**Dermal Literature Review**

**Period: 01/07/2025 – 01/08/2025**

[Scientific Highlights: 1](#_Toc163992178)

[Burn wound Infections (infections of or preventing infections) 1](#_Toc163992179)

[Diabetic Foot Ulcers 1](#_Toc163992180)

[Venous Leg Ulcers 1](#_Toc163992181)

[Dermal Biofilms 1](#_Toc163992182)

[Atopic Dermatitis & SA 2](#_Toc163992183)

[Dermal Fungal 2](#_Toc163992184)

[Competitors 2](#_Toc163992185)

[Dressings 2](#_Toc163992186)

[Staphylococcal skin infection 2](#_Toc163992187)

[Other news of possible interest 2](#_Toc163992188)

Scientific Highlights:

Burn wound Infections (infections of or preventing infections)

1. Gaps and Opportunities in Antimicrobial Stewardship and Surgical Site Infection Surveillance Across India.
2. Chitosan-Based Hydrogels: Revolutionizing Corneal Wound Healing with Antibacterial and Regenerative Properties.
3. Reliability of Methicillin-Resistant Staphylococcus aureus (MRSA) Nasal Swab Screening for Predicting MRSA Burn Infections.
4. Investigation of Novel Strategies to Improve the Storage Stability and the Antimicrobial Activity of Ozonized Sunflower Oil.
5. Cost-analysis of universal decolonization with pure hypochlorous acid and mupirocin to reduce MRSA infections in intensive care burn unit patients.
6. Clinical utility of methicillin-resistant Staphylococcus aureus polymerase chain reaction nares swabs in burn injured patients.
7. sdrH enhances Staphylococcus aureus infection in diabetic wounds.
8. Natural gelatin / chitosan oligosaccharides / emodin eutectogels with multiple antibacterial effects for accelerated infected wound healing.
9. Advanced Microscopic Characterization and Antimicrobial Applications of Green-Synthesized Zinc Oxide Nanoparticles in Clinical Wound Healing Bandages.
10. Skin microbiota and diabetic foot ulcers.
11. Sub-inhibitory concentrations of fosfomycin enhance Staphylococcus aureus biofilm formation by a sarA-dependent mechanism.
12. Red propolis cream and its therapeutic potential for skin lesions caused by burns.
13. A cross-sectional molecular epidemiological study of biofilm-producing methicillin-resistant Staphylococcus aureus.
14. [Common skin and soft tissue infections-current recommendations].
15. A sprayable alginate hydrogel based on copper-tannic acid metal-polyphenol for promoting acute and infected wound healing.
16. "Antimicrobial Activity of the Latex of Jatropha Curcas Against Cutaneous Wound and Burns Infection".

