**Dermal Literature Review**

**Period: 01/08/2025 – 01/09/2025**

[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. Results of microbiological surveillance in patients with high-voltage eletrical injuries: A 10-year single center experience.
2. A multifunctional dihydromyricetin-loaded hydrogel for the sequential modulation of diabetic wound healing and glycemic control.
3. Development of therapeutic ions loaded oxidized guar gum and sodium alginate-based 3D printed biomimetic scaffolds investigated in-vitro and in-vivo for burn wound repair.
4. Do skin bacteriostatic agents reduce acute radiodermatitis in breast cancer patients? A prospective interventional study.
5. Pathologically Responsive Au@Ag Nanocomposite Spray-Coated Hydrogel Dressing for Accelerated Healing of Infected Wounds.
6. Some New Zinc Halide Complexes of N(2)O(2)-Schiff Base: Synthesis, Thermal, Antimicrobial, Antioxidant, Anticancer and Burn Wound Healing Effects.
7. The relationship between respiratory tract infections caused by toxin-producing bacteria in burn patients during COVID-19: pathogenesis, diagnostics and novel therapies.
8. An Acid-Oxidising Solution Containing Hypochlorous Acid Reduces Staphylococcus aureus and Improves Bacterial Diversity in Epidermolysis Bullosa Wounds.
9. Smart bacteriophage release from bovine β-lactoglobulin fibrils based hydrogel with anti-MRSA, biofilm degradation and hair follicle regeneration functions for infected burn wound.
10. Pharmacological evaluation of phage-antibiotic synergism against clinical isolates of multi-drug resistant Staphylococcus aureus in a burn-induced infection mouse model.
11. Plasma-activated water accelerates wound healing and reduces Staphylococcus aureus infection in vivo.
12. Multifunctional Polyrotaxane Hydrogel with Dynamic Molecular Anchors and Microenvironment-Activatable Cationization Properties for Healing Drug-Resistant Bacterial-Infected Chronic Skin Wounds.
13. Comparison of peripherally inserted central catheters and central venous catheters in burn patients: a retrospective cohort study.

