**Dermal Literature Review**

**Period: 01/09/2024 – 01/10/2024**

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Scientific Highlights:

Burn wound Infections (infections of or preventing infections)

1. Photothermal enhanced antibacterial chitosan-based polydopamine composite hydrogel for hemostasis and burn wound repairing.
2. Does NexoBrid® have antimicrobial properties?
3. The role of male hormones in bacterial infections: enhancing Staphylococcus aureus virulence through testosterone-induced Agr activation.
4. Design, synthesis, analgesic, antibacterial and docking studies of novel 8-piperazinylcaffeine carboxylate ionic liquids.
5. Lysozyme-enhanced cellulose nanofiber, chitosan, and graphene oxide multifunctional nanocomposite for potential burn wound healing applications.
6. Photodynamic hemostatic silk fibroin film with photo-controllable modulation of macrophages for bacteria-infected wound healing.
7. Predictive values of methicillin-resistant Staphylococcus aureus nasal swabs for pneumonia in burn ICU patients.

Diabetic Foot Ulcers

1. Endogenous electric field coupling Mxene sponge for diabetic wound management: haemostatic, antibacterial, and healing.
2. Novel Supramolecular Hydrogel for Infected Diabetic Foot Ulcer Treatment.
3. [Establishment and evaluation of a nomogram model for predicting the risk of sepsis in diabetic foot patients].
4. Exploring the Changes in IL-6 and Related Cytokines in Angiogenesis after Tibial Transverse Transplantation in Diabetic Foot Ulcers.
5. Antibiotic Resistance Profiles of Extended-Spectrum β-Lactamase (ESBL)- and Metallo-β-Lactamase (MBL)-Producing Klebsiella pneumoniae Isolates From Diabetic Foot Ulcers: Implications for Treatment Strategies.
6. Conservative surgery in the management of diabetic foot complications (excluding Charcot). The role of the orthopedic surgeon.
7. Osteomyelitis and Septic Arthritis of the Foot and Ankle: Imaging Update.
8. Development of a Core Outcome Set for Studies Assessing Interventions for Diabetes-Related Foot Ulceration.
9. Walking Bike as an Effective Tool to Reduce Plantar Peak Pressure in Diabetes Mellitus.
10. Joint Preserving Limb Salvage Secondary to Septic Nonunion Following Placement of a Fibular Intramedullary Nail: A Case Report.
11. Three versus six weeks of post-amputation antibiotic therapy in diabetic forefoot osteomyelitis with positive culture for residual infected bone.
12. Characterising the role of enolase in a stable Small Colony Variant of Staphylococcus aureus isolated from a diabetic foot infection patient with osteomyelitis.
13. Photothermal and Antibacterial PDA@Ag/SerMA Microneedles for Promoting Diabetic Wound Repair.
14. Evaluating diagnostic tools, outcome measures and antibiotic approach in diabetic foot osteomyelitis: a scoping review and narrative synthesis.
15. Application of self-assembled antibacterial nanofiber loaded oriented artificial skin in infected diabetic-related wound regeneration.
16. SwinDFU-Net: Deep learning transformer network for infection identification in diabetic foot ulcer.
17. Methicillin-resistant Staphylococcus aureus in diabetic and non-diabetic foot infections.
18. Antibiotic susceptibility and biofilm forming ability of Staphylococcus aureus isolated from Jordanian patients with diabetic foot ulcer.
19. Wound cleansing solutions versus normal saline in the treatment of diabetic foot ulcers - A systematic review.
20. Antibiotic Treatment Practices and Microbial Profile in Diabetic Foot Ulcers: A Retrospective Cohort Study.
21. Role of microRNAs in diabetic foot ulcers: Mechanisms and possible interventions.
22. Percentage area reduction at week 4 as a prognostic indicator of complete healing in patients treated with standard of care: a post hoc analysis.
23. Environmental Influence on Bacterial Lipid Composition: Insights from Pathogenic and Probiotic Strains.
24. Advances in stem cell therapy for diabetic foot.
25. Diagnostic Accuracy of Dermatoscopy Versus Microbiological Culture and Polymerase Chain Reaction in the Diagnosis of Onychomycosis: A Cross-Sectional Study.
26. Global, regional, and national burden of stroke and its risk factors, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021.
27. Application of self-assembled antibacterial nanofiber loaded oriented artificial skin in infected diabetic-related wound regeneration.
28. Lifestyle Medicine Approach to Wound Management.
29. Electrospun nanofibrous membranes meet antibacterial nanomaterials: From preparation strategies to biomedical applications.
30. A 3D radially aligned nanofiber scaffold co-loaded with LL37 mimetic peptide and PDGF-BB for the management of infected chronic wounds.
31. Healthcare workers' perspectives on diabetic foot complications among type 2 diabetes mellitus patients in Fiji.
32. Study on the mechanism of activating SIRT1/Nrf2/p62 pathway to mediate autophagy-dependent ferroptosis to promote healing of diabetic foot ulcers.
33. E-DFu-Net: An efficient deep convolutional neural network models for Diabetic Foot Ulcer classification.
34. Vitabiotic: An alternative approach to diabetic foot.
35. Prevalence and Antibiotic Resistance of Klebsiella pneumoniae in Diabetic Foot Ulcer.
36. Hospitalization and Health Resource Utilization in Emergency Department Cases of Diabetic Foot Infections in the U.S. from 2012 to 2021: A Nationally Representative Analysis.
37. Computer-aided drug design to generate a unique antibiotic family.
38. Microenvironment-responsive, multimodulated herbal polysaccharide hydrogel for diabetic foot ulcer healing.
39. Comparative Outcomes of Targeted versus Non-Targeted Angiosome Revascularization for Diabetic Foot Wounds Impact of Target Arterial Path on Wound Healing.

