Graduate Schools

Advanced Prosthodontics

Professor – Noriyuki Wakabayashi

Junior Associate Professor – Kousuke Nozaki, Mariko Hattori (career advancement), Mai Murase (January〜), Junichiro Wada

Assistant Professor – Kensuke Takakusaki, Hitomi Matsuno (April〜), Natsuko Murakami, Toshiki Yamazaki

Restart Postdoctoral (RPD) Research Fellowships - Yuka Kajima

Project Assistant Professor - Mihoko Haraguchi

Hospital Staff – Kohei Komine (April〜), Yoshio Kobayashi (October〜), Kazuki Nakane, Tomiharu Nagayama (〜March), Hitomi Matsuno (February〜), Kazuma Mori, Teruyuki Yoda, Ami Wakatsuki (April〜), Hiroko Tani, Miyo Tsuji (〜March), Kiko Kunisawa, Satoshi Matsui, Yuki Mouri (〜March), Azusa Fukatsu (April〜)

Speech-Language-Hearing Therapist - Keita Masaki (Speech Clinic)

Graduate Students - Mana Onda (April〜), Erika Kaneko (April〜), Yuji Uchida (〜September), Miona Utsumi (〜March), Qu Wenri, Naoyasu Kousaka, Wu Hao, Yoshio Kobayashi (〜March), Kohei Komine (〜March), Shinsuke Koyama, Jiang Mengtian, Zhiwei Zhou, Zou Shiqi, Huichuan Xu, Anna Takata, Satsuki Tanaka, Miyuki Tanimoto, Zhang Yihui, Zheng Jingpu, Ding Zhiyuan, Hiroyuki Hamanaka (April〜), Thida Phyo, Dong Jialin, Asuka Hirata, Yuki Mouri, Yang Shiyi, Bin Li (〜March), Fuyo Watanabe (April〜), Ziyi Bai (〜March), Jiangyu Wang (〜March), Fan Zhang (〜March), Nehasha Pradhan (〜September), Ahmed Sameir Mohamed Ali, Bilal Lukman Alkrayem, Menghan Miao, Arwa Hammam Melhem, Xinyu Pang, Ayaka Takada, Mana Ando (April〜), Yugo Nomura (April〜)

Part-time Special Student - Aung Aye Chan, Tatsuya Nomura (April〜), Kuenga Chode, Ami Wakatsuki (〜March), Nosizana Binti Mohd Salleh (〜September), Zuhaila Ainiwaer (October〜)

Registered Resident - Yurika Ishioka, Tetsu Sato

Designated Professor, Science Tokyo - Yuka Sumita

Clinical Professor - Masaru Yatabe

Part-time Lecturer (Faculty of Dentistry) - Yasuha Ikawa, Keigo Isoshima, Hideaki Inagawa, Shusuke Inukai, Yuki Iwaki,Takeshi Ueno, Keichiro Uchikura, Hirofumi Uchida, Hisami Okawara,Takeshi Otsubo, Masahiro Ona, Ryunosuke Kazama, Hayato Kumagai, Masato Kotake, Hirofumi Sato, Hirokazu Sato, Natsuki Suzuki, Shintaro Suzuki, Takashi Sekinishi, Yusuke Toyoshima, Koji Nagata, Kazutoshi Nakamura, Tomiharu Nagayama (April〜), Gen Nabeshima, Yoko Hayashi, Hironari Hayama, Masahiro Hirasawa, Kengo Fujiki, Ichiro Minami, Chie Watanabe (〜March), Takayuki Arai, Mahmoud Ellarousi Elbashti, Noriko Hatano, Yuko Teruyama, Haruka Fujita, Yuka Sumita, Hiroyuki Shimizu (April〜)

Part-time Lecturer (Graduated School) - Yuki Arai, Hideharu Hibi, Kazuhiro Hori, Chihiro Tanikawa, Ken Inohara

Visiting Researcher –
Ralf Kohal, Germany, 6 March-21 May 2025.

(1) Outline

Historically, our department has inherited the clinical and research backgrounds that the First Department of Prosthodontics and the Department of Masticatory Function Rehabilitation were proud of, and we specialized in

removable partial prosthodontics. After the reorganization of prosthodontic departments based on the research fields in 2021 and the acceptance of the staff from the Department of Maxillofacial Prosthetics because of its discontinuation in 2022, as the Department of Advanced Prosthodontics, now we are responsible for bridging the gap between basic sciences and clinical research on development of the prosthetic materials and technologies, as well as teaching and training dental professionals as our future human resources.

