**Dermal Literature Review**

**Period: 01/01/2025 – 01/02/2025**

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Scientific Highlights:

Burn wound Infections (infections of or preventing infections)

1. Epidemiological Profile of Bacterial Infections in Burn Patients Over a Five-Year Period.
2. NIR-Light Activable 3D Printed Platform Nanoarchitectured with Electrospun Plasmonic Filaments for On Demand Treatment of Infected Wounds.
3. Intelligent bacteria-targeting ZIF-8 composite for fluorescence imaging-guided photodynamic therapy of drug-resistant superbug infections and burn wound healing.
4. Green synthesis of magnesium oxide nanoparticles using the extract of Falcaria vulgaris to enhance the healing of burn wounds.
5. Assessment of Agrimonia eupatoria L. and Lipophosphonoxin (DR-6180) Combination for Wound Repair: Bridging the Gap Between Phytomedicine and Organic Chemistry.
6. Multifunctional electrospun nanofiber films of polyacrylonitrile and polyvinyl alcohol incorporating rhamnose and therapeutic agents for enhanced healing of infected burn wounds.
7. The global, regional, and national patterns of change in the burden of bacterial pyoderma from 1990 to 2019 and the forecast for the next decade.
8. Preparation of nano(micro)particles from Cotinus coggygria Scop. extracts and investigation of their antimicrobial effects in vivo Caenorhabditis elegans model.
9. Multiple crosslinked, self-healing, and shape-adaptable hydrogel laden with pain-relieving chitosan@borneol nanoparticles for infected burn wound healing.
10. Bacteria in hypertrophic scars promote scar formation through HSBP1-mediated autophagy.
11. Effect of platelet-rich plasma and platelet-rich fibrin on healing of burn wound with dual-species biofilm.
12. Nanotechnological Advances in Burn Wound Care: Silver Sulfadiazine-Loaded Nanosuspension-Based Chitosan-Incorporated Nanogel for Partial Thickness Burns.
13. PLL-g-HPA Hydrogel Loaded Human Umbilical Cord Mesenchymal Stem Cells Promote Burn Wound Healing in Rat Model by Regulating Inflammation Response.
14. A multifunctional photothermal electrospun PLGA/MoS(2)@Pd nanofiber membrane for diabetic wound healing.
15. Application of metagenomic next-generation sequencing (mNGS) to describe the microbial characteristics of diabetic foot ulcers at a tertiary medical center in South China.