Venous Leg Ulcers

Dermal Biofilms

1. Zn@TA assisted dual cross-linked 3D printable glycol grafted chitosan hydrogels for robust antibiofilm and wound healing.
2. Investigating genomic diversity of Staphylococcus aureus associated with pediatric atopic dermatitis in South Africa.
3. Design and Evaluation of Microemulsion-Based Drug Delivery Systems for Biofilm-Based Infection in Burns.
4. Clinical presentation and microbiological characteristics of community-acquired Staphylococcus aureus bacteraemia at a tertiary hospital in Costa Rica.
5. Diterpenoids of Caryopteris trichosphaera W. W. Sm. inhibiting MRSA and VRE in vitro and in vivo.
6. A poly-δ-decalactone (PDL) based nanoemulgel for topical delivery of ketoconazole and eugenol against Candida albicans.
7. The prebiotic effects of fructooligosaccharides enhance the growth characteristics of Staphylococcus epidermidis and enhance the inhibition of Staphylococcus aureus biofilm formation.
8. The influence of marine fungal meroterpenoid meroantarctine A toward HaCaT keratinocytes infected with Staphylococcus aureus.
9. Antibacterial and Anti-Inflammatory Activity of Branched Peptides Derived from Natural Host Defense Sequences.
10. Surface modification of medical grade biomaterials by using a low-temperature-processed dual functional Ag-TiO(2) coating for preventing biofilm formation.
11. Pathophysiology and Prevention of Ventriculostomy-Related Infections: A Review.
12. Cord Blood Serum Levels of IL-31 and CCL17, Cutaneous Markers, and Development of Atopic Dermatitis.
13. Microenvironmental host-microbe interactions in chronic inflammatory skin diseases.
14. Nanoscale fluconazole-constructed metal-organic frameworks with smart drug release for eradication of Candida biofilms in vulvovaginitis infection.
15. Synthesis of chitosan/Fe(2)O(3)/CuO-nanocomposite and their role as inhibitor for some biological disorders in vitro with molecular docking interactions studies.
16. Impact of continuous topical oxygen therapy on biofilm gene expression in a porcine tissue model.
17. Dual osmotic controlled release platform for antibiotics to overcome antimicrobial-resistant infections and promote wound healing.
18. Effect of Saponin on Methylene Blue (MB) Photo-Antimicrobial Activity Against Planktonic and Biofilm Form of Bacteria.
19. Presence and mRNA Expression of the sar Family Genes in Clinical and Non-clinical (Healthy Conjunctiva and Healthy Skin) Isolates of Staphylococcus epidermidis.
20. Protracted Course of Staphylococcus lugdunensis Septic Arthritis in Native Knee Joint.
21. PCL-gelatin honey scaffolds promote Staphylococcus aureus agrA expression in biofilms with Pseudomonas aeruginosa.
22. Antibacterial effect and mechanism of theaflavin against Listeria monocytogenes and its application on apple skins.
23. Acinetobacter pittii thrombophlebitis complicating cyanoacrylate closure procedure.
24. The Use of Polyhexanide and Betaine Combined Preparation in Adult Burn Care in Sri Lanka.
25. Comparative in vitro activity of Delafloxacin and other antimicrobials against isolates from patients with acute bacterial skin, skin-structure infection and osteomyelitis.
26. Response of bacterial and fungal communities in natural biofilms to bioavailable heavy metals in a mining-affected river.
27. Ume6-dependent pathways of morphogenesis and biofilm formation in Candida auris.
28. Insights into small-molecule compound CY-158-11 antibacterial activity against Staphylococcus aureus.
29. Functional Study of desKR: a Lineage-Specific Two-Component System Positively Regulating Staphylococcus aureus Biofilm Formation.
30. Dialdehyde cellulose nanofibrils/polyquaternium stabilized ultra-fine silver nanoparticles for synergistic antibacterial therapy.
31. Staphylococcus epidermidis biofilm in inflammatory breast cancer and its treatment strategies.
32. Synergistic effect of essential oils and chlorhexidine against planktonic and biofilm-forming cells of Malassezia pachydermatis.
33. Reactive oxygen species-inducing itraconazole and its anti-biofilm activity against resistant Candida parapsilosis sensu lato biofilm cells isolated from patients with recalcitrant onychomycosis.
34. Thermo-responsive cascade antimicrobial platform for precise biofilm removal and enhanced wound healing.
35. Emerging Trends in Dissolving-Microneedle Technology for Antimicrobial Skin-Infection Therapies.
36. Production and Antibacterial Activity of Atypical Siderophore from Pseudomonas sp. QCS59 Recovered from Harpachene schimperi.
37. Formulation and optimization of surfactant-modified chitosan nanoparticles loaded with cefdinir for novel topical drug delivery: Elevating wound healing efficacy with enhanced antibacterial properties.
38. Curcumin-loaded gold nanoparticles with enhanced antibacterial efficacy and wound healing properties in diabetic rats.
39. Preventing bacterial adhesion to skin by altering their physicochemical cell surface properties specifically.
40. Treatment effects of two pharmaceutical skin care creams for xerotic feet among persons with diabetes: Rationale and design of a two-armed double blind randomized controlled trial.