(2) Research

1. Treatment Planning, Treatment and Evaluation in Prosthodontics
2. Design Optimization of Prosthodontic Biomaterials
3. Biological Evaluation of Oral Tissues in Prosthodontic Patients
4. Educational Development in Prosthodontics

(Research Grants)
< Grants-in-Aid for Scientific Research>
Grants-in-Aid for Scientific Research(C): Noriyuki Wakabayashi, Shunsuke Inukai, Kosuke Nozaki, Mai Murase, Kimihiro Yamashita, Junichiro Wada
Grant-in-Aid for Young Scientists: Hisami Okawara, Kensuke Takakusaki, Hitomi Matsuno, Hideaki Inagawa,Yuka Kajima
AMED Translational Research Program: Mihoko Haraguchi, Mai Murase

< Private Grants>
MITSUI & CO., LTD. (Noriyuki Wakabayashi)
Tokuyama Dental Corporation (Noriyuki Wakabayashi)
Tokuyama Dental Corporation (Kosuke Nozaki)
Yamaha Corporation, Yamaha Music Foundation (Mariko Hattori)
Yamaha Corporation (Mariko Hattori)
Tokyo Metropolitan Government (Yuka Sumita)
Foundation for Promotion of Cancer Research in Japan (Mai Murase) (〜March)
Innovation Idea Contest (IIC) 2024 (Kiko Kunisawa) (〜March)
Innovation Idea Contest (IIC) 2025 (Mihoko Haraguchi) (July〜)
The Kazuchika Okura Memorial Foundation (Kosuke Nozaki)

< WISE Program>
Huichuan Xu (〜March), Bin Li (〜March), Miona Utsumi (〜March), Zhao Qian, Kohei Komine (〜March), Asuka Hirata (April〜), Shinsuke Koyama (April〜), Hiroyuki Hamanaka (April〜), Jiang Mengtian (〜September), Menghan Miao, Yuki Mouri, Ayaka Takada

(Symposium)
Symposium on supporting the balance of head and neck cancer treatment and employment: Sharing voices of patients. 1 March 2025.

(3) Education

School of Dentistry
Year 1
Introduction to Dentistry

Year 3
Tooth Carving
Introduction to Clinical Dentistry
Observation and assistance at clinic term I and II
Basic Occlusal Reconstruction
Introduction to Research article writing and Patent acquisition

Year 4

Research Project
Removable Partial Prosthodontics
Advanced knowledge and skill with occlusion
Experience learning of dental practice

Years 5 and 6
Case study
Dental Practice and Clinical Practicum for Comprehensive Patient Care (Clinical Internship)

School of Oral Health Care Sciences, School of Oral Health Care Sciences
Year 2 Prosthodontics
Years 3 and 4 Practice for Dental Hygiene Care

School of Oral Health Care Sciences, Course for Oral Health Engineering
Year 2 Removable Prosthodontics Technology

(4) Lectures & Courses

This Department offers a variety of educational courses pertaining to the specialized clinical management of tooth loss, primarily for undergraduate students at the School of Dentistry. The courses include lectures, tutorials, hands-on sessions, clinical simulations, and clinical internship instructions.
The ability to perform clinical operations on patients with tooth loss, including the skills required for medical interviews, oral examinations, diagnosis, decision making, impression making, bite registration, denture design and technology, and denture delivery and maintenance, is essential for clinical dental professionals. The objectives of our courses are to provide learning and training in contemporary removable prosthodontics and enhance the knowledge and skills of students to help them develop and flourish in their future career as dental and oral health professionals.

(5) Clinical Services & Other Works

All faculty members are assigned to treat patients at the Prosthodontics department in the Dental Hospital of the Tokyo Medical and Dental University. While the rate of tooth retention has increased in comparison with previously reported rates, the number of patients in need of a removable partial denture has increased. Our specialists primarily work on advanced cases that are referred from other departments and outside the hospital. The departmental mission also includes the development and application of new prosthodontic materials, their clinical trial, and the spread of novel and inventive knowledge to the community.

(6) Clinical Performances

The Department specializes in removable partial prosthodontics and aims to restore missing teeth and associated oral tissues; improve physiological functions such as occlusion, mastication, swallowing, and speech; maintain normal oral sensation; and restore the original appearance of individual patients. Treatment modalities, materials, and denture design are all based on the case history and chief complaints of the patients. The ultimate goal is to improve the oral health-related quality of life of patients.
The Department also manages the clinic for Maxillofacial Prosthetics and the clinic for Speech Therapy that do the prosthodontic and/or prosthetic treatment for patients with defects in oral and/or maxillofacial regions.