Diabetic Foot Ulcers

1. Machine learning combining external validation to explore the immunopathogenesis of diabetic foot ulcer and predict therapeutic drugs.
2. Wound Bed Temperature has Potential to Indicate Infection Status: A Cross-Sectional Study.
3. In vitro activity of Houttuynia cordata against bacteria isolated from diabetic foot.
4. Predicting major amputation risk in diabetic foot ulcers using comparative machine learning models for enhanced clinical decision-making.
5. Bacterial profile and antimicrobial resistance in diabetic foot ulcer infections: a 10-year retrospective cohort study.
6. Cold atmospheric plasma followed by in-situ electrospining of arginine-loaded nanofibers accelerate healing of infected diabetic wounds.
7. Efficacy Of N-Acetyl-Cysteine as Adjuvant Therapy for Diabetic Foot Osteomyelitis: An Open-Label Randomized Controlled Trial.
8. Characterization of Microbial Profiles and Antimicrobial Resistance in Diabetic Foot Ulcers at a Tertiary Care Facility in Northern China.
9. Efficacy of Platelet-Rich Plasma Dressing Versus Normal Saline Dressing in the Management of Diabetic Foot Ulcers: A Comparative Study Conducted in a Tertiary Care Hospital in Southern Odisha.
10. Diabetic Microvascular Disease and Risk of Peripheral Artery Disease, Foot Ulcer, Leg Infection, and Amputation.
11. Clinical benefits of paclitaxel-coated balloons in the treatment of infrapopliteal limb-threatening peripheral artery disease.
12. Six-month Outcomes of Patients Admitted for Diabetic Foot Attack.
13. Impact of diabetes mellitus and preoperative body mass index on 30-day postoperative complications and readmissions following total knee arthroplasty.
14. Poloxamer-based hydrogel with EGCG and rhEGF for diabetic foot ulcer treatment.
15. Rationale and technique for subulcer ultrasonic treatment of hard-to-heal diabetic foot ulcers.
16. Development of an XGBoost-based prediction model for wound recurrence risk in diabetic foot ulcer patients treated with antibiotic-loaded bone cement.
17. Enhancing diabetic foot wound healing with topical macrophage-regulating cream (ON101): a case series.
18. Shotgun Metagenomic Investigation of the Microbiome in Diabetic Foot Infections Compared to Healthy Skin.
19. A Cost Analysis of Diabetic Hand Infections: A Study Based on Direct, Indirect, and One-Year Follow-Up Costs.
20. Acid-fast bacilli staining for nonhealing ulcers: a case report of cutaneous Mycobacterium chelonae infection.
21. Exploring the Anti-inflammatory Molecular Mechanism of L-shikonin in Promoting Diabetic Wound Healing by Modulating the Janus Kinase/Phosphatidylinositol-3-kinase/Protein Kinase B/Vascular Endothelial Growth Factor Pathway Based on Network Pharmacology.
22. Multifunctional 3D-Printed Wound Dressings Containing a Combination of Synergistic Antimicrobials in the Management of MRSA Infected Topical Wounds.
23. Understanding risk factors and prognosis in diabetic foot ulcers.
24. Successful Treatment of Refractory Methicillin-Sensitive Staphylococcus aureus Osteomyelitis With Ceftaroline Fosamil in a Diabetic Patient.
25. A Multifaceted Approach to Diabetic Foot Ulcer Healing Beyond HbA1c: A Prospective Observational Study in a Tertiary Care Hospital in Chennai.
26. [Study on effectiveness and changes in immunoglobulin levels of transverse tibial transport in treatment of Wagner grade 3-4 type 2 diabetic foot ulcer].
27. Anesthetic management of diabetic foot amputation in a patient with renal failure and maintenance hemodialysis: case report and short communication.
28. Management of Diabetic Wounds: Expert Panel Consensus Statement.
29. A Novel Diabetic Limb Preservation Initiative.
30. Vitamin D supplementation reduces infection rate and promotes wound healing in patients with diabetic foot ulcers.
31. Self-healing hydrogels loaded with selenium nanoparticles/chitosan/cellulose nanofibers as carriers of mesenchymal stem cells for diabetic wound healing.
32. Integrating piezoelectric dressings with botanicals as emerging smart dressings for diabetic wound healing.
33. Factors affecting diabetes related hospitalization and in-hospital outcomes of adults with diabetes in south Ethiopia: A prospective observational study.
34. Diagnostic Value of Neutrophil CD64 Index in Diabetic Foot Osteomyelitis.
35. Bloodstream infection caused by coinfection of Actinomyces turicensis and Gemella morbillorum: a case report and literature review.
36. Diabetes Mellitus and Infectious Diseases: Current Evidence and Clinical Implications.
37. Immunomodulatory mechanisms and comprehensive treatment strategies of traditional Chinese medicine for enhancing diabetic foot ulcer healing.
38. Reoperation and Reamputation Rates After Hallux Amputations versus Partial First-Ray Amputations.
39. Development of predictive nomogram for clinical use of special-grade antimicrobial agents in patients with diabetes foot infections.
40. Increasing rates of ESBL-producing Escherichia coli and Klebsiella pneumoniae in Canadian Hospitals: 17 years of the CANWARD study, 2007-23.
41. Onychomycosis in Diabetics: A Common Infection with Potentially Serious Complications.
42. Optimising Regimen of Co-Amoxiclav (ORCA)-The Safety and Efficacy of Intravenous Co-Amoxiclav at Higher Dosing Frequency in Patients with Diabetic Foot Infection.
43. Innovative therapies for diabetic foot ulcers: Application and prospects of smart dressings.
44. Effective application of an innovative acemannan-enriched glycolipid sphere dressing in diabetic foot ulcer wound healing: A case report and review of literature.
45. Influence Of Clinical Presentation Of Diabetic Patients With Chronic Limb Threatening Ischemia Submitted To Distal Revascularization.

Venous Leg Ulcers

1. Vulnamin as an adjunct to standard of care in hard-to-heal venous leg ulcers: clinical effectiveness and cost modelling.
2. Association and binding nature of sodium dodecyl sulfate with ofloxacin antibiotic drug in potassium-based electrolyte solutions: a conductometric and UV-Visible spectroscopic investigation.
3. Dysfunctional pericellular hyaluronan deposition contributes to attenuated CD44/EGFR co-localization and impaired myofibroblast differentiation in chronic wound fibroblasts.

