**Dermal Literature Review**

**Period: 01/05/2025 – 01/06/2025**

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Scientific Highlights:

Burn wound Infections (infections of or preventing infections)

1. Genomic and phenotypic adaptations of methicillin resistant Staphylococcus aureus during vancomycin therapy.
2. Green biosynthesis of titanium dioxide nanoparticles incorporated gellan gum hydrogel for biomedical application as wound dressing.
3. Insulin/PHMB-grafted sodium alginate hydrogels improve infected wound healing by antibacterial-prompted macrophage inflammatory regulation.
4. Construction of aerogels based on N-halamine and chitosan as wound dressing materials with excellent bactericidal and on-demand dissoluble properties.
5. mecA and PVL genes in methicillin-resistant Staphylococcus aureus from clinical specimens: a cross-sectional hospital based study from Nepal.
6. Folliculitis Decalvans: An Uncommon Case Report with Review of Literature.
7. Case report: Cervical suppurative lymphadenitis caused by burkholderia multivorans in a healthy child.
8. Dual anti-inflammatory and antimicrobial effects of stingless bee propolis on second-degree burns.
9. Imino-quaternized chitosan/chitosan nanofibers loaded with norfloxacin as potential bandages for wound healing.
10. Curcumin-loaded platelets with hydroxypropyl chitin hydrogel composite system through photo-activation for effective hemostasis management and wound healing.
11. Cannabidiol-loaded hydrogel contact lenses for on-demand pH regulation and enhanced corneal alkali burn repair.
12. Contribution of icaADBC genes in biofilm production ability of Staphylococcus aureus clinical isolates collected from hospitalized patients at a burn center in North of Iran.
13. Ex-situ development and molecular analysis of tamarind-enriched bacterial cellulose-based composite for treating burn wounds.
14. 3D Printed Human Amnion-Based Bioactive Hybrid Dressings for Effective Management of Complex Infected Wounds.
15. Ultra-efficient and fire-safety glucose-based cellulose fabrics with high antibacterial and well wearing performance.
16. Antibacterial and therapeutic effects of vancomycin-resistant Staphylococcus aureus bacteriocin (VRSAcin) in the treatment of VRSA skin infection in mice.
17. In situ injectable self-healing hydrogel of 5-fluorocytidine-modified chitosan with antifungal and antibacterial properties for promoting wound healing.
18. [Treatment strategy for severe radiation-induced ulcers near major blood vessels].
19. Molecular Identification of erm A and erm B, erm C genes in methicillin-resistant Staphylococcus aureus isolates from burns Patients and their association with multidrug resistance.
20. A rapid and efficient microenvironment improving hyaluronic acid microneedle dressing for burn wound synergistic treatment.