(7) Publications

[Original Articles]

1. Bin Li, Natsuko Murakami, Cangyou Xie, Yuki Mouri, Hitomi Matsuno, Hisami Okawara, Kazuhiro Aoki, Noriyuki Wakabayashi. Effects of tensile and compressive stress on bone resorption and formation parameters surrounding dental implants Journal of the Mechanical Behavior of Biomedical Materials. 2025.02; 165; 106928

2. Komine K, Murakami N, Wada J, Yamazaki T, Bin L, Utsumi M, Zou S, Wakabayashi N. Thermal stress behavior of monolithic zirconia crowns with different thicknesses Journal of Prosthodontic Research. 2025;

3. Utsumi M, Murakami N, Yamazaki T, Hirata A, Komine K, Li B, Takakusaki K, Wada J, Wakabayashi N. Evaluation of Fitting Accuracy of Light- and Auto-Polymerizing Reline Materials Using Three-Dimensional Measurement Techniques Polymers. 2025.01; 17(2); 201

4. Hattori M, Zhang M, Sumita YI, Wakabayashi N. Refabrication of a removable partial prosthesis using a 3D-printed record base for a patient with microstomia. Cureus. 2025.12; 17(12); e98270

5. Chugh A, Hattori M, Sikka N, Kumar A, Wakabayashi N. Student perceptions and barriers related to developing tactile knowledge of removable prostheses: A questionnaire-based study in professional institutes. Cureus. 2025.12; 17(12); e98300

6. Yuji Uchida, Atsushi Takaichi, Yuka Kajima, Hidekazu Takahashi, Noriyuki Wakabayashi. Evaluation of bonding methods on shear bond strength between cobalt-chromium and titanium alloys fabricated by selective laser melting and denture base resins. Dental Materials Journal. 2025.12; 44(6); 663-671

7. Bai Z, Han X, Sumita YI, Hattori M, Maki K, Aboelez MA, Wakabayashi N. Predicting maximum occlusal force and tongue pressure using decision tree analysis in patients diagnosed with head and neck tumors. J Prosthet Dent. 2025.11; 134(5); 2007-2015

8. Ali ASM, Hattori M, Sumita YI, Wakabayashi N. Dental and bony changes following subtotal glossectomy for cancer: A clinical report. J Prosthet Dent. 2025.11; 134(5); 1966-1971

9. Ali ASM, Hattori M, Sumita YI, Arai T, Murakami N, Wakabayashi N. Finite element simulation of two vowel changes in a male vocal tract model with an Aramany class I maxillectomy. J Voice. 2025.11;

10. Hattori M, Stadler S, Kohal RJ, Vach K, Elbashti ME, Sumita YI, Wakabayashi N. Evaluation of the accuracy of intraoral scanners for nasal digitization: an in vitro three-dimensional comparative study. Front Oral Health. 2025.11; 6; 1678778

11. Towithelertkul C, Murase M, Tamura S, Sumita YI, Wakabayashi N. Digital design of open hollow obturator framework using existing dentures: A dental technique. J Prosthet Dent. 2025.10; 134(4); 1317-1321

12. Hattori M, Hillebrecht AL, Sumita YI, Spies BC, Wakabayashi N. The use of psychoacoustic evaluation in denture adjustment: The tapping sound of an obturator prosthesis. Int J Maxillofac Prosthetics. 2025.10; 8(1); 52-54

13. Wataru Yanaka, Kosuke Nozaki, Mayuko Matsumura, Omnia Saleh, Chiharu Shin, Erika Uchida, Kiyora Komine, Mitsuaki Matsumura, Hiroyuki Miura, Kenji Fueki. Enhancement of internal fit in computer-aided design/manufacturing crowns through optimization of cutting resistance: A quantitative evaluation of feed rate and material properties. J Mech Behav Biomed Mater. 2025.10; 170; 107093

14. Li B, Murase M, Yamatani Y, Masaki K, Hattori M, Wakabayashi N. Applying digital technology to a hollow palatal augmentation prosthesis in an older adult hemiglossectomy patient: A case report. Gerodontology. 2025.09; 42(3); 429-433

15. Mouri Y, Murase M, Matsui S, Wada J, Wakabayashi N. Use of digital technology in maxillofacial prosthetic treatment of cleft lip and palate in patients with severe periodontitis: A case report. J Prosthodont Res. 2025.09;

16. Gao Y, Hattori M, Sumita YI, Wakabayashi N. Creating and analyzing digital scans of a mandibulectomy cast with simulated trismus. J Prosthet Dent. 2025.08; 134(2); 477-483

17. Alkrayem BL, Zhang F, Hattori M, Sumita YI, Wakabayashi N. In vitro evaluation of color stability of three maxillofacial silicone elastomers: Effects of soap-based disinfection. Dyes and Pigments. 2025.08; 239; 112777

18. Hattori M, Yamatani Y, Murase M, Haraguchi M, Sumita YI, Wakabayashi N. Application of digital technology in prosthetic treatment for a cleft lip and palate patient: A novel dental technique. Cureus. 2025.07; 17(7); e87298

