**Dermal Literature Review**

**Period: 01/09/2025 – 01/10/2025**

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Scientific Highlights:

Burn wound Infections (infections of or preventing infections)

1. Staphylococcus-Induced Glomerulonephritis Following Burn Injury: A Case Report.
2. Epidemiology, Risk Factors, and External Validation of Predictive Models for Multidrug-Resistant Bacterial Infections in Diabetic Foot Ulcers.
3. Orthopnea as a trigger for a diagnostic cascade of multiple infectious diseases.
4. Silver Nanoparticle-Infused Aloe Polysaccharides/ Polyvinyl Alcohol/Sodium Alginate Nanofiber Sheet for Enhanced Burn Wound Healing.
5. Bacterial cellulose hydrogel incorporating epigallocatechin-3-gallate for improved treatment of third-degree burns.
6. Citric acid-modified chitosan hydrogel loaded with shikonin promotes skin wound healing.
7. Myristoylated Cathelicidin-DM Fused With ANG1-7: A Novel Self-Assembling Antimicrobial Peptide for the Treatment and Mechanism of Diabetic Infected Wounds.
8. Light-Driven Double-Layer Polydopamine-Coated Flexible Metal-Organic Frameworks: Balancing Antibacterial and Regenerative Functions.
9. Nanozyme-Engineered Probiotic Microneedle Patch for Chronic Diabetic Wound Therapy.
10. Biohybrid Living Material with Antibacterial and Regenerating Properties Based on Probiotic Bacteria Stress Metabolism Modulation.
11. Development of antibacterial coatings for endotracheal tubes with enhanced antibacterial release properties through combined antibiotic loading.
12. Green Synthesis of ZnO and Mg-doped ZnO Nanoparticles Using Ferulago angulata Plant Extract and Its Effect on Second-Degree Burn Wound Healing.
13. Photobiomodulation with LED does not alter antibiotic sensitivity in ATCC and burn-patient bacteria.
14. Rutin/ZnO/mesoporous Silica-based Nano-hydrogel accelerated topical wound healing in albino mice via potential synergistic bioactive response.
15. Laponite(®)-Based Smart Hydrogels for Sustained Topical Delivery of Silver Sulfadiazine: A Strategy for the Treatment of Contaminated or Biofilm-Forming Wounds.
16. Fabrication and In Vitro Evaluation of LL37-Loaded Electrospun PHB/Collagen Nanofibers for Wound Healing.