Diabetic Foot Ulcers

1. Whole genome sequencing based prediction of antimicrobial resistance evolution among the predominant bacterial pathogens of diabetic foot ulcer.
2. Outcome of diabetic foot ulcers at a Tertiary Care Foot Centre in Pakistan.
3. Diabetic foot in the context of rheumatic diseases: pathogenesis and treatment approaches.
4. Extracellular matrix repair and organization of chronic infected diabetic wounds treated with MACF hydrogels.
5. An enhanced harmonic densely connected hybrid transformer network architecture for chronic wound segmentation utilising multi-colour space tensor merging.
6. The dialysis foot- the impact of presenting estimated glomerular filtration rate on clinical outcomes in patients hospitalized with diabetic foot infections.
7. Cold Atmospheric Pressure Plasma in the Treatment of Diabetic Foot Ulcers: A Systematic Review.
8. Soft tissue and intraosseous pneumatosis secondary to diabetic foot ulcer: a severe case of emphysematous osteomyelitis.
9. The infected diabetic foot: Bacteraemia and endocarditis complicating moderate and severe foot infections.
10. Transcutaneous Application of Gaseous CO(2) Improves Diabetic Distal Symmetrical Polyneuropathy in Patients with and Without Chronic Wounds.
11. Development of a bioactive hyaluronic acid hydrogel functionalised with antimicrobial peptides for the treatment of chronic wounds.
12. Creating a Practical Tool for Predicting Major Amputation Rate in Patients With Diabetic Hindfoot Ulcers: Focus on Ischemia and Infection.
13. Ultrasound-Triggered Nanocomposite "Lever" Hydrogels with a Full Repair System Accelerates Diabetic Foot Ulcer Repair.
14. Programmable hierarchical hydrogel dressing for sequential release of growth factor and DNase to accelerate diabetic wound healing.
15. Comparison of Thermal Imaging and Magnetic Resonance Imaging in Evaluating the Extension of Diabetic Foot Infections: A Report of Two Cases.
16. Higher Serum Levels of Lipoprotein-Associated Phospholipase A2 are Associated with Diabetic Foot Osteomyelitis.
17. Comparison and evaluation of negative pressure wound therapy versus standard wound care in the treatment of diabetic foot ulcers.
18. [Effectiveness of three-dimensional-printed microporous titanium prostheses combined with flap implantation in treatment of large segmental infectious bone defects in limbs].
19. Outcomes of open or closed treatment of foot fractures: a database study comparing patients with and without diabetes.
20. Phage therapy: a promising approach for Staphylococcus aureus diabetic foot infections.
21. Alginate-based hydrogels for sustained antimicrobial peptide delivery to enhance wound healing in diabetes.
22. Nonlinear association between C-reactive protein and severity of diabetic foot infection in patients with diabetes: A retrospective cohort study with clinical implications.
23. Nanobiotic Formulations utilizing Quinoline-based-Triazole functionalized Carbon Quantum Dots via Click Chemistry for Combatting Clinical-Resistant Bacterial Pathogens.
24. Comparative Assessment of Negative Pressure Wound Therapy Versus Standard Treatment in Diabetic Foot Ulcers: A Systematic Review and Meta-Analysis.
25. Dysfunctional crosstalk between macrophages and fibroblasts under LPS-infected and hyperglycemic environment in diabetic wounds.
26. The frequency of neuropathy and predictive parameters in prediabetic cases from Turkiye.
27. A Scoping Review to Identify Clinical Signs, Symptoms and Biomarkers Reported in the Literature to Be Indicative of Biofilm in Chronic Wounds.
28. Outcome of Rotation Flap Combined with Incisional Negative Pressure Wound Therapy for Plantar Diabetic Foot Ulcers.
29. Outcomes of Diabetic Toe Amputation With Versus Without Metatarsal Head Resection for Single Ray Wet Gangrene: A Preliminary Study.
30. Metal-polyphenol nanocomposite hybrid hydrogel: A multifunctional platform for treating diabetic foot ulcers through metabolic microenvironment reprogramming.
31. Multistate Model of Chronic Wounds, Amputations, and Mortality: Cohort Study of a State-wide Registry.
32. Factors associated with severity and outcomes of diabetic foot ulcers: A single center hospital-based cross-sectional observational study in Eastern India.
33. Advanced Bioinspired Silver Nanoparticles Integrated into Polyherbal Gel for Enhanced Diabetic Foot Ulcer Regeneration.
34. The diabetic foot: progress in Sub-Saharan Africa.
35. Omega-3 Acellular Fish Skin Grafts for Chronic and Complicated Wounds: A Systematic Review of Efficacy and Safety.
36. Multidrug resistance, biofilm formation, and genetic determinants in diabetic foot infections from Uttar Pradesh, India: a clinical-microbiological insight from a prospective study.
37. Naringenin as a Potent Natural Biofilm Inhibitor of Pseudomonas aeruginosa in Diabetic Foot Ulcers Through lasR Competitive Inhibition.
38. Strain-specific interspecies interactions between co-isolated pairs of Staphylococcus aureus and Helcococcus kunzii from chronic wounds.
39. Bacteriological Profile and Antibiotic Susceptibility in Patients With Diabetic Foot Infections.
40. Safety and Efficacy of S53P4 Bioactive Glass in Osteomyelitis Management: A Systematic Review and Meta-Analysis.
41. The effect of the administration form of antibiotic therapy on the gut microbiome in patients with infected diabetic foot ulcers - DFIATIM trial.
42. Emerging Concepts for the Treatment of Biofilm-Associated Bone and Joint Infections with IV Fosfomycin: A Literature Review.
43. A Comprehensive Literature Review on the Therapeutic Potential of Platelet-Rich Plasma for Diabetic Foot Management: Insights from a Case of a Neglected Deep Plantar Abscess.
44. In Vivo Antimicrobial Activity of Nisin Z Against S. aureus and Polyurea Pharmadendrimer PURE(G4)OEI(48) Against P. aeruginosa from Diabetic Foot Infections.
45. Naturally Derived Biomaterial-Based Microneedles With Microenvironment-Response Potential for Diabetic Wound Healing.
46. The Manchester Charcot Ankle Neuroarthropathy (M-CAN) Classification: A Radiographic-Based System for Assessing Charcot Ankle Neuroarthropathy.
47. miRNA203 detection via single-strand DNA hybridization and signal amplification by copper-doped cerium oxide nanoparticles.
48. Early Tendon Transfer in Diabetic Hand Infection.
49. Antimicrobial Peptide Buforin-I Facilitates the Healing of Foot Wounds in Diabetic Mice.