19. Ali IE, Hattori M, Sumita YI, Wakabayashi N. Automated design prediction for definitive obturator prostheses: A case-based reasoning study. J Prosthodont. 2025.06; 34(5); 490-499

20. Ali ASM, Sumita YI, Akiyama M, Ali IE, Murakami N, Wakabayashi N. Nasal function in patients with maxillectomy using various obturator designs. J Prosthet Dent. 2025.06;

21. Sumita YI, Elbashti ME, Tani H, Mano Y, Hattori M, Wakabayashi N. Three alternative protocols for the refabrication of prosthesis: An effective way to use the current prosthesis. Cureus. 2025.06; 17(6); e85393

22. Aswehlee A, Elbashti ME, Hattori M, Sumita YI, Wakabayashi N. Heat-cured soft acrylic resin obturator for maxillary osteomyelitis rehabilitation: A patient-centered approach. Int J Maxillofac Prosthetics. 2025.06; 8(1); 17-22

23. Hattori M, Elbashti ME, Sumita YI, Wakabayashi N. Influence of playing musical instruments on geometrical face changes: 3D evaluation study. Int J Prosthodont. 2025.05; 38(3); 350-354

24. Jiang M, Nozaki K, Mokudai T, Nakano Y, Uo M, Yamashita K, Ohara S, Wakabayashi N.. Enhancing the Photocatalytic Activity and Antibacterial Efficiency of TiO2 Nanosheets via Doping with Ag, Cu, or Ce ACS Appl Nano Mater. 2025.05; 8(22); 11568-11581

25. Hattori M, Wada J, Murase M, Sumita YI, Wakabayashi N. Use of consonant evaluation for the adjustment of a maxillofacial prosthesis in a mandibulectomy patient: A case report. Cureus. 2025.05; 17(5); e83600

26. Hattori M, Tanabe G, Patzelt SBM, Schulze D, Sumita YI, Wakabayashi N. Visualization of oral function during playing a wind instrument by a lateral dental impression: a proof-of-concept investigation. Front Oral Health. 2025.05; 6; 1522642

27. Elbashti ME, Aswehlee A, Hattori M, Kaida A, Sumita YI, Wakabayashi N. A customized mono-block brachytherapy appliance for the treatment of mandibular gingival carcinoma: A case report. Int J Maxillofac Prosthetics. 2025.05; 8(1); 7-11

28. Pradhan N, Murase M, Sumita YI, Wakabayashi N. Prosthodontics rehabilitation of a patient with medication-related osteonecrosis of the jaw using digital technology. Int J Maxillofac Prosthetics. 2025.05; 8(1); 12-16

29. Zhang F, Hattori M, Sumita YI, Wakabayashi N. Color formulation algorithm of self-curing acrylic resin for the fabrication of facial prostheses. J Oral Sci. 2025.04; 67(2); 71-76

30. Murase M, Pradhan N, Sumita YI, Wakabayashi N. Use of digital technology in prosthesis fabrication for an elderly patient with a maxillectomy and severe trismus: A clinical report. J Prosthet Dent. 2025.03; 133(3); 915-919

31. Ali IE, Enomoto K, Sumita Y, Wakabayashi N. Combined digital-conventional workflow to fabricate a definitive obturator from an interim obturator for a patient with an anterior maxillectomy defect. J Prosthet Dent. 2025.03; 133(3); 920-925

32. Kosuke Nozaki, Kazuaki Hashimoto, Noriyuki Wakabayashi, Kimihiro Yamashita. Characterization and confirmation of the long lifetime of a-decade-aged hydroxyapatite ceramic electrets. Scientific Reports. 2025.03; 15(1); 9660

33. Kanae Wada, Sufyan Garoushi, Junichiro Wada, Tsutomu Iwamoto, Pekka K. Vallittu, Lippo Lassila. Mechanical and Structural Characterization of CAD-CAM Materials and Enamel of Deciduous and Permanent Teeth Dental Materials Journal. 2025.02; 44(2); 146-156

34. Sumita YI, Hagino A, Murase M, Elbashti ME, Haraguchi M, Hattori M, Wakabayashi N. Nutrition support for patients with head and neck cancer: A workshop model for dysphagia diet awareness. Health. 2025.02; 17(2); 126-137

35. Joe Iwanaga, Sergey L. Kabak, Puhan He, Yusuke Hamada, Shogo Kikuta, Yohei Takeshita, Rarinthorn Samrid, Thewarid Berkban, Norio Kitagawa, Junichiro Wada, Taku Toriumi, Yuki Matsushita, Soichiro Ibaragi, Mi-Sun Hur, Hee-Jin Kim. Evidence - Based Anatomical Terminology in Dentistry Developed by a Consortium of Experts. Clinical Anatomy . 2025.02; 38(3); 374-406