Diabetic Foot Ulcers

1. Deciphering pathogenicity and virulence of the first Staphylococcus debuckii isolate from diabetic foot osteomyelitis.
2. Randomized double-blind study on safety and tolerability of TP-102 phage cocktail in patients with infected and non-infected diabetic foot ulcers.
3. Non-antibiotic approaches to mitigating wound infections: Potential for SSRIs and adrenergic antagonists as emerging therapeutics.
4. Age Characteristics of Patients With Type 2 Diabetic Foot Ulcers and Predictive Risk Factors for Lower Limb Amputation: A Population-Based Retrospective Study.
5. The Effect of Diabetes Mellitus Severity on Foot & Ankle Burn Recovery.
6. Hyaluronic Acid-Based Self-Healing Hydrogels for Diabetic Wound Healing.
7. Risk factors and rates of revision amputation following ischemic lower major limb amputations: A 10-year retrospective analysis.
8. Photoresponsive nitric oxide photocage/photodynamic integrated prodrug for advanced management of drug-resistant bacteria-infected wound therapy.
9. Medical Treatment of Osteomyelitis due to Carbapenemase-Producing Klebsiella pneumoniae in Diabetes-Related Foot Disease.
10. Multidisciplinary team-led management of Wagner grade 3 diabetic foot ulcer with MRSA infection, guided by wound care specialists: A case report.
11. First report on comprehensive genomic analysis of a multidrug-resistant Enterobacter asburiae isolated from diabetic foot infection from Bangladesh.
12. In vitro efficacy of levonadifloxacin against methicillin-resistant Staphylococcus aureus (MRSA) including hVISA isolates collected across India.
13. Novel antimicrobial strategies for diabetic foot infections: addressing challenges and resistance.
14. Identification and treatment of Enterococcus avium-induced diabetic foot ulcer: a case report and microbiome analysis.
15. [Influencing factors analysis and prediction model establishment of toe-amputation in patients with diabetic foot].
16. Improved Diabetic Foot Ulcer Outcomes in Medicaid Beneficiaries with Podiatric Care Access.
17. Considerations on the Clinical Relevance of Climatic Differences in Pseudomonas aeruginosa Rates in Diabetic Foot Infection.
18. Natural products in the treatment of diabetic foot infection.
19. Infection Relapse and Time-to-Healing After Conservative Surgery for Non-Acute Presentations of Diabetes-Related Forefoot Osteomyelitis: Does Site Matter?
20. Skin Micro-Fragments for the Management of Diabetic Foot Ulcers: A Case Series.
21. Nanocrystals in Dermal Drug Delivery: A Breakthrough for Enhanced Skin Penetration and Targeted Skin Disorder Treatments.
22. Harnessing the Power of Our Immune System: The Antimicrobial and Antibiofilm Properties of Nitric Oxide.
23. Lower Extremity Amputations Among Patients with Diabetes Mellitus: A Five-Year Analysis in a Clinical Hospital in Bucharest, Romania.
24. An Overview of Recent Clinical Trials for Diabetic Foot Ulcer Therapies.
25. Predictive Factors of Amputation in Diabetic Foot.
26. Appropriate surgical management in skin and soft tissue infections.
27. Randomized Controlled Trial to Compare AmnioExcel Human Amniotic Allograft in Weekly Versus Biweekly Treatment of Diabetic Foot Ulcers.
28. A Case of Euglycemic Diabetic Ketoacidosis in a Patient with Diabetic Foot Syndrome.
29. Assessment of Risk Factors Leading to Amputation Among Diabetic Septic Foot Patients in Khartoum, Sudan.
30. Deep Red-Light-Mediated Nitric Oxide and Photodynamic Synergistic Antibacterial Therapy for the Treatment of Drug-Resistant Bacterial Infections.
31. Fungal Osteomyelitis of a Diabetic Foot Infection Caused by Trichosporon asahii: A Case Report.
32. [18F]FDG PET/CT in Necrotizing Fasciitis: A Case Series Investigating the Clinical Utility in a Challenging and Rare Condition.
33. The provision of wound care and management in a community healthcare setting: an exploratory study.
34. Nutritional Status in a Group of Patients with Wounds Due to Diabetic Foot Disease and Chronic Venous Insufficiency.
35. Microbiology and Antimicrobial Resistance Profile in Patients with Diabetic Foot Sepsis at a Central Hospital in Johannesburg, South Africa.
36. Predictive models and determinants of mortality among T2DM patients in a tertiary hospital in Ghana, how do machine learning techniques perform?
37. Negative-pressure wound therapy compared with advanced moist wound therapy: A comparative study on healing efficacy in diabetic foot ulcers.
38. Early experience on injectable micronized putty type human-derived acellular dermal matrix (ADM) in management of diabetic foot wounds in Singapore.
39. RETRACTION: A Meta-Analysis of the Effectiveness of Antibacterial Bone Cement in the Treatment of Diabetic Foot Skin Wound Infections.
40. Healing of diabetic foot ulcer in an amputation candidate with below-knee cellulitis using combination of negative pressure wound therapy and platelet-rich plasma injection: A case report study.
41. In Situ Self-Assembled Naringin/ZIF-8 Nanoparticle-Embedded Bacterial Cellulose Sponges for Infected Diabetic Wound Healing.
42. Kyphoplasty in the setting of corynebacterium striatum septicemia with postoperative osteomyelitis requiring salvage vertebrectomy: a case report.
43. Diabetic foot ulcer in the Western Pacific Region: Current data on ulceration rates and microbial profiles, gaps and charting strategies.
44. Ghrelin Promotes Chronic Diabetic Wound Healing by Regulating Keratinocyte Proliferation and Migration Through the ERK1/2 Pathway.
45. Clinical efficacy of antibiotic-loaded bone cement and negative pressure wound therapy in multidrug-resistant organisms diabetic foot ulcers: a retrospective analysis.
46. A Prospective, Open-Label, Randomized, Comparative, Investigator-Initiated Study to Evaluate the Safety and Effectiveness of Autologous Growth Factor Concentrate Using the Healrex Therapy Kit With Standard Wound Care in Lower-Extremity Diabetic Ulcer.
47. Comparative Effectiveness of Amniotic and Chorionic Grafts in the Treatment of Lower-Extremity Diabetic Ulcers Using U.S. Medicare Real-World Evidence (2018-2022): A Retrospective Observational Cohort.
48. The infected diabetic foot: Risk factors for re-infection after treatment for diabetic foot osteomyelitis.
49. Prevalence and predictors of infected diabetic foot ulcers (DFU) and DFU-related osteomyelitis amongst industrial workers wearing occupational safety footwear.
50. Treatment of Onychomycosis and the Drug-Drug Interactions in Patients with Diabetes Mellitus and Diabetic Foot Syndrome: A Systematic Review.
51. A novel approach of using transtibial transport (TTT) to manage thromboembolic events following surgical management of necrotizing soft tissue infection: a case report.
52. Surgical sharp debridement alongside maggot debridement therapy (MDT) for the treatment of diabetic foot ulcers (DFUs): A systematic review of case reports.
53. Reply to Cosio et al. Glycation of Nail Proteins as a Risk Factor for Onychomycosis. Comment on "Gupta et al. Diabetic Foot and Fungal Infections: Etiology and Management from a Dermatologic Perspective. J. Fungi 2024, 10, 577".
54. Glycation of Nail Proteins as a Risk Factor for Onychomycosis. Comment on Gupta et al. Diabetic Foot and Fungal Infections: Etiology and Management from a Dermatologic Perspective. J. Fungi 2024, 10, 577.
55. Protective Role of Dietary Polyphenols in the Management and Treatment of Type 2 Diabetes Mellitus.
56. Cathelicidins: Opportunities and Challenges in Skin Therapeutics and Clinical Translation.
57. Prevalence and Molecular Characterization of Carbapenemase-Producing Multidrug-Resistant Bacteria in Diabetic Foot Ulcer Infections.
58. Biochemical strategy-based hybrid hydrogel dressing-mediated in situ synthesis of selenoproteins for DFU immunity-microbiota homeostasis regulation.
59. Diabetic foot infections in internal medicine services in spain (2018-2022).
60. The Role of Serum HMGB-1 Level in Differentiating the Soft-Tissue Infection From Diabetic Foot Osteomyelitis.
61. Determining the optimal antibiotic duration for skin and soft tissue infections.
62. Impact of ozone concentration on the treatment effectiveness of diabetic foot syndrome: a pilot single-centre study.
63. Risk factors, microbiology, and prognosis of diabetic foot osteomyelitis: a retrospective cohort study.
64. (18)F-FDG PET/CT in Inflammation and Infection: Procedural Guideline by the Korean Society of Nuclear Medicine.
65. Application of novel strategies in chronic wound management with focusing on pressure ulcers: new perspective.
66. Revealing the promising era of silk-based nanotherapeutics: a ray of hope for chronic wound healing treatment.