Diabetic Foot Ulcers

1. A Randomized Controlled Trial on the Therapeutic Effect of Aloe Vera Extract on Diabetic Foot Ulcers.
2. Clinical Evaluation of Diabetic Foot Ulcers Using the SINBAD (Site, Ischemia, Neuropathy, Bacterial Infection, Area, and Depth) Scoring System: A Prospective Study.
3. Dual-Layer Flexible Liquid Metal Fiber for Plantar Pressure Monitoring and Synchronous Wound Electrotherapy.
4. Stem cell therapy: a promising frontier in modern medicine with a comprehensive overview of their biology and potential therapeutic applications in chronic non-healing cutaneous injuries.
5. Exploring resveratrol-enriched collagen dressings for diabetic foot ulcers: A retrospective study of wound healing outcomes.
6. Incidence and causes of major amputation in patients with diabetic foot ulcers: data from a retrospective study.
7. Comparative Effectiveness of Continuous Versus Intermittent Negative Pressure Wound Therapy in the Management of Diabetic Foot Ulcers: A Prospective Observational Study.
8. Transmetatarsal amputation versus multiple toes amputations for non-ischemic diabetic foot infection management.
9. Assessment and management of chronic venous, arterial, and diabetic wounds in older adults.
10. Comparative Study on Metrogyl Dressing Versus Povidone Iodine Dressing Among Patients Presenting With Diabetic Foot Ulcers in Tertiary Care Hospitals.
11. Mitochondrial dysfunction in diabetic ulcers: pathophysiological mechanisms and targeted therapeutic strategies.
12. Current research progress on the use of traditional Chinese medicine in the treatment of diabetic foot ulcers.
13. Sequential treatment for diabetic foot ulcers in aortic dissection patients: a case report.
14. A Retrospective Cohort Study From 2 Academic Medical Centers: Oral vs Intravenous Antibiotics for Diabetic Osteomyelitis.
15. Ultrasound-Stimulated BMSCs Promote Regenerative Healing in Refractory Foot Ulcer by Paracrine Effect.
16. Case Report: A case series of using ultrasound-guided continuous parasacral ischial plane blocks to promote ulcer healing and pain relief in people with diabetic foot ulcers.
17. A Prospective Observational Study on the Clinical Outcomes of Diabetic Foot Ulcers Based on Diabetic Ulcer Severity Score at a Tertiary Care Center in Jharkhand, India.
18. The trial design of the concurrent optical and magnetic stimulation (COMS) therapy study for refractory diabetic foot ulcers (MAVERICKS): a multicenter, randomized, sham-controlled, double-blind investigational device exemption clinical study.
19. Role of Biomarkers in Diabetic Foot Osteomyelitis.
20. Progressive Hydrogel Applications in Diabetic Foot Ulcer Management: Phase-Dependent Healing Strategies.
21. A snail glycosaminoglycan-derived patch inspired by extracellular matrix accelerates diabetic wound healing via promoting re-epithelization.
22. Fabrication and characterization of agar-based hydrogel incorporating gelatin-coated silver nanoparticles with mupirocin for diabetic wound therapy.
23. Multicenter epidemiological distribution, pathogens, and drug-resistance characteristics of chronic osteomyelitis in Central China.
24. Altered expression of miR-132, miR-155, VEGF, and IGF-1 as key indicators in the pathogenesis of diabetic foot infection.
25. Machine learning enables construction of a nomogram based on risk factors for adverse emotions in patients with diabetic foot infection.
26. Intraoperative blood perfusion factors in free anterolateral thigh flap repair for diabetic foot ulcers: A retrospective analysis.
27. The role of Cerament® (Antibiotic impregnated bone void filler) in lower limb salvage for diabetic foot patients with osteomyelitis, a scoping review.
28. [Diabetic ulcers : a multidisciplinary approach in primary care].
29. Complete genome sequence of a methicillin-resistant Staphylococcus aureus strain 63-2498, isolated from a diabetic foot infection.
30. Use of Oral Antibiotics for Diabetic Foot Osteomyelitis: A Systematic Review.
31. Ischaemic Charcot Midfoot Reconstruction Combined with Lateral Tibial Cortex Transverse Transport: Case Report.
32. Advancing injectable hydrogels for wound treatment: targeted control of oxidative stress toward personalized regeneration.
33. Revolutionizing diabetic foot ulcer treatment: phage therapy as a next-generation antimicrobial approach- a review on breaking the cycle of resistance.
34. The safety and efficacy of neutral electrolyzed water solution for wound irrigation: post-market clinical follow-up study.
35. Barriers Affecting Diabetic Foot Care in Primary Healthcare Settings in Al-Ahsa, Saudi Arabia.
36. From Ulcer to Amputation: A Systematic Review of Prognostic Models for Diabetic Foot Ulcer Amputation.
37. Risk factors and clinical outcomes of multidrug-resistant and biofilm-producing infections in diabetic foot ulcers: a two-year cohort study.
38. Hydrogels incorporating active compounds from traditional Chinese medicine for diabetic wound healing: mechanistic pathways and bioengineering progress.
39. Hyperspectral reconstruction for mobile diabetic foot blood perfusion monitoring.
40. Layer-by-layer electrospun PCL/PVA mats loaded with nisin Z for enhanced diabetic foot ulcer treatment.
41. The Association of Wagner Classification, Microbial Resistance, Immune Markers, and Glycemic Control With Diabetic Foot Ulcer Severity: A Multi-disciplinary Approach to Predict Severity and Outcome.
42. Radical surgical treatment of calcaneal osteomyelitis: clinical characteristics and treatment efficacy based on a synthesis analysis of 364 reported cases.
43. In Silico Development of a Chimeric Multi-Epitope Vaccine Targeting Helcococcus kunzii: Coupling Subtractive Proteomics and Reverse Vaccinology for Vaccine Target Discovery.
44. Platelet-Rich Plasma for Wound Healing in Diabetic Patients.
45. Predictors of Major Amputation and Mortality in Infected Diabetic Foot Ulcers: A Retrospective Nationwide Inpatient Sample Study.
46. Heel Diabetic Foot Osteomyelitis: A Current Challenge in the Clinical Practice.
47. Identification of Skin Multicellular Reprogramming Factors as Potential Treatment for Nonhealing Diabetic Foot Ulcers.
48. Establishing guidelines-based multidisciplinary diabetic limb salvage programme: A 100-day review of clinical characteristics and outcomes.
49. Diode Laser and Red-Laser Photodynamic Therapy Versus Ciclopirox 8% HPCH Nail Lacquer for the Treatment of Onychomycosis: A Randomised Controlled Trial.
50. Effects of topical ozonated olive oil on lipid profile, quality of life, wound healing and glycemic control in patients with diabetic foot ulcers: a randomized controlled trial.