Dermal Biofilms

1. Modified chitosan-fabricated antifungal transdermal array for dermatophytosis therapy.
2. [Skin Microbiome and Dermatitis: Focusing on Two Distinct Skin Diseases, Atopic Dermatitis and Androgenetic Alopecia].
3. Antimicrobial resistance and biofilm production by Staphylococcus spp. and Mammaliicoccus Sciuri in Inia araguaiaensis: surveillance under a one health perspective in the Amazon.
4. Metabolites derived from bacterial isolates of the human skin microbiome inhibit Staphylococcus aureus biofilm formation.
5. Phenotypic and genotypic characterization of antimicrobial resistance in Enterococcus spp. Isolated from the skin microbiota of channel catfish (Ictalurus punctatus) in Southeastern United States.
6. Modulating Antimicrobial Activity and Structure of the Peptide Esc(1-21) via Site-Specific Isopeptide Bond Formation.
7. Viridans Streptococcal Biofilm Evades Immune Detection and Contributes to Inflammation and Rupture of Atherosclerotic Plaques.
8. Photothermal therapy for bacteria-infected wound healing via a cation-anion inverted antiperovskite with full-spectrum solar absorption.
9. Candida albicans Goliath cells pioneer biofilm formation.
10. Assessing the Potential of Antimicrobial Blue Light (aBL) to Manage Biofilm Burden at the Skin-Implant Interface of Percutaneous Osseointegrated Implants.
11. Antimicrobial microneedles: Advances, mechanisms, and applications in combating bacterial infections.
12. Targeting human skin health: Bioactive evaluation of acorn shell and red grape pomace extracts against pathogens and skin cells.
13. Characterization of a mouse model of osteoarticular infection using clinical isolates of Staphylococcus aureus.
14. Efficacy of a commercial bacteriophage cocktail against planktonic cells and both thin and thick biofilms of skin pathogens, measured using isothermal microcalorimetry.
15. In Silico and In Vitro Potential Antifungal Insights of Insect-Derived Peptides in the Management of Candida sp. Infections.
16. Effect of 3,3'-Diindolylmethane on the Antibacterial Activity of Fluoroquinolones as Constituents of Potential Drug Products for Topical Application.
17. Role of methicillin-resistant Staphylococcus aureus in cutaneous infections: Current treatments and therapeutic approaches for future advancement.
18. Coating silicon catheters with the optimized and stable carotenoid bioproduct from Micrococcus luteus inhibited the biofilm formation by multidrug-resistant Enterococcus faecalis via downregulation of GelE gene expression.
19. Tanshinone in acne therapeutics: Integrating molecular mechanisms, drug development, and multimodal treatment strategies.
20. Development of Rapid and Economic In Vitro Assay and Biorelevant Ex Vivo Biofilm Inhibition Wound Model to Test the Antibacterial Efficacy of Wound Dressings.
21. Nitric Oxide-Releasing Microparticles: A Novel Treatment for Onychomycosis.
22. Planktonic and Sessile Piscirickettsia salmonis Disrupts Morpho-Functional Parameters in Rainbow Trout Intestinal Epithelial RTGutGC Cells.
23. Strategic antagonism: how Lactobacillus plantarum counters Staphylococcus aureus pathogenicity.
24. Impact of Droplet Splashing on Biological and Medical Materials Relevant to Clinical Settings.
25. Biofilm formation and role of other pathogenic factors in the virulence of Staphylococcus epidermidis clinical isolates.
26. Microbubble-Controlled Delivery of Biofilm-Targeting Nanoparticles to Treat MRSA Infection.
27. Protocol to Create Chronic Wounds in Diabetic Mice - an Update to the Published Protocol.
28. Staphylococcus epidermidis-key to understanding biofilms, commensalism, and more.
29. Allelopathic compound 2-methoxy-1,4-naphthoquinone is broadly effective against pathogenic Prototheca species in vitro and in vivo.
30. Berberine Inhibits Acne-Related Lipid Secretion and Inflammation by Regulating the hsa-miR-3150a-3p/TP53 Pathway.
31. Hybrid Spike-Facilitated Capture and Biofilm Destruction Co-Enhances Ultrasound-Mediated Bactericidal Therapy.
32. Antibiofilm from phyllosphere improves survival and gut health of juvenile pearl gentian hybrid grouper challenged with Vibrio harveyi.
33. Antimicrobial and immunomodulatory activity of natural bioactive compounds - an in vitro investigation with potential applications in managing Hidradenitis Suppurativa.
34. Oritavancin a Therapeutic Option for Periprosthetic Joint Infections in Selected Cases: A Comprehensive Review.
35. Smart-AMPs: Decorated Nanostructured Lipid Carriers for Improved Efficacy of Antimicrobial Peptides in Chronically Infected Burn Wounds.
36. Hydrogels Modulating the Microbiome: Therapies for Tissue Regeneration with Infection Control.
37. Discovery of dimethyl quaternary ammonium salt based on harmane against MRSA infections by multi-target mechanism.
38. Unveiling the antimicrobial, biofilm inhibition, and photoprotective potential of Bupleurum falcatum L. for dermatological applications.
39. Biofilm development in three-dimensional models infected with Trichophyton rubrum.
40. Hemodialysis catheter-related bacteremia rate is reduced by the use of 0.1% polyhexanide-betaine in a pediatric unit.
41. Plinia cauliflora Leaf Extract Promotes Wound Healing Through Anti-Inflammatory, Antioxidant, and Antibacterial Actions.

