



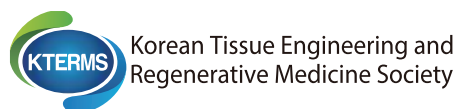
**Tissue Engineering and Regenerative Medicine
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New Chapter of Future Regenerative Medicine

Program Book



Chemical and Process Engineering, The National University of Malaysia (Universiti Kebangsaan Malaysia), Malaysia

PS02-050

Decellularised human umbilical arteries: exploring its potential as a readily available off-the-shelf coronary graft

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PS02-051

Dermal extracellular matrix-derived nanoparticles improve the biological relevance of gelatine bioinks for future wound healing applications

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PS02-052

The development of multifunctional nerve guidance conduit using milk derived protein for peripheral nerve regeneration

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PS02-053

Hydroxy-conjugated bifacial scaffolds for localized drug delivery system

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PS02-054

Engineering autologous vascularized thrombus implants for enhancing cutaneous wound healing

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PS02-055

Fabrication of phycocyanin based fibrous membrane coated fish collagen for bone regeneration

Se-Chang Kim¹, Seong-Yeong Heo⁴, Gun-Woo Oh³, Ji-Won Jeong¹, Won-Kyo Jung^{*2}

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PS02-056

A bio-adhesive hyaluronic acid hydrogel for pH-versatile biomedical applications

SooHwan An¹, Eun Je Jeon¹, Seung Yeop Han¹, Jihoon Jeon¹, Mi Jeong Lee¹, Sooyeon Kim¹, Mikyung Shin², Seung-Woo Cho^{*1}

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PS02-057

Acellular matrix film incorporating phlorotannins from Ecklonia cava suppressed post-implantation inflammatory responses

Tae-Hee Kim¹, Seong-Yeong Heo⁵, Gun-Woo Oh⁴, Won Sun Park³, Il-Whan Choi², Hyun Wook Kang¹, Huyn-Woo Kim¹, Young-Mog Kim¹, Sung-Han Jo¹, Sang-Hyug Park¹, Won-Kyo Jung^{*1}

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PS02-058

Fish collagen/PCL nanofibrous scaffolds with cross-linked chitooligosaccharides for full-thickness wound healing

Dong-Joo Park¹, Pathum Chandika¹, Gun-Woo Oh³, Seong-Yeong Heo², Tae-Hee Kim¹, Min-Sung Kim¹, Seung-Hee Moon¹, Won-Kyo Jung^{*1}

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PS02-059

Ovine collagen type-I (OTC-I) biomatrix integrated with antibacterial coating for rapid treatment in diabetic wound care management

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PS02-060

Fabrication of antioxidant and anti-inflammatory hydrogel based on fish skin gelatin/oxidized hyaluronate for accelerated wound healing

Dong-Joo Park¹, Seung-Hee Moon¹, Won-Kyo Jung^{*1}

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PS02-061

Fabrication of injectable iron(III) crosslinked hyaluronic acid/pectin hydrogel with antimicrobial activities

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PS02-062

Characterisation of native tissue and development of multiphasic scaffolds for engineering of bone-ligament interface

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PS02-063

Decellularized plant and fungal-based scaffolds for the *in vitro* production of bovine meat

Hyunjin Kim¹, Rakesh Bhaskar¹, Kannan Badri Narayanan¹, Soyeon Won¹, Abdulrahman Sharwani¹, Sungsoo Han^{*1}

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PS02-064

3D bioprinting of islet-like aggregates using dual-crosslinked hydrogel with promoted biofunctionality and enhanced shape stability

Yeonggwon Jo¹, Hyoryung Nam¹, Jinah Jang^{*1}

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PS02-065

Dual controlled photocrosslinkable and photodegradable gelatin-ased hydrogel