

The 29th Annual Meeting of the Japanese Society for the Temporomandibular Joint

The List of Abstracts Accepted for Poster Presentation

[Venue] Hall C (Hakone Higashi)

| Registration No.   | Presentation No. | Name        |            | Affiliation  | Title   |
|--|------------------|-------------|------------|--|---|
| <b>Jul, 17 (Sun) 13:05-14:05</b>   |                  |             |            |  |   |
| <b>1. Basic Research</b>   |                  |             |            |  | <b>Jul, 17 (Sun) 13:05-14:05</b>  |
| <b>[Chairperson] Shigeyuki Fujita ( Department of Oral and Maxillofacial surgery, School of Medicine, Wakayama medical university)</b> |                  |             |            |  |   |
| 1033   | 1-P-01           | HAYASHI     | NAOKI      | Saitama Medical UniversityDepartment of Oral and Maxillofacial Surgery, Faculty of Medicine  | Gene expression analysis of tenocytes stimulated with extension for masticatory muscle tendon-aponeurosis hyperplasia   |
| 1004   | 1-P-02           | SUMI        | Chikako    | Hiroshima UniversityDepartment of Orthodontics, Division of Dental Sciences, Biomedical Sciences Major, Hiroshima University Graduate School               | Effect of Semaphorin3A in mandibular condylar cartilage   |
| 1012   | 1-P-03           | SHINOHARA   | Takehiro   | Tokushima University Graduate School of Oral SciencesDepartment of Orthodontics and Dentofacial Orthopedics  | Role of hyaluronan metabolism in experimentally induced temporomandibular joint osteoarthritis  |
| 1032   | 1-P-04           | KASHIO      | Haruna     | Health Sciences University of HokkaidoDivision of Orthodontics and Dentofacial Orthopedics, Department of Oral Growth and Development, School of Dentistry | Interaction of fibromodulin and lumican in rat TMJ disc cells under tensile stress  |
| 1006   | 1-P-05           | SATO        | Minami     | Institute of Biomedical Sciences, Tokushima University Graduate SchoolDepartment of Orthodontics and Dentofacial Orthopedics                               | Identification of the anti-inflammatory signaling pathway in low-intensity pulsed ultrasound exposure to synovial cells   |
| 1009   | 1-P-06           | YANOSHITA   | Makoto     | Hiroshima University Graduate School of Biomedical & HealthDepartment of Orthodontics, Division of Dental Sciences, Biomedical Sciences                    | Effects of Defactinib on chondrocyte under the excessive mechanical stress  |
| <b>2. Basic Research</b>   |                  |             |            |  | <b>Jul, 17 (Sun) 13:05-14:05</b>  |
| <b>[Chairperson] Yoshiki Hamada (Department of Oral and Maxillofacial Surgery, School of Dental Medicine, Tsurumi University)</b>      |                  |             |            |  |   |
| 1047   | 1-P-07           | TSUCHIYA    | Atsuhiro   | Aichi-Gakuin University, School of Dentistry,Department of Fixed Prosthodontics  | Influence of recovery of masticatory stimulation on the mandibular condyle in the senescence-Accelerated Mouse P8   |
| 1049   | 1-P-08           | OZEKI       | Hajime     | Aichi-Gakuin UniversityDepartment of Fixed Prosthodontics School of Dentistry  | Influence of diet texture on mandibular condyle of SAMP8  |
| 1060   | 1-P-09           | SATOH       | Kaoru      | Hokkaido University Hospital,Center for Dental Clinics, Comprehensive Conservation Dentistry, Crown and Bridge Prosthodontics                              | Modulations of spontaneous brain rhythms during mechanical stimulation of periodontal membrane  |
| 1089   | 1-P-10           | Kawata      | Toshitsugu | Kanagawa dental UniversityDepartment of Oral Interdisciplinary Medicine, Division of Orthodontics  | Effects of cryopreservation with a newly-developed magnetic field programmed freezer on periodontal ligament cells  |
| K1   | 1-P-11           | Bok-Hee Kim |            | Chosun UniversityDepartment of Oral and Maxillofacial Surgery, School of Dentistry   | Bavachin inhibits RANKL-induced osteoclastogenesis through the inactivation of NFκB signaling pathway in RAW264.7 macrophage cells  |
| K2   | 1-P-12           | In-A Cho    |            | Chosun UniversityDepartment of Oral and Maxillofacial Surgery, School of Dentistry   | Biochanin-A counteracts interleukin-1β-induced catabolic effects by modulation of TLR2, MAPK, and NFκB in articular cartilage: To protect the degeneration of articular cartilage at temporomandibular joints |

