

# Program

**July 4 (Friday)**

**Opening Remarks**

**9:30 ~ 9:40**

Yokoyama Atsuro  
Hokkaido University

**Invited Lectures**

**9:40 ~ 10:30**

Chairs: Tetsuo Yamamori(Ohu University)  
Phira Sithiamnuai(Mahidol University)

**Invited Lecture 1**

**Are One-Day crowns worth the no wait?**

June-Sung Shim  
Department of Prosthodontics, College and School of Dentistry, Yonsei University, Korea

**Invited Lecture 2**

**Clinical performance and satisfaction of mini-implant supportedoverdenture  
- A prospective study**

Tsung-Chieh Yang  
Department of Prosthodontics, School of Dentistry, National Taiwan University, Taiwan

**Oral Presentation 1**

**10:40 ~ 12:00**

Chairs: Makoto Ishikawa(Hokkaido University)  
Takayasu Kubo(Hiroshima University)

**OS-01**

**Site development for implant rehabilitation**

KyeongHwan Han  
Department of Prosthodontics, Institute for Clinical Dental Research, Korea University, Korea

**OS-02**

**Autograft of human tooth and demineralized dentin matrices for a patient with maxillary  
cyst: a case report**

Haruhiko Kashiwazaki  
Hokkaido University, Japan

**OS-03**

**Comparative study based on bone formation in extraction sockets using different forms  
of platelet rich fibrin**

Anil Mathew  
Amrita Vishwa Vidyapeetham, Amrita Institute Of Medical Sciences, India

**OS-04**

**Relationship between initial stability of implant and Hounsfield Units around implant**

**Tohru Suganami**

Department of Prosthodontics, Gerodontology and Oral Rehabilitation, Osaka University Graduate School of Dentistry, Japan

**OS-05**

**The relationship between patient character and blood pressure in dental implant surgery.**

**Shunta Miwa**

Osaka University, Japan

**OS-06**

**Soft tissue management around extended edentulous spaces in esthetic zone :a case report**

**Masazumi Yoshitani**

Hokkaido University, Japan

**OS-07**

**Comparative Clinical Trial of Ball Attachment Retained Mandibular ImplantOverdentures in Edentulous Patients**

**Jin-Hong Park**

Korea University, Korea

**OS-08**

**The ability for controlling a occlusal force and a force rate in the subjects with implant-supported overdentures**

**Manami Abe**

Osaka University Graduate School of Dentistry, Japan

**Poster Presentation 1 (Odd Number)**

**13:20 ~ 14:05**

**P-01**

**Nobel culture method of alveolar bone marrow stromal cells for alveolar ridge augmentation**

**Fumio Suehiro**

Kagoshima University, Japan

**P-03**

**Antimicrobial activity and steric structure of Kog1, a bacteriocin-like cationic peptide derived from Lactobacillus rhamnosus**

**Sumiyo Mimura**

Hiroshima University, Japan

**P-05**

**Osteogenic Evaluation of DNA/Protamine Complex in Disease Model Rats**

**Tsukasa Yanagi**  
Fukuoka Dental College, Japan

**P-07**

**Effects of bone regeneration on mesenchymal stem cells in spheroid culture**

**Yuichiro Yamaguchi**  
Fukuoka Dental College, Japan

**P-09**

**Influence of Transmucosal Designs of Dental Implant on Tissue Regeneration in Beagle Dogs**

**Su-Min Kim**  
Pusan National University, Korea

**P-11**

**Effect of intermittent parathyroid hormone administration on primary stability in rabbit osteoporosis model**

**Kazuya Doi**  
Department of Advanced Prosthodontics, Hiroshima University Graduate School of Biomedical Sciences, Japan

**P-13**

**Biological effects of early occlusal loading on bone tissue around titanium implants immediately placed into extraction sockets**

**Yoshiki Ikeda**  
Hokkaido University, Japan

**P-15**

**Full mouth rehabilitation of patient with peri-implantitis and periodontitis**

**Chan-Jin Park**  
Gangneung-Wonju National University, Korea

**P-17**

**Changes in postoperative pain thresholds after dental implant surgery**

**Shoichi Ishigaki**  
Osaka University, Japan

**P-19**

**Comparisons between Sawbone and Ilium Bone Blocks by MDI Insertion Torque Measurements**

**Hsing-Yuan Fan**  
National Taiwan University, Taiwan

**P-21**

**Comparison of hydroxyapatite-coated implant with titanium implant in experimental peri-implantitis.**

**Hiroki Nakamura**  
The Nippon Dental University, Japan

**P-23**

**The Effect of the size of graft material on the bone formation after immediate implant placement between single- and multi-rooted teeth**