Atopic Dermatitis & SA

1. Isolation of the novel phage SAP71 and its potential use against Staphylococcus aureus in an atopic dermatitis mouse model.
2. Transcriptional Profiling of Staphylococcus aureus during the Transition from Asymptomatic Nasal Colonization to Skin Colonization/Infection in Patients with Atopic Dermatitis.
3. Effect of Staphylococcus aureus colonization and immune defects on the pathogenesis of atopic dermatitis.
4. Global Antimicrobial Susceptibility Patterns of Staphylococcus aureus in Atopic Dermatitis: A Systematic Review and Meta-Analysis.
5. Antibacterial and Antiallergic Effects of Three Tea Extracts on Histamine-Induced Dermatitis.
6. CERS1 is a Biomarker of Staphylococcus aureus Abundance and Atopic Dermatitis Severity.

Dermal Fungal

1. NLRP1-dependent activation of Gasdermin D in neutrophils controls cutaneous leishmaniasis.
2. A review of artificial sebum formulations, their compositions, uses and physicochemical characteristics.
3. Successful Treatment of Cryptococcus gattii in an Immunocompetent Adult Rhesus Macaque (Macaca mulatta).
4. Staphylococcus aureus exacerbates dermal IL-33/ILC2 axis activation through evoking RIPK3/MLKL-mediated necroptosis of dry skin.
5. Design, Synthesis, and Anticancer and Antibacterial Activities of Quinoline-5-Sulfonamides.
6. A Spironolactone-Based Prototype of an Innovative Biomedical Patch for Wound Dressing Applications.
7. Fiber/hydrogel hybrid wound dressing based on eggshell membrane containing postbiotic ingredients.
8. Probing Dermal Immunity to Mycobacteria through a Controlled Human Infection Model.
9. Mycophenolate mofetil directly modulates myeloid viability and pro-fibrotic activation of human macrophages.
10. Exploring 2-mercapto-N-arylacetamide analogs as promising anti-melanogenic agents: in vitro and in vivo evaluation.
11. Antibacterial and therapeutic potential of historic deposits of Silesian healing clay - terra sigillata Silesiaca.
12. Microneedle-based arrays - breakthrough strategy for the treatment of bacterial and fungal skin infections.
13. Evaluation of Biotechnological Active Peptides Secreted by Saccharomyces cerevisiae with Potential Skin Benefits.
14. Discovery of two new actinobacteria, Micromonospora palythoicola sp. nov. and Streptomyces poriticola sp. nov., isolated from marine invertebrates.
15. Wound Healing and Acute Dermal Toxicity Studies of Ludwigia octovalvis (Jacq.) P. H. Raven (Onagraceae) in Sprague-Dawley Rats.

Competitors

1. Mycobacterium abscessus Cutaneous Infection in the Immunosuppressed: A Case Report on an Atypical Pathogen.
2. Fabrication of Mupirocin-Loaded PEGylated Chitosan Nanoparticulate Films for Enhanced Wound Healing.
3. Prevalence of methicillin-resistant Staphylococcus aureus (MRSA) harboring mupirocin and biocide resistance genes in a large healthcare system.
4. Mupirocin for Skin Infection: Clinical Experience from China.
5. Herpes zoster ophthalmicus following recombinant zoster vaccine: A case report and brief literature review.
6. Surgical management for the case of scrotal myiasis in a 7-day-old neonate: a case report.
7. Comparison of the Efficacy of Povidone-Iodine with Mupirocin in Decolo-nizing Staphylococcus aureus from the Nasal Cavity of Healthcare Work-ers: A Single-Blinded Randomized Controlled Trial.
8. Mupirocin Ointment Effect on Polyposis Recurrence After Sinus Surgery.
9. Microbiological Quality and Antibiotic Resistance of Relevant Bacteria from Horsemeat.