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| <b>3. Fracture, Dislocation</b>  |                  |                    |   | <b>Jul, 17 (Sun) 13:05-14:05</b>  |
| <b>[Chairperson] Noriyuki Narita (Department of Removable Prosthodontics, Nihon University School of Dentistry at Matsudo)</b> |                  |                    |   |   |
| 1062   | 1-P-13           | Yoshimura BOBUHIKO | Shinshu UniversityDepartment of Oral and Maxillofacial Surgery  | clinical analysis in mandibular condylar fractures  |
| 1086   | 1-P-14           | MATSUMOTO Nobuhiko | Tokyo Dental CollegeDepartment of Oral and Maxillofacial Surgery  | Clinical study of mandibular fractures in our department  |
| 1015   | 1-P-15           | LEE Kang k wang    | Nanbu Tokushukai HospitalDepartment of Oral and Maxillofacial Surgery   | Prevention of oromandibular dystonia-associated temporomandibular joint dislocation   |
| 1023   | 1-P-16           | YONEZAWA Teruhisa  | Jikei University School of MedicineDepartment of Dentistry  | Incomplete dislocation of the temporomandibular joint in child: A Report of Two Cases   |
| 1073   | 1-P-17           | OTSUKI Yumi        | Kobe UniversityDepartment of Oral and Maxillofacial Surgery, Graduate School of Medicine                                    | Clinical study of temporomandibular joint dislocation   |
| 1094   | 1-P-18           | OGAWA Takaaki      | Kagawa UniversityDepartment of Oral and Maxillofacial Surgery, Faculty of Medicine  | New development of extraoral jaw fixing device (AGO cap®) for preventing temporomandibular joint dislocation recurrence   |
| 1092   | 1-P-19           | ISHIHAMA Takanori  | Department of Oral and Maxillofacial Surgery, Sakura General Hospital   | Clinical trials of extraoral jaw fixing device (AGO cap ) for temporomandibular joint luxation  |
| <b>4. Images, Radiology, Anatomy</b>   |                  |                    |   | <b>Jul, 17 (Sun) 13:05-14:05</b>  |
| <b>[Chairperson] Kazuya Honda (Department of Radiology, Nihon University School of Dentistry)</b>                              |                  |                    |   |   |
| 1027   | 1-P-20           | IGARASHI CHINAMI   | Tsurumi UniversitySchool of Dental Medicine, Department of Oral Radiology   | MR evidence of temporomandibular joint (TMJ) effusion with limitation of mouth opening after arthroscopic lysis and lavage  |
| 1025   | 1-P-21           | HONDA KAZUYA       | Nihon University School of DentistryDepartment of Oral and Maxillofacial Radiology  | Two cases of the diagnostic imaging of the ganglion cyst of the temporomandibular joint   |
| 1028   | 1-P-22           | KIMURA Shunsuke    | Aichi-gakuin UniversityDepartment of Oral and Maxillofacial Surgery, School of Dentistry                                    | Existence of the pneumatized articular tubercle in the Japanese   |
| K3   | 1-P-23           | Sang Yun Kim       | Seoul National University Bundang HospitalDepartment of Oral and Maxillofacial Surgery, Section of Dentistry                | Maximum Standardized Uptake Value of Tc-99m HDP Single Photon Emission Computed Tomography/Computed Tomography for the Evaluation of Temporomandibular Joint Disorder |
| 1087   | 1-P-24           | NAGAYAMA Kunihiro  | Kagoshima University,Department of Orthodontics and Dentofacial Orthopedics, Graduate School of Medical and Dental Sciences | Cerebral activation during clenching in TMD patients with masseter muscle pain: fMRI study  |

