# Program

## 7.22 (Sat.)

		Roor	n A (2F Chiwaki	Memorial hall)
9:00/	~ 9:5	50 Opening ce	eremony	
0:00/	~ 10:4	10 Presentatio	on (1)	Chairperson : Dr. Yoshifumi Kinomot
2503	Depart Nagasa	ment of Cariology, ki University Hiu	Regenerative Ender Unit of Translationall Dental Clinical Institute	rt of a Permanent Tooth Treated Wit odontics Using Platelet-rich Plasma Medicine, Graduate School of Biomedical Science
2503	YATSU	JGATAKE DENTA	AL OFFICE, Nagano	of dens invaginatus Oehlers' type III
2503				ment of Immature Tooth with breakage
			s, Osaka Dental Univers	sity
303		aru Dental Clinic De	partment of Cariology, Na	oses and managements of cracked vital molar gasaki University Graduate School of Biomedical Science
0:50/	~ 11:2	20 Presentatio	on (2)	Chairperson : Dr. Kazuhiko Nakat
2503	O-05	10:50-11:00		TRPV4 contributes to mineralization
			odontoblast-like ce	lls (KN-3)
				IIs (KN-3) tology, Fukuoka Dental College, Fukuoka, Japan
2503		НАТАКЕУАМА	Dentistry and Endodon	tology, Fukuoka Dental College, Fukuoka, Japan o evaluation of the new bioactive glass ceme
2503	Junko <b>O-06</b> Division Dental	HATAKEYAMA 11:00-11:10 n of Endodontics an University	Dentistry and Endodon <i>In vitro</i> and <i>in viv</i> as a direct pulp cap nd Restorative Dentistr	tology, Fukuoka Dental College, Fukuoka, Japan o evaluation of the new bioactive glass cemer pping agent y, Department of Science of Oral Functions, Kyusl
	Junko <b>O-06</b> Division Dental Kaori I	HATAKEYAMA <b>11:00-11:10</b> n of Endodontics an University Hanada	Dentistry and Endodon <i>In vitro</i> and <i>in viv</i> as a direct pulp cap nd Restorative Dentistr	tology, Fukuoka Dental College, Fukuoka, Japan o evaluation of the new bioactive glass ceme pping agent y, Department of Science of Oral Functions, Kyusl
2503	Junko <b>O-06</b> Division Dental	HATAKEYAMA <b>11:00-11:10</b> n of Endodontics an University Hanada	Dentistry and Endodon <i>In vitro</i> and <i>in viv</i> as a direct pulp cap nd Restorative Dentistr	tology, Fukuoka Dental College, Fukuoka, Japan o evaluation of the new bioactive glass ceme pping agent y, Department of Science of Oral Functions, Kyus

11:20~	11:50 Preser	ntation (3)	Chairperson : Hisashi Anan
2503	Department of Pulp Medical and Dental S	<b>instruments for glide</b> Biology and Endodontics, Divi Sciences, Tokyo Medical and Der	sion of Oral Health Sciences, Graduate School of
2503	Nakamura Dental Cl	Part4 : The differenc CWCT and other's ro inic, Three generations Sunday r	
2503	<b>O-10</b> 11 : 40-11 Department of Endo	: 50 Repeatability at lateral dontics and Periodontics, Tohoku	canal measuring using an electric apex locater    university School of Dentistry
14:15~	Chairperson : Dr. Considerations fo Department of Denti	r Proper diagnosis and trea stry, University of Ulsan, Asan M	tment planning of cracked tooth
	<b>teeth with vertica</b> Osaka University Gr Mikako Hayashi	<b>ll root fracture</b> aduate School of Dentistry	the keys to rescue endodontically treated
16:10~		<b>Hiroyuki Gomi</b> 1 Medical Research, Hiroshima U	niversity ••••••44
		Room B (7F	-)
13:00~	14:00 Poster	discussion	
2503	OSHIMURA DENTA		of intraoral apical lesions
2503	P-02 Prognosis of the Periapical Lesion Central Japan Endodontic Association SUGA YASUO		
2503	Maxillary Department of Endo	First Molar : A Case Repo dontics	nd Piezosurgery to Periapical Surgery of rt
2505	P-04 Intention Fractured Motohara Dental Clin	al Replantation of a Max ) with a bone regeneration	illary Second Premolar (Vertical Root

