## Sunday, May 26

### Room 1 4F Hall C

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<th>Time</th>
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<td>9:00～10:30</td>
<td>Symposia 7: Aging and Anti-aging Medicine for Dentistry in Japan</td>
<td>Hidetoshi Shimauchi (Tohoku University, Japan)</td>
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<td>SY.13 Recent Advances in Anti-aging Medicine</td>
<td>Ichiro Saito (Tsurumi University, Japan)</td>
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<td>SY.14 Responses, Regeneration and Aging of Dentin-Pulp Complex</td>
<td>Masaki Shimono (Tokyo Dental College, Japan)</td>
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<td>10:50～12:50</td>
<td>Symposia 8: The Future Dentistry Based on Endodontics - Restorative Dentistry - Endodontics</td>
<td>Hidemi Kurihara (Hiroshima University, Japan)</td>
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<td>SY.15 Vital Pulp Therapy - Biological Basis, Current Concepts and Future Perspectives</td>
<td>Takashi Okiji (Niigata University, Japan)</td>
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<td>SY.16 Tissue Regeneration for Periapical Defects and Periodontal Defects</td>
<td>Hidemi Kurihara (Hiroshima University, Japan)</td>
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<td>SY.17 Photofunctionalization-driven Next Generation Implant and Tissue Regenerative Therapy</td>
<td>Takahiro Ogawa (UCLA, USA)</td>
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<td>SY.18 Relationship between Orthodontic Therapy and Endodontic Therapy: Orthodontic Therapy in</td>
<td>Ryuzo Kanomi (Kanomi Dental Office, Japan)</td>
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<td>Conjunction with Auto-transplantation of Root-Incomplete Teeth</td>
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<td>14:00～17:00</td>
<td>Country Representative Speakers 7</td>
<td>Nobuyuki Tani-Ishii (Kanagawa Dental University, Japan)</td>
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<td>CR.22 Endodontic Retreatment with Mineral Trioxide Aggregate</td>
<td>Wayne Pulver (Canadian Academy of Endodontics, Canada)</td>
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<td>CR.23 Evaluation of the Efficacy of Different Systems for Gutta-percha Removal in Root Canal</td>
<td>Shalini D. Aggarwal (Indian Endodontic Society, India)</td>
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<td>Retreatment</td>
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<td>CR.24 The Use of Bioceramic Technology as an Endodontic Sealer</td>
<td>Wayne Pulver (Canadian Academy of Endodontics, Canada)</td>
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<td>CR.25 Lasers in Endodontics: Is Their Future Coming Closer?</td>
<td>Eleftherios-Terry Farmakis (University of Athens, Greece)</td>
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<td>17:00～17:30</td>
<td>Closing Ceremony</td>
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### Room 2 5F Hall B5 (1)

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<tr>
<td>9:00～10:30</td>
<td>Symposia 9: The Role of Dentist in Case of Great Disaster - Identification of Bodies Based on</td>
<td>Hiroshi Nakamura (Aichi Gakuin University, Japan)</td>
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<td>Endodontics in the Great East Japan Earthquake</td>
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<td>SY.19 Close Relationship of the Forensic Dentistry with the Endodontics</td>
<td>Takao Hatori (Kobayashi Hospital/ Odawara Dental Association, Japan)</td>
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<td>SY.20 Databases of Dental Findings for Contributing to Identification After a Massive Disaster</td>
<td>Tadahiro Yanagawa (Japan Dental Association, Japan)</td>
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14:00 〜 17:00 Country Representative Speakers 8
Chairpersons  Piyanee Panitvisai (Chulalongkorn University, Thailand)
Baybora Kayahan (Turkish Endodontic Society, Turkey)

CR.26 Withdrawn
Mohammad Hossein Nekoofar (Iranian Association of Endodontists, Iran)

CR.27 Broken Instruments : Prevention and Removal
Baybora Kayahan (Turkish Endodontic Society, Turkey)

CR.28 Consideration for Restoration of Endodontically Treated Teeth
Piyanee Panitvisai (Chulalongkorn University, Thailand)

9:00 〜 10:30 Oral Research Presentations 7
Chairperson  Keiso Takahashi (Ohu University, Japan)