Venous Leg Ulcers

1. Leg Ulcer and Venous Symptoms Related to Lower Extremity Arteriovenous Access for Hemodialysis: A Retrospective Review with Emphasis on Wound Complications.

Dermal Biofilms

1. Microbial crosstalk with dermal immune system: A review on emerging analytical methods for macromolecular detection and therapeutics.
2. Integrated biological-chemical system for phenol removal from petrochemicals wastewater.
3. In vitro antibacterial and antibiofilm effects of mupirocin spray against Staphylococcus pseudintermedius.
4. Tea tree oil nanoemulsion targets AgrA protein potentiates amoxicillin efficacy against methicillin-resistant Staphylococcus aureus.
5. Chemical constituents and antibacterial activities of Cameroonian dark brown propolis against potential biofilm-forming bacteria.
6. Enhanced wound healing properties by sodium alginate-carboxymethyl cellulose hydrogel enriched with decellularized amniotic membrane.
7. Development and evaluation of Amikacin-loaded carbopol hydrogel for topical treatment of Mycobacterium marinum skin infections.
8. Repurposing pinaverium bromide against Staphylococcus and its biofilms with new mechanisms.
9. Assessment of the Antimicrobial Effect of Momordica charantia (Bitter Gourd Oil) on Periodontal Pathogens: An In Vitro Study.
10. Effects of Commonly Used Vegetable Oils on Skin Barrier Function and Staphylococcus aureus Biofilm.
11. Cinnamaldehyde nanoemulsion decorated with rhamnolipid for inhibition of methicillin-resistant Staphylococcus aureus biofilm formation: in vitro and in vivo assessment.
12. Antibiofilm, Anti-Inflammatory, and Regenerative Properties of a New Stable Ozone-Gel Formulation.
13. Targeted Antibacterial Endolysin to Treat Infected Wounds on 3D Full-Thickness Skin Model: XZ.700 Efficacy.
14. Gram Negative Biofilms: Structural and Functional Responses to Destruction by Antibiotic-Loaded Mixed Polymeric Micelles.
15. Facultatively Anaerobic Staphylococci Enable Anaerobic Cutibacterium Species to Grow and Form Biofilms Under Aerobic Conditions.
16. Investigating the Antibacterial, Antioxidant, and Anti-Inflammatory Properties of a Lycopene Selenium Nano-Formulation: An In Vitro and In Vivo Study.
17. Microbial Colonization, Biofilm Formation, and Malodour of Washing Machine Surfaces and Fabrics and the Evolution of Detergents in Response to Consumer Demands and Environmental Concerns.
18. Effect of Alkanna tinctoria Root Against MRSA and MDR-Pseudomonas aeruginosa Biofilms on Excision Wound in Diabetic Mice: Comparative Study Between Methanolic Extract and Traditional Hydrophobic Preparation.
19. Transcriptome of capsular contracture around breast implants mimics allograft rejection: a matched case-control study.
20. Lactams Exhibit Potent Antifungal Activity Against Monospecies and Multispecies Interkingdom Biofilms on a Novel Hydrogel Skin Model.
21. Challenges and considerations in liposomal hydrogels for the treatment of infection.
22. Life stage impact on the human skin ecosystem: lipids and the microbial community.
23. Engineered Microneedle System Enables the Smart Regulation of Nanodynamic Sterilization and Tissue Regeneration for Wound Management.
24. Algae extract-based nanoemulsions for photoprotection against UVB radiation: an electrical impedance spectroscopy study.
25. The Geographical Distribution of Global Biobanks.
26. A biocompatible β-cyclodextrin inclusion complex containing natural extracts: a promising antibiofilm agent.
27. Bioactive Glasses: Advancing Skin Tissue Repair through Multifunctional Mechanisms and Innovations.
28. Photodynamic therapy combined with quaternized chitosan antibacterial strategy for instant and prolonged bacterial infection treatment.
29. The Impact of Lactobacillus reuteri on Oral and Systemic Health: A Comprehensive Review of Recent Research.
30. Inhibitory Effect of Moringa oleifera Seed Extract and Its Behenic Acid Component on Staphylococcus aureus Biofilm Formation.
31. Iron oleate containing lipid nanoparticles prepared by gradient solvent diffusion method for oxidative stress dependent antibacterial therapy.
32. The high-osmolarity glycerol (HOG) pathway in Candida auris.
33. Treatment of chronic wounds of the lower limb with the use of VAC-therapy. Impact on immunity and bacterial films.
34. Effective killing of Mycobacterium abscessus biofilm by nanoemulsion delivery of plant phytochemicals.
35. Tissue Selective Ultrasonic Debridement with Cryopreserved Human Skin Allograft to Heal a Chronic Wound: A Case Report.
36. Hindcasting Farmed Salmon Mortality to Improve Future Health and Production Outcomes.
37. Dendritic Antifungal Peptides as Potent Agents against Drug-Resistant Candida albicans and Biofilm.
38. A targeted and synergetic nano-delivery system against Pseudomonas aeruginosa infection for promoting wound healing.