Diabetic Foot Ulcers

1. Battle of the Bots: Solving Clinical Cases in Osteoarticular Infections With Large Language Models.
2. Pathophysiology of Wound Development and Chronicity in Renal Disease: A Narrative Review.
3. Efficacy and safety of platelet-rich plasma versus conventional care in diabetic foot ulcers: a meta-analysis of randomized controlled trials.
4. Efficacy of phage therapy in Diabetic Foot Ulcers (DFUs): a systematic review.
5. Recent Advances in the Local Drug Delivery Systems for Diabetic Wound Healing: A Comprehensive Review.
6. A dual-component particulate dressing for simultaneous microenvironment modulation and tissue regeneration in infected diabetic wounds.
7. Diabetic foot osteomyelitis caused by Burkholderia pseudomallei: first case report from Türkiye and a review of literature.
8. Risk factors for osteomyelitis: a systematic review and meta-analysis.
9. Characterization of pathogenic microorganisms in diabetic foot infections and development of a risk prediction model.
10. Calcium alginate medicated dressing for enhanced absorption in diabetic foot ulcer management.
11. Post-Operative Instructions are Essential to Preventing Recurrent Infection After Amputation.
12. Higher C-reactive protein/albumin ratio is a potential marker for predicting amputation in patients with diabetic foot infection.
13. From prototype to implementation: Development of the DMIST scoring system for monitoring diabetic foot ulcers.
14. Exosomal peptides and proteins in wound healing and skin regeneration.
15. "An Effective Solution to Accelerate the Healing of Complex Ulcers Using Recombinant Human Epidermal Growth Factor (Intralesional Application): A Review".
16. Concordance of molecular microbiology and conventional culture techniques for infected diabetic foot ulcer management.
17. Postoperative Complications in Patients With Diabetes Undergoing Total Ankle Replacement: A 30-, 90-, and 365-Day Analysis.
18. Bacteriological profiles of diabetic ulcers in cases of major limb amputation: insights from Solomon Islands.
19. Cost-effectiveness of a nitric oxide-generating medical device in managing hard-to-heal diabetic foot ulcers.
20. Biofilm detection-based wound management in diabetic foot ulcers: a randomised controlled trial.
21. Commentary on "Polymicrobial Infection in Bone Biopsies and Relapse in Diabetic Foot Osteomyelitis: The Role of Soft Tissue Involvement".
22. New Strategies for the Treatment of Diabetic Foot Ulcers Using Nanoenzymes: Frontline Advances in Anti-Infection, Immune Regulation, and Microenvironment Improvement.
23. Whole genome sequence of a virulent and multidrug resistant Staphylococcus aureus strain MD02 isolated from a diabetic foot ulcer in Uganda.
24. Advancements in diabetic foot ulcer therapy: The role of exosomes and decellularised extracellular matrix scaffolds.
25. The incidence of and risk factors for hospitalisations and amputations for people with diabetes-related foot ulcers in Queensland, 2011-19: an observational cohort study.
26. Efficacy of autologous cell therapy on limb salvage in patients with chronic limb-threatening ischemia: 16-year single-center experience.
27. Innovative Non-antibiotic Strategies for Combating Methicillin-Resistant Staphylococcus aureus in Diabetic Foot Infections.
28. Procalcitonin and Diabetic Foot Ulcer Infections: A Meta-Analysis.
29. Alginate-based hydrogels loaded with human β-defensin-2 promote healing of MRSA-infected wounds in a diabetic model: a preclinical proof-of-concept study.
30. Nanozymes for Accelerating the Foot Wound Healing: A Review.
31. Cup as a Cap on the Diabetic Wound: A Hope for Treatment of Diabetic Ulcers.
32. 25-(OH)D Deficiency and the Risk of Minor Amputation in Patients with Diabetes Foot Ulcers: A Chinese Cohort Study.
33. Multimodal Reconstruction Approaches in Diabetic Foot Ulcers.
34. The prognostic and diagnostic significance of inflammatory markers TNF-α, IL-6, and IFN-γ in evaluating disease severity in diabetic foot infection.