OP.26 Mutation Analysis of Enterococcus faecalis Resistance Genes Induced by Intracanal Medicament
Prathyusha Francis (University of the East, India)

OP.27 Profiling of Cytokine Production in Exudative Fluids from Various Periapical Lesions for Establishment of Novel Treatment Strategy
Kazuhisa Ouhara (Hiroshima University, Japan)

OP.28 An Exvivo Evaluation of Bacterial Biofilm Removal using Static and Passive Ultrasonic Irrigation Methods
Joseph Joy (Private Practice Limited to Endodontics, India)

OP.29 Molecular Assessment of Bacterial Community in Persistent Apical Periodontitis Granulomatous Tissue : 16S rDNA Clone Library Analysis
Myrna Nurlatifah Zakaria (Kyushu University, Japan)

OP.30 A Potential Antibacterial Active Compound 18-h-1 of Myrmecodia Pendens Merr. & Perry against Enterococcus faecalis ATCC 29212 in Comparison to 3% NaOCl and 2% Chlorhexidine
Hendra Dian Adhita Dharsono (Universitas Padjadjaran, Indonesia)

OP.31 Antimicrobial Efficacy of Photo Activated Disinfection Alone and in Combination with Calcium Hydroxide or Triple Antibiotic Paste : a Clinical Study
Pragya Mishra (All India Institute of Medical Sciences, India)

10:50 〜 12:50 Free Lectures 7:Diagnosis & Irrigation 2
Chairperson  Yasuhisa Tsujimoto (Niigata University, Japan)

FL.23 Irrigation of the Root Canal System : Efficacy of a New Laser Technique PIPS (Photon-induced Photoacoustic Streaming) Compared to Conventional Irrigation and Passive Ultrasonic Irrigation
David E. Jaramillo (Loma Linda University, USA)

FL.24 Influence of Instrumentation on Biomechanical Properties of the Teeth
Michael Solomonov (Tel Hashomer Hospital, Israel)

FL.25 Efficacy of Irrigants on Biofilms in Endodontic Treatment
Mohamed Salah Zeglam (Tripoli University, Libya)

FL.26 A Survey on Usage of Cone Beam Computed Tomography for Endodontic Diagnosis
Arata Ebihara (Tokyo Medical and Dental University, Japan)

14:00 〜 15:30 Free Lectures 8 : Retreatment 1
Chairperson  Kunihiko Yoshiba (Niigata University, Japan)

FL.27 Withdrawn
FL.28 "Flare-up" Can We See It Coming?  
Adham Abdel Azim (University of Tennessee, USA)

FL.29 Successful Endodontic Re-treatment  
Morio Okaguchi (Okaguchi Dental Clinic, Japan)

15:30 〜 17:00 Free Lectures 9 : Retreatment 2  
Chairperson  Hiromichi Yumoto (The University of Tokushima, Japan)

FL.30 Endodontic Retreatment : Decision Making  
Jamal Mustafa El-swiah (Benghazi University, Libya)

FL.31 A Microsurgical Approach to Maxillary Molar Retreatment  
Tsuneyasu Izawa (Izawa Dental Office, Japan)

FL.32 The Use of Watermelon Frost as Root Canal Medicament in Non-surgical Retreatment with Periapical Lesion of C-shaped Mandibular Second Molar : a Case Report  
Dennis Dennis (University of Sumatera Utara, Indonesia)

Room 4  5F G510

9:00 〜 10:30 Oral Research Presentations 8  
Chairperson  Hiroshi Miyashita (Endo Perio Specialist’s Dental Clinic, Japan)

OP.32 Near Infrared Laser Induced Photo-acoustic Streaming for Endodontic Applications  
Roy George (School of Dentistry and Oral Health, Australia)

OP.33 Comparison of the Cyclic Fatigue Resistance of Nickel-Titanium Instruments used in Reciprocating or Continuous Rotary Motion  
Peter Kiefner (Private Practice, Germany)

OP.34 Micro CT Analysis of Hard Tissue Debris Accumulation Created by SAF vs ProTaper Systems  
Diyar Khalid Bakr (Hawler Medical University, Iraq)