Atopic Dermatitis & SA

1. SAIGE II: The Role of Staphylococcus aureus in Skin Barrier Dysfunction and the Development and Severity of Atopic Dermatitis in Young Children.
2. Staphylococcus pseudintermedius isolated from atopic dogs with pyoderma induces mast cell degranulation.
3. Interference of Malassezia restricta in the invasion of Staphylococcus aureus into human keratinocytes.
4. Elevated Kocuria rhizophila contributing to repair of skin barrier function in patients with atopic dermatitis.

Dermal Fungal

1. Exposure characteristics and health risk differences of airborne viable microorganisms across different climate zones: Insights from eight typical cities in China.
2. Cryptococcoid Sweet Syndrome Following Gastrointestinal Neuroendocrine Tumor Removal: A Case Report.
3. Ethosomes- Novel Drug Delivery System in Herbal Formulations-A Review.
4. Retrospective Study on Antimicrobial Resistance in Bacteria Isolated from Clinical Infections in Dogs at a Brazilian Veterinary Teaching Hospital.
5. TRPV1+ neurons promote cutaneous immunity against Schistosoma mansoni.
6. Modulation of fibroblast behavior by Leishmania: a pathway to understanding disease progression in cutaneous leishmaniasis.
7. Comparative Proteomic Analysis of Endocytic Cell-Surface Proteins in Vascular and Lymphatic Endothelial Cells.
8. Natural long-chain fatty acyl solamines from the leaves of Solanum bulbocastanum Dun. show antiseptic properties.
9. Retrospective Evaluation of Clonality in Canine Erythema Multiforme.
10. Impact of microplastics on the human gut microbiome: a systematic review of microbial composition, diversity, and metabolic disruptions.
11. Dermal fibroblast cultures recapitulate differences between deermice and mice in responses to a Toll-like receptor agonist.
12. Systemic inflammation-induced adipose tissue remodeling drives psoriasis exacerbation in obesity through epigenetic and immunometabolic dysregulation.
13. Pathology, Tissue Distribution, and Phylogenetic Characterization of Largemouth Bass Virus Isolated from a Wild Smallmouth Bass (Micropterus dolomieu).
14. Syringin (Sinapyl Alcohol 4-O-Glucoside) Improves the Wound Healing Capacity of Fibroblasts and Keratinocytes In Vitro.
15. Pheohyphomycosis skin nodule in a young woman.
16. Elucidation and valorization of the potent activity of Commiphora myrrha gum resin extract: antimicrobial and fibroblast wound healing activities.
17. Inflammatory Modulation by Cord Blood Stem Cells Prevented Digit Deformation in Recessive Dystrophic Epidermolysis Bullosa.
18. Enhancement of skin defense against UVB damage by fermentation of Leonurus japonicus with Saccharomyces cerevisiae.