36. Wenrui Qu, Atsushi Takaichi, Yuka Kajima, Shingo Kamijo, Noriyuki Wakabayashi. Effect of build orientation on trueness and adaptation of intaglio surface of maxillary complete denture metal frameworks fabricated by selective laser melting. J Prosthodont Res. 2025.02;

37. Yoshio Kobayashi, Atsushi Takaichi, Yuka Kajima, Wenrui Qu, Noriyuki Wakabayashi. Impact of a Segmented-Scan Strategy on Residual Stress and Fit Accuracy of Dental Prostheses Fabricated via Laser-Beam Powder-Bed Fusion. J. Manuf. Mater. Process. 2025.01; 9(1); 19

38. Xu, HC; Nozaki, K; Yu, ZN; Kawashima, N; Ueno, T; Wu, HZ; Wu, H; Wakabayashi, N. Surface functionalization of titanium implants with controlled-release glutathione conjugate for antioxidant and osteogenesis JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. 2025.01; 34; 2872-2884

39. Yayoi Oishi, Kosuke Nozaki, Reina Nemoto, Yin Yue, Mayuko Matsumura, Omnia Saleh, Kenji Fueki. Finite element analysis of stress distribution in cantilever resin-bonded zirconia fixed dental prosthesis and periodontal tissue with alveolar bone loss. J Prosthodont Res. 2025.01;

40. Pradhan N, Murase M, Akiyama M, Tani H, Sumita YI, Wakabayashi N. Nutritional profiles and factors associated with the intake of certain food types in patients undergoing maxillofacial prosthetic rehabilitation: A cross-sectional study. Dent J (Basel). 2025.01; 13(1); 29

41. Yoshio Kobayashi, Atsushi Takaichi, Yuka Kajima, Wenrui Qu and Noriyuki Wakabayashi. Impact of a Segmented-Scan Strategy on Residual Stress and Fit Accuracy of Dental Prostheses Fabricated via Laser-Beam Powder-Bed Fusion Journal of Manufacturing and Materials Processing. 2025.01; 19(9); 19

42. Nozaki, K; Fujita, K; Nagai, A. In Vivo Dissolution Rate and Bone Regeneration Efficiency of Porous Carbonated Apatite Scaffolds: Comparative Study with Hydroxyapatite Scaffolds JOURNAL OF HARD TISSUE BIOLOGY. 2025; 34(2); 85-92

43. Masutani, T; Nagai, A; Yamashita, K; Nozaki, K. Enhancement of Osteoblast Proliferation via ERK Signaling When Cultured on Electrically Polarized Hydroxyapatite JOURNAL OF HARD TISSUE BIOLOGY. 2025; 34(2); 93-98

1. Junichiro Wada. Clinical Considerations for Applying Magnetic Attachments in Removable Dentures Based on Health Insurance Coverage 2025.12; 34(1); 12-20

2. Junichiro Wada. Information-sharing between dentist and dental technician to ensure the success of removable partial denture treatment Ann Jpn Prosthodont Soc. 2025.11; 17(4); 214-220

[Books etc]

1. Junichiro Wada, Noriyuki Wakabayashi. Decision-making and Clinical Techniques for Verical Dimension Increase. Quintessence Publishing, 2025.03 (ISBN : 978-4-7812-1112-1)

2. Junichiro Wada, Noriyuki Wakabayashi. Decision-making and Clinical Techniques for Verical Dimension Increase. Quintessence Publishing, 2025.09 (ISBN : 978-4-7812-1143-5)

[Misc]

1. TAKAICHI Atsushi, KAJIMA Yuka, KOBAYASHI Yoshio, DONG Jialin, LIU Yu, QU Wenrui. Laser Powder Bed Fusion of Co-Cr and Ti Alloys : A Review of Microstructure, Mechanical Properties, and Clinical Fit Accuracy of Denture Frameworks THE JOURNAL OF THE STOMATOLOGICAL SOCIETY. 2025.11; 92(2· 3); 119-129

2. Atsushi Takaichi, Yuka Kajima, Yoshio Kobyashi, Joalin Dong, Yu Liu, Wenrui Qu. Laser Powder Bed Fusion of Co-Cr and Ti Alloys : A Review of Microstructure, Mechanical Properties, and Clinical Fit Accuracy of Denture Frameworks. THE JOURNAL OF THE STOMATOLOGICAL SOCIETY. 2025.11; 92(2-3); 119-129

[Conference Activities & Talks]