**Jin-Soo Ahn**  
Seoul National University, Korea

**P-25**

**Preservation of keratinized mucosa around implants using ready-made plastic stent (Louis Button®)**

**KyeongHwan Han**  
Department of Prosthodontics, Institute for Clinical Dental Research, Korea University, Korea

**P-27**

**Radiographic Analyses of Dental Implant by the Digital Subtraction Image**

**Kouichi Takahashi**  
Tsugayasu Dental Clinic, Japan

**P-29**

**The effect of Hyperbaric oxygen therapy for bisphosphonate-related osteonecrosis of jaws (BRONJ)**

**Takuya Asaka**  
Hokkaido University, Japan

**P-31**

**Scenario-based simulation training on oral implantology for undergraduate dental students**

**Chihiro Masaki**  
Kyushu Dental University, Japan

**P-33**

**Analysis of Surface Wettability on Anodization-Hydrothermal Treatment of c.p.Titanium Surface with Nanotopography**

**Jun Takebe**  
Iwate Medical University, Japan

**P-35**

**Effect of material and number of the clip for bar attachment on the maxillary implant overdenture**

**Mariko Tanoue**  
Tokyo Medical and Dental University (TMDU), Japan

**P-37**

**Collagenated biphasic calcium phosphate loaded with bone morphogenetic protein-2 in rabbit calvarial defect model**

Im-Hee Jung  
Yonsei University, Korea

**P-39**

**Periosteum Cell Differentiation Enhances by Porous Amorphous Silica Fibrous Scaffolds**

Tetsuro Odatsu  
Texas A&M University Baylor College of Dentistry, USA

**P-41**

**Impact of hydrogen content of diamond-like carbon-treated titanium on osteoblast and osteoclast differentiation in vitro**

Kentaro Takagi  
Hiroshima University, Japan

**P-43**

**Peri-implant tissue responses on microgrooved abutment surface**

Kensuke Igarashi  
Dept. of Crown and Bridge, The Nippon Dental University School of Life Dentistry at Niigata, Japan

**P-45**

**Effects of titanium surfaces with nano-network structures formed by treatment with various alkali concentrations on osteogenic differentiation**

Satoshi Komasa  
Osaka Dental University, Japan

**P-47**

**Clinical Evaluation of Dense-PTFE Membrane**

Hiroyuki Owada  
Showa University, Japan

**P-49**

**Hydrothermal treatment of titanium with divalent cation solutions enhances the fibroblastic and epithelial cell adhesion**

Yasunori Ayukawa  
Kyushu University, Japan

**P-51**

**Effects of thin hydroxyapatite coating using chemical coating process on differentiation of bone marrow stromal cells**

Tatsuro Ito  
Hokkaido University, Japan

**P-53**

**The effect of zirconia abutment on microcirculation dynamics in soft tissue**

**Norihiro Kajiwara**  
Kyushu Dental University, Japan

**P-55**

**Application of resilient liner for attachment of implant -overdenture**

**Yoritoki Tomotake**  
Tokushima University Hospital, Japan

**P-57**

**Computer simulation of the reconstructed mandible after mandibulectomy**

**Ho Beom Kwon**  
Seoul National University, Korea

**P-59**

**Mechanical Repetitive Loading Enhances Bone Quality around Dental Implants in Rabbits**

**Shinichiro Kuroshima**  
Nagasaki University, Japan

**P-61**

**Abutment screw loosening for different implant systems by cyclic loading**

**Yasuhiro Katsuta**  
The Nippon Dental University of Life Dentistry at Niigata, Japan

**P-63**

**In vitro assessment of mandibular single/two implant-retained over denture using stress-breaking attachment**

**Kentaro Kono**  
Tsurumi University, Japan

**P-65**

**Comparative Evaluation of Plaque Removal Efficacy of Three Electric Cleaning Devices in Edentulous Patients with Implant-supported Full-arch Fixed Prosthesis**

**Taro Mukaibo**  
Kyushu Dental University, Japan

**P-67**

**Analysis of Panoramic Radiographs of Edentulous Patients in Korea**

**DongHun Lee**  
Dankook University, Korea

**P-69**

**Application of Replaceable Porcelain Fused to Zirconia Crowns (RPZCs) in Multiple Implant Supported Prosthesis: A Case Report**