OP.35 Development of a Low Cost and High-resolution Fiber Scope for Endodontics  
Shinji Yoshi (Kyushu Dental College, Japan)

OP.36 Selective Penetration of Conventional and Experimental Nano-filled Epoxy Resin-based Sealer Cements into Dentinal Tubules : SEM and EDS Analysis  
Epita Sarah Pane (University of Melbourne, Australia)

OP.37 Ionic Release and Apatite Formation of New Injectable and Fast Setting versus Conventional Calcium Silicate-based Cements  
Hugo Setbon (Universite Catholique de Louvain, Belgium)

10:50 〜 11:50 Oral Research Presentations 9  
Chairperson  Yoshifumi Kinomoto (Kinomoto Dental Office/ Osaka University, Japan)

OP.38 The Effect of Various Concentrations of Iodine Potassium Iodide on the Antimicrobial Properties of Mineral Trioxide Aggregate  
Saatchi Masoud (Isfahan University of Medical Sciences, Iran)

OP.39 Comparison of Coronal Sealing Ability of a New Endodontic Material (CEM Cement), Glass Ionomer, and Mineral Trioxide Aggregate as Coronal Barrier in Non-vital Bleaching - in Vitro  
Mohsen Ramazani (Mazandaran University of Medical Sciences, Iran)

OP.40 Assessment of Coronal Leakage Resistance of a New MTA-based Sealer in Comparison with That of AH Plus Sealer - in Vitro  
Mohsen Ramazani (Mazandaran University of Medical Sciences, Iran)
OP.41  H.K. Tweezers (MTA Cement Carrying, Reverse Root Canal Plugger Tweezers for Post Apicoectomy)
Hitoshi Kurihara (Chichibu Rinsyou Dental Clinic CTImplant Center, Japan)

11:50 〜 12:50 Oral Research Presentations 10
Chairperson  Mikako Hayashi (Osaka University, Japan)

OP.42  Effect of Calcium Silicate-based Cements on the Osteoblastic Differentiation
Bin-Na Lee (Chonnam National University, Korea)

OP.43  The Inflammatory Reaction of Pulp Tissue with Calcium Hydroxide, MTA and Portland Cement (in Vivo)
Hesti Witasari Jos Erry (University of Indonesia, Indonesia)

OP.44  Comparative Evaluation of the Push Out Bond Strength of Three Commercially Available CSMs Used as Furcation Repair Material in the Presence of Blood Contamination. An invitro study.
Sanjay Miglani (Jamia Millia Islamia University, India)

OP.45  Evaluation of Irradiative Abilities of Dental Materials
Oleksandra Dmytrivna Golovchanska (National O. Bogomoletz Medical University, Ukraine)

14:00 〜 15:15 Oral Research Presentations 11
Chairperson  Tomoatsu Kaneko (Niigata University, Japan)

OP.46  Down-regulation of Inflammatory Mediator Synthesis and Infiltration of Immunocompetent Cells in Rat Experimental Pulpitis by MMP-3
Koyo Takimoto (Tokyo Medical and Dental University, Japan)

OP.47  3-D Spheroid Culture Method Promotes Odonto-/Osteo-blastic Differentiation of Dental Pulp Cells
Mioko Yamamoto (Tokyo Medical and Dental University, Japan)

OP.48  The Activation/Maturation of Macrophages in Engineered Pulp Tissue
Tomoatsu Kaneko (Niigata University, Japan)

OP.49  ATF6 Involved in the Tooth Development and Odontoblast Differentiation
Yun-Chan Hwang (Chonnam National University, Korea)

OP.50  TRAF6 Performs a Vital Role in Bone Resorption during E. Faecalis Infected Periapical Periodontitis
Niu Weidong (Dalian Medical University, China)

15:15 〜 16:30 Oral Research Presentations 12
Chairperson  Hideki Shiba (Hiroshima University, Japan)

OP.51  Suppressive Regulation of Bone Destruction in Rat Periapical Lesions by Cathepsin K Inhibitor
Noriyuki Suzuki (Tokyo Medical and Dental University, Japan)