1. 鄒 詩琦 , 村上 奈津子 , 恩田 まな, 山﨑 俊輝, 小峰 広平, 池田 正臣, 高橋 英和, 若林 則幸. Fatigue Performance of CAD/CAM-Fabricated PEEK and Zirconia Occlusal Rests for Removable Partial Dentures. 令和７年度 日本補綴歯科学会 東京支部学術大会 2025.12.07 東京科学大学大岡山キャンパス西９号館
2. Miyuki Tanimoto, Kensuke Takakusaki, Asuka Hirata, Erika Kaneko, Taisei Fukawa, Taiki Osawa, Akane Yaida, Akitoshi Okino, Noriyuki Wakabayashi. Development of a Plasma-Based Denture Cleaning Method Using Multi-Gas Jet Technology. The 10th International Symposium on Biomedical Engineering (ISBE2025) International Workshop on Nanodevice Technologies 2025 (IWNT2025) 2025.10.31 Hiroshima, Japan
3. Hattori M, Ando M, Yamatani Y, Obata S, Mori T. Digital fabrication of an oral appliance ‘ music splint ’ for lip irritation in a brass player. International Symposium on Performance Science (ISPS) 2025 2025.10.30 Shangyin Opera House (Shanghai, China)
4. Tanabe G, Sumita YI, Obata S, Odai T, Hattori M. A questionnaire survey to identify socio-medical issues facing female musicians: The relationship between menstruation and musical performance. International Symposium on Performance Science (ISPS) 2025 2025.10.30 Shangyin Opera House (Shanghai, China)
5. Okubo S, Ogawa T, Uezono M, Masaki K, Harazono Y, Yoda T, Moriyama K. Three-dimensional morphological changes in nasopharyngeal airway and speech function after maxillary distraction osteogenesis in patients with cleft lip and palate. The 15th International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies (CLEFT2025) 2025.10.24 Kyoto International Conference Hall (Kyoto, Japan)
6. Yuki Mouri, Junichiro Wada, Shinsuke Koyama, Noriyuki Wakabayashi, Pekka K. Vallittu, Lippo Lassila. Effect of cross linker incorporation on mechanical properties of additive manufactured occlusal splint material. The 48th Annual EPA Congress 2025.09.12 Cappadocia, Türkiye
7. Dong J, Takaichi A, Kajima Y, Koabayashi S, Wakabayashi N . The effects of heat treatments on the metal-ceramic bond strength and residual stress of Co-Cr-Mo-W alloy manufactured by laser powder bed fusion. 日本バイオマテリアル学会関西ブロック 第 20 回若手研究発表会 2025.08.02 大阪
8. Shinsuke Koyama, Junichiro Wada, Yuki Mouri, Naoyasu Kousaka, Anna Takata, Ai Hokkedo, Natsuko Murakami, Kensuke Takakusaki, Noriyuki Wakabayashi. Occlusal Contact Loss on Habitual Chewing Side Impairs Mastication. 103rd General Session & Exhibition of the IADR 2025.06.28 Centre de Convencions Internacional de Barcelona (CCIB) Plaça de Willy Brandt, 11-14, 08019 Barcelona, Spain
9. K. Takakusaki, A. Hirata, M. Tanimoto, N. Murakami, J. Wada, K. Nozaki, N. Wakabayashi. Effect of long-term aging of light-polymerized denture reline materials. . 2025 IADR/PER General Session & Exhibition 2025.06.26 BARCELONA, SPAIN
10. Zhiwei Zhou, Kosuke Nozaki, Huichuan Xu, Satsuki Tanaka, Masanao Inokoshi, Noriyuki Wakabayashi. Surface-Modified YSZ Implants with High Flexural Strength and Toughness. 2025 IADR/PER General Session & Exhibition 2025.06.25
11. Ayaka Matsumoto, Mayuko Matsumura, Ryuichirou Beniya, Kosuke Nozaki, Mitsuaki Matsumura, Kenji Fueki. Opaque Cement Color Shielding in Multilayered CAD/CAM Resin crowns. 2025 IADR/PER General Session & Exhibition 2025.06 Barcelona
12. Zhiwei Zhou, Kosuke Nozaki, Huichuan Xu, Satsuki Tanaka, Masanao Inokoshi, Noriyuki Wakabayashi. Development of Novel Zirconia: Enhancing Mechanical Properties and Biological Activity for Advanced Biomedical Applications. 日本補綴歯科学会第 134 回学術大会 2025.05.17
13. Wada J. Bacteria adhesion to additive-manufactured occlusal splint. 5th TCBC Midwinter Meeting 2025.02.12 Turku, Finland

