**Dermal Literature Review**

**Period: 01/06/2025 – 01/07/2025**

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Scientific Highlights:

Burn wound Infections (infections of or preventing infections)

1. Design and Fabrication of Nanocellulose-Chitosan Composite Hydrogels with Enhanced Mechanical and Antibacterial Properties.
2. Mussel inspired carboxymethyl cellulose/pectin composite hydrogel with photothermal enhanced antibacterial property for burn wound healing.
3. Neomycin loaded by tetrahedral framework nucleic acids enhances antimicrobial sensitivity against bacteria.
4. Use of human and animal amniotic membranes in local antibiotic therapy.
5. Evaluating the Efficacy of 0.5% Sodium Hypochlorite Disinfection for Microbial Control in Korle Bu Teaching Hospital's Burns and Plastics Unit.
6. Green Fabrication of Phosphorus-Containing Chitosan Derivatives via One-Step Protonation for Multifunctional Flame-Retardant, Anti-Dripping, and Antibacterial Coatings on Polyester Fabrics.
7. Therapeutic vancomycin monitoring: a comparative analysis of high-performance liquid chromatography and chemiluminescent microparticle immunoassay methods in liver transplant recipients.
8. Cefadroxil-Mupirocin Integrated Electrospun Nanofiber Films for Burn Wound Therapy.
9. Risk factors for antimicrobial resistance in paediatric burn infections: Insights from a retrospective cohort study.
10. Design and synthesis of hydrogel dressings made with guar gum to enhance antimicrobial and skin wound healing properties.
11. Advances in burn wound management: innovative strategies for healing and infection control.
12. Zinc Alginate Hydrogel-Coated Wound Dressings: Fabrication, Characterization, and Evaluation of Anti-Infective and In Vivo Performance.