2503	P-05	Endodontic treatment of the left mandibular first premolar with three root canals : A case report.
		nent of Biological Endodontics, Graduate School of Biomedical & Health Sciences, Hiroshima University obuke ••••••••••••••••••••••••••••••••••••
2503	P <b>-06</b>	Comparative evaluation of shaping ability of different root canal preparation techniques performed by undergraduate students.
		ment of Pulp Biology and Endodontics, Division of Oral Health Sciences, Graduate School of l and Dental Sciences, Tokyo Medical and Dental University (TMDU)
	MAKI	Keiichiro ······ ·97
2503	P-07	Non-surgical endodontic treatment of huge periapical lesion spreading to the mandibular canal
	School	uchi Prefecture (Kudamatsu Central Hospital), Department of Periodontal Medicine, Graduate of Biomedical & Health Sciences, Hiroshima University HARA Takayoshi ••••••••98
2505	P-08	Long term observation of intentional replantation using MTA and EMD
1000	Divisio Meikai	n of Endodontics and Operative Dentistry Department of Restorative and Biomaterials Sciences University School of Dentistry
	Y Nak	amura •••••••99
2503	P-09	Dentin bridge-like structure formation in an immature permanent tooth with apical periodontitis after regenerative endodontic treatment : a case report
	School	n of Pulp Biology and Endodontics, Department of Oral Function and Restoration, Graduate of Dentistry, Kanagawa Dental University MACHI Koichiro ••••••••••••••••••••••••••••••••••••
2503	P-10	Geriatric Endodontics $\sim$ Endodontic treatment for the teeth with dental pulp calcification : A case report $\sim$
		ment of Endodontics, School of Dentistry, Aichi Gakuin University Higuchi ····································
2505	P <b>-</b> 11	Application of internal adhesive therapy and intentional replantation for maxillary molars with vertical root fractures
		ment of Endodontics, The Nippon Dental University School of Life Dentistry at Niigata IMA Kayoko ···································
2503	P-12	Formation period and clinical results of calcification at apical foramen due to calcium hydroxide application during infected root canal treatment
		e Dental Clinic
	Jun Ta	kesue •••••••103
2503	P <b>-1</b> 3	Evaluation of periapical bone defects using conventional radiography and cone- beam computed tomography
	Medica	ment of Pulp Biology and Endodontics, Division of Oral Health Sciences, Graduate School of l and Dental Sciences, Tokyo Medical and Dental University (TMDU) HARA Yuki ····································
2503		Clinical evaluation of endodontic treatment cases which have long-term progress i Dental Office
		iko Hayami •••••••105
2301		Reconsidering the medical care environment ~ Importance of positioning YASHI DENTAL CLINIC RU KOBAYASHI ·······106

	P-16	Outcomes of short-term follow-up cases after endodontic micro re-surgery in Japanese patients
		ment of Endodontics, Tokyo Dental College YOSHI Norihito ·······107
2533	0	Influence of laser tip shape on root canal orifice enlargement Bild. Dental Clinic COBA ······108
2503	P-18	Evaluation of Preparation Using the Model Block with C-shaped Root Canal Made from the STL Data of the Extracted Human Tooth ment of Endodontics, The Nippon Dental University, School of Life Dentistry at Tokyo A Miki
3101		Usefulness of endoscopy prototype to observe apical area of curved root canal model of Endodontics and Restorative Dentistry, Department of Oral Functions, Kyushu Dental University II Shinji · · · · · · · · · · · · · · · · · · ·
2503		Evaluation of Cutting Ability by Various Shaping Methods in Oval Canal ment of Endodontics, The Nippon Dental University, School of Life Dentistry at Tokyo ka Yoshida
2503		Evaluation of root canal shaping using RECIPROC direct ment of Endodontics, Nihon University School of Dentistry at Matsudo ANABE TAKAHIRO ······112
2503		Laser-activated Irrigation in a Simulated Root Canal with an Isthmus-like Structure ment of Endodontology and Operative Dentistry, Faculty of Dental Science, Kyushu University o Yoshimine ••••••••••••••••••••••••••••••••••••
2503		The comparison of shaping ability using Reciproc blue and Reciproc ment of Endodontics, Nihon University School of Dentistry at Matsudo A RYOKO
2503	Dental	Vaporized cavitation bubbles during root canal irrigation activated by Er: YAG laser : Effect of tip configuration iology and Endodontics, Department of Oral Health Sciences, Graduate School of Medical and Sciences, Tokyo Medical and Dental University O Akira
2503		Education effect of Curved-root Canal Preparation by ProGlider and ProTaper Next nent of pulp Biology and Endodontics, Graduate School of Dentistry, Kanagawa Dental University DJIMA Kaori · · · · · · · · · · · · · · · · · · ·
2503		The Study of Root Canal Demineralization and Antibacterial Effect Using Trial EDTA Irrigant nent of Pulp Biology and Endodontics, Graduate School of Dentistry, Kanagawa Dental University AKI Ryuji
2503	P-27 Departi	The study of glide path preparation by Optimum Glide Path endodontic motor nent of Pulp Biology and Endodontics, Graduate School of Dentistry, Kanagawa Dental University KI Jiro ····································
2503		Removability evaluation of dental root canal filling material (Vitapex) ENTAL CHEMICAL PRODUCTS CO., LTD. ro Nakayama

