâ€Assembled Microdroplets. Advanced Science, 2020, 7, 2000769.	5.6	8
43	Hydrogel Dressings for the Treatment of Burn Wounds: An Up-To-Date Overview. Materials, 2020, 13, 2853.	1.3	90
44	Whole Organ Engineering: Approaches, Challenges, and Future Directions. Applied Sciences (Switzerland), 2020, 10, 4277.	1.3	24
45	Photocurable Films Based on Fibroin and Gelatin for Skin Regeneration. Moscow University Biological Sciences Bulletin, 2020, 75, 20-25.	0.1	1
46	Light or Dark Pigmentation of Engineered Skin Substitutes Containing Melanocytes Protects Against Ultraviolet Light-Induced DNA Damage In Vivo. Journal of Burn Care and Research, 2020, 41, 751-760.	0.2	14
47	A review of fabrication polymer scaffolds for biomedical applications using additive manufacturing techniques. Biocybernetics and Biomedical Engineering, 2020, 40, 624-638.	3.3	147
48	The applied anatomy of human skin: A model for regeneration. Wound Medicine, 2020, 28, 100179.	2.7	81
49	Herbal Products for Treatment of Burn Wounds. Journal of Burn Care and Research, 2020, 41, 457-465.	0.2	13
50	Chemically defined and xenogeneic-free culture method for human epidermal keratinocytes on laminin-based matrices. Nature Protocols, 2020, 15, 694-711.	5.5	10
51	Handheld instrument for wound-conformal delivery of skin precursor sheets improves healing in full-thickness burns. Biofabrication, 2020, 12, 025002.	3.7	62
52	A Doubleâ€Layered Microneedle Platform Fabricated through Frozen Sprayâ€Coating. Advanced Healthcare Materials, 2020, 9, e2000147.	3.9	38
53	Epithelial differentiation of human adipose-derived stem cells (hASCs) undergoing three-dimensional (3D) cultivation with collagen sponge scaffold (CSS) via an indirect co-culture strategy. Stem Cell Research and Therapy, 2020, 11, 141.	2.4	30
54	Cellular senescence and skin tissue engineering: mTOR as a potential pharmacological target for increasing proliferative capacity of keratinocytes. Burns, 2021, 47, 744-746.	1.1	1
55	GDF-5 promotes epidermal stem cells proliferation via Foxg1-cyclin D1 signaling. Stem Cell Research and Therapy, 2021, 12, 42.	2.4	6

#	Article	IF	Citations
56	Local Treatment of Burns with Cell-Based Therapies Tested in Clinical Studies. Journal of Clinical Medicine, 2021, 10, 396.	1.0	13
57	Effect of Crosslinking Type on the Physical-Chemical Properties and Biocompatibility of Chitosan-Based Electrospun Membranes. Polymers, 2021, 13, 831.	2.0	32
58	The lethal heat dose for 50% primary human fibroblast cell death is 48ÂÂ°C. Archives of Dermatological Research, 2022, 314, 809-814.	1.1	3
59	Dielectrophoresis Prototypic Polystyrene Particle Synchronization toward Alive Keratinocyte Cells for Rapid Chronic Wound Healing. Sensors, 2021, 21, 3007.	2.1	10
60	2D and 3D co-spatial compartmentalized patch to enhance the therapeutic efficacy of keratinocytes for wound closure. Chemical Engineering Journal, 2021, 409, 128130.	6.6	2
61	Contemporary Aspects of Burn Care. Medicina (Lithuania), 2021, 57, 386.	0.8	5
62	Effect of sodium alginate molecular structure on electrospun membrane cell adhesion. Materials Science and Engineering C, 2021, 124, 112067.	3.8	27
63	Serum-derived exosomes accelerate scald wound healing in mice by optimizing cellular functions and promoting Akt phosphorylation. Biotechnology Letters, 2021, 43, 1675-1684.	1.1	5
64	A Paradigm Shift in Tissue Engineering: From a Topâ€“Down to a Bottomâ€“Up Strategy. Processes, 2021, 9, 935.	1.3	12