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| <b>5. Splint therapy, Occlusion, Orthodontics</b> |                  |   |            |   | <b>Jul, 17 (Sun) 13:05-14:05</b>   |
| <b>[Chairperson]</b>                              |                  | <b>Itaru Mizoguchi (Department of Orthodontics, School of Dentistry, Health Sciences University of Hokkaido)</b>          |            |   |  |
| 1005  | 1-P-25           | Hirose  | Naoto      | Hiroshima University Institute of Biomedical & Health Sciences<br>Department of Orthodontics, Applied Life Sciences                       | A case of temporomandibular disorder with occlusal disharmony caused by the inappropriate use of splint  |
| 1013  | 1-P-26           | OHMORI  | Hiroko     | Tokyo Medical and Dental University<br>Department of Orthodontic Science  | Associations among TMDs, craniofacial morphologies, premature contact, and occlusal force in female children patients with malocclusion                                  |
| 1037  | 1-P-27           | SAKUMA  | Shigemitsu | Aichi Gakuin University<br>Department of Fixed Prosthodontics, School of Dentistry  | A Case of posterior open bite improvement of chewing ability was achieved by occlusal splint therapy   |
| 1063  | 1-P-28           | SHIMADA   | Atsushi    | Medical Corporation Association of Green Dental Clinic  | TMD symptoms in a patient who has a occlusal discomfort with the chief complaint   |
| 1045  | 1-P-29           | IKEDA   | Nobuyuki   | Niigata University Graduate School of Medical and Dental Sciences<br>Division of Oral and Maxillofacial Surgery                           | A case of open bite caused by unilateral progressive condylar resorption after orthodontic treatment treated by intermaxillary traction combine with orthodontic implant |
| 1085  | 1-P-30           | KAGEYAMA  | Toru       | Matsumoto Dental University<br>Department of Orthodontics   | A case report of Maxillary protrusion with Mandibular deviation and TMD  |
| 1100  | 1-P-31           | SATO  | Mariko     | Kanagawa Dental University  | A case of posterior disc displacement successfully treated posterior open bite by traction using intermaxillary elastics   |
| 1111  | 1-P-32           | HONDA   | Kosuke     | Hyogo College of Medicine<br>Department of Dentistry and Oral Surgery   | Therapeutic approach for persistent joint pain in the patient with epilepsy  |
| <b>6. Differential Diseases of TMD</b>            |                  |   |            |   | <b>Jul, 17 (Sun) 13:05-14:05</b>   |
| <b>[Chairperson]</b>                              |                  | <b>Suguru Hamada (Department of Dentistry and Oral &amp; Maxillofacial Surgery, Kinki University Faculty of Medicine)</b> |            |   |  |
| 1007  | 1-P-33           | FUJIWARA  | Masanori   | Hyogo College of Medicine<br>Department of Dentistry and Oral Surgery   | Characteristics of significant diseases differentially diagnosed from temporomandibular disorders  |
| 1001  | 1-P-34           | WATANABE  | Masahiro   | Osaka Dental University<br>Second Department of Oral and Maxillofacial Surgery  | A case of prolonged Posterior Folding of the Retrodiscal Tissue of the temporomandibular joint that was difficulty with reposition.                                      |
| 1003  | 1-P-35           | SAI   | Yuko       | Tohoku University<br>Division of Oral and Maxillofacial Surgery<br>Department of Medicine and Surgery                                     | A case of synovial chondromatosis in the inferior joint space of the temporomandibular joint   |
| 1008  | 1-P-36           | SAITO   | Yuuki      | University of Yamanashi<br>Dental and oral Surgery course   | A case of synovial chondromatosis that temporomandibular disorder treatment was performed over for long time   |
| 1034  | 1-P-37           | HIROTANI  | Hiroaki    | Osaki Citizen Hospital<br>Dentistry and Oral Surgery  | A case of juxta-hemangioma of the temporomandibular joint produced manifestations similar to temporomandibular disorders   |
| 1057  | 1-P-38           | KATO  | Yusuke     | Niigata University Graduate School of Medical and Dental Sciences<br>Division of Reconstructive Surgery for Oral and Maxillofacial Region | Psoriatic arthritis of temporomandibular joint as a first presenting articular complaint: a case report  |