Atopic Dermatitis & SA

1. Updates on the Pathogenesis of Canine and Feline Atopic Dermatitis: Part 1, History, Breed Prevalence, Genetics, Allergens, and the Environment.
2. Temporal Relationships Between Staphylococcus aureus Colonization, Filaggrin Expression, and Pediatric Atopic Dermatitis-Correspondence.
3. Pathogenic Colonization: Defining the Role of Staphylococcus aureus in Atopic Dermatitis.
4. Ecthyma amidst the global monkeypox outbreak: A key differential? -A case series.
5. Single-cell sequencing of human Langerhans cells identifies altered gene expression profiles in patients with atopic dermatitis.
6. Anti-Inflammatory Potential and Synergic Activities of Eclipta prostrata (L.) L. Leaf-Derived Ointment Formulation in Combination with the Non-Steroidal Anti-Inflammatory Drug Diclofenac in Suppressing Atopic Dermatitis (AD).
7. Skin Microbiota: Mediator of Interactions Between Metabolic Disorders and Cutaneous Health and Disease.
8. Skin microbiota: pathogenic roles and implications in atopic dermatitis.

Dermal Fungal

1. Localized inflammation in dengue vaccine-induced skin rash is not associated with continuous presence of dengue virus genome.
2. Luliconazole-loaded nanostructured lipid carrier: formulation, characterization, and in vitro antifungal evaluation against a panel of resistant fungal strains.
3. Heavy Metals and Associated Risks of Wild Edible Mushrooms Consumption: Transfer Factor, Carcinogenic Risk, and Health Risk Index.
4. Decellularized Green and Brown Macroalgae as Cellulose Matrices for Tissue Engineering.
5. Ketoconazole-Fumaric Acid Pharmaceutical Cocrystal: From Formulation Design for Bioavailability Improvement to Biocompatibility Testing and Antifungal Efficacy Evaluation.
6. A Simplified Model of Adenine-Induced Chronic Kidney Disease Using SKH1 Mice.
7. The impact of Aureobasidium melanogenum cells and extracellular vesicles on human cell lines.
8. Bifidobacterium longum RAPO Attenuates Dermal and Pulmonary Fibrosis in a Mouse Model of Systemic Sclerosis through Macrophage Modulation and Growth of Short-Chain Fatty Acid Producers.
9. Patches containing quercetin microcapsules to ameliorate dermal herpes simplex virus injuries in mice.
10. Human Hair Follicle Mesenchymal Stem Cell-Derived Exosomes Attenuate UVB-Induced Photoaging via the miR-125b-5p/TGF-β1/Smad Axis.
11. A Case of Merkel Cell Carcinoma of Unknown Primary Origin Presenting With High Merkel Cell Polyomavirus DNA Levels in Swabs Obtained From the Normal Skin.
12. Paradoxical dominant negative activity of an immunodeficiency-associated activating PIK3R1 variant.
13. Focal dermal hypoplasia: a probable underrecognized low bone mass disorder secondary to aberrant Wnt signaling.
14. Chloramphenicol glycoside derivative: A way to overcome its antimicrobial resistance and toxicity.
15. Polyphenolic Hispolon Derived from Medicinal Mushrooms of the Inonotus and Phellinus Genera Promotes Wound Healing in Hyperglycemia-Induced Impairments.
16. Zika virus modulates human fibroblasts to enhance transmission success in a controlled lab-setting.
17. The circulating plasma microRNA signature in human visceral leishmaniasis.