35. Renal Foot in Diabetes: Implications for Wound Healing and Solutions.
36. Trends in Oral Antibiotic Treatment in Patients Hospitalized with Diabetic Foot Osteomyelitis: A Single-Centre Experience.
37. Diabetic foot prevention, assessment, and management using innovative smart wearable technology: a systematic review.
38. Predictors of 30-day mortality in major lower limb amputations: insights from a five-year retrospective study in a South Asian LMIC.
39. Patient insurance status and race modify outcomes for diabetic patients undergoing care for diabetic foot ulcers and infections.
40. Digital Infrared Thermographic Imaging for Limb Salvage in Patients at Risk of Amputation: Prospective Observational Study.
41. 5- months exposed implant after osteosynthesis is not necessarily a problem: A case report of a distal tibia fracture.
42. [Charcot's osteoarthropathy : How to identify a superimposed osteomyelitis?].
43. Antimicrobial management of complex biofilms in diabetic foot ulcers: a microbiological perspective.
44. Minimally invasive orthopaedic surgery for diabetic foot disease: A systematic review.
45. Prognostic value of the site, depth, and infection/ischemia classification system in diabetic foot ulcers: a retrospective cohort study.
46. The development of a direct co-culture-based model for diabetic foot ulcer mimicking inflammation and impaired phagocytosis.
47. Prevalence of multidrug-resistant biofilm-forming pathogens in diabetic foot ulcers and antimicrobial activity of nanoparticles.
48. Targeting oxidative damage in diabetic foot ulcers: integrative strategies involving antioxidant drugs and nanotechnologies.
49. Editorial: Diabetic wound: multifaceted mechanisms and future of diabetic wound healing, volume II.
50. Multifunctional Bacterial Cellulose Hydrogel Membranes with Antibacterial and Tissue-Regenerating Properties for Treatment of Infected Diabetic Wound.
51. Minimally Invasive Surgery and Diabetes.
52. Chronic Diabetic Foot Osteomyelitis Presented as a Sausage Toe Treated With Internal Pedal Amputation: A Small Case Series.
53. Minimally Invasive Surgical Correction of Hindfoot and Ankle Deformities in Charcot Neuroarthropathy: A Proof-of-Concept in Five Patients.
54. Targeting diabetic foot ulcer pathophysiology: altered signaling pathways and 3D scaffold as an emerging treatment strategy.
55. From Control to Cure: Insights into the Synergy of Glycemic and Antibiotic Management in Modulating the Severity and Outcomes of Diabetic Foot Ulcers.
56. Exploring the Microbiome of Diabetic Foot Ulcers: A Focus on Cases with a Clinical Worse Outcome.
57. Identification of Exosome-Associated Biomarkers in Diabetic Foot Ulcers: A Bioinformatics Analysis and Experimental Validation.
58. Early-Onset Diabetes in Ghana's Upper East Region-Insights From Hospital Data.
59. Domain antibody-displayed phages as a novel biofilm-targeted therapy for Staphylococcus aureus.
60. Cognitive impairment is associated with poor diabetic foot ulcer outcomes.
61. Emergence of β-lactamase-producing Proteus mirabilis in clinical settings: A genotypic investigation of resistance mechanisms and carbapenemase genes bla (NDM-1) and bla (KPC-2).
62. Probiotics in Nanotechnology-Driven Wound Healing: From Mechanistic Insight to Clinical Promise.
63. Novel Treatments for Diabetic Foot Osteomyelitis: A Narrative Review.
64. Euglycemic Diabetic Ketoacidosis Triggered by Sepsis in a Patient on Sodium-Glucose Co-transporter 2 (SGLT2) Inhibitor Therapy: A Case of Diagnostic and Therapeutic Challenges.
65. Microbiology of Diabetic Foot Infections in U.S. Veterans.
66. Innovations in hydrogel therapies for diabetic wound healing: bridging the gap between pathophysiology and clinical application.
67. Application of Transverse Tibial Bone Transfer in Diabetic Foot Patients: A Comprehensive Evaluation of Postoperative Prognostic Factors and Risk Factors.