Venous Leg Ulcers

1. Identification of genetic determinants of antibiotic resistance in Helicobacter pylori isolates in Vietnam by high-throughput sequencing.
2. Chronic leg ulcers in a patient with filarial lymphedema, varicose veins and hepatitis C virus infection: Healing with local wound management and supportive care.

Dermal Biofilms

1. Targeting Microbial Biofilms and Promoting Wound Healing in MRSA-Infected Diabetic Rats using Postbiotics of Lactiplantibacillus plantarum.
2. Temporin-GHa derived peptide shows inhibitory efficacy against Cutibacterium acnes and alleviates inflammatory reactions in acne vulgaris.
3. The role of mycosporine-like amino acids in skin care formulations: a patent review (2014-2024).
4. Phenotypic and Genotypic Bacterial Virulence and Resistance Profiles in Hidradenitis Suppurativa.
5. Unique dermal bacterial signature differentiates atopic dermatitis skin from healthy.
6. Nanotechnology-driven nanoemulsion gel for enhanced transdermal delivery of Sophora alopecuroides L. empyreumatic oil: formulation optimization, and anti-biofilm efficacy.
7. Photocatalytic effect of gold-zinc oxide composite nanostructures for the selective and controlled killing of antibiotic-resistant bacteria and the removal of resistant bacterial biofilms from the body.
8. Opening New Roads for Multi-Directional Functional Applications Through In Vitro Chemical and Biological Analysis of Zoegea leptaurea L. Extracts.
9. Coagulase-Negative Staphylococci Determined as Blood Culture Contamination Have High Virulence Characteristic Including Transfer of Antibiotic Resistance Determinants to Staphylococcus aureus and Escherichia coli.
10. Assessing the safety of microbiome perturbations.
11. The antimicrobial peptide Cec4 has therapeutic potential against clinical carbapenem-resistant Klebsiella pneumoniae.
12. The antibacterial activity and therapeutic potential of the amphibian-derived peptide TB\_KKG6K.
13. Genome-scale metabolic model of Staphylococcus epidermidis ATCC 12228 matches in vitro conditions.
14. Nanoparticles make the difference: bacteriocidic, biocompatibility and wound healing merits of laser-transferred metal nanoparticles.
15. One-for-All Photoactivatable Manganese-Based Carbon Monoxide-Releasing Molecules (CORMs) for Synergistic Therapy of Mycobacterial Infection.
16. Identification and molecular characteristics of Staphylococcus aureus isolated from horses in Lichuan, China.
17. Co-delivery of Azithromycin and nisin through liposomes for skin infection to reduce antimicrobial drug resistance.
18. Comparative Evaluation of Compressive Strength, Shear Bond Strength, and Fluoride Release of Grape Seed Extract and Resveratrol Incorporated in Conventional Restorative Glass Ionomer Cement: An In Vitro Study.
19. Antibacterial activity of propylene glycol against Staphylococcus aureus and Staphylococcus epidermidis in neutral and mild acidic conditions.
20. Breaking Biofilm Barriers: Using CATH-ICG-Loaded Bilayer Dissolving Microneedle-Assisted Photodynamic Therapy for Deep Skin Candidiasis.
21. Bilayer hydrogel microneedles with mild photothermal effect promote infectious skin regeneration.
22. Topical Molecular Iodine: An Optimal Biocide Constrained by Inadequate Formulations.
23. Inhibitory Efficacy of Arthrospira platensis Extracts on Skin Pathogenic Bacteria and Skin Cancer Cells.
24. Accurate Diagnosis of Pseudomonas aeruginosa Is Critical to Mitigating Development of Antibiotic Resistance.
25. Pulsed Blue Light and Phage Therapy: A Novel Synergistic Bactericide.
26. Staphylococcus aureus: A Review of the Pathogenesis and Virulence Mechanisms.
27. A novel clotrimazole selenium nano-composite for combating deep dermal Candida albicans infections and virulence genes.
28. Fractional microporation-guided delivery of nanoencapsulated drugs for enhanced cutaneous and follicular absorption: a comparison of ablative laser and radiofrequency microneedling.
29. Carboxymethyl Chitosan Delaminated Ti(3)C(2) MXenes as a Potential Therapeutic Nano Platform to Combat Chronic Wounds.
30. Hybrid nano-scaffolds loaded with resveratrol and Omega-3 fatty Acids: An innovative antimicrobial strategy against biofilm.
31. Veratraldehyde Inhibits Motility Phenotypes and Targets Biofilm Formation of Pseudomonas aeruginosa: Insights From Computational and Experimental Studies.
32. Phototriggered Biofilm Nanodisruptor with Genetic Modulation for Treating Drug-Resistant Bacterial Infections.