Diabetic Foot Ulcers

1. What is the progress in South East Asia & India regarding diabetic foot ulcer disease?
2. Understanding Diabetic Wounds: A Review of Mechanisms, Pathophysiology, and Multimodal Management Strategies.
3. Phytofabricated Farsetia aegyptia-derived silver nanoparticles mediate antibacterial and wound-healing activities in diabetic foot infection rat model.
4. Management of hindfoot and ankle in Charcot arthropathy.
5. Machine Learning Insights Into Amputation Risk: Evaluating Wound Classification Systems in Diabetic Foot Ulcers.
6. Duration of antibiotherapy for patients with diabetic foot osteomyelitis without amputation: a protocol for a systematic review and network meta-analysis.
7. Multidrug-Resistant Staphylococcus aureus in Diabetic Foot Infections (DFI) from Beira, Mozambique: Prevalence and Virulence Profile.
8. The combined impact of chronic kidney disease and ulcer severity on incident cardiovascular events in patients with diabetes-related foot ulceration.
9. Identification of biomarkers and potential drug targets in DFU based on fundamental experiments and multi-omics joint analysis.
10. Comparing Clinical Outcomes after Toe Amputation and Toe-Sparing Surgery in Patients with Diabetic Foot Ulcer.
11. Cost-of-Illness Analysis of Diabetic Foot Ulcer: A Prevalence-Based Approach in Southwest of Iran.
12. An Endogenous Adenosine Triphosphate-Activated Hydrogel Prodrug System for Healing Multidrug-Resistant Bacteria Infected Diabetic Foot Ulcers.
13. Complete genome sequence of Staphylococcus aureus strain MD04 isolated from the foot ulcer of a patient with diabetes in rural southwestern Uganda.
14. Objective grading of peripheral vascular disease strongly predicts morbidity in microsurgical lower limb salvage.
15. Whole genome sequence data of Staphylococcus aureus strain MD03 isolated from foot ulcer of a 56 year old female diabetes patient in a tertiary hospital in South-western Uganda.
16. Recent advances in NIR-II photothermal and photodynamic therapies for drug-resistant wound infections.
17. [Analysis of the efficacy and mechanism of antibiotic-loaded bone cement in the treatment of diabetic foot ulcers in patients with tpye 2 diabetes mellitus].
18. GLP-1 receptor agonists and hospitalization due to infections in patients with type 2 diabetes: A nationwide cohort study.
19. Photocatalysis and Photodynamic Therapy in Diabetic Foot Ulcers (DFUs) Care: A Novel Approach to Infection Control and Tissue Regeneration.
20. Minimally Invasive Drainage for Diabetic Foot Phlegmon.
21. Successful treatment of severe venous leg ulcers (VLUs) and diabetic foot ulcers (DFUs) using ozone.
22. Clinical evaluation of orthoplastic limb salvage protocol using anterolateral femoral free flap and kickstand fixation: A retrospective case-control study.
23. CLOSE-UP - a favourable protocol for limb-sparing surgery of diabetic foot osteomyelitis.
24. Wound Care - Part II: Tissue-engineered skin substitutes & other advanced wound therapies.
25. Multifunctional lignin-gum Arabic nanocomposites: Green nanoarchitectonics via ultrasonic-assisted laccase catalysis for antimicrobial, antioxidant, and antidiabetic therapies.
26. Antimicrobial Photodynamic Therapy in Diabetic Amputation Ulcers: Case Series Evaluating Wound Healing Quality.
27. Assessment of the impact of pH of wound fluid on the associated microbial distribution in the cases of infected diabetic foot ulcer.
28. Differential Frequencies of Osteomyelitis and Amputation Significantly Vary by Toe among Patients with Advanced Diabetic Forefoot Ulcer: A Preliminary Epidemiologic Report.
29. Multiplexing 3D Natural Scaffolds to Optimize the Repair and Regeneration of Chronic Diabetic Wounds.
30. Management and Outcomes of Hallucal Sesamoid Osteomyelitis.
31. A Systematic Review on Tibial Cortex Transverse Transport in the Treatment of Ischemic Ulcers of the Lower Limb.
32. No Routine Control Measurements of C-Reactive Protein in Uneventful Postoperative Evolution After Debridement for Infected (Diabetic) Foot Surgery.
33. The Multi-Dimensional Role of Vitamin D in the Pathophysiology and Treatment of Diabetic Foot Ulcers: From Molecular Mechanisms to Clinical Translation.
34. Chlorhexidine, soap and water are equally effective for prevention of diabetic foot ulcers.
35. Direct Lineage Reprogramming of Fibroblasts into Functional Keratinocyte-Like Cells via BMI1 and FGFR2b for Diabetic Wound Repair.
36. Bone Biopsy Microbiology Does Not Explain Clinical Severity in Diabetic Foot Osteomyelitis.
37. A review of natural polymer based biomaterials for wound care: addressing challenges and future perspectives.
38. Melioidosis Presenting as Chronic Pneumonia With Soft Tissue Abscess in a Diabetic Patient Initially Treated for Tuberculosis: A Case Report From Vietnam.
39. A Natural Latex-Based Smart Dressing for Curcumin Delivery Combined with LED Phototherapy in Diabetic Foot Ulcers: A Pilot Clinical Study.
40. Salivary 1,5-Anhydroglucitol and AGEs Are Associated with Postural Instability in Diabetic Foot Patients.