OP.52  The Antimicrobial Peptide LL37 Suppresses the Peptidoglycan-induced mRNA Expression of Matrix Metalloproteinases in Human Pulp Cells
Rathvisal Khung (Hiroshima University, Japan)

OP.53  Effect of Different Irrigation Solutions on the Inhibition of Matrix Metalloproteinases 2 and 9
Tugba Turk (Ege University, Turkey)

OP.54  Withdrawn

OP.55  Beta-2 Adrenoreceptor Immunoreactivity in the Odontoblastic Layer of Human Dental Pulp
Jie Gu (Tokyo Medical and Dental University, Japan)
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<td>Comparative Evaluation of Chelating Ability of Edta and Glda on Root Canal Surface - an in Vitro Study</td>
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<td>Lom Harshan Simlote (University of the East, Philippines)</td>
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<td>Behavior Analysis of Root Canal Irrigant using Computational Fluid Dynamics (CFD) in Apical Negative Pressure Irrigation Technique</td>
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<td>Kazuto Furuhata (Tokyo Medical and Dental University, Japan)</td>
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<td>The Treatment Outcomes of Root Perforations: Retrospective Study</td>
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<td>Titalee Jirathyananatt (Mahidol University, Thailand)</td>
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<td>Development and Improvement of Cast Post Removing Instrument (Post and Core Remover)</td>
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<td>Hidekazu Konishi (Ouki Dental Clinic, Japan)</td>
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<td>Chairperson Takashi Matsuo (University of Tokushima, Japan)</td>
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<td>Apical Root Surface Organ Transformation of the Intractable Origin of Endodontic Lesion by SEM-EDX</td>
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<td>Atusi Ookubo (Nihon University, Japan)</td>
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<td>Investigation on Factors Causing Refractory Periapical Periodontitis in General Practices</td>
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<td>Mikiyo Yamaguchi (Osaka University, Japan)</td>
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<td>The Comparative Study of Various Solvent to Remove Parachloroaniline in Root Canal</td>
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<td>Roongrawee Kamolroongwarakul (Mahidol University, Thailand)</td>
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<td>Non-surgical Endodontic Treatment Approach of Large Cyst-like Periapical Lesions</td>
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<td>Ga Eun Son (Kyoungpook National University, Korea)</td>
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<td>Microbiological Diversity of Endodontic Treatment Failures by Clonal Analysis</td>
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<td>Chairperson Hisashi Anan (Fukuoka Dental College, Japan)</td>
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<td>A Novel Combinatorial Therapy with Pulp Stem Cells and G-CSF for Total Pulp Regeneration</td>
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<td>Koichiro Iohara (National Center for Geriatrics &amp; Gerontology (NCGG), Japan)</td>
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<td>Yuki Hayashi (Aichi Gakuin University, Japan)</td>
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<td>Rinrin Han (Niigata University, Japan)</td>
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<td>Shuichi Ito (Health Sciences University of Hokkaido, Japan)</td>
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Hidefumi Maeda (Kyushu University Hospital, Japan)

P.94 Clinical Evaluation of Conservative Treatment for Molar and Premolar Teeth with
Vertical Root Fractures Treated by Internal Root-dentin Adhesive Therapy
Naohiro Tominaga (Tominaga Dental Clinic, Japan)

P.95 Clinical Evaluation of Conservative Treatment for Maxillary Incisors with Vertical
and Horizontal Root Fractures Treated by Internal Root-dentin Adhesive Therapy
Mika Tanaka (Tominaga Dental Clinic, Japan)

P.96 Treatment of Extrinsic Discoloration Teeth with 15% Hydrogen Peroxide and Blue
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Citra Kusumasari (Beyoutiful-Aesthetic and Dental Care Clinic, Indonesia)

P.97 Evaluation of Surface Deposits on Resilon Cones after Disinfection with 2.5%
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Vidya Saraswathi Muliya (Manipal University, India)

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P.98 Prostaglandin Transporter Mediated Prostaglandin E2 Transport in Inflamed Dental
Pulp
Naoto Ohkura (Niigata University, Japan)

P.99 Nuclear Factor- κ B Decoy Suppresses the Development of Apical Periodontitis in
Rats
Yusuke Yamanaka (Niigata University, Japan)