Atopic Dermatitis & SA

1. A Rare Case of Sinus of Valsalva Aneurysm Rupture Resulting From Infective Endocarditis and Requiring Surgery.
2. Conjunctivitis in Adults with Atopic Dermatitis Treated with Dupilumab: An Observational Study of Clinical Characteristics, Symptomatology, and Treatment.
3. Skin Staphylococcus aureus detection and relationship to atopic dermatitis outcomes using culture and metagenomic sequencing.
4. Electrospun Nanofiber-Scaffold-Loaded Levocetirizine Dihydrochloride Cerosomes for Combined Management of Atopic Dermatitis and Methicillin-Resistant Staphylococcus Aureus (MRSA) Skin Infection: In Vitro and In Vivo Studies.
5. Skin and systemic infections in children with atopic dermatitis: review of the current evidence.
6. Infectious complications of atopic dermatitis, an update.

Dermal Fungal

1. Advancements in understanding and treating psoriasis: a comprehensive review of pathophysiology, diagnosis, and therapeutic approaches.
2. Selenium in Action: Exploring the Biological Wonders of Hydroselenite Salts.
3. Optimizing α-Gal Epitope Removal in Porcine Dermal Matrix: Enzyme Selection and Tissue Form Matter.
4. Oxyresveratrol enhances hair regeneration in human dermal papilla cell and androgenetic alopecia mouse model.
5. Transcriptomic analysis of DENV-2-infected human dermal fibroblasts identified potential mechanisms that suppressed ZIKV replication during sequential coinfection.
6. Skin-Colored Papules on the Neck of a Postmenopausal Woman: A Diagnostic Challenge.
7. Assessment of nutritional status among post-kala-azar dermal leishmaniasis patients in endemic areas of northern West Bengal, India.
8. Ergothioneine regulates the paracrine of dermal papilla cells through SIRT1/Nrf2 pathway to antagonize oxidative stress and natural hair follicle aging.

Competitors

1. Phenotypic and genotypic characterization of MRSA isolated from Health care workers in tertiary care hospital.
2. The Efficacy of Mupirocin Nasal Irrigations for Treatment of Refractory Chronic Rhinosinusitis After Endoscopic Sinus Surgery.
3. Therapeutic Efficacy of 2% Mupirocin in Managing Staphylococcus aureus and Streptococcus pyogenes Wound Infections.
4. Recurrent Anterior Epistaxis in Children With Allergic Rhinitis and Non-Allergic Rhinitis: Clinical Features.
5. Thienoacene-Based Conjugated Oligoelectrolytes for Membrane-Targeting Antimicrobial Approaches: Synergistic Biofilm Eradication and Antimicrobial Resistance Reversal.
6. Lack of Spontaneous and Adaptive Resistance Development in Staphylococcus aureus Against the Antimicrobial Peptide LTX-109.