Venous Leg Ulcers

1. Ultrasound-Guided Percutaneous Electrocoagulation of Pathological Perforating Veins in the Treatment of Advanced Chronic Venous Insufficiency of the Lower Extremities: A Retrospective Cohort Study.

Dermal Biofilms

1. Bionanoformulated creams of silver (AgNPs), gold (AuNPs) and bimetallic silver-gold composites (Ag-AuNCPs) for tissue regeneration of MDR Pseudomonas aeruginosa-infected excision wounds in Wistar Rats.
2. Quorum quenching: A key biological activity of marine actinobacteria extracts for acne vulgaris control.
3. Phytofabrication of Ag/AgCl silver nanoparticles from the extract of Phoenix dactylifera L. Medjool date seeds: synthesis, characterization and antimicrobial properties.
4. Efficacy and Safety of Upadacitinib in Patients With Moderate-to-Severe Atopic Dermatitis: Phase 3 Randomized Clinical Trial Results Through 140 Weeks.
5. Comprehensive biological evaluation of Rheinal as a potent antimicrobial, alone and in combination with gentamicin and minocycline targeting MDR S. aureus in vitro and in vivo.
6. Organoid-Based Skin and Lung Biofilm Models, a Cutting-Edge Approach for Anti-Biofilm Research: A Mini Review.
7. A strategy to re-sensitise drug-resistant Gram-positive bacteria to oxazolidinone-class antibiotics.
8. Hypochlorous Acid for a Persistent Filler Nodule: A Case Report.
9. Basil (Ocimum basilicum): A Natural Approach to Skin Care and Its Cosmeceutical Potential.
10. Comprehensive assessment of triclosan-induced toxicity: impacts on zebrafish development, mammalian cell viability and microbial activity.
11. Discovery of novel xanthotoxin-pyridine quaternary ammonium derivatives with membrane-targeting mode of action as potential antimicrobials against methicillin-resistant Staphylococcus aureus.
12. Photodynamic inactivation using water dispersible curcumin as a photosensitizer to inactivate Salmonella on poultry carcasses and Listeria monocytogenes on stainless steel food contact surfaces.
13. Trp-containing Peptides with Therapeutic Potential for Cutibacterium acnes Infection.
14. Esculetin Mitigates MRSA Pathogenicity via Innovative Multitarget Inhibition of Staphylococcus aureus Sortase A, Coagulase, and Von Willebrand Factor-binding Protein.
15. In vitro characterization of Trichophyton rubrum biofilm by combined anti-biofilm enzymes.
16. Molecular analyses of community-acquired Staphylococcus epidermidis biofilm development, molecular virulence, and pattern of antibiotic resistance.
17. Characterisation of Antifungal Resistance to Azoles in Colombian Isolates of Malassezia spp.
18. Functional antibacterial strategies of natural polysaccharides chitosan, hyaluronic acid, and alginate and their applications in tissue engineering: A review.
19. Deploying Soft Drugs in the Fight against MRSA with Detailed Biological Evaluation of 4-(n-Alkoxy)-phenoxy Betaine Amphiphiles Active against MDR Staphylococcus aureus and Enterococcus sp.
20. Antibacterial, Photoprotective, Anti-Inflammatory, and Selected Anticancer Properties of Honokiol Extracted from Plants of the Genus Magnolia and Used in the Treatment of Dermatological Problems-A Review.
21. Dual functional chitosan-coated spanlastics for topical delivery of ceftazidime in the treatment of bacterial burn wound infections.
22. NIR-Responsive Nanoplatform Based on CuO(2) with Self-Supplied H(2)O(2)/O(2) for Synergistic Photodynamic-Chemodynamic-Photothermal Therapy of Skin Abscesses.
23. Biocompatible Guanidine-Functionalized Compounds with Biofilm and Membrane Disruptive Activity Against MRSA.
24. Hsp90 as a pathophysiological factor and emerging therapeutic target in atopic dermatitis.
25. Targeted Cascade Therapy with Multifunctional Nanovesicles Engineered from Synergistic Antibacterial Agents for Precision Treatment of Multidrug-Resistant Infections and Biofilms.
26. All Drug Glassy Microneedle Patches for Instantaneous Transdermal Delivery.
27. Olefinic side chain modification of fusidic acid enhances anti-MRSA activity and mitigates resistance development.
28. Biomedical application of cold plasma: navigating through plasma types and devices by antimicrobial effectiveness and tissue tolerance.
29. Structure-Activity Relationship in ε-Lysine Peptides: The Length Effects on Antifungal Activity.
30. Development and optimization of a multifunctional cellulose-based hydrogel for enhanced crosslinking and tunability.
31. Bacterial skin colonization with a specific Cutibacterium avidum clade as a risk factor for periprosthetic joint infections-a multicenter study.
32. Inhibition of Pseudomonas aeruginosa Biofilms Using Robust Silk Fibroin-Poly(ethyleneimine) Microparticles.
33. The Role of Probiotics in Healing Burns and Skin Wounds; An Integrative Approach in the Context of Regenerative Medicine.
34. Orange Peel-Mediated Green Synthesis of ZnO and CuO Nanoparticles: Evaluation for Antimicrobial Activity and Biocompatibility in Tissue Engineering.
35. Chitosan application in cosmetics and dermatology - antimicrobial and prebiotic potential to control human microbiome.

Atopic Dermatitis & SA

1. Staphylococcical scalded skin syndrome: a case series description of a rare and critical disease in a tertiary pediatric center.
2. Ultrastrong Staphylococcus aureus adhesion to human skin: Calcium as a key regulator of noncovalent interactions.
3. The Atopic Dermatitis Continuum: An Updated Paradigm for a Common Disorder and a Novel Multipurpose Treatment Option.
4. Kaempferol suppresses TLR-2 and TLR-4 coactivation by attenuation of LPS/LTA-induced inflammation and cellular stress.
5. Effects of a gel containing the defined microalgae extract Spiralin® on the skin microbiome and clinical activity in atopic dermatitis - a double-blind, intraindividual vehicle-controlled proof-of-concept study.
6. S. aureus exposure during cutaneous antigen sensitization causes basophil- and interleukin-4-dependent exaggerated food anaphylaxis.
7. The Role of Skin Microbiota in Facial Dermatoses and Related Factors: A Narrative Review.