P.100 Alterations of Periodontal Mechanoreceptive Afferents’ Activites by MO-induced
Pulpal Inflammation
Hiroyuki Matsumoto (Tokyo Medical and Dental University, Japan)

P.101 Treatment of Teeth Possibly with Iatrogenic Neuropathic Pain
Mitsuhiro Sunakawa (Tokyo Medical and Dental University, Japan)

P.102 Utility on Application to Apicoectomy by Er:YAG Laser
Kenji Koba (Kasuga Bild. Dental Office, Japan)

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Hyeon Cheol Kim (Pusan National University, Korea)

P.104 Application of high-frequency Radio Waves to Direct Pulp Capping
Keisuke Handa (Health Sciences University of Hokkaido, Japan)

P.105 Comparing Canal Transportation in Curved Root Canals using Reciproc and
Twisted Files
Raul Luis Aranda Garcia (Universidad Nacional Autonoma de Mexico, Mexico)

P.106 Canal Shaping using WaveOne™ Primary with Special Reciprocal Motion in
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Kana Miyara (Tokyo Medical and Dental University, Japan)

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Naoki Bando (University of Tokushima, Japan)
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Toshihiko Tominaga (Tominaga Dental Clinic, Japan)

P.109 Effects of Enamel Etching and AC-iontophoresis on the Permeability of Charged Substance through Enamel
Aierken Sailiman (Tokyo Medical and Dental University, Japan)

P.110 Shaping Ability of Single-File Reciprocating System in Simulated Curved Canals
Noriko Mutoh (Kanagawa Dental University, Japan)

P.111 The Study of Micro-crack Inhibition by Single Ni-Ti Files Shaping - the Presence of Dentinal Micro-crack in Apical Canal -
Noriko Mutoh (Kanagawa Dental University, Japan)

P.112 Ability of Optical Coherence Tomography to Identify Pulp Exposure during Access Cavity Preparation using Er:YAG Laser
Jiangfeng Ding (Tokyo Medical and Dental University, Japan)

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Chairperson Kayoko Kitajima (Nippon Dental University, Japan)

P.113 Removal of Broken Instruments using the Intra-canal Endoscope Equipped with Er:YAG Laser
Yoshito Yoshimine (Kyushu University, Japan)

P.114 The Effects of Er:YAG Laser on Cleaning Accessory Canals in Vitro
Himeka Matsumoto (Kyushu University, Japan)

P.115 Evaluation of Smear Layer Removal of Root Canals Irrigated with Different Irrigation Solutions and Er:YAG Laser
Hiromi Sato (Kyushu University, Japan)

P.116 Effects of Contamination on Sealing Ability and Microhardness of Mineral Trioxide Aggregate as a Root-end Filling Material
Yuichi Kimura (Ohu University, Japan)

P.117 Comparison of the Short Term Sealing Properties of Three Root-End Filling Materials
Hale Cimilli (Marmara University, Turkey)

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P.118 Immunolocalization of Osterix during Reparative Dentinogenesis in Human Teeth after Pulp Capping with MTA
Kunihiro Yoshiba (Niigata University, Japan)

P.119 Evaluation of Rubbing Hand Hygiene Induced Damage to Various Gloves
Masahiro Taguchi (Aisei Dental Office, Japan)

P.120 The Physical Properties of Accelerated Portland Cement Mixed with Polycarboxylate Superplasticizer for using as a Direct Pulp Capping Material
Norachai Wongkornchaowalit (Chulalongkorn University, Thailand)

P.121 Mineral Trioxide Aggregate (MTA) for Obturation of Mandibular Premolar and Molar with Open Apices following Unsuccessful Apicoectomy: a Case Report
Toshiaki Yabune (Osaka University, Japan)