Venous Leg Ulcers

1. Unveiling the relationship between pain and bacterial load in venous ulcers with implications in targeted treatment.

Dermal Biofilms

1. From adhesion to destruction: minocycline's dual action against Cutibacterium acnes biofilms.
2. Comprehensive biological evaluation of infuzide as a potent antimicrobial, alone and in combination with gentamicin, linezolid, and minocycline targeting MDR Staphylococcus aureus and Enterococcus sp.
3. Bioelectronic Drug-free Control of Opportunistic Pathogens through Selective Excitability.
4. Rhodomyrtone-rich fractions from Rhodomyrtus tomentosa (Aiton) Hassk. leaves: A potent antimicrobial compound for Staphylococcus pseudintermedius.
5. Activity of GS-linked chimeric endolysin CHAPk-SH3bk against methicillin-resistant Staphylococcus aureus biofilms: an in-vitro, ex-vivo and in-vivo study.
6. Bacterial Recolonization of Hospital Sink Biofilms.
7. A Review of the Role of C. Acnes and its Biofilm in Dandruff Pathogenesis.
8. Resisting the resistance: the antimicrobial peptide DGL13K selects for small colony variants of Staphylococcus aureus that show increased resistance to its stereoisomer LGL13K, but not to DGL13K.
9. Indotropane Pseudo-Natural product is a novel class of potent and selective antibacterial agent against methicillin- and vancomycin-resistant S. aureus.
10. The gut-lung axis and microbiome dysbiosis in non-tuberculous mycobacterial infections: immune mechanisms, clinical implications, and therapeutic frontiers.
11. Valence Electron Fluctuation in a High-Entropy Oxide Heterojunction Enables Collaborative Photodynamic and Mild-Thermal Therapy for Cutaneous Biofilm Infections.
12. Magnetic microfiber hyperthermia for synergistic antimicrobial activity against methicillin-resistant Staphylococcus aureus.
13. Effects of Hxc-T2SS on the Phenotypic Features and Virulence of Pseudomonas aeruginosa PAO1.
14. Halogenated Sulfono-γ-AApeptides Modified Cationic AMPs Have Enhanced Stability and Therapeutic Potential against Clinically Important MDR Infections.
15. Unveiling phenolic content, antibacterial, and antibiofilm potential of sacha inchi (Plukenetia volubilis L.) seed shell extracts against Staphylococcus aureus.
16. Lavandula pedunculata subsp. atlantica: A Multifunctional Essential Oil for Potentially Combating Microbial Infections and Inflammatory Processes.
17. Novel non-invasive and reusable nanoparticle-based photothermal patch for antibacterial, antibiofilm, and anticancer activities via the synergistic effects of photothermal-induced photodynamic therapy.
18. Challenges in formulating transdermal systems for treating chronic skin infections.
19. Universal versus targeted chlorhexidine and mupirocin decolonisation and clinical and molecular epidemiology of Staphylococcus epidermidis bloodstream infections in patients in intensive care in Scotland, UK: a controlled time-series and longitudinal genotypic study.
20. Sodium butyrate promoted the skin wound healing in turbot,Scophthalmus maximus L.
21. Spatiotemporal distribution of Mycobacterium ulcerans and other Mycolactone Producing Mycobacteria in Southeastern United States.
22. Salt-Tolerant, Protease-Stable and Non-Resistance Developing Cationic AMPs for Combatting Planktonic MRSA and its Biofilms.
23. The Microbiome in Hidradenitis Suppurativa Tunnels: A Systematic Review.
24. Exploration of pharmacological potentialities of Bauhinia acuminata L. fruits by in vitro and in vivo assays supported by computational analysis.
25. A simple and specific colorimetric biosensor for early detection of Pseudomonas aeruginosa wound infections.
26. Peracetic acid (PAA) exhibits higher antimicrobial efficacy compared to chlorine-based disinfectants against Salmonella Typhimurium on chicken skin and food-contact surfaces.
27. Non-invasive tape sampling of tryptophan and kynurenine in relation to phenylalanine and tyrosine from melanoma and adjacent non-lesional skin: A pilot study.
28. Riboflavin-dissolving microneedles for the elimination of photodynamic bacterial biofilms.
29. An antibiotic-free antimicrobial combination of bacteriocins and a peptidoglycan hydrolase: in vitro and in vivo assessment of its efficacy.
30. Draft genome of Staphylococcus epidermidis clinical isolate OGSA-Sep-145 from an implant-related spinal infection.
31. A Unique Mouse Model for Quantitative Assessment of Biofilm Formation on Surgical Implants in Subcutaneous Abscess.
32. Microrobots for Antibiotic-Resistant Staphylococcus aureus Skin Colony Eradication.
33. Characterization of Biofilm Formation by the Dermatophyte Nannizzia gypsea.
34. Experimental research on fungal inhibition using dissolving microneedles of terbinafine hydrochloride nanoemulsion for beta-1,3-glucanase.
35. The Impact of the Skin Microbiome and Oxidative Stress on the Initiation and Development of Cutaneous Chronic Wounds.
36. Antimicrobial Smart Dressings for Combating Antibiotic Resistance in Wound Care.
37. Tripterhyponoid A from Tripterygium hypoglaucum Inhibiting MRSA by Multiple Mechanisms.