Competitors

1. Response to the letter to the editor regarding "The efficacy of an alcohol-based nasal antiseptic versus mupirocin or an iodophor for preventing SSIs using a meta-analysis".
2. Letter to the editor regarding the article: The efficacy of an alcohol-based nasal antiseptic versus mupirocin or iodophor for preventing surgical site infections: A meta-analysis.
3. Enhancing transdermal delivery of chrysomycin A for the treatment of cutaneous melanoma and MRSA infections using Skin-Penetrating Peptide-Functionalized deformable liposomes.
4. Identification of an antibiotic from an HTS targeting EF-Tu:tRNA interaction: a prospective topical treatment for MRSA skin infections.
5. Development of a Stringent Ex Vivo-Burned Porcine Skin Wound Model to Screen Topical Antimicrobial Agents.
6. Corrigendum to "Targeted mupirocin-based decolonization for Staphylococcus aureus carriers and the subsequent risk of mupirocin resistance in haemodialysis patients - a longitudinal study over 20 years" [J Hosp Infect 135 (2023) 55-58].
7. Probiotic viability in the gastrointestinal tract in a randomised placebo controlled trial: combining molecular biology and novel cultivation techniques.
8. Betaine combined with traditional Chinese medicine ointment to treat skin wounds in microbially infected diabetic mice.
9. Global Gac/Rsm regulatory system activates the biosynthesis of mupirocin by controlling the MupR/I quorum sensing system in Pseudomonas sp. NCIMB 10586.
10. Ribosome pausing in amylase producing Bacillus subtilis during long fermentation.
11. Quorum Sensing Coordinates Carbon and Nitrogen Metabolism to Optimize Public Goods Production in Pseudomonas fluorescens 2P24.
12. Commentary on Abernathy-Close et al: Study on Mupirocin Treatment in Cutaneous Lupus Erythematosus.
13. Heterogeneity in preoperative Staphylococcus aureus screening and decolonization strategies among healthcare institutions.