Competitors

1. Bacterial Decolonization With Mupirocin Ointment for Acute Radiation Oral Mucositis Prevention: A Phase 3 Randomized Clinical Trial.
2. Prescription Trends by Orthopedic Surgery Provider: Review of the Medicare Part D Prescribers - by Provider and Drug, 2013-2021.
3. Emergence of ST3390: A novel apigmented MRSA clone from the CC5 Lineage.
4. Dual-functionality of Nocardiopsis alba B57 in biocontrol and plant growth: a metabolomic approach to agricultural sustainability.
5. Bioengineered nanocomposite bacitracin zinc-loaded chitosan microspheres containing keratin/gelatin films for wound healing.

Dressings

1. Multifunctional dynamic cerium-polypeptide hydrogel with antibacterial antioxidative anti-inflammatory for multidrug-resistant bacterial infected wound healing.
2. Engineering an electroactive bacterial cellulose-carbon nanotube composite membrane against Staphylococcus aureus.
3. Vanillin-mediated green synthesis of polyacrylic acid/chitosan dual-network hydrogels with antibacterial properties and enhanced mechanical performance.
4. Biogenic silver nanoparticles from chamomile incorporated in hydrogels for high transparent non-infectiveness contact lenses.
5. Fast Hemostatic, Antimicrobial Multifunctional Gelatin-Based Hydrogel Dressing Loading Bifunctional Cu/ZIF-8 for Accelerated Wound Healing.
6. Tough, Antibacterial, and Antithrombogenic Hydrogel Coatings for Blood-Contacting Silicone Medical Devices.
7. Strontium and Tannic Acid-Modified Eggshell-Derived Nanoparticles Promote Wound Healing in Poly(Lactic Acid)/Gelatin-Based Nanofibrous Dressings.
8. Bioactive herbal supramolecular hydrogels with a hierarchical nanofibrillar structure via metal ion mediated co-assembly.
9. In-situ fabrication of Quercus Infectoria-loaded bacterial cellulose-collagen composite for potential wound dressing materials.
10. Curcumin delivery and release by using a dual cooperative encapsulation system constructed with ZIF-8 MOFs and silk fibroin/polycaprolactone nanofibers for accelerated wound healing.
11. PVA-GO-Lip hydrogel loaded alendronate sodium: friction adaptation, controlled release, antibacterial and mineralization mechanism.
12. Photothermal and antimicrobial properties of catechol-chitosan silver nanoparticles/esterified sodium alginate composite hydrogels.
13. A multifunctional sericin hydrogel system fabricated via one-step acetic acid induction for wound management.
14. A Transparent, Antimicrobial, Bio-Ionic Liquid Functionalized Hydrogel for Corneal Injury Repair.
15. Antimicrobial and Antioxidant Electrospun Membrane Incorporating Silver and Copper Complexes of Phenylboronic Acid-Functionalized 4,5-Diazafluorene Ligand.
16. 1D Nanofiber-2D Nanosheet Assembled 3D Bioinspired Dressings for Treating Exuding Infected Wounds.
17. In-situ loading of ag nanoparticles and sodium cefoperazone onto bacterial cellulose-based composite antimicrobial films for promoting wound healing.
18. Innovative pH-responsive chitosan hydrogel: A systematic study on VB12 controlled release and multifunctional biological effects via synergistic grafting of cysteine and arginine.
19. Oxidised dextran/aminated gelatin injectable hydrogel with peroxidase-like and mild photothermal Fe(3+)-taxifolin nanozymes for repair of pressure ulcer wounds.
20. Multifunctional SGCG/CuO(2) composite hydrogel for integrated wastewater remediation: Copper ions removal, phenolic pollutant degradation, and bacterial inactivation.
21. A sprayable TQ/Ce6@SAB/F-gel for accelerating wound healing via hypoxia-tolerant photodynamic therapy and immune-metabolic pathway.
22. Hyaluronic acid-based composite hydrogels embedded with core-shell microgels with properties of mucosal adhesion and combined drug administration for chemoradiotherapy induced oral mucositis.
23. Rare but Risky: Orthopedic Infections by Unconventional Gram-Positive Cocci - A Case Series.