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P.123 The Effect of using Patency File on Apical Transportation and Curve Straightening in Canal Preparation with the ProTaper System
Seyed Mohsen Hasheminia（Isfahan University of Medical Sciences, Iran）
P.124 Surface Smoothness Differences using Rotary Instrument with Two Kinds Preparation Techniques
Sri Kunarti Prijambodo（Airlangga University, Indonesia）
P.125 The Effect of Instrument Application Frequency on the Amount of Apically Extruded Debris using Different Instrumentation Techniques
Majida Qasim Al-Hashimi（University of Baghdad, Iraq）
P.126 Measurement of the Human Pulpal Blood Flow Velocity using a Laser Doppler Flowmeter
Motohide Ikawa（Tohoku University, Japan）
P.127 The Treatment Outcomes of Non-Surgical Root Canal Treatment Performed by Undergraduate Students：a Retrospective Study
Prattana Yodmanotham（Rangsit University, Thailand）
P.128 Association of Maxillary Sinus Part and the Origin of Endodontic Lesion by the Orthopantomography Views
Atusi Ookubo（Nihon University, Japan）

13:00 〜 14:00 Research Posters 26
Chairperson Yasushi Furuichi（Health Sciences University of Hokkaido, Japan）
P.129 Mechanism of the Differentiation of Odontoblast-like Cells by FGF-2
Ayako Washio（Kyushu Dental College, Japan）
P.130 An in Vitro Study of Silver Nanoparticle against Enterococcus faecalis
Yin Wei（Dalian Medical University, China）
P.131 Effects of Newly Developed Bioglass Cement on Cell Morphology and Viability
Aika Nakagawa（Kyushu Dental College, Japan）
P.132 Dose-dependent Effects of Resin Monomers on Antioxidant Responsive Element-mediated Transcription
Ai Orimoto（Aichi Gakuin University, Japan）
P.133 Histologic Evaluation of Effects of Emdogain Gel on Injured Rat Root Apex
Noriyoshi Matsumoto（Fukuoka Dental College, Japan）

13:00 〜 14:00 Research Posters 27
Chairperson Masaru Igarashi（The Nippon Dental University, Japan）
P.134 Odontogenic Potential of iPS and ES Cells using Decellularized Dental Pulp Matrix
Nobuaki Ozeki（Aichi Gakuin University, Japan）
P.135 Proinflammatory Cytokine Induced Matrix Metalloproteinase （MMP）-3 Regulated Cell Proliferation and Anti-apoptosis in Odontoblast-like Cells derived from iPS Cells and Dental Pulp Cells
Hideyuki Yamaguchi（Aichi Gakuin University, Japan）
P.136 Anti-inflammatory Role of Steroid-coactivator MTI-II during Bone Formation
Shizuo Tsuchiya（Kyushu Dental College, Japan）
P.137 Analysis of Thermotolerant Mechanism Induced by Continuous Mild Heat Stress on Odontoblast-like Cell Line KN-3
Takahiko Morotomi（Fukuoka Dental College, Japan）
P.138 Function of HIF (Hypoxia Inducible Factor) in Hypoxic Cultivation of Mouse iPS Cells
Koji Sugimoto (Nagasaki University, Japan)

P.139 Stainless Steel K-File Fragments Increased LL-1Beta and FGF2 Gene Expressions in Human Fibroblasts
Katrina Nacionales Garcia-de Luna (University of the East, Philippines)

13:00 〜 14:00 Research Posters 28
Chairperson Kazuhiko Nakata (Aichi Gakuin University, Japan)

P.140 Effects of Genistein on the Proliferation and Differentiation in Rat Dental Pulp Cells
Keijiro Hayashi (University of Hokkaido, Japan)

P.141 Apoptosis Model of Odontoblasts Induced by Lipopolysaccharide
Sheng-chao Wang (Fourth Military Medical University, China)

P.142 The Potency of Mesenchymal Stem Cell Derived from Adipose Tissue with Plasma Product for Odontoblast Pulp Tissue Regeneration
Anggraini Margono Dewi (University of Indonesia, Indonesia)

P.143 Localization of βig-h3 and Collagen Type I in Dental Pulp
Satoshi Monnouchi (Kyushu University, Japan)

P.144 CD-34-positive Endothelial Cells in Periapical Granulomas Express RAGE and Midkine
Osamu Takeichi (Kyushu University, Japan)

P.145 Dental Pulp Stem Cells on Bone Tissue Express Periodontal Ligament-related Gene
Shinichiro Yoshida (Kyushu University, Japan)

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Chairperson Yoshitsugu Terauchi (Private Practice, Japan)