Dressings

1. Antibacterial efficacy of antimicrobial peptide-functionalized hydrogel particles combined with vancomycin and oxacillin antibiotics.
2. Tough polyacrylic acid hydrogels with stable swelling and active functionalities enabled by quaternized cellulose nanofibrils and iron ions for absorbent pad interlayers.
3. The Effect of Immobilization Methods of P9-4 Antimicrobial Peptide Onto Gelatin Methacrylate on Multidrug-Resistant Bacteria: A Comparative Study.
4. Synergistic nanocoating with layer-by-layer functionalized PCL membranes enhanced by manuka honey and essential oils for advanced wound healing.
5. Development of a cationic bacterial cellulose film loaded with anionic liposomes for prolonged release of oxacillin in wound dressing applications.
6. Sandwich-Structured Nanofiber Dressings Containing MgB(2) and Metformin Hydrochloride With ROS Scavenging and Antibacterial Properties for Wound Healing in Diabetic Infections.
7. Engineering Ag-Decorated Graphene Oxide Nano-Photothermal Platforms with Enhanced Antibacterial Properties for Promoting Infectious Wound Healing.
8. A modified hyaluronic acid hydrogel with strong bacterial capture and killing capabilities for drug-resistant bacteria-infected diabetic wound healing.
9. Alginate-based injectable probiotic/squid ink composite hydrogels for accelerated wound healing of MRSA infected abscess through photothermally synergized probiotic therapy.
10. Ferrous sulfate remodels the properties of sodium alginate-based hydrogel and facilitates the healing of wound infection caused by MRSA.
11. Dihydromyricetin-loaded oxidized polysaccharide/L-arginine chitosan adhesive hydrogel promotes bone regeneration by regulating PI3K/AKT signaling pathway and MAPK signaling pathway.
12. Copper doped carbon dots modified bacterial cellulose with enhanced antibacterial and immune regulatory functions for accelerating wound healing.
13. Ionically-crosslinked carboxymethyl chitosan scaffolds by additive manufacturing for antimicrobial wound dressing applications.
14. Formulation and evaluation of n-acetyl cysteine loaded bi-polymeric physically crosslinked hydrogel with antibacterial and antioxidant activity for diabetic wound dressing.
15. Biosynthesis of positively charged bacterial cellulose hydrogel with antibacterial and anti-inflammatory function for efficient wound healing.
16. Novel chitosan-based hydrogels as promising wound dressing materials with advanced properties.
17. Exploring the potential of nanoparticles-based polydopamine for effective treatment of refractory keratitis: Mild photothermal loop therapy.
18. Phytotherapeutic Hierarchical PCL-Based Scaffolds as a Multifunctional Wound Dressing: Combining 3D Printing and Electrospinning.
19. Prevalence and risk factors associated with nasal carriage of methicillin-resistant staphylococci in horses and their caregivers.
20. Insights into the fabrication and antibacterial effect of fibrinogen hydrolysate-carrageenan loading apigenin and quercetin composite hydrogels.
21. An Integrated All-Natural Conductive Supramolecular Hydrogel Wearable Biosensor with Enhanced Biocompatibility and Antibacterial Properties.
22. Effect of Tetrapropylammonium Chloride Quaternary Ammonium Salt on Characterization, Cytotoxicity, and Antibacterial Properties of PLA/PEG Electrospun Mat.
23. Hydrogel microspheres encapsulating lysozyme/MXene for photothermally enhanced antibacterial activity and infected wound healing.
24. Chitin-Assisted Synthesis of CuS Composite Sponge for Bacterial Capture and Near-Infrared-Promoted Healing of Infected Diabetic Wounds.
25. On-Demand Removable Chitosan Based Self-Healing and Antibacterial Hydrogel for Delivery of Tetracycline and Curcumin As Potential Wound Dressing Material.
26. Chitosan-based hydrogel incorporated with polydopamine and protoporphyrin for photothermal-oxidation sterilization of bacteria-infected wound therapy.
27. Critical Chest Wall Necrotizing Fasciitis Triggered by Herpes Zoster: A Case Report.
28. Amoxicillin-laded sodium alginate/cellulose nanocrystals/polyvinyl alcohol composite nanonetwork sponges with enhanced wound healing and antibacterial performance.