Dermal Fungal

1. Leprosy in blood donors.
2. In Vivo Wound-Healing and Molecular Docking Studies Support the Traditional Use of Arisarum vulgare Aqueous Extract.
3. Tertiary Lymphoid Organs at the Center Stage of Skin's Humoral Immunity.
4. Comprehensive review of avobenzone (butyl methoxydibenzoylmethane) toxicology data and human exposure assessment for personal care products.
5. Genomic analysis and preclinical evaluation of two hydrogel-formulated novel virulent phages isolated against a carbapenem-resistant Acinetobacter baumannii.
6. A case report of Saksenaea vasiformis mucormycosis infection of a lower segment caesarean section wound.
7. Ebola virus' hidden target: virus transmission to and infection of skin.
8. Anti-Inflammatory and Antimicrobial Effect of Ellagic Acid and Punicalagin in Dermal Fibroblasts.
9. Comprehensive review of ensulizole toxicology data and human exposure assessment for personal care products.
10. Toxicological Safety, Antimicrobial Efficacy, and Sensory Evaluation of River Sand-Derived Mica From Bangladesh: A Comprehensive Assessment for Cosmetic Applications.
11. Prognosis and Follow-Up Recommendations for Subcutaneous and Dermal Leiomyosarcoma: Local Recurrence, Metastasis, and Overall Survival in a Danish Nationwide Cohort of 661 Patients.
12. Anti-aging potential of Monascus purpureus pigments in skin care.
13. Direct genome sequencing of Leishmania tropica in tissues of Moroccan patients with cutaneous leishmaniasis reveals micro-focal transmission underlain by (pseudo-)clonal and sexual reproduction modes.
14. Active electroceutical treatment of Pseudomonas aeruginosa infected murine wounds.
15. Semaphorin7A-expressing mast cell exosomes promote wound healing.
16. Anti-Arthritis and Biosafety Properties of Green Synthesized Zinc Oxide Nanoparticles Loaded with Cedrus libani Extract.
17. Multiple Dermal Nodules and Progressive Neurological Symptoms in an Immunocompetent Patient.
18. Field-oriented assessment of bovine tuberculosis in Tunisian cattle: IDR, PCR(Mpb70) and serological test prediction based on AI approaches.
19. Discovery of an Adaptive Neuroimmune Response Driving Itch and Fast Tick Removal with Implications for Preventing Pathogen Transmission.

Competitors

1. Active screening and decolonization reduce the incidence of Staphylococcus aureus bacteremia and mortality in hemodialysis patients: An interrupted time series study in a hemodialysis unit.
2. Decolonisation and approaches to this for preventing surgical site infection.
3. Taming the Rash: A Dermatological Case Report on Effective Treatments for Refractory Folliculitis.

