



Congress Mobile Page



WBC 2024

12th World
Biomaterials Congress

May 26-31, 2024 | EXCO, DAEGU, KOREA

Program Book

HOST |



The Korean Society for Biomaterials

SPONSOR |



DAEGU METROPOLITAN CITY



DAEGU
Convention & Visitors Bureau



KOREA
TOURISM
ORGANIZATION

Poster Session 4 / May 30 (Thu), 2024

- P4-357 Quantum Dot-Enhanced Photodynamic Antimicrobial Patch Reinforced with Mussel Adhesive Protein to Counter Multidrug-Resistant Bacteria
In Ho Nam, School of Interdisciplinary Bioscience and Bioengineering, Pohang University of Science and Technology, Korea, Republic of
- P4-358 Facile PDMS Surface Modification: Dual Layer Coating To Prevent Biofouling For The Potential Use Of Urinary Tract Biomaterial
Taehyeon Kim, (Univ/Yonsei), Korea, Republic of
- P4-359 In situ photo-crosslinkable hydrogel incorporating bioactive self-assembled peptide nanofibers for enhanced wound healing
Sang Min Lee, Department of Integrative Biotechnology, Sunkunkwan University, Korea, Republic of
- P4-360 3D bioprinted patch with placenta-based ECM and adjustable drug release for holistic diabetic wound healing
Hye Jin Kim, Department of Convergence IT Engineering, Pohang University of Science and Technology (POSTECH), Korea, Republic of
- P4-361 Strategies for Spheroids Assembly in Large-Scale Hepatic Tissue Engineering: Vascularization and Dynamic Cultivation
Sunwoo Lee, Department of Mechanical Engineering, Tech University of Korea, Korea, Republic of
- P4-362 Humoral and cellular response at the wound/dressing interface and related to the patients' wound healing process: A clinical study
SHIRIN SABERIANPOUR, 1Centre for Regenerative Medicine and Devices, School of Applied Science, University of Brighton, United Kingdom
- P4-363 Comparisons of the effects of silk elastin and collagen sponges on wound healing in a murine model
Eiichi Sawaragi, Department of Plastic and Reconstructive Surgery, Graduate School of Medicine, Kyoto University, Japan
- P4-364 Turning sublimed sulfur and bFGF into a nanocomposite to accelerate wound healing via co-activate FGFR and Hippo signaling pathway
Jieqiong Cao, Department of Cell Biology & Institute of Biomedicine, College of Life Science and Technology, Guangdong Province Key Laboratory of Bioengineering Medicine, Jinan University, China
- P4-365 Design of novel moisture-retentive, porous dressings for deep wound healing
Andrada Serafim, National University of Science and Technology Politehnica Bucharest, Romania
- P4-366 A multifunctional treatment platform containing nanodiamonds for post-tumor wound recovery
Xianglin Luo, Sichuan University, China
- P4-367 Development of dermal paste using engineered biomaterial for the treatment of chronic non-healing wounds
Prasad Sawadkar, Northwick Park Institute for Medical Research/UCL, United Kingdom
- P4-368 Low-dose trypsin enhances tissue repair through protease-activated receptor 2
Lei Lu, Wenzhou Medical University, China
- P4-369 In vivo revascularization induced by a fibroin-based small-caliber vascular prosthesis after transplantation
Jiannan Wang, Soochow University, China
- P4-370 Controlled release of decorin and decorin-derived peptides promote scarless wound healing after vocal fold injury
Riccardo Gottardi, University of Pennsylvania & Children's Hospital of Philadelphia, USA
- P4-371 A drug-laden bimetallic metal organic framework incorporated hydrogel for wound healing
Lili Yao, Wenzhou Medical University, China
- P4-372 Drug-eluting bioabsorbable surgical suture potential for wound healing
Azam Ali, University, New Zealand
- P4-373 Polymorphic polysaccharide bioactive hydrogel with synergistic effect through multifunctional groups to promote endometrial repair
Yudong Zheng, University of Science and Technology Beijing, China
- P4-374 Evaluations of the silk fibroin properties to achieve effective wound healing
Kaho Kobayashi, Shinshu University, Japan
- P4-375 A Wearable Electrotherapeutic Modality: Application of Pulsed Electric-field Generating Bandage in Combination with Antimicrobial Silk-Based Ionogel for Chronic Wound Treatment
Souradeep Dey, Centre for Nanotechnology, Indian Institute of Technology Guwahati, Assam, India, India