1. Mina Takita, Kosuke Nozaki, Shiho Otake, Shinya Oishi, Taisuke Ozaki, Wataru Komada, Kenji Fueki. The effect of UV/ozone treatment on the bond strength of PEEK after thermocycling.. Annual Scientific Meeting of Japan Prosthodontic Society Tokyo Branch 2025.12.07 Tokyo
2. Takada A, Murase M, Hayashizaki N, Wakabayashi N. Induced radioactivity of dental implants in Boron Neutron Capture Therapy. 2025 Annual Scientific Meeting of Japan Prosthodontic Society, Tokyo Branch 2025.12.07 Tokyo (Japan)

3. Junichiro Wada. What's a removable partial denture?. Annual Scientific Meeting of Japan Prosthodontic Society Tokyo Branch 2025 2025.12.07 Tokyo

4. Anna Takata, Junichiro Wada, Shinya Oishi, Wataru Komada, Yuuma Nagao, Moe Tanaka, Shinsuke Koyama, Yuki Mouri, Naoyasu Kosaka, Hiroyuki Hamanaka, Noriyuki Wakabayashi. Influence of Denture Design on Cervical Strain in Abutment Teeth. The 90th Annual Meeting of the Stomatological Society, Japan 2025.12.06 Tokyo

5. Yuka Inamochi, Kenji Fueki, Junichiro Wada, Natsuko Murakami, Atsushi Takaichi, Kensuke Takakusaki, Toshiki Yamazaki, Noriyuki Wakabayashi. Effect of hybrid flexible classroom on learning efficacy and satisfaction: a randomized crossover trial. The 90th Annual Meeting of the Stomatological Society, Japan 2025.12.06 Institute of Science Tokyo

6. Haraguchi M. Know-how of Maxillofacial Prosthetic treatment and how to use in the clinic. 2025 Fukui Oral Surgery Forum 2025.11.16 Fukui (Japan)

7. Junichiro Wada. Functional Rehabilitation of a Patient with Anterior Fixed Bridge Failure Using a Removable Partial Denture with Magnetic Attachments: A Case Report. 2025.11.02

8. Murase M, Yamatani Y, Takada A, Nomura Y, Haraguchi M, Hattori M. Metal additive speech aid for cleft palate cancer patient . The 49th Annual Meeting of Japanese Cleft Palate Association 2025.10.23 Kyoto (Japan)

9. Takada A, Murase M, Tani H, Mouri Y, Nomura Y, Haraguchi M, Hattori M. Digital denture fabrication for a bilateral cleft lip and patient with complex palatal morphology. The 49th Annual Meeting of Japanese Cleft Palate Association 2025.10.23 Kyoto (Japan)

10. Sumita YI, Otomaru T, Shibui T. Digital approach to fabricate a removable prosthesis for CLP patient. The 49th Annual Meeting of Japanese Cleft Palate Association 2025.10.23 Kyoto (Japan)

11. Otomaru T, Sumita YI. Tongue findings and hematological evaluation in a CLP patient after prosthodontic treatment. The 49th Annual Meeting of Japanese Cleft Palate Association 2025.10.23 Kyoto (Japan)

12. Junichiro Wada. Current Applications and Challenges of Digital Technologies in Removable Partial Denture Treatment. The 25th General Meeting of the Japanese Association for Dental Science 2025.09.28 Yokohama

13. Hattori M. Symposium 3:. The 25th Scientific Meeting of the Japanese Association for Dental Science 2025.09.26 Yokohama (Japan)

14. Kunisawa K, Kato Y, Tanida Y, Tanioka K, Hattori M, Wakabayashi N. Fundamental study of 8K ultra-high definition imaging technology for the dental. The 2025 ITE Annual Convention 2025.08.29 Tokyo (Japan)

15. Kunisawa K. Planning Session 4: Fundamental studies and future prospects of 8K ultra-high definition imaging technology for the dental. The 2025 ITE Annual Convention 2025.08.28 Tokyo (Japan)

16. Haraguchi M, Yoshimura R, Hattori M, Kunisawa K, Murase M, Wakabayashi N. A case of continued singing career following low-dose-rate brachytherapy for tongue cancer. The 4th Annual Meeting of Japanese Performing Arts Medicine Association 2025.07.20 Tokyo (Japan)

17. Hattori M. Dentistry for musicians. The 4th Annual Meeting of Japanese Performing Arts Medicine Association 2025.07.20 Tokyo (Japan)

18. Pang X, Hattori M, Sumita YI, Ito E, Bai Z, Tanabe G, Wakabayashi N. Musical exercises improves appetite in patients with maxillofacial defects: A randomized controlled trial using the simplified nutritional appetite questionnaire. The 4th Annual Meeting of Japanese Performing Arts Medicine Association 2025.07.20 Tokyo (Japan)

19. Ando M, Hattori M, Churei H, Nishiyama A, Miyasaka A, Itoh M, Obata S, Wakabayashi N. Classification of music splints. The 4th Annual Meeting of Japanese Performing Arts Medicine Association 2025.07.20 Tokyo (Japan)