Dressings

1. 3D printed antibacterial and anti-inflammatory scaffold containing vanillin-loaded Soluplus nanomicelles for healing of infected wounds.
2. Polypyrrole-Modified Triple-Responsive Hydrogel Dressing Based on Bacterial Cellulose and Quaternary Ammonium Chitosan and Its Synergistic Antibacterial Mechanism.
3. A multifunctional electrospun nanofiber/hydrogel-based pro-healing bilayer dressing as a next generation biomaterial for skin wound care.
4. Nanofibrous dressings incorporating a synergistic antibacterial-anti-inflammatory effect for infected wound healing.
5. Thermoreversible hydrogel containing photoactivatable tricarbonyl Mn(I) terpyridine complexes for therapeutic carbon monoxide (CO) release.
6. Betel leaf-mediated zinc oxide nanoparticle-coated silk fibres: a sustainable approach for biomedical applications.
7. Afebrile vancomycin-induced delayed hypersensitivity suggestive of incomplete drug rash with eosinophilia and systemic symptoms syndrome: a case report.
8. Visible-Light-Driven TiO(2)/Pt Nanozyme-Embedded Dressings: Integrating PDT, Oxygenation, and Biomechanical Support for Pressure Ulcer Repair.
9. Upscaling, toxicity and efficacy of multifaceted dressing embedded with dsirna-loaded gold nanoparticles for enhancing diabetic wound treatment.
10. Multifunctional antimicrobial wound dressing with photothermal promotion based on Bletilla striata polysaccharides and other natural materials.
11. Chitosan-Based Photothermal Hydrogel with Rapid Bacterial Capture for Enhanced Disinfection.
12. Quaternary ammonium chitosan/N-isopropylacrylamide-based Janus hydrogel with asymmetric adhesive, shrinkable, and antimicrobial properties for wound healing.
13. Chitosan/dialdehyde starch coating onto l-tyrosine and curcumin intercalated layered double hydroxide for improved the therapeutic effects of breast cancer.
14. Mussel-inspired adhesive macromolecule modified zinc oxide nanoparticles incorporated into polyethylene glycol hydrogels for enhancing infected wound healing.
15. Self-pumping Janus nanofiber membrane with pH monitoring capability, integrated with a drug-loaded fast-dissolving layer for enhanced chronic wound healing.
16. Multifunctional Scaffold Biosensor and Drug Delivery System for Bacterial Infection Prevention During Skin Wound Healing.
17. An Antibacterial and Electroactive Chitosan-Based Dressing with Dual Stimulus-Responsive Drug Delivery for Wound Healing.
18. Dynamic male mouse gut microbiota signature linked to improved wound healing of a novel salecan hydrogel dressing.
19. A collagen/silk fibroin/magnesium hydroxide multifunctional sponge with enhanced mechanical strength, rapid hemostasis, and antibacterial properties for promoting infectious wound healing.
20. Development of collagen-based hydrogel derived from allicin-silver nanoparticles for wound healing.
21. Proto-SLIPS: Slippery Liquid-Infused Surfaces that Release Highly Water-Soluble Agents.
22. Injectable and tissue adhesive chrysomycin A-laden chitosan hydrogel depot for MRSA-infected wound healing and tumor recurrence prevention.
23. Balanced biocompatibility in high-viscosity hydroxypropyl methylcellulose-based sponge containing nanoconfined silver citrate nanoparticles.
24. Porous SiO(2)/ZnO-carboxymethyl cellulose composite hydrogels for enhanced hemostatic efficacy and antibacterial activity.
25. Harnessing the synergy of copper nanoparticles and vitamin C towards the resolution of wound infection.
26. Heterogeneous zinc/catechol-derived resin microsphere-functionalized composite hydrogels with antibacterial and anti-inflammatory activities promote bacterial-infected wound healing.
27. Antimicrobial Core-Shell Nanofiber Wound Dressing with Chloramphenicol-Liposomes.