Venous Leg Ulcers

1. A randomized clinical trial of silver hydrofiber dressing versus collagenase ointment for venous ulcer: analysis of biofilm-producing bacteria and bacterial clonality.

Dermal Biofilms

1. Topical application of the HSP90 inhibitor 17-AAG reduces skin inflammation and partially restores microbial balance: implications for atopic dermatitis therapy.
2. Comparative genomic analysis of clinically relevant human skin-associated fungi.
3. Monolaurin inhibits antibiotic-resistant Staphylococcus aureus in patients with atopic dermatitis.
4. Oxidized chitosan: Combining an "Adhesion-and-Kill" antibacterial strategy with immunoregulation and angiogenesis to enhance methicillin-resistant Staphylococcus Aureus-infected wound healing.
5. Comparative microbiome analysis of contracted breast capsules: a cross-sectional study.
6. A novel tetrahedral framework nucleic acid-based antibiotic delivery system: overcoming biofilm barriers to combat chronic infections.
7. Accelerating infectious wound healing through bacterial cellulose/ag composite film enriched with GM-CSF.
8. Adhesin Als4112 promotes Candida auris skin colonization through interactions with keratinocytes and extracellular matrix proteins.
9. The antimicrobial efficacy of rutin encapsulated chitosan versus multidrug-resistant Pseudomonas aeruginosa.
10. Trichosporon and Antifungal Resistance: Current Knowledge and Gaps.
11. Anti-Pseudomonas aeruginosa Activity of the Scorpion-Derived Peptide GK8.
12. An Atypical Manifestation of Cellulitis Induced by Proteus mirabilis.
13. Comparative genomic analysis of resistance and virulence genes in staphylococcus epidermidis and their impact on clinical outcome of musculoskeletal infections.
14. Skin-deep strategies of intraspecific competition.
15. A delayed-melting cryomicroneedle system for probiotic delivery against invasive Candida albicans infection.
16. Efficacy of phage vB\_Ps\_ZCPS13 in controlling Pan-drug-resistant Pseudomonas aeruginosa from urinary tract infections (UTIs) and eradicating biofilms from urinary catheters.
17. Animal Model of Implant-Associated Infections in Mice.
18. Thymol combined with SAEW for the eradication of mature Pseudomonas aeruginosa biofilms and reduction of bacterial virulence.
19. Anatomical site and environmental exposure differentially shape the microbiota across mucosal tissues in rainbow trout (Oncorhynchus mykiss).
20. Disinfection of medical devices with a steam machine that operates at atmospheric pressure and is suitable for home usage.
21. The novel pyridine-fused quinolinone PQ-L5 exhibits antibacterial effects and enhances β-lactam activity by targeting PBP2a in methicillin-resistant Staphylococcus aureus.
22. Invasive fungal infections caused by rare yeast-like fungi in adult patients: results of a prospective study.
23. Human Wound and Its Burden: Updated 2025 Compendium of Estimates.
24. In vitro and in vivo anti-Pseudomonas aeruginosa activity of a scorpion peptide derivative.
25. Eriodictyol and Diosmetin Protective Potential in Skin Infection: Antimicrobial Action, Gene and Molecular Targets, and Keratinocyte Protection Against Bacteria-Induced Damage.
26. An optimized 2,2'-dipicolylamine-rutaecarpine quaternary ammonium derivative: targeting bacterial membrane disruption for enhanced anti-methicillin-resistant Staphylococcus aureus (MRSA) activity.
27. Sanguinarine Hydrogel Accelerates Wound Healing in Staphylococcus pseudintermedius Infections by Suppressing Biofilm Formation.
28. Genomic characterization and antibiotic susceptibility of biofilm-forming Borrelia afzelii and Borrelia garinii from patients with erythema migrans.
29. Prophage-encoded methyltransferase drives adaptation of community-acquired methicillin-resistant Staphylococcus aureus.
30. Use of polyhexamethylene biguanide in the treatment of atopic dermatitis with Staphylococcus aureus hypercolonization.
31. A combined metabolomics and biochemometrics approach for the rapid identification of antibacterial naphthyl derivatives from Guiera senegalensis leaves.
32. Multifunctional nanogel dressings with dual acid and H(2)O(2) responsive release for synergetic therapy of diabetic bacterial wounds.
33. The Therapeutic Potential of Antimicrobial Peptides Isolated from the Skin Secretions of Anurans of the Genus Boana in the Face of the Global Antimicrobial Resistance Crisis.
34. Octenidine effectively reduces Candida auris colonisation on human skin.
35. Reducing Driveline Infection Risk in durable Mechanical Circulatory Systems with Ultra-Flexible Wires for Energy Transfer.
36. In vitro and in vivo antibacterial activity of TsAP-2 from Tityus stigmurus scorpion venom in multidrug-resistant strains and its NMR three-dimensional structure.
37. 10058-F4 Mediated inhibition of the biofilm formation in multidrug-resistant Staphylococcus aureus.
38. Virulence and Antibiotic Resistance Profiles of Staphylococcus aureus Isolated from Epidermal Growth Factor Receptor Inhibitors-Associated Skin Lesions.
39. Antimicrobial Efficacy of Impregnated Human Acellular Dermal Substitutes in Burn Wound Models.
40. Transcriptomic Analysis of Biofilm Formation Inhibition by PDIA Iminosugar in Staphylococcus aureus.
41. First Report of Stenotrophomonas maltophilia from Canine Dermatological Infections: Unravelling Its Antimicrobial Resistance, Biofilm Formation, and Virulence Traits.
42. Inhibition of the MRSA Biofilm Formation and Skin Antineoplastic Activity of Ethyl Acetate Roots and Aerial Parts Extracts from Geum urbanum L.
43. Propolis Extract with Activity Against Cutibacterium acnes Biofilm Targeting the Expression of Virulence Genes.
44. Exploring the Potential of Flavobacterium covae Catalase and DNA Starvation/Stationary Phase Protein as Recombinant Protein Vaccines Against Columnaris Disease in Channel Catfish.
45. High electron transfer efficiency accordion-shaped HNiZn heterostructure nanozyme for low-temperature photo-catalytic enhanced therapy of bacterial infection wounds.
46. Machine learning assisted identification of antibiotic-resistant Staphylococcus aureus strains using a paper-based ratiometric sensor array.
47. Staphylococcus epidermidis in Acute Myeloid Leukemia: A Comparative Genomic Study Against Non-AML Isolates.
48. Role of the microbiome in diabetic wound healing: implications for new therapeutic approaches.

Atopic Dermatitis & SA

1. Atopic dermatitis-related anti-inflammatory in vitro effects of a plant extract mixture.
2. Langerhans Cell Modulation in Atopic Dermatitis Is TLR2/SOCS1-Dependent and JAK Inhibitor-Sensitive.
3. Current insights and trends in atopic dermatitis and microbiota interactions: a systematic review and bibliometric analysis.
4. Hyper-IgE syndrome: A rare case report.
5. Efficacy and safety of indigo naturalis oil extract (Lindioil ointment) for the treatment of atopic dermatitis: a randomized, crossover, evaluator-blinded, controlled trial.
6. Epicutaneous Staphylococcus aureus initiates cross-tissue IL-36R signaling for neutrophilic lung inflammation in a model of the atopic march.
7. Staphylococcus Strains in Atopic Dermatitis in Children: Toxins Production and Resistance Properties.
8. EFFECT OF SYSTEMIC THERAPIES ON SKIN BACTERIOME IN PATIENTS WITH ATOPIC DERMATITIS: A PILOT PROSPECTIVE STUDY.
9. Atopic Dermatitis Part 1: Pathophysiology, Clinical Manifestations, and Associations.