65	Burn Center Organization and Cellular Therapy Integration: Managing Risks and Costs. Journal of Burn Care and Research, 2021, 42, 911-924.	0.2	11
66	Synergistic Effect of Biomaterial and Stem Cell for Skin Tissue Engineering in Cutaneous Wound Healing: A Concise Review. Polymers, 2021, 13, 1546.	2.0	48
67	Skin substitutes with noncultured autologous skin cell suspension heal porcine fullâ€thickness wounds in a oneâ€stage procedure. International Wound Journal, 2022, 19, 188-201.	1.3	4
68	Engineering Bioactive Scaffolds for Skin Regeneration. Small, 2021, 17, e2101384.	5.2	65
69	Novel pneumatically assisted atomization device for living cell delivery: application of sprayed mesenchymal stem cells for skin regeneration. Bio-Design and Manufacturing, 2022, 5, 220-232.	3.9	9
70	3D Bioprinting Constructs to Facilitate Skin Regeneration. Advanced Functional Materials, 2022, 32, 2105080.	7.8	35
71	Fibrillar biopolymer-based scaffolds to study macrophage-fibroblast crosstalk in wound repair. Biological Chemistry, 2021, 402, 1309-1324.	1.2	3
72	Biomimetic Lamellar Chitosan Scaffold for Soft Gingival Tissue Regeneration. Advanced Functional Materials, 2021, 31, 2105348.	7.8	28
73	Preclinical efficacy study of a porous biopolymeric scaffold based on gelatin-hyaluronic acid-chondroitin sulfate in a porcine burn injury model: role of critical molecular markers (VEGFA,) Tj ETQq1 1 0.784314 rgBT /Overloc Biomedical Materials (Bristol), 2021, 16, 055020.	1.7	7

#	Article	IF	Citations
74	Chemical Composition of Miscanthus sinensis var. purpurascens Flower Absolute and Its Beneficial Effects on Skin Wound Healing and Melanogenesisâ€Related Cell Activities. Chemistry and Biodiversity, 2021, 18, e2100383.	1.0	3
75	Nonmulberry silk proteins: multipurpose ingredient in bio-functional assembly. Biomedical Materials (Bristol), 2021, 16, 062002.	1.7	32
76	Recent prospects on phosphor-converted LEDs for lighting, displays, phototherapy, and indoor farming. Journal of Luminescence, 2021, 237, 118167.	1.5	50
77	Chitosan-Coated PLGA Nanoparticles Loaded with Peganum harmala Alkaloids with Promising Antibacterial and Wound Healing Activities. Nanomaterials, 2021, 11, 2438.	1.9	32
78	miR-506-3p regulates TGF- 1 and affects dermal fibroblast proliferation, migration and collagen formation after thermal injury. Tissue and Cell, 2021, 72, 101548.	1.0	3
79	Xeno-free workflow exhibits comparable efficiency and quality of keratinocytes isolated from human skin biopsies. Regenerative Therapy, 2021, 18, 401-407.	1.4	1
80	Biofunctional Inks for 3D Printing in Skin Tissue Engineering. Gels Horizons: From Science To Smart Materials, 2021, , 229-259.	0.3	1
81	A proline derivative-enriched methanol fraction from Sideroxylon obtusifolium leaves (MFSOL) stimulates human keratinocyte cells and exerts a healing effect in a burn wound model. Brazilian Journal of Medical and Biological Research, 2021, 54, e10700.	0.7	1
82	Epidermal Stem Cells. Advances in Experimental Medicine and Biology, 2019, 1201, 239-259.	0.8	7
83	Cell therapy in treatment of skin burns. Bulletin Physiology and Pathology of Respiration, 2020, 1, 117-124.	0.0	1
84	Drug Repurposing for Atopic Dermatitis by Integration of Gene Networking and Genomic Information. Frontiers in Immunology, 2021, 12, 724277.	2.2	18