Dressings

1. 3D printed bioengineered scaffold containing chitosan, alginate, and Barijeh-loaded niosomes enabled efficient antibiofilm activity and wound healing.
2. Enhancement of kudzu starch hydrogels with rutin and ferulic acid: An approach to improve cold storage stability, mechanical properties, in vitro digestibility, functional properties and consumer acceptance.
3. Tuning the optical, electrical, anti-microbial, and swelling activity of nanowires manganese dioxide-loaded chitosan matrix.
4. Characterization, antibacterial property, biocompatibility, and optimization of novel composite nanofibers incorporating curcumin-loaded flexible nano-liposomes.
5. Magnesium Ion/Gallic Acid MOF-Laden Multifunctional Acellular Matrix Hydrogels for Diabetic Wound Healing.
6. Dual-functional hCe-pHEMA contact lenses for ocular antibiotic release, antioxidant protection, and in vivo corneal bacterial infection treatment.
7. Highly Compatible Nanocomposite-Based Bacterial Cellulose Doped With Dopamine and Titanium Dioxide Nanoparticles: Study the Effect of Mode of Addition, Characterization, Antibacterial, and Wound Healing Efficiencies.
8. Bioinspired 3D-Printed NIR-Responsive MXene-Based Multifunctional Eutectogel Microneedles for Personalized Infected Wound Healing.
9. Assessment of pyrazolone derivatives as a new class of cyclooxygenase-2 and aflatoxigenic fungal inhibitors.
10. Preparation and performance of regenerated cellulose/polylactic acid non-leaching antibacterial composite membrane.
11. Enhanced antibacterial activity of Al-doped CuS incorporated PVA nanofiber films: Photothermal and photodynamic perspectives.
12. Carboxymethyl Chitosan Capped Bimetallic Nanoparticles Entrapped in Theranostic Nanofibers: Antimicrobial Peptide Coating, In Vitro, In Vivo Characterization for MDR Microbial Infection and Photoacoustic/Optical Imaging.
13. Synergistic photothermal and photodynamic therapy to promote bacteria-infected wound healing using ZnO@PDA/Ag-integrated waterborne polyurethane films.
14. Chlorella pyrenoidosa-Based Antibiotic Liposomal Gel Promotes Wound Healing by Scavenging Biofilm and Accelerating Regeneration.
15. Potent antimicrobial activity of hydrogel loaded with the antimicrobial peptide, D-Bac8c(2,5 Leu), against monospecies and polymicrobial biofilms of Staphylococcus aureus and Pseudomonas aeruginosa.
16. Modulated Optoelectronic Properties of MOF/CNF Bionanocomposite Films for Bacterial Growth Control under Visible Light.
17. A Chitosan-Integrated Antibacterial Protein Composite Nanocomplex Derived from Barnacle Cement and Spider Silk.
18. Electrospun Nanofiber Films Containing Hesperidin and Ofloxacin for the Inhibition of Inflammation and Psoriasis: A Potential In vitro Study.
19. Green Hydrogels Prepared from Pectin Extracted from Orange Peels as a Potential Carrier for Dermal Delivery Systems.
20. AgNPs@Tea Polyphenol-Poly(acrylic acid) Hydrogel Dressing with Synergistic Antibacterial Action and Low Cytotoxicity.
21. Controlled release of ionic carrier hydrogels for sequential immunomodulation to facilitate stage-specific treatment of infectious wound.
22. Hydrogel-mediated delivery of baicalein for the effective therapy of MRSA-infected diabetic wounds by immune response and moderate photothermal effects.
23. A novel multifunctional self-assembled nanocellulose based scaffold for the healing of diabetic wounds.
24. A Photothermal-Enhanced Thermoelectric Nanosheet Incorporated with Zwitterionic Hydrogels for Wound Repair and Bioelectronics.
25. Bone Immune Microenvironment-Modulating Naringin Carbon Dot Complex Hydrogel with ROS-Scavenging and Antibacterial Properties for Enhanced Bone Repair.
26. A dynamically crosslinked, self-adapting, injectable gelatin-chondroitin sulfate hydrogel with antibacterial and antioxidant properties for treatment of deep and irregular wounds.
27. Development of ZnO-NPs reinforced chitosan nanofiber mats with improved antibacterial and biocompatibility properties.
28. The versatile nanocomposite wound dressing with zinc replenishment, and enhanced photothermal and fluorescent performance for accelerating methicillin-resistant Staphylococcus aureus-infected diabetic wound repair and indicating dressing replacement.
29. Development of an Injectable Synergistically Crosslinked Polysaccharide Hydrogel with Antioxidant and Antibacterial Properties for Promoting Wound Healing.
30. Multifunctional moxifloxacin and essential oil loaded sodium alginate/thiolated karaya gum hydrogel dressings for improved wound healing.
31. Mg-doped bioactive glass and tea polyphenols incorporated Janus wound dressing for antibacterial and promoting tissue repair.
32. Baicalein based nano-delivery system restores mitochondrial homeostasis through PPAR signaling pathway to promote wound healing in diabetes.
33. Multi-active-site antibacterial modification of dopamine-hyaluronic acid hydrogel with N-halamine for skin tissue engineering.