20. Hattori M. Educational Seminar: Strategies for maxillary prosthetic treatment with dentures. The 42nd Annual Meeting of Japanese Academy of Maxillofacial Prosthetics 2025.06.21 Sendai (Japan)

21. Salleh NM, Murase M, Masaki K, Yamatani Y, Tani H, Haraguchi M, Hattori M. Nasal Speaking Valve to reduce hypernasality in maxillectomy patient with obturator. The 42nd Annual Meeting of Japanese Academy of Maxillofacial Prosthetics 2025.06.21 Sendai (Japan)
22. Otomaru T, Sumita YI. Application of digital technology of the fabrication of a dento-maxillary prosthesis in a post-maxillectomy patient with edentulous maxillae: a case report. The 42nd Annual Meeting of Japanese Academy of Maxillofacial Prosthetics 2025.06.20 Sendai (Japan)
23. Sumita YI, Masaki K, Hattori M, Murase M, Haraguchi M. Balancing treatment and work among head and neck cancer survivors: a qualitative study of 12 interviews. The 42nd Annual Meeting of Japanese Academy of Maxillofacial Prosthetics 2025.06.20 Sendai (Japan)
24. Yamatani Y, Nakamura H, Kasahara T, Murase M, Haraguchi M, Hattori M. Speech aid fabrication using digital technology and metal additive manufacturing. The 42nd Annual Meeting of Japanese Academy of Maxillofacial Prosthetics 2025.06.20 Sendai (Japan)
25. Matsui S, Murase M, Haraguchi M, Tani H, Hattori M, Sumita YI. Implant-supported maxillofacial prostheses in the Clinic for Maxillofacial Prosthetics at Institute of Science Tokyo Hospital since 2012. The 42nd Annual Meeting of Japanese Academy of Maxillofacial Prosthetics 2025.06.20 Sendai (Japan)
26. Hattori M. Educational Seminar. The 16th Educational Seminar of Japan Society for Head and Neck Cancer 2025.06.16 Web
27. Haraguchi M, Yoshimura R, Nagano T, Murase M, Hattori M. Prosthetic rehabilitation for 2 patients with maxillary defect caused by late effects of Heavy Ion Radiotherapy. The 49th Annual Meeting of Japan Society for Head and Neck Cancer 2025.06.13 Sapporo (Japan)
28. Comparative evaluation of thermal stress in restorative materials. 2025.05.18
29. Uesugi H, Nakajima K, Shiga H, Komino M, Yokoyama M, Sumita YI. The new denture fabrication with digital technology for the complete denture patient needed to correct of mandibular position. The 134th Annual Meeting of the Japan Prosthodontic Society 2025.05.18 Nagasaki (Japan)
30. Hirata Y, Sumita YI, Takahashi H, Gomi H. Investigation of tensile bond strength between PEEK for removable denture and relining materials. The 134th Annual Meeting of the Japan Prosthodontic Society 2025.05.18 Nagasaki (Japan)
31. Matsumura M, Matsumoto A, Beniya R, Nozaki K, Matsumura M, Wakabayashi N, Fueki K. Colorimetric study of anterior CAD/CAM crown - Effect of metal masking in opaque blocks-. The 134th Annual Meeting of the Japan Prosthodontic Society 2025.05.18
32. Asuka Hirata,Kensuke Takakusaki,Miyuki Tanimoto,Natsuko Murakami,Junichiro Wada, Kosuke Nozaki,Noriyuki Wakabayashi. Evaluation of temporal changes in the surface properties of light-polymerized denture relining material in simulated oral environments.. The 134rd annual meeting of the Japan Prosthodontic Society 2025.05.17 Nagasaki, Japan
33. Bin Li, Cangyou Xie, Yuki Mouri, Hitomi Matsuno, Hisami Okawara, Noriyuki Wakabayashi. The effect of tensile and compressive stress on peri-implant bone resorption and bone formation parameters. The 134th Annual Meeting of the Japan Prosthodontics Society 2025.05.16 Dejima Messe, Nagasaki

[Awards & Honors]

1. Best Poster Award (Dentsply Sirona Award), Japan Prosthodontic Society, 2025.05
2. Academic Award, Japan Prosthodontic Society, 2025.05

[Others]

1. Symposium on supporting the balance of head and neck cancer treatment and employment: Sharing voices of patients, 2025.03
   Symposium on supporting the balance of head and neck cancer treatment and employment: Sharing voices of patients was hosted by the Tokyo Metropolitan Government and organized by the Maxillofacial Prosthetics team of Institute of Science Tokyo, March 1, 2025. It was supported by the Tokyo Metropolitan Government.