28. Wound Dressing Cryogel Materials Based on Poly(vinyl alcohol), Hyaluronic Acid, and Ag(2)O Nanoparticles.
29. Study on the structural characterization and biological activities of polysaccharides from Dictyophora rubrovolvata and its silver nanoparticles.
30. Preparation and Characterization of Copper-Crosslinked Alginate-Hyaluronic Acid Aerogels as Potential Wound Dressing Materials with Enhanced Antibacterial Properties.
31. Modified Castor Oil-Based Polyurethane Films with Streptomyces Extracts Presenting Anti-Methicillin-Resistant Staphylococcus aureus Activity.
32. Bioengineered Chitosan-Collagen-Honey Sponges: Physicochemical, Antibacterial, and In Vitro Healing Properties for Enhanced Wound Healing and Infection Control.
33. Antibacterial hydrogel filters via in situ growth of Ag-doped ZIF-8 on cellulose nanofibers: A novel strategy for biofouling control in water treatment.
34. Development and evaluation of a dual-network crosslinked hydrogel comprising gelatin methacryloyl and zinc alginate for enhanced skin wound healing applications.
35. Exploring the Activities of Alginate-Carrageenan@AgNPs Hydrogels Supported by Molecular Docking Studies for Potential Antimicrobial and Antioxidant Agents.
36. Quaternary Ammonium Chitosan Hydrogel Platform with Zinc-Enhanced Bioactivity toward Scar-Free Wound Healing.
37. In Situ Homogeneous Generation of Copper Nanoparticles in Collagen-Cellulose Freeze-Dried Foams Using Natural Reduction Agents to Enhance Their Stability, Antibacterial Properties, and Cytocompatibility.
38. A multifunctional living hydrogel for the synergistic management of infected diabetic wounds.
39. Highly elastic and breathable PTFE/hydrogel hierarchically compounded dressings for multi-functional protection and rapid wound healing.
40. Multifunctional Nanofiber-Based Smart Dressing System with pH-Response, Angiogenesis, and Anti-inflammation Properties for Enhancing Diabetic Wound Healing.
41. Formulation, characterization, anti-bacterial, anti-inflammatory, anti-cancer, and cytotoxicity assessment of collagen/gelatin-based hydrogels as controlled drug release agents.
42. Self-Oxygenating Nano-Thermosensitive Hydrogel System Integrated with Photothermal/Photodynamic Therapy for Antibacterial Therapy and Enhanced Wound Healing.
43. AIE-driven photothermal nanotrigger-activated multifunctional injectable hydrogel for maxillofacial infection control.
44. H(2)O(2)-Producing Electrochemical Bandages Are Active Using Off-the-Shelf Hydrogels.
45. Ultrasmall Self-Cascade Bimetallic Au(2)Pd(3) Nanozymes Encapsulated Hydrogel Microneedles for Photothermal-Augmented Nanocatalytic Therapy of Diabetic Wound Infections.
46. Constructing High-Efficiency Polyoxometalate-Based Antibacterial Hydrogels for Wearable Sensors.
47. A supramolecular semiconducting nickel(ii)-metallohydrogel with dual antimicrobial and micro-electronic device applications.
48. Thymol-loaded methacrylated gelatin-based electrospun nanofibrous dressing for MRSA-infected wound treatment.
49. Biodegradable chitosan lactate/polyvinyl alcohol composite sponge for rapid hemostasis and antibacterial protection.
50. Activity of HOCl-generating e-bandage with clinically available hydrogels against Staphylococcus aureus and Acinetobacter baumannii biofilms.
51. Development of a 'green' wound healing hydrogel rich in apigenin-7-O-glucoside using an ultrasonication-assisted solvent extract of tomatoes.
52. Biomedical Frontiers with PVA-chitosan/lignin@CdZnO multifunctional hydrogel.
53. A nanocomposite xanthan gum/puerarin supramolecular hydrogel with immunoregulatory, antibacterial, and antioxidant properties for wound healing.