34. An adhesive, antibacterial, conductive zwitterionic cellulose nanofibers-containing hydrogel for flexible strain sensors and super-capacitors.
35. Construction of AgNPs-loaded oriented hydrogel based on Periostracum Cicadae chitosan by electro-assembly for rapid hemostasis and wound healing.
36. Green synthesis of silver nanoparticles using Fructus Aurantii-loaded Citrus pectin hydrogel for accelerated healing of MRSA-infected diabetic wounds.
37. Core-shell nanofiber dressings with zinc oxide nanoparticles and cell-free fat extract: boosting fibroblast activity and antibacterial efficacy.
38. Polycaprolactone nanocapsule-loaded carbopol hydrogel enhances fusidic acid efficacy against Gram-negative bacteria and promotes wound healing.
39. 3D Extrusion-Printed Alginate-Gelatin Hydrogel Modified with Nanoscale Hydroxyapatite: A Comprehensive Understanding of Process Science and Evaluation of the Antimicrobial Property.
40. Nanocellulose Wound Dressings with Integrated Protease Sensors for Detection of Wound Pathogens.
41. Preparation of Active On-Demand Antibacterial Hydrogel Epidermis Electrodes Based on Flora Balance Strategy for Intelligent Prostheses.
42. Microenvironment-responsive MOF nanozymes armored cryogels promoted wound healing via rapid hemostasis, infection elimination and angiogenesis.
43. Eco-Friendly Multifunctional Hydrogel Sensors Enabled Sustainable and Accurate Human-Machine Interaction System.
44. An All-In-One Dendrobium Ionic Hydrogel with Wound Microenvironment Remodeling for Promoting Diabetic Wound Healing.
45. A methacrylated pullulan hydrogel incorporating phycocyanin-functionalized copper sulfide nanoparticles for photothermal antibacterial therapy and improved wound healing.
46. A novel multi-functional PVA- alginate hydrogel with dynamic bond crosslinking for infected wound repair.
47. Berberine@AgNPs@carboxylated chitosan hydrogel dressing with immunomodulatory and anti-biofilm properties promotes wound repair in drug-resistant bacterial infections.
48. Strong and tough chitosan-based conductive hydrogels cross-linked by dual ionic networks for flexible strain sensors.
49. Biomimetic Transformation of Inferior Parenchyma Cellulose into a Sustainable, Functional Medical Hydrogel Inspired by the Dermis.
50. Thymol-loaded polycaprolactone wet-spun fibers and their ability to suppress bacterial action and chronic wound-associated pro-inflammatory enzymes activity.
51. A novel antibacterial hydrogel containing aminophylline as a versatile platform for neural differentiation of hWJMSCs through the CREB pathway.
52. Injectable copper ion cross-linked TEMPO-oxidized bacterial cellulose nanofiber hydrogels and their synergistic antimicrobial activity with glutathione.
53. Construction of Schiff base dynamically cross-linked pH-responsive chitosan-based hydrogels and investigation of their targeted oral delivery performance for vitamin B12.
54. Multifunctional hydrogel with mild photothermal properties enhances diabetic wound repair by targeting MRSA energy metabolism.
55. Bio-inspired lotus-fiber and mussel-based multifunctional hydrogels for wound healing: super-stretchability, self-healing, adhesion and antibacterial properties.
56. Cotton gauze fabricated with hydro-stable Zn-MOF enables hemostasis acceleration, antibacterial activity, and wound regeneration.
57. Development of an Asymmetric Alginate Hydrogel Loaded with S-Nitrosoglutathione and Its Application in Chronic Wound Healing.
58. Fullerene-Functionalized Cellulosic Hydrogel Biosensor with Bacterial Turn-on Fluorescence Response Derived from Carboxymethyl Cellulose for Intelligent Food Packaging with DFT Calculations and Molecular Docking.
59. A green synthetic nanosilver photo-crosslinked injectable gelatin/hyaluronic acid hydrogel for infected cranial defect repair.
60. Collagen-Chitosan Composites Enhanced with Hydroxytyrosol for Prospective Wound Healing Uses.
61. Antrodia cinnamomea Residual Biomass-Based Hydrogel as a Novel UV-Protective and Antimicrobial Wound-Healing Dressing for Biomedical Use.
62. Sodium Alginate/Cuprous Oxide Composite Materials with Antibacterial Properties: A Preliminary Study Revealing the Counteracting Effects of Oligosaccharides in the Matrix.
63. Formulation and Evaluation of Licorice-Extract-Enhanced Chitosan, PVA, and Gelatin-Derived Hydrogels for Wound Dressing.
64. Efficacy Study of Propolis Eutectic Extract in Gel Formulations for the Treatment of Bacterial Skin Diseases in Dogs.
65. In Vitro Evaluation of Antibacterial Properties of NIR-Light Responsive Alginate Hydrogels Embedding Polydopamine Nanoparticles.
66. AIE-active PVA/berberine antibacterial hydrogel for wound healing, visual monitoring pH and dehydration.
67. Ex vivo modelling of extraluminal migration of pathogenic microbes in the presence of a hemostatic agent.
68. Moisture-Absorbing and Antimicrobial Semi-Interpenetrating Polymer Network Hydrogels: An Advanced Medical and Healthcare Material.