- P4-376 Rod-shape microgel assembled scaffolds with connected pore structures for skin wound healing and reducing scars
Yongyuan Kang, Zhejiang University, Department of Polymer Science and Engineering, China
- P4-377 Performance evaluation of modified starch as hemostatic material
Yi-Chun Chou, Institute of Biotechnology, National Taipei University of Technology, Chinese Taipei
- P4-378 In-situ self-oxygen supply, carrier, and sustained reactive oxygen species scavenging functionalized hyaluronic acid composite hydrogel
Pejman Ghaffari Bohlouli, BioMatter Unit-BTL, École Polytechnique de Bruxelles, Université Libre de Bruxelles, Avenue F.D. Roosevelt, 50-CP 165/61, Brussels 1050, Belgium, Belgium
- P4-379 Functionalized Aligned Fibrous Hydrogels Promotes a Whole-Course-Reconstruction in Diabetic Wound Microenvironment
Kun Koo Kim, School of Material Science and Engineering, Tsinghua University, China
- P4-380 A tough, antibacterial and antioxidant hydrogel dressing for suppression of hypertrophic scars formation in infected wounds
Xiaoqing Liu, MOE Key Laboratory of Macromolecular Synthesis and Functionalization, International Research Center for X Polymers, Department of Polymer Science and Engineering, Zhejiang University, Hangzhou 310058, China, China
- P4-381 Fibroblast alignment and matrix remodeling induced by a stiffness gradient in skin-derived extracellular matrix hydrogel
Fenghua Zhao, University of Groningen/ University Medical Center Groningen, Netherlands
- P4-382 The antimicrobial potential of cinnamon and basil essential oils in wound dressings
Alina Robu, National University of Science and Technology Politehnica Bucharest, Romania
- P4-383 Poly(ethylene glycol)-hyaluronic acid composite hydrogels as a vitreous substitute
Ting Wang, Department of Ophthalmology, West China Hospital of Sichuan University, China
- P4-385 Degradable Immune Instructive Microparticles for Chronic Wound Healing
Zeynep Imir, School of Pharmacy, University of Nottingham, United Kingdom
- P4-386 A multi-functional self-powered biocompatible system with synergistic harvesting mechanical/electromagnetic energy and modulating reactive oxygen species for accelerating wound healing
Syun Hong Chou, National Yang Ming Chiao Tung University, Chinese Taipei
- P4-387 Injectable Siloxane-based foams for in-situ rapid action hemostatic treatment
Pritha Sarkar, University of Central Florida, USA
- P4-388 Copper loaded all-natural hydrogel encapsulating drug-loaded micelles for on-demand promoting angiogenesis and infected wound healing by regulating macrophage heterogeneity.
yue li, National Engineering Research Center for Biomaterials, Sichuan university, Chengdu, 610064 P. R. China, China
- P4-389 Aligned PCL Fibers with In-situ Generated Nanogrooves Accompanied by Nano-CuO₂ Releasing Accelerates Diabetic Wound Healing
Lin Qi, Sichuan University, China
- P4-390 Mixed hyaluronic acid / lysine hydrogel combined with poly-L-lactic acid / hydroxyapatite porous scaffold as injectable nasal filler
Shuhua Chang, National Engineering Research Center for Biomaterials, College of Biomedical Engineering, Sichuan University, China
- P4-391 Bioactive elastin/therapeutic deep eutectic solvents composite hydrogel for diabetic wound healing and its immunomodulation mechanism
Chen Jiajia, The Seventh Affiliated Hospital, Sun Yat-sen University, China
- P4-392 Treating Diabetic Fibroblasts through Therapeutic Hyaluronan-Binding Silk Fibroin Hydrogels
Amelia Huffer, South Dakota School of Mines and Technology, USA
- P4-393 Blow-spun collagen/silicon nitride nanofibrous fabric with antibacterial, anti-inflammatory, and angiogenic activities for chronic wound treatment
Pengchao Ma, tsinghua university, China
- P4-394 Metal-phenolic self-assembly shielded probiotics in hydrogel reinforced wound healing with antibiotic treatment
Chen Zhou, National Engineering Research Center for Biomaterials, Sichuan University, China