Dressings

1. Modification of cotton gauze using Cynodon dactylon (Bermuda grass) and assessment of the chemical and antimicrobial properties.
2. Enhanced healing of MRSA-infected wounds with okara cellulose nanocrystals-based temperature-sensitive cationic hydrogel: Development and characterization.
3. pH-responsive cationic guar gum-based multifunctional hydrogel with silver nanoenzymes: Combined photothermal antibacterial therapy and antioxidant properties for MRSA infected wound healing.
4. Acrylamide/Alyssum campestre seed gum hydrogels enhanced with titanium carbide: Rheological insights for cardiac tissue engineering.
5. Potential Unlocking of Biological Activity of Caffeic Acid by Incorporation into Hydrophilic Gels.
6. Chitosan-based dihydromyricetin composite hydrogel demonstrating sustained release and exceptional antibacterial activity.
7. Design and Characterization of Polyvinyl Alcohol/Kappa-Carrageenan Pickering Emulsion Biocomposite Films for Potential Wound Care Applications.
8. Intelligent Microneedles Patch with Wireless Self-Sensing and Anti-Infective Actions.
9. Study of the synergistic properties of copaiba oil co-electrospun with poly(L-co-D,L lactic acid) and natural rubber latex for application in bioactive wound dressings.
10. Probiotic Bacillus licheniformis DSMZ 28710 improves sow milk microbiota and enhances piglet health outcomes.
11. A thermosensitive chitin hydrogel with mild photothermal-chemotherapy for facilitating multidrug-resistant bacteria infected wound healing.
12. Carboxymethyl hemicellulose hydrogel as a fluorescent biosensor for bacterial and fungal detection with DFT and molecular docking studies.
13. Development of Antibacterial Hydrogels Based on Biopolymer Aloe Vera/Gelatin/Sodium Alginate Composited With SM-AgNPs Loaded Curcumin-Nanoliposomes.
14. Preparation of Ag-Metal organic frameworks-loaded Sodium Alginate Hydrogel for the treatment of periodontitis.
15. Self-Assembled Nanoflowers from Natural Building Blocks with Antioxidant, Antibacterial, and Antibiofilm Properties.
16. In Situ Formation of Hydrogels Loaded with ZnO Nanoparticles Promotes Healing of Diabetic Wounds in Rats.
17. Regulating Supramolecular Assembly and Disassembly of Chitosan toward Efficiently Antibacterial Lubricous and Biodegradable Hydrogel Urinary Catheters.
18. 3D printed sodium Alginate-Gelatin hydrogel loaded with Santalum album oil as an antibacterial Full-Thickness wound healing and scar reduction Scaffold: In vitro and in vivo study.
19. One-step fabrication of dual-network cellulose-based hydrogel sensors with high flexibility and conductivity under ZnCl(2) solvent method for flexible sensing properties.
20. Ultrafast enzyme-responsive hydrogel for real-time assessment and treatment optimization in infected wounds.
21. Calcium alginate reinforced zwitterionic double network hydrogel with mechanical robustness and antimicrobial activity for freshwater shrimp spoilage detection.
22. An antimicrobial and adhesive conductive chitosan quaternary ammonium salt hydrogel dressing for combined electrical stimulation and photothermal treatment to promote wound healing.
23. A self-elastic chitosan sponge reinforced with lauric acid-modified quaternized chitosan and attapulgite to treat noncompressible hemorrhage and facilitate wound healing.
24. Biocompatible dually reinforced gellan gum hydrogels with selective antibacterial activity.
25. Atelocollagen-based hydrogel loaded withCotinus coggygria's extract for treatment of type 2 diabetic wounds.
26. Development of Antimicrobial Blends of Bacteria Nanocellulose Derived from Plastic Waste and Polyhydroxybutyrate Enhanced with Essential Oils.
27. Microparticles Loaded with Bursera microphylla A. Gray Fruit Extract with Anti-Inflammatory and Antimicrobial Activity.
28. Multifunctional Hydrogel with Photothermal ROS Scavenging and Antibacterial Activity Accelerates Diabetic Wound Healing.
29. Combining antibacterial and wound healing features: Xanthan gum/guar gum 3D-printed scaffold tuned with hydroxypropyl-β-cyclodextrin/thymol and Zn(2).
30. CMCS-PVA@CA hydrogel dressing: A promoter of wound healing with MRSA virulence attenuation function.
31. Construction of GOx-loaded metal organic frameworks antibacterial composite hydrogels for skin wound healing.
32. Injectable Antibacterial Drug-Free Hydrogel Dressing Enabled by a Bioactive Peptide-Mimicking Synthetic Peptidyl Polymer.
