Fusion of regenerative dentistry and medicine

Greetings from the President

Masaru Igarashi

Department of Endodontics, The Nippon Dental University School of Life Dentistry at Tokyo

11:20~12:20 Special lecture

Regenerative medicine of liver and pancreas from human tooth pulp

Ken Yaegaki

Department of Oral Health, The Nippon Dental University School of Life Dentistry at Tokyo

General session 1

1-1 9:40-9:55

Comparison of survival rates of camphorquinone-exposed cells with and without light irradiation

Tsubasa Shirai, Yoshiya Hashimoto, Koichi Imai
 Dept. of Biomaterials, Osaka Dental Univ.,
 Dept. of Tissue Engineering, Osaka Dental Univ.,
 Faculty of Health Science, Osaka Dental Univ.

1-2 9:55-10:10

Comparative study of cytotoxicity of resin and ceramic blocks for CAD/CAM

OMariko Nakai¹, Tadashi Yokoyama¹, Yoshiya Hashimoto¹, Koichi Imai²,³
 Dept. of Biomaterials, Osaka Dental Univ.,
 ²Dept. of Tissue Engineering, Osaka Dental Univ.,
 ³ Faculty of Health Science, Osaka Dental Univ.

1-3 10:10-10:25

Measurement of cell viability between two- and three- dimensional culture system of commercially available denture base lining materials

o Tadashi Yokoyama¹, Mariko Nakai¹, Yoshiya Hashimoto¹,Koichi Imai^{2,3}

¹Dept. of Biomaterials, Osaka Dental Univ.,

²Dept. of Tissue Engineering, Osaka Dental Univ.,

³ Faculty of Health Science, Osaka Dental Univ.

General session 2

2-1 10:30-10:45

Evaluation of multi-layered human pulp cell sheets

Katofumi Koyanagi, Munehiro Maeda, Masaru Igarashi
 Dept. of Endodontics, The Nippon Dental University
 School of Life Dentistry at Tokyo

2-2 10:45-11:00

The role of syndecans in the human dental pulp

∘Kenji Tsuda¹, Aiko Kamada², Yoshihiro Yoshikawa², Eisuke Domae²,
Aki Nishiura³, Naoyuki Matsumoto³
¹ Grad. Sch. of Dentistry (Dept. of Orthodontics), ² Dept. of Biochemistry,
³ Dept. of Orthodontics, Osaka Dental Univ.

2-3 11:00-11:15

Effect of Hmga2 gene knockout on osteoblast differentiation of MC3T3-E1 cells

• Tsubasa Negishi¹, Masaru Igarashi¹, Kazushi Imai²

¹Dept. of Endodontics, The Nippon Dental University School of Life Dentistry at Tokyo

² Dept. of Biochemistry, The Nippon Dental University School of Life Dentistry at Tokyo

General session 3

3-1 13:40-13:55

A novel method for bone regeneration using self-multilayered DPSC sheet

OMai Mochizuki^{1,2}, Taka Nakahara²

Dept. of Life Science Dentistry, The Nippon Dental University
School of Life Dentistry at Tokyo

Dept. of Developmental and Regenerative Dentistry,
The Nippon Dental University School of Life Dentistry at Tokyo

3-2 13:55-14:10

Evaluation of biphasic bone substitute granules combined with low crystalline hydroxyapatite

OYusuke Yamaguchi¹, Tomonori Matsuno¹, Yoshiya Hashimoto²,

Masako Kobayashi¹, Yuya Yoneyama¹, Takafumi Satomi¹

Dept. of Oral and Maxillofacial Surgery,

The Nippon Dental University School of Life Dentistry at Tokyo

Dept. of Biomaterials Science, Osaka Dental University

3-3 14:10-14:25

Effect of implantation of gelatin gel containing BMP on hard tissue formation at palatal sites in Estrogen-deficient rats

Akihito Yokoyama¹, Kozo Yamaji², Tomohiro Yoshiyama¹, Naoko Ohara², Kumiko Matsuzaki¹, Yasushi Shimada¹, Masahiro Yoshiyama¹
 Dept. of Operative Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences
 ²Dept. of Operative Dentistry, Okayama University Hospital

3-4 14:25-14:40

Glycomaterials aiming for regenerative medicine applications;

Binding properties and protective effects of sulfated hyaluronic acid on growth factors.

○Noriyuki Yuasa, Masato Habu, Fumie Kimura, Kento Kawamura, Jun Iwaki, Yuji¹ Matsuzaki Tokyo chemical industry Co., Ltd. Department of Glycotechnology

General session 4

4-1 14:45-15:00

Biocompatibility of Mineral Trioxide Aggrigate root canal sealer premix type material

•Yoshiya Hashimoto¹, Tomoharu Okamura², Kazuya Tominaga²

¹Dept. of Biomaterials, ² Dept. of Oral Pathology, Osaka Dental University

4-2 15:00-15:15

In vitro and *in vivo* effects of a novel bio-active adhesive monomer used as a direct pulp capping agent.

Youjing Qiu, Takashi Saito
 Division of Clinical Cariology and Endodontology,
 Department of Oral Rehabilitation,
 School of Dentistry, Health Sciences University of Hokkaido, Japan

4-3 15:15-15:30

Matrix metalloproteinase inhibition by ZnO/CuO nanocomosite.

oBayarchimeg Altankhishig, Yasuhiro Matsuda, Youjing Qiu, Takashi Saito Division of Clinical Cariology and Endodontology, Department of Oral Rehabilitation, School of Dentistry, Health Sciences University of Hokkaido

Closing remarks from the Preparatory committee chair

Tomonori Matsuno

Department of Oral and Maxillofacial Surgery,

The Nippon Dental University School of Life Dentistry at Tokyo