2033	P <b>-29</b> Yosimu	Research outcomes using a cordless type device the CWCT Part 3 : The relationship of guttapercha's softness and demensions and CWCT'S filling ability and microleakage ra Dental Clinic, Three generations Sunday research institute
		Nakaya ······ 120
2503	Medica	Distribution of LacZ-expressing Stem Cells in Rat Engineered Pulp Tissue ment of Pulp Biology and Endodontics, Graduate School of Medical and Dental Sciences, Tokyo l and Dental University (TMDU), Tokyo Japan & Myo Zaw
2503	P <b>-</b> 31	Effects of the alkaline extract of the leaves of sasa senanensis rehder on the rat cultured dental pulp cells.
		f Restorative and Biomaterials science, Meikai University school of Dentistry DA Yoshiko ····································
2503	P-32	Investigation of Hydorogels Used in Rat Dental Pulp Tissue Regeneration : Analysis of Anti-apoptotic Effects
	Medica	n of Cariology, Operative Dentistry and Endodontics, Niigata University Graduate School of l and Dental Sciences, Niigata Japan o Sueyama •••••••••••••••••••••••••••••••••••
2503	Meikai	Effects of Wntl0a and Ectodin on dentinogenesis of cultured rat dental pulp Cells n of Endodontics and Operative Dentistry, Department of Restorative and Biomaterials Sciences, University School of Dentistry KURA Hiroshi · · · · · · 124
0500		
2503	P-34 Division	Effect of Newly-Developed Bioactive Glass Root Canal Sealer on Periapical Tissue of Rat Molar a of Endodontics and Restorative Dentistry, Department of Science of Oral Functions, Kyushu
		University iko MOROTOMI•••••••••••••••••••••••••••••••••••
	P-35	Management of periradicular lesion originated from dens invaginatus
	Departi	ment of Conservative Dentistry, School of dentistry, Pusan National University, Yangsan, Korea ong Lee · · · · · · · · · · · · · · · · · ·
		Comparison of fatigue resistances and bending stiffness of heat-treated NiTi rotary files ment of Conservative Dentistry, School of dentistry, Pusan National University, Yangsan, Korea n Goo
	P <b>-</b> 37	Development of a Mouse Model for Pulp-dentin Complex Regeneration Research : preliminary study
		ment of Conservative Dentistry, College of Dentistry, Yonsei University, Seoul, Korea
	P-38	Evaluation of sealing ability of calcium silicate based sealer depending on canal obturation techniques
	Univers	ment of Conservative Dentistry, Gangnam Severance Hospital, College of Dentistry, Yonsei sity, Seoul, Korea
	Dong H	۲29 Xyu Yang،
		Hemisection : Saving tooth by removing hopeless half of multi-root molar ment of Conservative dentistry, Gangneung-Wonju University, Gangneung, Korea Io Lee · · · · · · · · · · · · · · · · · ·
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	100

	P-40	Intentional replantation for treatment of maxillary lateral incisor with palato- radicular groove
		nent of Conservative Dentistry, Gangneung-Wonju National University, Gangneung, Korea Hyeon Kim •••••••••••••••••••••••••••••••••••
2503	Faculty	Biocompatibility of trial phosphorylated pullulan-MTA root canal sealer in the subcutaneous connective tissue of rats nent of Periodontology and Endodontology, Division of Oral Health Science, Hokkaido University of Dental Medicine shima ········132
2503		Histological observations of Revascularization of Immature Molars in Rats nent of Endodontics, The Nippon Dental University School of Life Dentistry at Niigata TO Hanae ···································
2503		Expression of Mincle on human dental pulp tissue and rat odontoblastic cells (KN-3) and its functional analysis in odontoblastic cells ma University Graduate School, Institute of Biomedical Sciences, Department of Conservative Dentistry IIRAO
2503	Dental	Biocompatibility of New Bioglass Sealer and Bioceramic-Based Sealers for Root Canal Filling a of Endodontics and Restrative Dentistry, Department of Science of Oral Functions, Kyushu University IO Ayako
		Analysis of microflora of chronic suppurative apical periodontitis ni Tokyo Dental Clinic, Suidobashi Hospital and Chiba Hospital, Tokyo Dental College iro ASAI · · · · · · · · · · · · · · · · · · ·
		Effects of lipopolysaccharide stimulation in human dental pulp cells form hard tissue nent of Endodontics, Tokyo Dental College Sugiuchi ····································
		Response of porcine epithelial rests of Malassez to stimulation by interleukin-6 nent of Endodontics and Clinical Cariology, Tokyo Dental College ko