24. Antimicrobial and prebiotic properties of Weissella confuse B4-2 exopolysaccharide and its effects on matrix metalloproteinase genes expression.
25. Glucose-activated cascade nanozyme hydrogels for synergistic antibacterial therapy via cascade reaction and microenvironment modulation in diabetic wounds.
26. Composite Hydrogel Dressing with Drug-Release Capability and Enhanced Mechanical Performance.
27. Light-stimulated smart thermo-responsive constructs for enhanced wound healing: A streamlined command approach.
28. A multifunctional nanozyme hydrogel film with antibacterial and antioxidant activity for fruit packaging and freshness preservation.
29. Biocompatible methyl cellulose/polyvinyl pyrrolidone biocomposite hydrogels for sustained release of quercetin drug.
30. Electroconductive Antibacterial Bioinks Enable Electrical Stimulation Enhancement of Proliferation and Elongation of Human Skin Fibroblasts.
31. Innovative Biodegradable Antiseptic and Ointment Wipes for Advanced Wound Management.
32. Development and Evaluation of Graphene Oxide-Enhanced Chitosan Sponges as a Potential Antimicrobial Wound Dressing for Infected Wound Management.
33. A multifunctional tragacanth gum-chitosan hydrogel loaded with manganese ferrite nanoparticles for dental caries prevention and remineralization.
34. Multifunctional Gastrodia elata polysaccharide-based triple-network hydrogel promotes Staphylococcus aureus infected diabetes wound.
35. Delivered baicalein immunomodulatory hydrogel with dual properties of pH-responsive and anti-infection orchestrates pro-regenerative response of macrophages for enhanced hypertrophic scars therapy.
36. Preparation of antibacterial and biocompatible dressing by solid phase dispersion matrix and maceration methods based on lawsone extracted from lawsonia inermis.
37. Carboxymethyl chitosan/PVA-based dynamic cross-linked dual network hydrogel loaded with berberine with self-healing, self-adaptive, sustainable release and antibacterial ability for dressing.
38. Fully Triazine-Based Covalent Framework for Antibacterial Phototreatment with High Biosafety.
39. An Injectable Zwitterionic Hydrogels with Multiple Intermolecular Interactions for Effective Prevention of Abdominal Adhesions.
40. Self-oxygenating, autonomous self-healing dual-physical crosslinked PVA/chitosan/hydrolysed collagen hydrogels for advanced wound management.
41. High molecular weight laminarin/AgNPs-impregnated PVA based in situ hydrogels accelerated diabetic wound healing.
42. Design of multi-layer electrospun poly(ε-caprolactone)/chitosan nanofiber scaffolds loaded with tigecycline for controlled drug release and antibacterial wound healing.
43. Synergistic antibacterial, anti-adhesion, and lubricating hydrogel coating with carbon quantum dots for urinary catheters: A multifaceted strategy against catheter-associated infections.
44. Stable, bioactive hydrogel coating on silicone surfaces for non-invasive decontamination via photochemical treatment.
45. Superstretchable and Tough Physical Cross-Linking Hydrogels with Dual pH and Temperature Responsiveness for In Vivo Treatment of Staphylococcus aureus-Infected Wounds.
46. Silver Nanoparticles and Houttuynin Sodium-Based Fibrous Poly(L-lactide-co-glycolide)/Gelatin-Based Dressings for Infectious Wound Healing.
47. Stimuli-responsive, antioxidant, and antimicrobial hydrogels from poly[2-(dimethylamino)ethyl methacrylate] reinforced with cellulose nanocrystals and loaded with limonene oligomer.
48. Nanocomposite hydrogel to integratively inhibit bacteria and inflammation for infected wound repair.
49. Magnetic agar-cellulose hydrogel/g-C₃N₄/ZnAl LDH@Fe₃O₄ nanocomposite for efficient pirimicarb removal and antibacterial water purification.
50. Antibacterial carbon dots integrating multiple mechanisms for selective Gram-positive bacteria elimination and infected wound healing acceleration.