54. Non-conductive surfaces electro-fabrication of transparent high-performance layered chitosan-silver-montmorillonite composite hydrogels for infected wound dressing.
55. Copper-Manganese Bimetallic Oxide-Encapsulated Hydrogels with Multienzyme Activities Accelerate MRSA-Infected Wound Healing by Disrupting Bacterial Protein Expression.
56. Tuning antibiotic release from gelatin-cellulose nanocrystal hydrogel films.
57. Multi-functional poly(N-isopropylacrylamide)-based hydrogel with hemostasis, antibacterial, and sustained drug release properties for infected wound treatment.
58. Fabrication of polyvinyl alcohol-polyethylene glycol-copper oxide nanocomposite hydrogel as a novel wound dressing.
59. Comparative Effects of ZnO, MgO, and CaO Nanoparticles in 3D-Printed Chitosan-Agarose Scaffolds on Antibacterial and Osteogenic Outcomes.
60. Cu-Fe(3)O(4) Nanoclusters-Loaded HAMA Hydrogel Patches for Multifunctional Synergistic Wound Healing.
61. Antimicrobial hydrogel loaded with broccoli exosomes promotes anti-scarring healing of MRSA-infected wounds.
62. Nanostructured Polyurethane-Collagen Hydrogels: Bioactive Crosslinked Networks for Enhanced Wound Healing.
63. A multifunctional sodium alginate oxide-based hydrogel with antibacterial and anti-inflammation properties for smart monitoring and accelerated diabetic wound healing.
64. Tetrahydroxy Diboron-Initiated Injectable Hydrogel with Integrated Rapid Gelation, Fatigue Resistance, Bioadhesion, Antibacterial Activity, ROS Scavenging, and Osteoinduction for Periodontitis Treatment.
65. A Novel, Reverse-Phase-Shifting, Thermoreversible Foaming Hydrogel Containing Antibiotics for the Treatment of Traumatic Tissue Injuries in a Swine Model.
66. Fabrication and in-vitro and in-vivo evaluation of polyacrylonitrile and polyethylene oxide nanofibers loaded with resveratrol and silver nanoparticles for skin wound healing application.
67. Gelatin-sodium alginate hydrogel infused with Onosma dichroanthum Boiss. root extract: Preparation, characterization, and application in wound dressing.
68. Antitumor and antibiofilm effect of a hydrogel loaded with octenidine hydrochloride (OCTH) for topical treatment of cancer.
69. Green synthesis of antimicrobial alginate/hydroxyethyl cellulose hydrogels crosslinked by Ca(2+) and dual Ca(2+)/Mg(2).
70. A new efficient skin dressing based on sodium alginate - graphene oxide bionanocomposite hydrogel to expedite wound healing process.
71. Cinnamon-Mediated Silver Nanoparticles and Beta-Carotene Nanocarriers in Alginate Dressings for Wound Healing Applications.
72. Hydroxyproline-Modified Chitosan-Based Hydrogel Dressing Incorporated with Epigallocatechin-3-Gallate Promotes Wound Healing Through Immunomodulation.
73. Application of Gels in the Conservation of Chinese Ancient Calligraphy and Paintings.
74. Dynamic Metal-Phenolic Coordinated Hydrogel for Synergistic Photothermal/Chemodynamic Therapy against Biofilm-Infected Wounds and Real-Time Monitoring.
75. Production, characterization, and antimicrobial activity of polyhydroxyalkanoates synthesized by Bacillus species against skin pathogens.
76. Sprayable Hybrid Gel with Cannabidiol, Hyaluronic Acid, and Colloidal Silver: A Multifunctional Approach for Skin Lesion Therapy.
77. Novel Electrospun PVA-PVP-PAAm/TiO(2) Nanofibers with Enhanced Optoelectrical, Antioxidant and Antibacterial Performances.
78. In Vitro Assessment of Electrospun PVP+AgNPs Scaffolds for Bioactive Medical Use.
79. Verification and validation of the horseradish peroxidase (HRP)-mediated enzymatic cross-linking in collagen/PEG hydrogels for wound dressing applications.
80. Theranostic Polyaniline-Integrated N-Acetyl-l-Cysteine Hydrogel for Synergistic Photothermal Antibacterial Therapy and Enhanced Cell Migration.