Wei-Tse Hong  
Wei-En Dental Clinic, Taiwan

**P-71**

**Immediate Loading of Mandibular 2-Implant Overdenture Retained by Magnetic Attachments: A Preliminary Report**

Yuri Omura  
Tokyo Medical and Dental University, Japan

**P-73**

**Occlusal contact of fixed implant prostheses using functional bite impression (FBI) technique**

Yasunori Suzuki  
Tsurumi University, Japan

**P-75**

**The effects of the attachments on loads onto the abutment implants and residual ridge in a mandibular implant-supported overdenture**

Yoshiki Matsudate  
Division of Advanced Prosthetic Dentistry, Tohoku University Graduate School of Dentistry, Japan

**Oral Presentation 2**

**14:15 ~ 15:15**

Chairs: Kenji Maekawa(Okinawa University)  
Yasunori Ayukawa(Kyushu University)

**OS-09**

**Biochemical mechanism of titanium implant fixation: a new discovery of implant proteins (SIBLINGS) which bind with titanium and enhance bone formation**

Yoshinori Kuboki  
Hokkaido University, Japan

**OS-10**

**Effect of Matrix Collagen Crosslinks on Osteoblast and Osteoclast activities**

Takako Ida  
Niigata University, Japan

**OS-11**

**Microcracks in the pathogenesis of Osteonecrosis of the jaw: An Animal Study**

Maria Erika A. Landayan  
Ewha Womans University Medical Center, Korea



**OS-12**

**Sequential delivery of BMP-2 and BMP-7 using a heparinized collagen membrane for in vivo bone regeneration**

**Jung-BO Huh**  
Prosthodontics, Pusan National University, Korea

**OS-13**

**Establishment of ONJ Model with Precedent Metabolic Bone Disease: Ovariectomized SD Rat Study**

**Jacquiline Czar I. Tatad**  
Ewha Womans University Medical Center, Korea

**OS-14**

**Efficient Bone Formation in Swine Socket-lift Model Using E. Coli-derived rhBMP-2 Adsorbed in beta-TCP**

**Shigehiko Shinkawa**  
Okayama University, Japan

**Symposium 1**

**15:25 ~ 16:55**

**Peri-implantitis – From an Asian Viewpoint –**

**Chairs: Takashi Sawase(Nagasaki University)**  
**Sang-Wan Shin(Korea University)**

**S1-01**

**Modern trends of the treatment for peri-implant disease**

**Makoto Shiota**  
Tokyo Medical and Dental University, Japan

**S1-02**

**A Current Perspective on Relationship of Implant Occlusion and Periimplantitis**

**Chanavut Asvanund**  
Department of Prosthodontics, Faculty of Dentistry, Mahidol University, Thailand

**S1-03**

**What do we know about Peri-implantitis?**

**Sungtae Kim**  
Department of Periodontology Seoul National University Dental Hospital, Korea

**Plenary Lecture 1**

**17:05 ~ 18:05**

**Chairs: Hironobu Sato(Fukuoka Dental College)**  
**Li-Deh Lin(National Taiwan University)**

**Biofunctionalization of metallic materials and comparison with zirconia**

**-Trap into ready-made results and bottleneck for utilization**

**Takao Hanawa**  
Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, Japan

## July 5 (Saturday)

### Invited Lectures

9:30 ~ 10:20

Chairs: Takeo Maida(Hokkaido Health Science University)  
Jae-Jun Ryu(Korea University)

#### Invited Lecture 3

**Maintenance protocol of peri-implant disease and the concept of follow-up oriented treatment planning**

Hideshi Sekine  
Division of Oral Implantology, Department of Prosthetic Dentistry, School of Dentistry,  
Ohu University, Japan

#### Invited Lecture 4

**Small diameter implant: a solution for narrow ridge**

Chatchai Kunavisarut  
Faculty of Dentistry, Mahidol University, Thailand

### Symposium 2

10:30 ~ 12:00

**Bisphosphonate-Related Osteonecrosis of the Jaw and Dental Implants**

-Topic in Dental Implant Treatment in the Future-

Chairs: Izumi Mataga(Nippon Dental University)  
Seong-Ho Choi(Yonsei University)