33. 3D printed Aloe barbadensis loaded alginate-gelatin hydrogel for wound healing and scar reduction: In vitro and in vivo study.
34. Thermosensitive-based synergistic antibacterial effects of novel LL37@ZPF-2 loaded poloxamer hydrogel for infected skin wound healing.
35. Enhanced MRSA-infected wound healing using tannic acid cross-linked carboxymethyl chitosan/polyglutamic acid hydrogel for carbazole Delivery.
36. Adhesive transparent antimicrobial quaternized chitosan/oxidized dextran/polydopamine nanoparticle hydrogels for accelerated wound healing.
37. Quantitative Assessment of Microbial Transmission onto Environmental Surfaces Using Thermoresponsive Gelatin Hydrogels as a Finger Mimetic under In Situ-Mimicking Conditions.
38. The immunoglobulin of yolk and cerium oxide-based fibrous poly(L-lactide-co-glycolide)/gelatin dressings enable skin regeneration in an infectious wound model.
39. In situ growth of ZIF-8 nanoparticles on pure chitosan nanofibrous membranes for efficient antimicrobial wound dressings.
40. Polyvinyl alcohol/chitosan hydrogel based on deep eutectic solvent for promoting methicillin-resistant Staphylococcus aureus-infected wound healing.
41. Intelligent response agarose/chitosan hydrogel wound dressing: Synergistic chemotherapy, PDT and PTT effects against bacterial infection.
42. [Evaluation of the antimicrobial efficacy of active components in wound dressings under in vitro conditions].
43. Sprayable Hydrogel for pH-Responsive Nanozyme-Derived Bacteria-Infected Wound Healing.
44. Biofabricated tissue model for determining biocompatibility of metallic coatings.
45. Fabrication and characterization of in situ gelling oxidized carboxymethyl cellulose/gelatin nanofibers for wound healing applications.
46. Metal-organic cages based catalytic hybrid hydrogels for enhanced wound healing: Antibacterial and regenerative effects of Zr-MOC/chitosan composites hydrogel.
47. Injectable vancomycin loaded hyaluronic acid-chitosan hydrogel for the treatment of Staphylococcus aureus septic arthritis.
48. Enhanced wound healing with a bilayered multifunctional quaternized chitosan-dextran-curcumin construct.
49. Cellulose nanofiber-reinforced antimicrobial and antioxidant multifunctional hydrogel with self-healing, adhesion for enhanced wound healing.
50. Gallic acid-grafted chitosan photothermal hydrogels functionalized with mineralized copper-sericin nanoparticles for MRSA-infected wound management.
51. Versatile poly (deep eutectic solvents) electroactive chitosan eutectogel for infected wound healing and monitoring administration.
52. Self-assembling Bletilla polysaccharide nanogels facilitate healing of acute and infected wounds via inflammation control and antibacterial activity.
53. Self-Assembled Peptide Hydrogels PPI45 and PPI47: Novel Drug Candidates for Staphylococcus aureus Infection Treatment.
54. Exploring Methacrylated Gellan Gum 3D Bioprinted Patches Loaded with Tannic Acid or L-Ascorbic Acid as Potential Platform for Wound Dressing Application.
55. Synergistic Antibacterial Action of Norfloxacin-Encapsulated G4 Hydrogels: The Role of Boronic Acid and Cyclodextrin.
56. Encapsulation of Hydrogen Peroxide in PVA/PVP Hydrogels for Medical Applications.
57. Release Profile and Antibacterial Activity of Thymus sibthorpii Essential Oil-Incorporated, Optimally Stabilized Type I Collagen Hydrogels.
58. Thymoquinone-loaded Nanosized Ethosomal-based Hydrogels: Their Preparation, Characterization, in Vitro, Ex Vivo, and Antimicrobial Evaluation against Staphylococcus aureus.
59. Highly effective treatment of bacterial infection-accompanied wounds by fat extract-embedded phototherapeutic hydrogel.
60. Lutein-loaded multifunctional hydrogel dressing based on carboxymethyl chitosan for chronic wound healing.
61. NIR photo-responsive injectable chitosan/hyaluronic acid hydrogels with controlled NO release for the treatment of MRSA infections.
62. Glucose-triggered NIR-responsive photothermal antibacterial gelatin/dextran hydrogel simultaneously targeting the high glucose and infection microenvironment in diabetic wound.
63. Multifunctional self-healing and pH-responsive hydrogel dressing based on cationic guar gum and hyaluronic acid for on-demand drug release.
64. Engineered bacillus subtilis enhances bone regeneration via immunoregulation and anti-Infection.
65. Fusidic Acid and Lidocaine-Loaded Electrospun Nanofibers as a Dressing for Accelerated Healing of Infected Wounds.