Dermal Fungal

1. Molecular Identification of Fonsecaea pedrosoi in Chromoblastomycosis: Insights from Paraffin-Embedded Human Skin Biopsies and Clinicopathology.
2. Gut microbiota constituents may affect hypertrophic scarring risk through interaction with specific immune cells in a two-step, two-sample Mendelian randomization study.
3. MIP-3α-antigen fusion DNA vaccine enhances sex differences in tuberculosis model and alters dendritic cell activity early post vaccination.
4. A clinico-epidemiological study, assessing possible predictors of mortality and health-related quality of life for people living with visceral leishmaniasis - human immune virus (VL-HIV) co-infection in a high burden kala-azar endemic state of India: a descriptive cross-sectional study.
5. The Frank Stinchfield Award: Preoperative Surgical Skin Cleansing Protocols Are Not Effective at Decreasing the Burden of Cutibacterium acnes Before Total Hip Arthroplasty.
6. Plant-Based ZnO Nanoparticles for Green Nanobiocontrol of a Highly Virulent Bacterial Leaf Blight Pathogen: Mechanistic Insights and Biocompatibility Evaluation.
7. Time-dependent cytotoxicity of naphthalene on HepG2 cell lines.
8. Encapsulation of ZnO-NPs, tannic acid, and β-carotene into cellulose coated polydopamine bionanoplatform: Fabrication, characterization, antimicrobial, and in vitro wound healing evaluation.
9. Prognostic value of serum concentrations of interleukin-6 and interleukin-8 in dermal burn injuries among pediatric patients.
10. Molecular Identification, Phylogenetic Analysis, Clinical and Histopathological Findings of Dermocystidium anguillae From Koi Carp (Cyprinus carpio).
11. Expanding Prospects for Dermal Health with Bioactive Phytochemicals.
12. Association of Post Kala-Azar Dermal Leishmaniasis pathogenesis with prolonged sunlight (ultraviolet radiations) exposure in VL endemic population of Bihar.
13. Editorial: Leishmaniasis: control and elimination, volume II.
14. Dysregulated lymphatic remodeling promotes immunopathology during non-healing cutaneous leishmaniasis.
15. Keratin-Mediated Selective Inhibition in Proliferation and Selective Apoptosis of Keloid Fibroblasts.
16. Severe Outbreak of Saprolegnia Spp. Infection in Spotted Snakehead (Channa punctata, Bloch 1793): Clinical Assessment, Histopathology, Haemato-Biochemical Indices and Insights Into Therapeutic Effects.
17. Potential of silymarin and its polyphenols to affect Nrf2 signalling pathway in human skin cells.
18. Dual-loaded ZnO and Se nanoparticles in chitosan/alginate bio-composite: synthesis, cytotoxicity, antioxidant activity, and anti-cervical cancer potential.
19. Systemic toxicity induced by topical application of the sulfonic acids, perfluorobutane sulfonic acid (PFBS) and perfluoropentane sulfonic acid (PFPeS), in a murine model.
20. Characterization of Lumpy Skin Disease in Northern Bangladesh: Clinical, Pathological, Biochemical, and Molecular Perspectives.
21. Liposomal Delivery of a Biotechnological Lavandula angustifolia Miller Extract Rich in Rosmarinic Acid for Topical Herpes Simplex Therapy.
22. Potentials and Challenges in Development of Vesicular Phospholipid Gel as a Novel Dermal Vehicle for Thymol.
23. Protocol for 3D Bioprinting a Co-culture Skin Model Using a Natural Fibrin-Based Bioink as an Infection Model.