29. Injectable mineralized Sr-hydroxyapatite nanoparticles-loaded ɛ-polylysine-hyaluronic acid composite hydrogels for bone regeneration.
30. Bacterial-responsive biodegradable silver nanoclusters composite hydrogel for infected wound therapy.
31. Engineered Bacteriophage-Polymer Nanoassemblies for Treatment of Wound Biofilm Infections.
32. Enhanced exploration of the mode of action of a five-layer foam dressing: critical properties to support wound healing.
33. An immunotherapeutic hydrogel booster inhibits tumor recurrence and promotes wound healing for postoperative management of melanoma.
34. C-di-GMP@ZIF-8 nanocomposite injectable hydrogel based on modified chitosan and hyaluronic acid for infected wound healing by activating STING signaling.
35. Janus Structure Construction of Polyester-Cotton Fabrics for Achieving Excellent Moisture, Moisture-Permeability, and Antibacterial Capability.
36. 3D-printed porous titanium rods equipped with vancomycin-loaded hydrogels and polycaprolactone membranes for intelligent antibacterial drug release.
37. Phloretin@cyclodextrin/natural silk protein/polycaprolactone nanofiber wound dressing with antioxidant and antibacterial activities promotes diabetic wound healing.
38. A photo-modulated nitric oxide delivering hydrogel for the accelerated healing of biofilm infected chronic wounds.
39. Multifunctional Nanofiber Membranes Constructed by Microfluidic Blow-Spinning to Inhibit Scar Formation at Early Intervention Stage.
40. Near-Infrared Carbon Dots With Antibacterial and Osteogenic Activities for Sonodynamic Therapy of Infected Bone Defects.
41. Vanillin loaded-physically crosslinked PVA/chitosan/itaconic membranes for topical wound healing applications.
42. Enhanced antibacterial activity of starch-alginate beads by a synergistic effect between Cu(2+) and Zn(2+) ions with a potential wound dressing application.
43. MOF@platelet-rich plasma antimicrobial GelMA dressing: structural characterization, bio-compatibility, and effect on wound healing efficacy.
44. Antimicrobial hydrogel foam dressing with controlled release of gallium maltolate for infection control in chronic wounds.
45. Lignosulfonate-doped polyaniline-reinforced poly(vinyl alcohol) hydrogels as highly sensitive, antimicrobial, and UV-resistant multifunctional sensors.
46. Optimized Incorporation of Silver Nanoparticles onto Cotton Fabric Using k-Carrageenan Coatings for Enhanced Antimicrobial Properties.
47. A three-dimensional printable conductive composite dressing for accelerating wound healing under electrical stimulation.
48. Synthesis and Characterization of a Novel Chitosan-Based Nanoparticle-Hydrogel Composite System Promising for Skin Wound Drug Delivery.
49. In Vitro Wound-Healing Potential of Phenolic and Polysaccharide Extracts of Aloe vera Gel.
50. Antibacterial Properties of Grape Seed Extract-Enriched Cellulose Hydrogels for Potential Dental Application: In Vitro Assay, Cytocompatibility, and Biocompatibility.
51. Antimicrobial Hydroxyethyl-Cellulose-Based Composite Films with Zinc Oxide and Mesoporous Silica Loaded with Cinnamon Essential Oil.
52. Exploring the Antibacterial and Regenerative Properties of a Two-Stage Alginate Wound Dressing in a Rat Model of Purulent Wounds.
53. Three in One with Dual-Functional Hydrogel of Lactoferrin/NZ2114/LMSH Promoting Staphylococcus aureus-Infected Wound Healing.
54. A multifunctional hydrogel dressing loaded with antibiotics for healing of infected wound.
55. Electrospun Carvacrol-Loaded Polyacrylonitrile/Poly(ethylene oxide) Nanofibrous Films as Wound Dressings.
56. A chitosan-α-naphthaldehyde hydrogel film containing pineapple leaf fibers for wound dressing applications.
57. Optimization of chitosan-gelatin-based 3D-printed scaffolds for tissue engineering and drug delivery applications.
58. Vanillic Acid-based Pro-coagulant Hemostatic Shape Memory Polymer Foams with Antimicrobial Properties against Drug-resistant Bacteria.
59. Dual action electrochemical bandage operated by a programmable multimodal wearable potentiostat.
60. Precise Clearance of Intracellular MRSA via Internally and Externally Mediated Bioorthogonal Activation of Micro/Nano Hydrogel Microspheres.