Staphylococcal skin infection

1. [Coagulase-negative staphylococci as a significant fact of generalization of infection in persons with a burdened comorbid background].
2. Identification of Potential Drug Targets for the Treatment of Severe Burn Wounds from a Multi-Omics Perspective.
3. Unravelling turbot (Scophthalmus maximus) resistance to Aeromonas salmonicida: transcriptomic insights from two full-sibling families with divergent susceptibility.
4. Flavuside B exhibits antioxidant and anti-inflammatory properties in Staphylococcus aureus infected skin wound and affect the expression of genes controlling bacterial quorum sensing.
5. The mutational landscape of Staphylococcus aureus during colonisation.
6. Study on metabolic disorders in rat liver induced by different times after scalds.
7. What are the general public's expectations about the likely duration of common acute infections? A cross-sectional survey of Australian residents.
8. Clinical-Microbial Synergy: Mapping Microbiological Profiles to Clinical Attributes in Skin and Soft Tissue Infections.
9. Red and blue LED light increases the survival rate of random skin flaps in rats after MRSA infection.
10. Scratching promotes allergic inflammation and host defense via neurogenic mast cell activation.
11. Antibiotic susceptibility and molecular characterization based on whole-genome sequencing of Staphylococcus aureus causing invasive infection in children and women living in Southwest China during 2018-2023.
12. Shooter's Abscess: Foot Infections in People Who Inject Drugs.

Other news of possible interest