Competitors

1. Mupirocin: A Useful Antibiotic for Methicillin-Resistant Staphylococcus aureus Decolonization: A Narrative Review.
2. Atypical development and swift resolution of an ulcerated hemangioma: a case report.
3. 5-(3, 4-methylenedioxyphenyl)-4-ethyl-2E, 4E-pentadienoic acid piperidide as MdeA efflux pump inhibitor of Staphylococcus aureus.
4. Comparison of Mupirocin ointment and Basic Fibroblast Growth Factor Gel in the treatment of pediatric recurrent anterior epistaxis: Randomized, controlled, single blind study.
5. Synergistic Interactions of Oxidized Amylose Silver Nanoparticles and Topically Applicable Antibiotics Against Staphylococcus aureus.
6. Genomic and Phenotypic Characterization of Mupirocin-resistant Staphylococcus aureus Clinical Isolates.
7. Comparing Alcohol-Based Nasal Antiseptic to Mupirocin and Iodophor for Preventing Surgical Site Infection: A Meta-Analysis.

Dressings

1. Thermoresponsive Biodegradable Hydrogel Combined with Photothermal and Chemodynamic Therapies To Eliminate Biofilms and Accelerate Infected Wound Healing.
2. Bioactive metal-protein matrix for promoting MRSA infection wound therapy through bioenergy-induced angiogenesis.
3. Multifunctional DNA hydrogels with light-triggered gas-therapy and controlled G-Exos release for infected wound healing.
4. ROS/pH Dual-Responsive Hydrogel Dressings Loaded with Amphiphilic Structured Nano Micelles for the Repair of Infected Wounds.
5. Silver-decorated lysozyme-hemin nanocomposite loaded into thermosensitive hydrogel for on-demand management of MRSA-infected wounds.
6. Copper ion-chelated supramolecular polymer/hyaluronic acid hydrogel promotes wound healing in diabetes.
7. Superhydrophilic Lubricating Loach Mucus-Methacryloylated Gelatin Hydrogel.
8. Multifunctional cotton wound dressings enhanced with bitter apple fruit extract-loaded solid lipid nanoparticles for antimicrobial, antioxidant, and anticancer activities.
9. Chitosan/PVA film containing β-acids/HP-β-CD inclusion complex for MRSA-infected wound healing.
10. Xylan-chitosan based films with deep eutectic solvents for wound healing applications.
11. Designing Self-Healing Hydrogels with Antibacterial Property Based on Host-Guest Interactions between Aminoazobenzene-Modified Gelatin and Polycyclodextrin for Prolonging the Shelf Life of Tyrosinase Enzyme.
12. Evaluation of Anti-Inflammatory Effects of Chitosan Film Loaded Arnebia Euchroma Extract Through In Vitro and In Vivo Studies.
13. Antibacterial, self-healing, and pH-responsive PVA/ZIF-8@tannic acid nanocomposite hydrogel for sustained delivery of garlic extract.
14. Antibacterial activity of a conventional hydrogel and a nanoparticle based hydrogel containing Satureja khuzestanica essential oil.
15. Electrospun polyvinyl alcohol/carboxymethyl cellulose loaded with Asphaltum Punjabianum (Shilajit) nanofibrous mats for potential cartilage regeneration applications.
16. A high strength multifunctional lignin-based hydrogel dressing with antibacterial, antioxidant, hemostatic and adhesive properties for wound healing.
17. Epigallocatechin gallate-mediated interaction modulates the gelation properties and antibacterial spectrum of rigid amyloid lysozyme fibril-chitosan hydrogels.
18. Biodegradable chitosan/PVA-based hydrogel incorporating green synthesized silver nanoparticles for wound healing applications.
19. Near-infrared light and magnetic field dual-responsive 3D printed scaffolds for sequential treatment of infected bone defects.
20. pH-Responsive Bilayer Hydrogel with Synergistic Antibacterial/Anti-inflammatory Effect for Infected Wound Healing.
21. Dialdehyde carboxymethyl cellulose and polyvinyl alcohol based hydrogel dressing via dual dynamic bonds with self-adaptive, hemostatic, and antibacterial activity for wound healing.
22. Self-cross-linked carboxymethyl chitosan/polyethylene glycol hydrogel containing bioactive peptide accelerates bacterial-infected wound healing.
23. Engineering Injectable, Adhesive, and Drug-Free Hydrogel for Efficient Acute Otitis Media Treatment by Biofilm Disruption and Immune Modulation.
24. Synthesize, antioxidant and antimicrobial properties of a chitosan xerogel film with Nigella Sativa extract.
25. Dual stimuli-responsive and self-healing hyaluronic acid-based nanocomposite hydrogels for promoting wound healing of methicillin-resistant Staphylococcus aureus infection.
26. Surface-Engineered WS(2) Nanohybrids for Implications in Biomedicine.
27. Cinnamomum zeylanicum extract incorporated electrospun poly(lactic acid)/gelatin membrane as a new wound dressing.
28. Transdermal delivery of antibacterial peptides in the management of methicillin-resistant Staphylococcus aureus.
29. Resveratrol-loaded engineered microcapsules with dual antimicrobial and ROS-scavenging for programmed wound healing.
30. Wound Dressing Potential of Bacterial Cellulose Produced by Acetobacter tropicalis NBRC 16470 Strain Isolated from Rotten Fruits.
31. Preparation of thermo-responsive antimicrobial hydrogel from agave bagasse xylan-net-oxazoline and phosphate mesoporous silica SBA-15.