Atopic Dermatitis & SA

1. Plasma Treatment - Results of Skin Microbiome Analysis.
2. Skin microbiota in atopic dermatitis: victim or executioner?
3. Effect of dupilumab for the therapy of atopic dermatitis and the effect on serum TARC, HBD2 and SEA-IgE levels and peripheral blood T helper cell subtypes.
4. Microneedle delivery platform integrated with Staphylococcus epidermidis-derived extracellular vesicles-based nanoantibiotics for efficient bacterial infection atopic dermatitis treatment.
5. The Role of Skin Dysbiosis and Quorum Sensing in Atopic Dermatitis.
6. Skin microbiome analysis of a junctional epidermolysis bullosa patient treated with genetically modified stem cells.
7. From Itchy Skin to Wheezing: Potential biomarkers and targeted drugs for Atopic Dermatitis and Asthma in Children.
8. Cathelicidin expression in the pathogenesis of atopic dermatitis and the therapeutic potential of vitamin D.
9. Skin levels of toxic shock syndrome toxin-1 predict the severity of atopic dermatitis.
10. Unveiling the Antibacterial Activity Against Staphylococcus aureus of Slime Molds: The Role of Symbiotic Bacteria.

Dermal Fungal

1. A tryptophol-containing emulgel ameliorates imiquimod-induced mice psoriasis.
2. IL-18 favors Th2 responses in sporotrichosis caused by Sporothrix globosa, prolonging the course of the disease.
3. Generation of canine induced pluripotent stem cell-derived mesenchymal stem cells: Comparison of differentiation strategies and cell origins.
4. Antimicrobial Evaluation and Fraction-Based Profiling of Basil Essential Oil Against Vaginal Pathogens.
5. Contribution of CARD9 signaling to wound healing in skin promoted by topical administration of heat-killed Enterococcus faecalis strain KH2 and the involvement of Dectin-2.

Competitors

1. Enantioselective effects of chiral antibiotics on antibiotic resistance gene dissemination and risk in activated sludge.
2. Production of probiotic garden cress (Lepidium Sativum) using Bifidobacterium Bifidum and its evaluation of nutritional value, biocontrol and growth rate ability.
3. Efficacy of Mupirocin Nasal Irrigation Versus Saline Nasal Irrigation in Acute Rhinosinusitis: A Randomized Double-Blind Study.
4. Genomic and Phenotypic Characterization of Mupirocin Resistant Staphylococcus aureus Clinical Isolates.
5. Identification of Effective Inhibitors against Epsilon Toxin (ETX) of Clostridium perfringens: Virtual Screening and Molecular Dynamics Simulation.
6. Uncovering the silent public health threat: nasal carriers of linezolid-resistant, vancomycin-intermediate and mupirocin-resistant MRSA among healthcare workers in a tertiary care hospital in Central India.
7. Microbiological Quality and Safety of Fresh Pork Meat with Special Reference to Methicillin-Resistant S. aureus and Other Staphylococci.
8. Phage lysis-mediated reduction of antibiotic-resistant bacteria alleviates micro/nanoplastic-driven antimicrobial resistance dissemination in anaerobic digestion.
9. Corrigendum to "Effective decolonization strategy for mupirocin-resistant Staphylococcus aureus by TPGS-modified mupirocin-silver complex" [Mater. Today Bio 18 (2023) 100534].