85	Fibroblast Growth Factor-Impregnated Collagenâ€“Gelatin Sponge Improves Keratinocyte Sheet Survival. Tissue Engineering - Part A, 2022, 28, 373-382.	1.6	5
86	Novel tissue-engineered skin equivalent from recombinant human collagen hydrogel and fibroblasts facilitated full-thickness skin defect repair in a mouse model. Materials Science and Engineering C, 2021, 130, 112469.	3.8	9
87	Repairing Injured Skin: Biologics, Skin Substitutes, and Scaffolds: Review. Journal of Skin and Stem Cell, 2019, In Press, .	0.1	0
88	Hautersatzmaterialienâ€‰â€“â€‰Ein Ãœberblick Ã¼ber kultivierte autologe Epidermis zur Behandlung von Wunden. , 2020, , 319-324.		0
90	A case report on the effect of micrografting in the healing of chronic and complex burn wounds. International Journal of Burns and Trauma, 2020, 10, 15-20.	0.2	1
91	Conductive Biomaterials as Bioactive Wound Dressing for Wound Healing and Skin Tissue Engineering. Nano-Micro Letters, 2022, 14, 1.	14.4	405
92	Comparative study between skin micrografting (Meek technique) and meshed skin grafts in paediatric burns. Burns, 2022, 48, 1632-1644.	1.1	11

#	Article	IF	Citations
93	Mechanical Properties of the Skin: What do we Know?. Current Cosmetic Science, 2022, 1, .	0.1	3
94	Chemical Composition of Salix koreensis Anderss Flower Absolute and Its Skin Wound Healing Activities In Vitro. Plants, 2022, 11, 246.	1.6	4
95	Intraoperative three-dimensional bioprinting: A transformative technology for burn wound reconstruction. Burns, 2022, 48, 1023-1024.	1.1	23
96	Advances in spray products for skin regeneration. Bioactive Materials, 2022, 16, 187-203.	8.6	27
97	Early non-excisional debridement of paediatric burns under general anaesthesia reduces time to re-epithelialisation and risk of skin graft. Scientific Reports, 2021, 11, 23753.	1.6	7
98	An Anhydrous Sodium Chloride Skin Preservation Model for Studies on Keratinocytes Grafting into the Wounds. Pharmaceutics, 2021, 13, 2078.	2.0	1
99	Flexible patch with printable and antibacterial conductive hydrogel electrodes for accelerated wound healing. Biomaterials, 2022, 285, 121479.	5.7	68
100	The Role of Skin Substitutes in Acute Burn and Reconstructive Burn Surgery: An Updated Comprehensive Review. Seminars in Plastic Surgery, 2022, 36, 033-042.	0.8	8
103	The role of keratinocyte function on the defected diabetic wound healing.. International Journal of Burns and Trauma, 2021, 11, 430-441.	0.2	1
104	Fibroblasts in Scar Formation: Biology and Clinical Translation. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-11.	1.9	10
105	Keratinocyte Culture: Sirirajâ€™s Experience. Siriraj Medical Journal, 2022, 74, 274-283.	0.1	0
107	Glassy-like Metal Oxide Particles Embedded on Micrometer Thicker Alginate Films as Promising Wound Healing Nanomaterials. International Journal of Molecular Sciences, 2022, 23, 5585.	1.8	2
108	Application and Management of Cultured Epidermal Autografts on Posterior Burnsâ€”A 5-Year, Multicenter, Retrospective Review of Outcomes. Journal of Burn Care and Research, 2023, 44, 170-178.	0.2	1
109	Exosomes from human induced pluripotent stem cells-derived keratinocytes accelerate burn wound healing through miR-762 mediated promotion of keratinocytes and endothelial cells migration. Journal of Nanobiotechnology, 2022, 20, .	4.2	14
110	Assessing Skin Healing and Angiogenesis of Deep Burns in Vivo Using Two-Photon Microscopy in Mice. Frontiers in Physics, 0, 10, .	1.0	1