### Hotel Metoroporitan Edmont (Main building 1F, Crystal hall)

18:00~20:00 Reception

### 7.23 (Sun.)

### Room A (2F Chiwaki Memorial hall)

#### $13:35 \sim 14:35$ Prize selection committee

14:45~	15:05	Lecture of "Dentsply sirona prize"		
	Chairperson : Kazuo Kitamura Hasegawa Dental Clinic Makoto Hasegawa ···································			
15:15~	17:15	Symposium : "Inflection of Dental CBCT in Endodontics"		
	Chairperso	on : Masahiro Furusawa		
	Department of Oral and Maxillofacial Radiology, Tokyo Dental College			
	Tazuko Got			
	Department	of Endodontics, School of Dentistry, Aichi Gakuin University		

 $17:15 \sim 17:30$  Closing ceremony

#### Room C (12F)

#### $9:00 \sim 9:50$ Table clinic (1)-1 $\cdot 2$

2801	T-01	Initial Diagnosis
	Kantoh	Endodotic Meeting
	Tamots	su Kojima ······ ·60
2503	T-02	Matrix in Endodontics
	Penn E	ndo Study Club in Japan
	Takash	ii Umeda ••••••••••••••••••••••••••••••••••••
2503	T-03	Crown-Down Technique from root canal orifice to apical foramen by the
		customary hand-instruments.
	Ueda D	ental Clinic, Toyama
	UEDA	Hitoshi · · · · · · · 62
2503	T-04	The infected root canal treatment by the pulp inner wall surface treatment
	Oguro l	Dental Clinic, Niigata
	OGUR	O Ichiro •••••••63
2503	T-05	Endodontic treatment performed by cone-beam computed tomography and an
		operating microscope
	Division	of General Dentistry, The Nippon Dental University Hospital
	Kazuo	Kitamura ••••••••••••••••••••••••••••••••••••
2503	T-06	Clinical, actual condition of the occlusion examination which can be used
	Amano	Dental Clinic
	Akira A	Amano ••••••••••••••••••••••••••••••••••••

### $10:50 \sim 11:40$ Table clinic (2)-1 $\cdot$ 2

2599	T-07	The precise and predictable apicoectomy using Cone Beam CT and dental operating microscope
	Medical	Cooperation Hoeikai, Kinomoto Dental Office
	Osaka I	University, Graduate School of Dentistry
	KINON	10TO Yoshifumi ·······66
2503		Reverse Engineering Iontophoresis 2017 ra Dental Office
	Keisuk	e Kanehira ····································
2403		New technique for negotiation of canal 2 DA DENTAL OFFICE
	Nohirir	o Sawada ·······68
2503	T-10	Reconsidering the working length determination.
		ta Dental Cure
	Yoshio	ka Toshihiko ········69
2503	T <b>-</b> 11	One file to shape with reciprocating motion or continuous rotary motion, which is the best option ?
	-	lapan U'z dental clinic
	Toshih	iro Ushikubo ····································
2503	Owaria	Reconsider Root Canal Irrigation and disinfection sahi dental Clinic (Aichi)
	Kazuyo	oshi Tamai · · · · · · · · · · · · · · · · · · ·
12:40~	-13:3	0 Table clinic (3)-1 · 2
2503	T <b>-1</b> 3	Concentrated Growth Factors are expected as an adjuvant therapy that accelerates apical tissue regeneration in the retrograde root canal treatment.
	Minator	nachi Dental Clinic
	Nobuy	a Sato · · · · · · · · · · · · · · · · · · ·
2503	T-14	Clinical Research in Regenerative Endodontics
		ity of Texas Health Science Center at San Antonio, Department of Endodontics
	Koyo 7	Cakimoto    73
2503	T-15 Yoshiok	Endodontic relapsed cases after the completion of root canal treatment.
		mo Yoshioka····································
2599	T-16	Fabrication of low cost dental & maxillofacial 3D models with the personal 3D printer-The potential application of 3d printing technology in endodontic management-
	Departi	nent of Oral and Maxillofacial Surgery
		ni KAMIO····································
2503	T-17	Clinical considerations about lesion and focal
2000	kojima-	
	-	 Suyama76
2503	T-18	Endodontic therapy using CBCT for diagnosis and its prognosis
		o Dental Clinic Uchiyama •••••••••••••••••••••••••••••••••••