#### S2-01

**Dental Implant Therapy for Bisphosphonate-Administrated Patients**

Soichiro Asanami  
Dept. of Oral Surg, Sanno Hospital, International University of Health and Welfare, Japan

#### S2-02

**Histopathological Examination on Bisphosphonate-Related Osteonecrosis of the Jaw (BRONJ)**

Norio Amizuka  
Department of Developmental Biology of Hard Tissue, Graduate School of Dental Medicine,  
Hokkaido University, Japan

#### S2-03

**Retrospective study on the treatment of BRONJ with PRF and BMP**

Sun-Jong Kim  
Department of Dentistry, School of Medicine, Ewha Womans University, Korea

## **Luncheon Seminar**

**12:10 ~ 13:10**

Chairs: Haruhiko Kashiwazaki(Hokkaido University)

**Immediate implantation, simultaneous augmentation, and compromised sites: achieving lasting successes with SLActive®**

**Nikos Mattheos**

Implant Dentistry in the Faculty of Dentistry, The University of Hong Kong, China

## **Poster Presentation 2 (Even Number)**

**13:20 ~ 14:05**

**P-02**

**Effects of Titanium Immobilized with the Monoclonal Antibody to NHE10 on the Differentiation of Osteoclastic and Osteoblastic Cells**

**Takahiro Shuto**

Kyushu University, Japan

**P-04**

**Anti-inflammatory effect of Kog1, a bacteriocin-like cationic peptide derived from Lactobacillus rhamnosus**

**Chika Umemoto**

Hiroshima University, Japan

**P-06**

**The influence of an anti-diabetic drug on bone formation around titanium implants in type 2 diabetic rats.**

**Chikoto Hashiguchi**

Department of Oral Maxillofacial Prosthodontics, Kagoshima University Graduate School of Medical and Dental Sciences, Japan

**P-08**

**Effects of Low intensity pulsed ultrasound stimulation on bone formation after sinus augmentation**

**Hiroaki Takebe**

Health Sciences University of Hokkaido, Japan

**P-10**

**Establishment of long-term culture system in ERM cell by Rho kinase inhibitor**

**Fumiya Hadara**

Health Sciences University of Hokkaido, Japan

**P-12**

**Anti-RANKL Monoclonal Antibody Therapy Suppresses Oral Wound Healing with Increased TRAP-positive Mononuclear Cells in Mice**

**Shinichiro Kuroshima**

Nagasaki University, Japan

**P-14**

**A 1-Year Prospective Study of The Survival Rate of Immediate Loading Implant for Edentulous Maxillae Using Flapless Guided Surgery**

**Junichi Yamada**

Section of Implant and Rehabilitative Dentistry, Division of Oral Rehabilitation, Faculty of Dental Science, Kyushu University, Japan

**P-16**

**Introduction of Modified Free Gingival Graft**

**Keiichi Kosaka**

Asahi University, Japan

**P-18**

**Implant-supported oral rehabilitation of a patient with craniometaphyseal dysplasia: report of a case**

**Kenji Maekawa**

Department of Oral Rehabilitation and Regenerative Medicine, Okayama University, Japan