111	Additive Manufacturing of Biomaterialsâ€”Design Principles and Their Implementation. Materials, 2022, 15, 5457.	1.3	31
112	Innovative Treatment Strategies to Accelerate Wound Healing: Trajectory and Recent Advancements. Cells, 2022, 11, 2439.	1.8	57
113	Chitosan/silk fibroin biomimic scaffolds reinforced by cellulose acetate nanofibers for smooth muscle tissue engineering. Carbohydrate Polymers, 2022, 298, 120056.	5.1	17

#	Article	IF	Citations
114	Current challenges and future applications of antibacterial nanomaterials and chitosan hydrogel in burn wound healing. Materials Advances, 2022, 3, 6707-6727.	2.6	10
115	Hormesis and Epidermal Stem Cells. Dose-Response, 2022, 20, 155932582211199.	0.7	0
116	Antibacterial conductive self-healable supramolecular hydrogel dressing for infected motional wound healing. Science China Chemistry, 2022, 65, 2238-2251.	4.2	26
117	A dielectrophoresis proof of concept of polystyrene particles and <scp>inâ€vitro</scp> human epidermal keratinocytes migration for wound rejuvenation. Journal of Applied Polymer Science, 0, , .	1.3	2
118	Burn Wound Bed Management. Journal of Burn Care and Research, 0, , .	0.2	1
119	Cellâ€surface contacts determine volume and mechanical properties of human embryonic kidney <scp>293T</scp> cells. Cytoskeleton, 0, , .	1.0	0
120	Silicon-Based Scaffold for Wound Healing Skin Regeneration Applications: A Concise Review. Polymers, 2022, 14, 4219.	2.0	5
121	Sprayable Bioactive Dressings for Skin Wounds: Recent Developments and Future Prospects. , 0, , .		0
122	Classic and Current Opinions in Human Organ and Tissue Transplantation. Cureus, 2022, , .	0.2	0
123	Fabrication and characterization of bilayer scaffolds - nanocellulosic cryogels - for skin tissue engineering by co-culturing of fibroblasts and keratinocytes. International Journal of Biological Macromolecules, 2022, 223, 100-107.	3.6	6
124	Stimuli-responsive protein fibers for advanced applications. , 2023, , 351-399.		0
125	Intensivtherapie bei Brandverletzungen. Springer Reference Medizin, 2022, , 1-27.	0.0	0
126	The Role of Cell-Based Therapies in Acute Burn Wound Skin Repair: A Review. Journal of Burn Care and Research, 2023, 44, S42-S47.	0.2	3
127	Growing Skin-Like Tissue. Springer Briefs in Molecular Science, 2023, , 45-102.	0.1	0
128	Angiopoietin-1 derived peptide hydrogel promotes molecular hallmarks of regeneration and wound healing in dermal fibroblasts. IScience, 2023, 26, 105984.	1.9	3
129	In-situ bioprinting of skin - A review. Bioprinting, 2023, 31, e00271.	2.9	4
130	Wound healing by transplantation of mesenchymal stromal cells loaded on polyethylene terephthalate scaffold: Implications for skin injury treatment. Injury, 2023, 54, 1071-1081.	0.7	0
131	FEATURES OF QUALITY CONTROL STRATEGY FOR DRUGS BASED ON VIABLE SKIN CELLS. Farmatsiya I Farmakologiya, 2023, 10, 515-524.	0.2	0

#	Article	IF	Citations
132	3-D tissue-engineered epidermis against human primary keratinocytes apoptosis via relieving mitochondrial oxidative stress in wound healing. Journal of Tissue Engineering, 2023, 14, 204173142311631.	2.3	1
147	Chitosan in Wound Healing: a Mini Review on Ethical Perspective on Sustainable and Biomedical Biomaterials. Regenerative Engineering and Translational Medicine, 0, , .	1.6	0
149	Hautersatzmaterialien zur Behandlung von Wunden. , 2024, , 353-358.		0
150	Skin Regeneration: Methods and Directions for Clinical Application. , 2024, , .		0