



Congress Mobile Page



12th World
Biomaterials Congress

WBC
2024

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

Program Book

HOST |



The Korean Society for Biomaterials

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DAEGU METROPOLITAN CITY



DAEGU
Convention & Visitors Bureau



KOREA
TOURISM
ORGANIZATION

Concurrent Symposium 9 (S9-14)

16:30-18:00 Room 315

Biomaterials for Cultured Meat Production

Organizer Tatsuya Shimizu / Tokyo Women's Medical University, Japan

Jinkee Hong / Yonsei University, Korea, Republic of

Chair Michiya Matuszaki / Osaka University, Japan

Deepak Choudhury / Bioprocessing Technology Institute, Singapore

Hee Ho Park / Hanyang University, Korea, Republic of

16:30
Keynote
Speaker
(20 min)S9-14-1
Cultured Meat Production Based on Circular Cell Culture System Using Microalgae.
Tatsuya Shimizu / Tokyo Women's Medical University, Japan

16:50

S9-14-2
Structure- and mechano-design of biopink for 3D-printed personalized cell-based Wagyu beef meat
Michiya Matuszaki / Osaka University, Japan17:10
Invited
SpeakerS9-14-3
Katsunisa Sakaguchi / Waseda University, Japan

17:25

S9-14-4
Cell sheet-based engineering of structural and physiological biomimetic bovine muscle tissue for cultured meat production
Hironobu Takahashi / Tokyo Women's Medical University, Japan17:40
Oral
PresenterS9-14-5
Plant-Based Decellularized Scaffolds for a Cultured Meat Prototype
Deepak Choudhury / Bioprocessing Technology Institute, Singapore

18:00-19:00

Grand Ballroom, 3F

Poster Session 3

19:00-21:00

Grand Ballroom, B1, Hotel Inter-Burgo EXCO

Congress Dinner

07:00-08:30

Lobby, 3F

Registration

May 30 (Thu)

Oral Session 3 (OS3-1)

08:30-09:30 Room 325-4B

Hydrogel 3

Chair Tooru Ooya / Kobe University, Japan

Mahmoud Rouabhia / Université Laval, Canada

08:30
Oral
PresenterOS3-1-1
Determination of the micromechanical and pro-angiogenic features of silk sericin/wool keratin hydrogels for regenerative medicine applications
Elif Beyza Demiryil / Regenerative Biomaterials Laboratory, Department of Bioengineering, Faculty of Engineering, Canakkale Onsekiz Mart University, 17100 Canakkale, Turkey, Turkey08:40
Oral
PresenterOS3-1-2
Encapsulation of bacteriophages isolated from poultry farms into FDA-based hydrogel
Yu-Ning An / Institute of Food Safety and Health, National Taiwan University, Taipei, Chinese Taipei08:50
Oral
PresenterOS3-1-3
Angiogenesis-Promoting Hydrogels on Cell Differentiation
Tooru Ooya / Kobe University, Japan09:00
Oral
PresenterOS3-1-4
Facile Biorthogonal Chemistry-based Injectable Hydrogels for Cell Delivery
Yiyang He / Nanjing Tech University, China09:10
Oral
PresenterOS3-1-5
Design of camabinoit-rich polyvinyl alcohol hydrogels to control tissue inflammation
Mahmoud Rouabhia / Université Laval, Canada

08:30-09:30

Room 325-CD

Technology for biofabrication 1

Chair Hua Zhang / Ningbo University, China

George Tan / Texas Tech University, USA

08:30
Oral
PresenterOS3-2-1
Composite hydrogel biopink for in vitro modelling of the intervertebral disc
Gregor Mikolic / AO Research Institute Davos, Switzerland08:40
Oral
PresenterOS3-2-2
Cell self-adaptable hydrogels for highly active bioprinting and soft tissue repair
Hua Zhang / Ningbo University, China08:50
Oral
PresenterOS3-2-3
Hydrogel Scaffolds Embedded with Porous Microtubes as Artificial Capillary Vessels
George Tan / Texas Tech University, USA09:00
Oral
PresenterOS3-2-4
Microfluidic-assisted digital manufacturing of functionally graded porous materials with transient physical and biological properties
Maria Celeste Trelli / Institute of Physical Chemistry - Polish Academy of Science, Poland09:10
Oral
PresenterOS3-2-5
Development of a Transferrable Pre-vascularized Constructs with Low Vascular Tissue-specific Bronites by Using Microfluidic 3D Bioprinting Technique
Dongwhan Kim / POSTECH, Korea, Republic of

08:30-09:30

Room 324-A

Smart materials for drug delivery

Chair Gayang Shim / Soongsil University, Korea, Republic of

Tianshu Li / Misashi University, Japan

08:30
Oral
PresenterOS3-3-1
Exosome derived from O10-stimulated hMSCs defect recovery by inhibition of ACSL4 to accelerate diabetic wound healing
zhengguang Wang / The third hospital of Peking university, China08:40
Oral
PresenterOS3-3-2
Enhanced Tumor Tissue and Cell Penetrable Nanoparticle for Effective Drug Deliver
Junmin Kim / Department of Chemical and Biomolecular Engineering, Sogang University, Seoul, Republic of Korea, Republic of08:50
Oral
PresenterOS3-3-3
Immunostimulatory cationic lipid nanoparticles: lipid structure and cellular mechanisms
Tianshu Li / Misashi University, Japan09:00
Oral
PresenterOS3-3-4
Urease-Powered Nanomotor Containing STING Agonist for Bladder Cancer Immunotherapy
Hyunsik Choi / POSTECH, Korea, Republic of09:10
Oral
PresenterOS3-3-5
Albe-derived nanovesicles attenuate inflammation and enhance tight junction proteins for acute colitis treatment
Sang-Hun Choi / Chung-Ang University, Korea, Republic of