Dressings

1. A Tunable Hydrogel Platform Based on Platinum-Containing Polymeric Arsenicals.
2. Lysozyme Fiber-Inspired Versatile Supramolecular Hydrogel Against Drug-Resistant Pathogens and Biofilm Formation.
3. Zein-magnolol complexes assisted hydrogel film: Physical, antioxidant, antimicrobial properties and application on food packaging.
4. Multifunctional bilayer wound dressing based on 3D-printed sodium alginate/gelatin hydrogel and polycaprolactone nanofibers for accelerating diabetic wound healing.
5. Novel composite hydrogels prepared from carboxymethyl chitosan and polysaccharides extracted from Ononis natrix for controlled release of bioactive molecules.
6. Practical Algorithm on Topical Treatment of Flaring Atopic Dermatitis (AD) With or Without Secondary Infection.
7. pH-triggered CS@ZnO(2) nanocomposites: Self-activated ROS generation for efficient bacterial eradication.
8. Gelatin-based hydrogel incorporated with metal-phenolic network-coated mesoporous bioactive glasses for enhanced bone regeneration.
9. Engineering of 3D galactomannan-based hydrogel scaffolds doped with HKUST-1 MOF for enhanced antibacterial and antioxidant activities in wound healing.
10. Nitric oxide releasing ecologically friendly tannic acid based antibacterial hydrogel as flexible electronics.
11. Phloxine B-loaded polymersomes enable eradication of Pseudomonas aeruginosa and Staphylococcus aureus in antimicrobial photodynamic therapy.
12. Therapeutic potential of repaglinide-embedded chitosan hydrogel in promoting wound healing.
13. Mesenchymal Stem Cell-Derived Extracellular Vesicles Embedded in a Self-Adaptive Multifunctional Hydrogel for Rapid Healing of Infected Wounds.
14. The Preparation and Characterization of Electrospun Chitosan-Gelatin Nanofibers Containing Copper-Metal-Organic Frameworks Loaded with Curcumin and Chrysin as Antibacterial Wound Dressings.
15. Novel Antimicrobial-Decorated Polyelectrolytes as Versatile Building Blocks for Multifunctional Hydrogel Nano- and Microparticles.
16. Application of Novel Triazolium-Containing Hydrogels to Cotton Fabrics: Evaluation of Their Flame Retardancy and Antibacterial Properties.
17. Hybrid Pectin/Polydopamine Hydrogels with Photothermal Properties.
18. Synchronous bacterial barrier and exudate absorption: A novel dual-function dressing strategy for pin-site infection prevention.
19. Mupirocin-Piperine Microemulsion Hydrogels Accelerate Healing of Infected Wounds through Deep Penetration and Biofilm Disruption.
20. Extracellular matrix-inspired natural polymer-based composite hydrogel dressings for infected wound healing.
21. pH-responsive xanthan-glycerol hydrogel: An effective wound dressing for controlled amoxicillin delivery.
22. Sulfonium-Based Polymers: Underestimated Moieties for Structural Modification in Versatile Bioapplications.
23. Coaxial Fibrous Dressing Enabling Sequential NO/H(2) Release for Temporally Programmed Antibacterial and Healing-Promoting Functions in Infected Diabetic Wound Treatment.
24. A Multifunctional Double-Network Hydrogel Based on Bullfrog Skin Collagen: High-Value Utilization of Aquaculture By-Products.
25. The Effect of Quercetin Loading in Polylactic Acid-Based Electrospun Fibers on Their Antioxidant, Antibacterial and Antitumor Properties.
26. Are Black Phosphorus Hydrogels Antimicrobial Without Photonic Activation?
27. Synergy of Tetracyclines and Potassium Azeloyl Diglycinate (Azeloglycine) in Hydrogels: Evaluation of Stability, Antimicrobial Activity, and Physicochemical Properties.
28. pH-sensitive magnetic nanocomposite hydrogels chitosan/hyaluronic acid/Fe(3)O(4): Ciprofloxacin release, kinetics and antibacterial activity.
29. Smart pH-Responsive Conductive Polyurethane Fibers: Doping Strategies for Advanced Wound Care.
30. Development of Substrate-Independent Antifouling and Bactericidal Surfaces Using Visible Light Cross-Linked Hydrogel Coatings for Biomedical Applications.
31. Methicillin-resistant Staphylococcus aureus (MRSA) infection of the temple region of the face: Case report.
32. Gelatin modified nonisocyanate polyurethane/siloxane functionalized with quaternary ammonium groups as antibacterial wound dressing membrane.
33. Innovative MRSA-infected wound repair strategy: NIR-triggered controllable NO releasing from plant extracts quercetin composite chitosan/hyaluronic acid hydrogel.