Staphylococcal skin infection

1. Primary varicella infection with secondary staphylococcal scalded skin syndrome.
2. Adult staphylococcal scalded skin syndrome in an immunocompetent individual.
3. Control of invasive Pseudomonas burn wound infection with mafenide acetate electrospun wound dressing.
4. Pristinamycin-antibiotic combinations against methicillin-resistant Staphylococcus aureus recovered from skin infections.
5. Occurrence and Antimicrobial Resistance Profiles of Staphylococcus spp. Strains Isolated From Healthy Stray Dogs.
6. A Huge Thoracic Aortic Aneurysm as a Rare Complication of Hyperimmunoglobulin E Syndrome.
7. Bacteriophage and Fusidic Acid Have Synergistic Effect Against Meticillin-Resistant Staphylococcus pseudintermedius in Ex Vivo Canine Dermis Model.
8. Genetic variability of Staphylococcus Pseudintermedius in animals from Mato Grosso, Brazil: methicillin-resistant clonal complexes and discovery of new sequence types.
9. Preventing Nephrotoxicity of Vancomycin and Attenuating Deep Tissue Infections by Methicillin-Resistant Staphylococcus aureus via Needle-Free Drug Delivery by the Droplette Micromist Technology Device.
10. Phenotypic and Genotypic Characterization of Staphylococcus aureus Isolated from Patients with Chronic Furunculosis and Osteomyelitis from Northwestern Poland.
11. Blistering Hot Topic: A Rare Case of Staphylococcal Scalded Skin Syndrome.
12. Multiple highly resistant clones of MRSA circulating among patients with skin and soft tissue infection, Peshawar, Pakistan 2021-2022.

Other news of possible interest