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| <b>Jul, 18 (Mon) 08:30-09:30</b>   |                  |           |         |  |  |
| <b>7. New classification of TMD, Stastical analysis①</b>   |                  |           |         |  | <b>Jul, 18 (Mon) 08:30-09:30</b>   |
| <b>[Chairperson] Tomoaki Shibuya (Hitachi, Ltd, Yokohama Health Care Center)</b>                                   |                  |           |         |  |  |
| 1017   | 2-P-01           | WATANABE  | Yuki    | Showa UniversityDivision of Temporomandibular Disorders and Orofacial Pain, School of Dentistry                              | Usefulness of alexithymia evaluation by the TAS-20 in patients with TMD.   |
| 1054   | 2-P-02           | YAMAZAKI  | Yuta    | Niigata University Medical and Dental HospitalTemporomandibular Joint Clinic   | Statistical analysis of patients with temporomandibular disorders using the new classification by the Japanese Society for Temporomandibular Joint       |
| 1067   | 2-P-03           | INOUE     | Mariko  | Keio UniversityDepartment of Dentistry and Oral Surgery, School of Medicine  | The exploration of the pathological classification of TMD patients in Keio university hospital   |
| 1072   | 2-P-04           | YUMOTO    | MEGUMI  | Saitama Medical UniversityDepartment of Oral and Maxillofacial Surgery   | Proposal of the temporomandibular joint functional evaluation score  |
| 1081   | 2-P-05           | NISHIMORI | Hideta  | Nihon University School of Dentistry at MatsudoDepartment of Oral Function and Rehabilitation                                | Reproducibility of pressurization measurement using simplified pressure algometer  |
| <b>8. New classification of TMD, Stastical analysis②</b>   |                  |           |         |  | <b>Jul, 18 (Mon) 08:30-09:30</b>   |
| <b>[Chairperson] Kazuhiro Yamada (Department of Orthodontics, Matsumoto Dental University School of Dentistry)</b> |                  |           |         |  |  |
| 1088   | 2-P-06           | IKEDA     | Hiroko  | Shizuoka-Shimizu HospitalDepartment of Oral Surgery  | Clinical Statistics for 1005 Patients in the Orofacial Pain Liaison Clinic of Shizuoka- Shimizu Hospital (The First report ) ~the Analysis of Diagnoses~ |
| 1082   | 2-P-07           | ISHIKAWA  | Kohsei  | Sakura General HospitalOral and Maxillofacial Surgery  | Clinico-statistical observantion of temporomandibular joint lesions  |
| 1083   | 2-P-08           | ABE       | Susumu  | Tokushima University Graduate SchoolComprehensive Dentistry, Institute of Biomedical Sciences                                | Clinical-statistical survey of patients with temporomandibular disorders in the TMJ Clinic, Tokushima University Hospital                                |
| 1070   | 2-P-09           | IWASA     | Akihiko | Institute of Biomedical Sciences, Tokushima University Graduate SchoolDepartment of Orthodontics and Dentofacial Orthopedics | Statistical survey of temporomandibular disorders in patients with malocclusion  |
| 1099   | 2-P-10           | TOBE      | Shoko   | Tokyo Medical and Dental University Dental HospitalTemporomandibular Joint Clinic  | The use of screening questionnaire for temporomandibular disorders in dental checkup at the junior high school   |

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| <b>9. Jaw motion, Physiology, Rehabilitation①</b>  |                  |             |          |  | <b>Jul, 18 (Mon) 08:30-09:30</b>  |
| <b>[Chairperson] Hidemichi Yuasa (Department of Oral and Maxillofacial Surgery, National Hospital Organization Toyohashi Medical Center)</b> |                  |             |          |  |   |
| 1024   | 2-P-11           | MUNAKATA    | Kanako   | Keio UniversityDepartment of Dentistry and Oral Surgery, School of Medicine,   | Attempt of measuring opening force friction in temporomandibular disorder patient -Assessment of reproducibility and the association with autonomic activity                            |
| 1029   | 2-P-12           | MAKIHARA    | Eri      | Kyushu Dental UniversityDivision of Occlusion & Maxillofacial Reconstruction   | The study of the mandibular position of oral appliance for obstructive sleep apnea patients   |
| 1040   | 2-P-13           | NARITA      | Noriyuki | Nihon UniversityDepartment of Removable prosthodontics   | Relationships between the jaw and neck muscle activities and the jaw movement pattern during chewing performance  |
| 1066   | 2-P-14           | NARITANI    | Mio      | Institute of Health Biosciences, Tokushima University Graduate SchoolDepartment of Stomatognathic Function and Occlusal Reconstruction | Posterior disk displacement- a systematic review and case report  |
| 1068   | 2-P-15           | FUJITA      | Hirohito | Ohtuski Dental Clinic  | Initial investigation into about the significance tongue pressure measurement in the temporomandibular disorder patient   |
| <b>10. Jaw motion, Physiology, Rehabilitation②</b>   |                  |             |          |  | <b>Jul, 18 (Mon) 08:30-09:30</b>  |
| <b>[Chairperson] Hironobu Sato (Section of Fixed Prosthodontics, Department of Odontology, Fukuoka Dental College)</b>                       |                  |             |          |  |   |
| 1048   | 2-P-16           | YOSHITAKE   | Hiroyuki | Graduate School, Tokyo Medical and Dental UniversityDepartment of Maxillofacial Surgery  | Development of A new mouth-opening exercise device that induces a protrusive sliding movement of the mandibular condyle and increases the hinge mobility of the temporomandibular joint |
| 1050   | 2-P-17           | YOSHITAKE   | Hiroyuki | Graduate School, Tokyo Medical and Dental UniversityDepartment of Maxillofacial Surgery  | Development of A new instrument for measurement of mouth opening  |
| 1102   | 2-P-18           | OGUMA       | Tetsushi | Aichi-Gakuin UniversityDepartment of Oral Maxillofacial Surgery,   | Osteoarthritis of mouse temporomandibular joint induced by discectomy   |
| 1053   | 2-P-19           | Yoshida     | Kazuya   | National Hospital Organization, Kyoto Medical CenterDepartment of Oral and Maxillofacial Surgery                                       | Coronoidotomy for oromandibular dystonia-related limited mouth opening: long-term follow-up   |
| 1109   | 2-P-20           | SATO        | Tamiyo   | Kawasaki Municipal HospitalDental and Oral Surgery   | Relationships between craniofacial morphology and masticatory muscle activity at rest   |
| 1110   | 2-P-21           | HIRABAYASHI | Rio      | Tsurumi University School of Dental MedicineDepartment of Fixed Prosthodontics   | Evaluation of occlusal vertical dimension with sagittal border movement and habitual mouth closing movement   |