32. Bionic Janus Fiber Enabling Autonomous Exudate Management and Multimodal Sterilization for Diabetic Wounds.
33. Development of a γ-Cyclodextrin-Based Cryogel Loaded with Trimethoprim for Acne Treatment: Design, Synthesis, and In Vitro Evaluation.
34. Statistical Optimization of Bacterial Cellulose Production and Its Application for Bacteriophage Immobilization.
35. Design of a Dual-Drug Delivery System for Local Release of Chlorhexidine and Dexketoprofen.
36. Bionanocomposite hydrogel based on carboxymethyl cellulose/xanthan gum/ZnO reinforced with Arundo donax biomass: Production, characterization, swelling study and bacterial disinfection properties in water.
37. Acetylated yeast mannan endowing biomimetic electrospun nanofibers with hydrophobicity and moisturizing property for accelerated cutaneous defects repair.
38. Polydopamine Nanoparticle-Integrated Smart Bletilla striata Polysaccharide Hydrogel: Photothermal-Triggered CO(2) Release for Diabetic Wound Microenvironment Modulation.
39. Nanocellulose /sodium alginate porous foams for enhanced wound healing and antibacterial.
40. A short amphipathic peptide-based injectable hydrogel with antibacterial properties.
41. Hydrogel dressings loaded with anticancer/antimicrobial Ag(I) camphorimine complexes for treatment of malignant wounds.
42. Multifunctional Nanocomposite Hydrogel Dressings with Excellent Antibacterial and Angiogenesis Properties for Effective Treatment of Diabetic Wounds.
43. Innovative exopolysaccharide-based hydrogel for controlled phycoerythrin release: Synthesis and characterization.
44. Corrigendum to "pH-responsive cationic guar gum-based multifunctional hydrogel with silver nanoenzymes: Combined photothermal antibacterial therapy and antioxidant properties for MRSA infected wound healing" [Int. J. Biol. Macromol.292 (2025), 139201].
45. Flexible Double Bonds-Enhanced Photodynamic Therapy toward Antibacterial Resistance.
46. Unveiling the Synergistic Influence of TiO(2) and Chitosan-Based Hydrogel in Precision Surface Co-Modification for Superior Pure Titanium Implant Performance.
47. Ginkgo biloba leaf polysaccharide dual-network hydrogel films: Decoding structure-function relationship for sustainable strawberry shelf-life extension.
48. A multifunctional hydrogel system with synergistic effects against Staphylococcus aureus infections and inflammation in perioperative cataract surgery.
49. Composite HPMC-Gelatin Films Loaded with Cameroonian and Manuka Honeys Show Antibacterial and Functional Wound Dressing Properties.
50. Artemisia argyi-Mediated Synthesis of Monodisperse Silver Nanoparticles as Components of Bioactive Nanofibrous Dressings with Dual Antibacterial and Regenerative Functions.
51. Propolis-Infused Electrospun Eudragit/PVP Mats: A Novel Approach for Bioactive and Antibacterial Wound Dressings.
52. Rutin-decorated molybdenum disulfide / hyaluronic acid methylprenyl hydrogel photothermal antibacterial therapy promotes skin wound repair.
53. Extracellular vesicles enhance the efficacy of ceftiofur against intracellular bacterial infections.
54. Preliminary Evaluation of the Synergistic Antibacterial Effects of Selected Commercial Essential Oil Compounds Against Methicillin-Resistant Staphylococcus aureus ATCC 43300.
55. Bioinspired Co-Assembled Hydrogels Constructed from Marine Self-Assembling Peptides and Polyphenol Network: Antioxidant and Infected Wound Healing.
56. Chitosan membrane tailored for topical acne treatment by incorporating Pickering encapsulated tea tree oil based on organosilane-modified palygorskite.
57. Chitosan-based double-network hydrogel with synergistic photothermal/nitric oxide therapy for methicillin-resistance Staphylococcus aureus infected wound healing.
58. Porous hydrogel of siloxane-modified polyvinyl alcohol/polydopamine containing berberine chloride, exhibiting robust antibacterial activity and promoting the healing of MRSA-infected wounds.
59. Adsorbent of bacteria and inflammatory Factors: Injectable dual-network hydrogel for osteomyelitis treatment.
60. Facile fabrication of antioxidative and antibacterial hydrogel films to accelerate infected diabetic wound healing.
61. Dual dynamic bond crosslinked, on-demand removable antimicrobial chitosan hydrogel with superior photothermal responsiveness and CAT mimetic activity.
62. Development of Bioactive Cotton, Wool, and Silk Fabrics Functionalized with Origanum vulgare L. for Healthcare and Medical Applications: An In Vivo Study.
63. Nano-active carboxymethyl cellulose hydrogels infused with sodium deoxycholate functionalized permeosomes to combat biofilm producing resistant pathogens associated with chronic wounds.
64. Host-guest mediated controlled release of 5-fluorouracil by CQD integrated starch based smart tripolymeric hydrogel.
65. Schiff base formed functional hydrogel dressing via ε-poly-L-lysine modified chitosan and oxidized dextran with the incorporation of epigallocatechin-3-gallate.
66. Developing antioxidant-antimicrobial nanofibers containing Corallina officinalis extract for wound healing.