Staphylococcal skin infection

1. Microbial mysteries: Staphylococcus aureus and the enigma of carcinogenesis.
2. Unraveling the unphosphorylated STAT3-unphosphorylated NF-κB pathway in loss of function STAT3 Hyper IgE syndrome.
3. Assessment of pharmacokinetics-pharmacodynamics to support omadacycline dosing regimens for the treatment of patients with acute bacterial skin and skin structure infections.
4. Hydrogel-Based Dressings and Multidisciplinary Care in Severe Pediatric Burns: A Case Report of Successful Healing and Hypertrophic Scar Prevention.
5. A nanoscale visual exploration of the pathogenic effects of bacterial extracellular vesicles on host cells.
6. Genomic approach to determine sources of neonatal Staphylococcus aureus infection from carriage in the Gambia.
7. Primary Cutaneous Herpes Simplex Virus Infection of the Cheek.
8. YjbH contributes to Staphylococcus aureus skin pathology and immune response through Agr-mediated α-toxin regulation.
9. Green synthesis of polyethylene glycol coated, ciprofloxacin loaded CuO nanoparticles and its antibacterial activity against Staphylococcus aureus.
10. Tissue resident cells differentiate S. aureus from S. epidermidis via IL-1β following barrier disruption in healthy human skin.
11. Crystal structure of exfoliative toxin D from Staphylococcus aureus.
12. The developing pig respiratory microbiome harbors strains antagonistic to common respiratory pathogens.
13. Identification of a genetic region linked to tolerance to MRSA infection using Collaborative Cross mice.
14. Comparison of bloodstream infections due to Corynebacterium striatum, MRSA, and MRSE.
15. TRPA1 Influences Staphylococcus aureus Skin Infection in Mice and Associates with HIF-1a and MAPK Pathway Modulation.
16. A case of exudative pleuritis caused by Staphylococcus warneri.

Other news of possible interest