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|---------------------------------|------------------|---|-----------|---|---|
| <b>1 1. Case report①</b>        |                  |   |           |   | <b>Jul, 18 (Mon) 08:30-09:30</b>  |
| <b>[Chairperson]</b>            |                  | <b>Kazuhiro Tominaga (Division of Maxillofacial Diagnostic and Surgical Science, Kyushu Dental College)</b> |           |   |   |
| 1019                            | 2-P-22           | TOYOHARA  | Mio       | Showa University Division of Temporomandibular Disorders and Orofacial Pain, School of Dentistry  | A case of sialodochitis fibrinosa was considered as inducing factors and aggravating factors of TMD.                                  |
| 1020                            | 2-P-23           | KANAZAWA  | Kaoru     | Health Sciences University of Hokkaido, Division of Dental Anesthesiology, Department of Human Biology and Pathophysiology, School of Dentistry | Open lock causing of the anterior displaced, deformed, perforated disk with the degenerative joint disease of Temporomandibular joint |
| 1022                            | 2-P-24           | TAKAHASHI   | Masayuki  | National Defense Medical College Department of Oral and Maxillofacial Surgery   | A case of pseudodystonia  |
| 1035                            | 2-P-25           | HUANG   | Wensu     | Kakogawa City Hospital Department of Oral and Maxillofacial Surgery   | A case of synovial osteochondromatosis of the temporomandibular joint   |
| 1039                            | 2-P-26           | CHIBA   | Masatoshi | Tohoku University Graduate School of Dentistry, Division of Oral and Maxillofacial Surgery, Department of Oral Medicine and Surgery             | Idiopathic first bite syndrome developed in diabetic patients: Nine cases   |
| 1058                            | 2-P-27           | BASUGI  | Akihiko   | Toshiba Rinkan Hospital Department of Oral and Maxillofacial Surgery  | A case of bursitis in the condylar head   |
| <b>1 2. Case report②、others</b> |                  |   |           |   | <b>Jul, 18 (Mon) 08:30-09:30</b>  |
| <b>[Chairperson]</b>            |                  | <b>Wake Hiroyuki (Midori Pediatric Dental Clinic)</b>   |           |   |   |
| 1084                            | 2-P-28           | Kamiyama  | Hirona    | Nihon University School of Dentistry at Matsudo Department of Oral Function and Rehabilitation  | Two cases of liaison psychiatry for TMD patients over a long duration   |
| 1069                            | 2-P-29           | NAGANAWA  | TAKUYA    | Tokyo Womens medical university Department of oral and maxillofacial surgery  | Three cases of intraoral somatosensory changes in patients with peripheral neuropathy   |
| 1103                            | 2-P-30           | ADACHI  | Keiji     | Kyotango City Kumihama Hospital Department of Dentistry and Oral and Maxillofacial Surgery  | Case report: A recurrent keratocystic odontogenic tumor of the mandibular head and notch  |
| 1107                            | 2-P-31           | IZUTSU  | Takashi   | Yamagata Prefectural Central Hospital, Yamagata, Japan Department of Dentistry, Oral and Maxillofacial Surgery,                                 | Osteoarthritis of the temporomandibular with joint effusion has improved long term  |
| 1108                            | 2-P-32           | Nakatsuka   | MANA      | Aka City Hospital Oral and Maxillofacial Surgery  | Two cases of recent experience synovial chondromatosis in the temporomandibular joint.  |
| 1071                            | 2-P-33           | Yokoyama  | Masaoki   | The Nippon Dental University School of Life Dentistry at Tokyo, Department of Partial and Complete Denture                                      | Analog analysis of the bio digital data recorded by a small device with wireless LAN  |
| 1074                            | 2-P-34           | NAKAMURA  | Hirota    | Showa University Department of Prosthodontics   | Development of sleep bruxism inhibition device using vibratory stimulus   |