Staphylococcal skin infection

1. Dermatologic presentations of hyper IgE syndrome in pediatric patients.
2. Prevalence and Outcome of Infections Caused by Staphylococcus aureus Strains Harboring the Panton-Valentine Leukocidin Gene.
3. Linker and Head-Group Exploration of Anti-MRSA Triaromatic Pleuromutilins.
4. Antimicrobial use guidelines for canine pyoderma by the International Society for Companion Animal Infectious Diseases (ISCAID).
5. Newly Identified Antimicrobial Peptide Scymicrosin(7-26) from Scylla paramamosain Showing Potent Antimicrobial Activity Against Methicillin-Resistant Staphylococcus aureus In Vitro and In Vivo.
6. The efficacy of skin soft tissue expansion and recombinant human epidermal growth factor in the repair of second-degree scald scars: a prospective single-blind randomized controlled trial.
7. Impact of Staphylococcus aureus colonization and skin abscesses on formation of human anti-αGal antibodies.
8. Comprehensive analysis of the antibacterial activity of 5,8-dihydroxy-1,4-naphthoquinone derivatives against methicillin-resistant Staphylococcus aureus.
9. De Novo 3-(Phenylcarbamoyl) Benzoate Analogues: Efficacy against Multidrug-Resistant S. aureus and Elucidation of the Biodistribution Profile.
10. Ceftaroline Exhibits Promising In Vitro Activity Against Methicillin-Resistant Staphylococcus aureus Clinical Isolates From Alexandria, Egypt.
11. Wound Healing Properties of Plant-Based Hydrogel and Oleogel Formulations in a Rat Scald Burn Model.
12. Skin Infections Caused by Panton-Valentine Leukocidin and Methicillin-Susceptible Staphylococcus aureus in Child, Japan.
13. In vitro and In vivo antibacterial studies of sanguinarine against methiclliin-resistant Staphylococcus pseudintermedius in canine pyoderma.

Other news of possible interest