34. Experimental and Computational Study of Injectable Iron(III)/Ultrashort Peptide Hydrogels: A Candidate for Ferroptosis-Induced Treatment of Bacterial Infections.
35. Development of Nanofiber Mats Impregnated With Ferula assa-foetida Essential Oil Nanogel for Antibacterial Wound Care.
36. One step synthesis of Ag nanoparticles incorporated PVA nanocomposite via plasma reduction route.
37. Metal-carbon dual network reinforced bismuth-based chitosan hydrogels for improved photoresponsiveness, antibacterial activity, and wound healing.
38. Single-atom silver-borophene hybrid hydrogels for electrically stimulated wound healing: a multifunctional antibacterial platform.
39. An Antibacterial and Anti-Inflammatory Hemostatic Adhesive with Dual Zn(2+) and NO Release for the Neurovascular Electrostimulation of Infected Diabetic Wounds.
40. Curcumin-loaded PLGA microparticles integrated with ZnO/GelMA hydrogel microneedles for infectious wound healing and reduction of hypertrophic scars.
41. MXene-modified PMMA/chitosan composite e-skin scaffold: Bioelectronic and antibacterial assessment.
42. Design and properties of cyclodextrin grafted chitosan/sodium alginate dual-network hydrogel based on physical cross-linking.
43. Aloe vera-enriched collagen-polyurethane hydrogel: Supporting tissue regeneration, antibacterial action and drug release for effective wound healing.
44. Functional hydroxypropyl methyl cellulose-based thermosensitive hydrogels: Biomineralization, procoagulant and antibacterial properties.
45. Deposition of alginate-oregano nanofibres on cotton gauze for potential antimicrobial applications.
46. Deposition of Ag/TMC Nanoparticles via MAPLE to Enhance the Mechanical and Antimicrobial Properties of Silicone Hydrogel.
47. Superficial incisional surgical site infections experimentally induced by Staphylococcus aureus in mice: the effect of Bdellovibrio bacteriovorus containing dressing.
48. Design and characterization of AgVO(3)-HAP/GO@PCL ceramic-based scaffolds for enhanced wound healing and tissue regeneration.
49. Antifouling Mussel-Inspired Hydrogel with Furanone-Loaded ZIF-8 for Quorum Sensing-Mediated Marine Antifouling.
50. Antibacterial Composites Based on Alginate/Egg White and ZnO Nanoparticles with the Addition of Essential Oils.
51. Nanoemulsion Hydrogel Delivery System of Hypericum perforatum L.: In Silico Design, In Vitro Antimicrobial-Toxicological Profiling, and In Vivo Wound-Healing Evaluation.
52. One-Pot Synthesis of Gelatin/Gum Arabic Hydrogels Embedding Silver Nanoparticles as Antibacterial Materials.
53. A NIR-II Laser-Triggered Nb(2)C-Arg/Gel Composite Multifunctional Hydrogel with Photothermal, ROS Scavenging, and NO Release for Infected Wound Healing.
54. Combination of Slightly Acidic Electrolyzed Water and Hydrogel to Enhance Stability, Increase Antibacterial Efficacy, and Promote Infectious Wound Healing.
55. In vitro assessment of berberine-loaded carboxymethyl chitosan hydrogel: A promising antimicrobial candidate for S. aureus-induced bovine mastitis treatment.
56. A 3R (remove-remodel-repair)-integrated self-assembled Chlorella-gelatin-PEG hydrogel for diabetic wound healing.
57. Combining polyesters of citric and azelaic acids to obtain potential topical application biomaterials with antimicrobial activity.
58. Tellurium-Doped Silanised Bioactive Glass-Chitosan Hydrogels: A Dual Action for Antimicrobial and Osteoconductive Platforms.
59. Development and Optimization of Grape Skin Extract-Loaded Gelatin-Alginate Hydrogels: Assessment of Antioxidant and Antimicrobial Properties.
60. Biotechnological Utilization of Amazonian Fruit: Development of Active Nanocomposites from Bacterial Cellulose and Silver Nanoparticles Based on Astrocaryum aculeatum (Tucumã) Extract.

Staphylococcal skin infection

1. The Deadly Itch: A Rare but Fatal Case of Norwegian Scabies.
2. Evaluation of intramammary infection status in dairy heifers using cisternal and teat end sampling techniques.
3. Loratadine decreases virulence of methicillin-resistant Staphylococcus aureus by widespread disruption of hemolysis in both Stk1-dependent and -independent fashions.
4. Blastic plasmacytoid dendritic cell neoplasm.
5. Prevalence of scabies and bacterial skin infection in French Polynesia: A cross-sectional community survey.
6. BroadAMP-GPT: AI-Driven generation of broad-spectrum antimicrobial peptides for combating multidrug-resistant ESKAPE pathogens.

Other news of possible interest