Staphylococcal skin infection

1. The Many Lives of Staph: Staphylococcal Scalded Skin Syndrome in Two Brothers Secondary to Staphylococcus aureus-Associated Ecthyma Gangrenosum.
2. Investigating the Antibiotic Resistance Pattern of MRSA in Cancer Patients.
3. Staphylococcus aureus LukMF' targets neutrophils to promote skin and soft tissue infection.
4. Emergence of livestock-associated MRSA in the Egyptian Nile Delta that carry the exfoliative toxin gene etA: a case for enhanced surveillance.
5. Factors influencing bacterial viability on face masks and bactericidal effect of disinfection methods.
6. Bacteriophage infection drives loss of β-lactam resistance in methicillin-resistant Staphylococcus aureus.
7. Exosome microsphere/nano silver loaded injectable antibacterial hydrogel augments anti-infection and healing for scald wound.
8. Pediatric Staphylococcal Scalded Skin Syndrome: A Systematic Review of the Literature to Inform Work-Up and Management.
9. Synthesis, Antimicrobial Activities, and Model of Action of Novel Tetralone Derivatives Containing Aminoguanidinium Moiety.
10. Community-acquired staphylococcal scalded skin syndrome in an immunocompetent adult.
11. Ischiopubic synchondrosis osteomyelitis: a rare presentation of a limping child presenting to a paediatric emergency department.
12. Pediatric Staphylococcal Scalded Skin Syndrome Complicated by Methicillin-Resistant Staphylococcus Aureus and Steroid Abuse: A Case Report.
13. Time-Varying Bayesian Network Meta-Analysis.
14. Mapping of quorum sensing interaction network of commensal and pathogenic staphylococci.
15. Gradual loss of mobile genetic elements in Staphylococcus aureus USA300 in a closed hospital niche.
16. Spread of the FAR-MRSA clone, a fusidic acid- and meticillin-resistant Staphylococcus aureus ST121, Europe, 2014 to 2024.
17. Immunoglobulin A-Dominant Post-Infectious Glomerulonephritis Mimicking Henoch-Schönlein Purpura Nephritis in a Patient With Methicillin-Sensitive Staphylococcus aureus Bacteremia.
18. Antibacterial and Regenerative Potential of Zinc Oxide Nanoparticles and Carboxymethyl Cellulose for Infected Wound Healing in Rats.
19. Prevalence, species identification, and antibiotic resistance of Staphylococci in dogs visiting veterinary clinics in Vietnam.
20. Potential Compounds as Inhibitors of Staphylococcal Virulence Factors Involved in the Development of Thrombosis.
21. Whole Genome Sequence Analysis of Multidrug-Resistant Staphylococcus aureus and Staphylococcus pseudintermedius Isolated from Superficial Pyoderma in Dogs and Cats.
22. A novel chlorine derivative ShengTaiBuFen mediated photodynamic therapy on a mouse wound model infected with methicillin-resistant Staphylococcus aureus.
23. A promising Staphylococcus aureus vaccine adjuvant candidate to overcome Staphylococcal infection based on innate immunity.

Other news of possible interest