P.146 Alternative Migration Factor, bFGF in Stem Cell Therapy for Pulp Regeneration
Norio Takeuchi (Aichi Gakuin University, Japan)

P.147 Genotoxicity and Cytotoxicity of Four Root Canal Sealers in Different Setting Times
Tatiana Rocha Oliveira (Columbia University, USA)

P.148 Regulation of BMP-signaling by Prostaglandin E₂ on Human Dental Pulp Cells
Taisuke Adachi (Nihon University, Japan)

P.149 Effects of Calcium Carbonate on Odontoblast Differentiation and Calcification Ability of Human Dental Pulp Cells
Satoshi Hirayama (Nihon University, Japan)

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Chairperson Hideki Shiba (Hiroshima University, Japan)

P.150 Involvement of Wnt Signaling in Odontoblast Differentiation Induced by BMP2
Yu Koizumi (Tokyo Medical and Dental University, Japan)

P.151 Influence of the Two Different Cryopreservation Methods to Inflammation of Dental Pulp Cells
Jisung Seo (Kyung Hee University, Korea)

P.152 Effect of Co-culture of Endothelial Cells and Pulp Cells on the Gene Expression of Angiogenic Growth Factors
Yoshiko Masuda (Showa University, Japan)

P.153 Evaluation of Rat Periodontal Ligament Cell Viability after Hypothermic Preservation under High Hydrostatic Pressure
Yoon Lee (Yonsei University Wonju College of Medicine, Korea)
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<td>Why Would You Do a CBCT Scan on This Case?</td>
<td>Misao Hattori (Hattori Dental Clinic, Japan)</td>
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<td>TC.2</td>
<td>Three Dimensional Planning for CT-Guided Endodontic Surgery and Live Demonstrations with a Model using CAD/CAM Surgical Template</td>
<td>Nobuya Sato (Minatomachi Dental Clinic/ MicroEndodontic Institute JP-05, Japan)</td>
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<td>Utilization of Micro Focus X-ray Computed Tomographic Images of Primary and Newly Erupted Permanent Teeth in Endodontics</td>
<td>Michiyo Miyashin (Tokyo Medical and Dental University, Japan)</td>
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<td>Kuniaki Yamada (Kaori Dental Clinic, Japan)</td>
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<td>The Meaning of Endodontic Triangle</td>
<td>Tamotsu Kojima (Kojima Dental Clinic, Japan)</td>
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<td>Hitoshi Ueda (Ueda Dental Clinic, Japan)</td>
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<td>Akira Amano (Amano Dental Clinic, Japan)</td>
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<td>A New Technique to Remove Posts with the Concept of Minimal Damage to the Teeth Structure</td>
<td>Yoshifumi Kinomoto (Kinomoto Dental Office, Japan)</td>
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<td>Hirofumi Kanazawa (Kanazawa Dental Clinic, Japan)</td>
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<td>Masato Yamauchi (Yoyogi Dental Clinic, Japan)</td>
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<td>Essence of the Root Canal Preparation in the Treatment of Infected Root Canals</td>
<td>Hideki Uchiyama (Machino Dental Clinic, Japan)</td>
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<td>Keisuke Takahashi (Ohu University, Japan)</td>
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<td>&quot;ScoopOut &amp; Multi-Fiberpost Technique&quot; Prevents Root Fractures: a Novel Root Canal Preparation and Filling Method</td>
<td>Akira Amakawa (Yatsugatake Dental Office/ Kanagawa Dental College, Japan)</td>
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<td>Recent Idea about the ENDO・・・? EXT・・・? Implant・・・? -40 years Experience Dental Implant-</td>
<td>Eiichi Kojima (Kojima Dental Clinic, Japan)</td>
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<td>Junsaku Kanamaru (Kanamaru Dental Clinic, Japan)</td>
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<td>Safe and Reliable Irrigation of Curved Root Canal in the Apical Area. Sonic/Oscillation Instruments + RT FILES; MANI</td>
<td>Keisuke Kanehira (Kanehira Dental Office, Japan)</td>
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<td>Masataka Yamaguchi (Aichi Gakuin University, Japan)</td>
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