**P-20**

**Exploring the Surgical Protocol of 2.1-mm MDI with Sawbone and Ilium Bone**

**Yu Ting Chen**

National Taiwan University, Taiwan

**P-22**

**Analysis of titanium eluted from the implant surface**

**Takanori Wachi**

Kyushu University, Japan

**P-24**

**Mechanical properties of peri-implant bone in retrieved dental implants after 20 years of loading**

**Hyung-In Yoon**

School of Dentistry, Seoul National University, Korea

**P-26**

**Clinical Application of Concentrates Growth Factor (CGF) for Sinus Floor Elevation**

**Makoto Nakamura**

Tenkoku-kai, Japan

**P-28**

**Effect of the use of a ready-made plastic stent on the peri-implant soft tissue**

**Ah-rang Kim**

Pusan National University, Korea

**P-30**

**Study on Osseointegrated Long Implants in Maxillary Posterior Inner Cortex (OLIMPIC)**

**Masahiko Ozeki**

Showa University, Japan

**P-32**

**Difference of occlusal contact by the difference of silicone check bite materials**

**Mutsuo Yamauchi**  
Asahi University, Japan

**P-34**

**Bone ingrowth evaluation of porous titanium scaffolds with various pore sizes**

**Widyasri Prananingrum**  
The University of Tokushima, Japan

**P-36**

**The effect of a bone substitute combined collagen membrane as a rhBMP-2 carrier for sinus augmentation in rabbits.**

**Sora Yoon**  
Yonsei University, Korea

**P-38**

**Photofunctionalization Restores Osseointegration Capability in Aged Rats**

**Hideki Aita**  
Health Sciences University of Hokkaido, Japan

**P-40**

**Osteoconductivity of BCP, BCP/collagen composite in rabbit calvarial defect models.**

**You-Kyoung Kim**  
Yonsei University, Korea

**P-42**

**Effects of anodized implants coated with Esherichia coli-derived rhBMP-2 in beagle dogs**

**Si-Eun Lee**  
Pusan National University, Korea

**P-44**

**Evaluation of implant stability in novel implant/interconnected porous calcium hydroxyapatite complex**

**Yusuke Makihara**  
Department of Advanced Prosthodontics, Hiroshima University Graduate School of Biomedical Sciences, Japan

**P-46**

**Bone Augmentation at Maxillary Sinus Using Plate Shape of Beta-tricalcium Phosphate**

**Hidemichi Kihara**  
Iwate-Medical University, Japan

**P-48**

**Effect of the excimer UV irradiation to dental material surfaces**

**Yu Kataoka**  
Showa University, Japan

**P-50**

**Wear of Lithium Disilicate Glass against Tooth Enamel in Vitro**

Ayano Shinohara  
Nagasaki University, Japan

**P-52**

**A 3-dimensional finite element analysis on the stress distribution of internal implant-abutment connection**

Lee-Ra Cho  
Department of Prosthodontics and Research Institute of Oral Science,  
Gangneung-Wonju National University, Korea

**P-54**

**Effect of cyclic loading on axial displacement of abutment into implant with internal tapered connection: a pilot study**

Chang-Hyun Baek  
Seoul National University, Korea

**P-56**

**The Influence of Implant Numbers and Locations on The Stress Distribution in Maxillary Overdenture - An In-vitro Study**

Yi-Chen Chen  
Graduate Institute of Clinical Dentistry, School of Dentistry, National Taiwan University, Taiwan

**P-58**

**Reconstruction of Three-Dimensional Occlusal Contacts Model on a Dental Morphology**

Takuya Kihara  
Hiroshima University, Japan

**P-60**

**Dental Implants as Reinforcements for Splinting of Teeth  
-Biomechanical Study Using Finite Element Analysis-**

Ei-ichiro Shibahara  
Ozu University, Japan

**P-62**

**Effect of loading magnitude on the dynamics of peri-implant bone**

Tatsuya Matsuzaki  
Kyushu University, Japan

**P-64**

**Replacement of prosthesis in patient with peri-implantitis**

Dae-Gon Kim  
Gangneung-Wonju National University, Korea

**P-66**

**Prosthetic Planning and Treatment of Marginal Mandibulectomy patient**

Woo Sung Lee  
Seoul National University, Korea

**P-68**

**Esthetic Full Zirconia Fixed Detachable Implant-Retained Restorations Manufactured from Monolithic Zirconia : Clinical Report**

YuSung Choi  
Dankook University, Korea

**P-70**

**Full Mouth Rehabilitation for The Patient Who Received Resection of Mandibular Benign Tumor Using Mini-Implant Retained Overdenture**

Jae Jun Ryu  
Korea University, Korea

**P-72**

**Analysis of proximal contact change between implant-supported fixed dental prostheses and natural teeth**

Masaki Adachi  
Tokyo Medical and Dental University, Japan

**P-74**

**Accuracy of Digital Impression for Implant Prosthesis Captured with Intraoral Scanner**

Hitoshi Ajioka  
Iwate Medical University, Japan

**P-76**

**Comparative study on the homogeneity and Inhomogeneity of bone modeling in FEA stress analyses of peri-implant bone.**

Takehiko Mito  
Tohoku University, Japan

**Plenary Lecture 2**

**14:15 ~ 15:45**

Chairs: Atsuro Yokoyama(Hokkaido University)  
Jung-Suk Han(Seoul University)

**Prevention and management of peri-implant inflammations:  
a comprehensive approach for long lasting success.**

Nikos Mattheos  
Implant Dentistry in the Faculty of Dentistry, The University of Hong Kong, China

**Award Ceremony and Closing**

**15:45 ~ 16:15**