51. Bacterial cellulose doped with ZnO as a multifunctional bioactive platform for curcumin and propolis immobilization: synthesis, characterization, and wound healing potential.
52. Photo-Activated Cu-ZIF-8 Integrated Sprayable Hydrogels for Accelerated Wound Healing.
53. Synthesis of copolymer hydrogels based on maltodextrin and chitosan with antimicrobial properties for their potential use as wound dressings.
54. Effect of Zinc and Magnesium Compounds and Nano-Hydroxyapatite on the Physicochemical Properties and Biological Activity of Alginate and Gelatin Scaffolds for Osteochondral Defects.
55. Hydroxyapatite-reinforced pectin hydrogel films PEC/PVA/APTES/HAp: doxycycline loading for sustained drug release and wound healing applications.
56. Biomimetic design of semi-IPN hydrogels containing supergiant glycosaminoglycanoid sacran for controlled berberine release.
57. Mussel-inspired photothermal antibacterial multi-network hydrogel for cascade-enhanced infected wound healing.
58. Biocompatible quaternized chitosan-based nanocomposite hydrogels with antibacterial and rapid hemostatic properties.
59. Advanced Electrospun Chitosan-(Polylactic Acid)-(Silver Nanoparticle)-Based Scaffolds for Facilitated Healing of Purulent Wounds: A Preclinical Investigation.
60. Electrospun Polyvinyl Alcohol/Sodium Alginate Nanocomposite Dressings Loaded with ZnO and Bioglass: Characterization, Antibacterial Activity, and Cytocompatibility.
61. A Succinoglycan-Riclin-Zinc-Phthalocyanine-Based Composite Hydrogel with Enhanced Photosensitive and Antibacterial Activity Targeting Biofilms.
62. Photoactive Hydrogels as Materials for Biological Applications: Preparation of Thermally Stable Photoactive Films.
63. Amygdalin-Doped Biopolymer Composites as Potential Wound Dressing Films: In Vitro Study on E. coli and S. aureus.
64. Ag/TA@CNC Reinforced Hydrogel Dressing with Enhanced Adhesion and Antibacterial Activity.
65. Proteomic insights into the multi-target mechanism and therapeutic application of citronellol-loaded carboxymethyl chitosan-based hydrogel for wound infection treatment.
66. A near-infrared light absorbable hydrogel with antibacterial effect for mild photothermal regeneration of infected wounds.
67. An integrated Janus antibacterial hydrogel with rapid photoresponsive adhesive/tough anti-adhesive bi-layer for enhanced wound healing and suppression of postoperative tissue adhesion.
68. The Clinic-in-a-Dressing Paradigm: Synchronized Diagnosis and Treatment in Chronic Wounds via Hydrogel-Nanofiber Matrices.
69. Preparation of double network hydrogel wound dressing based on starch/hyaluronic acid through host-guest interaction and Diels-Alder reaction.

Staphylococcal skin infection

1. Lighting Up Healing: Green Light-Driven Dual Gasotransmitters Release against MRSA Wound Infections.
2. Predictors of mortality in Staphylococcus aureus infections: The role of C-reactive protein, neutrophil-to-lymphocyte ratio, and platelet-to-lymphocyte ratio.
3. Staphylococcal scalded skin syndrome: A rare mimicker of Stevens-Johnson syndrome/toxic epidermal necrolysis in adults.
4. Retrospective Analysis of Cases of Probable Canine Cutaneous Toxic Shock Syndrome for Clues to Facilitate an Early Diagnosis.
5. [Efficacy of artificial dermis in repairing small to medium-sized deep partial-thickness scalds in infants and young children].
6. Adynamic ileus as an atypical manifestation of Staphylococcus aureus meningitis confirmed by metagenomic next-generation sequencing: A case report.
7. Correction: Staphylococcal skin infection isolates from dogs without recent antibiotic exposure are 100% susceptible to clindamycin.
8. Immune response and clinical severity are shaped by skin-adapted Staphylococcus aureus in chronically infected patients.
9. Retrospective analysis of antimicrobial susceptibility testing illustrates the problem of resistant Staphylococcus species in cats in the northeastern United States.

Other news of possible interest