

CURRICULUM VITAE

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Clinic for division of Prosthodontics, Department of Dentistry,
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Education

- 1993-1999 DDS, School of Dentistry, College of Dental Medicine, Kaohsiung Medical University
- 2002-2004 MS, School of Dentistry, College of Dental Medicine, Kaohsiung Medical University
- 2012-2017 PhD, School of Dentistry, College of Dental Medicine, Kaohsiung Medical University

Licences, Certifications, Titles

- 1999 Dentistry certificate
- 2008 Specialist Committee of the Academy of Perio-Prosthodontics Taiwan
- 2008 Specialist Committee of the Association of Family Dentistry (ROC)
- 2009 Specialist Committee of the Academy of Prosthetic Dentistry (ROC)
- 2010 Specialist Committee of Taiwan Academy of Implant Dentistry
- 2017 ITI Fellow
- 2020 Specialist Committee of Taiwan Academy of Operative Dentistry (ROC)

Current position and relevant experience

- 2021 ~ Associate Professor, School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
- 2020 ~ Director of Specialist Committee of the Academy of Prosthetic Dentistry (ROC)
- 2019 ~ Chairman of Prosthodontics, Department of Dentistry, Kaohsiung Medical University Hospital
- 2019 ~ Director of Specialist Committee of Taiwan Academy of Implant Dentistry
- 2018-2019 Visiting scholar, Minnesota Dental Research Center for Biomaterials and Biomechanics, University of Minnesota, MN, USA
- 2017 ~ Director of Specialist Committee of the Academy of Perio-Prosthodontics Taiwan
- 2015-2016 Chairman of Dentistry, Kaohsiung Municipal CiJin Hospital
- 2014-2021 Assistant Professor, School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Taiwan
- 2010 ~ Visiting Staff in Department of Dentistry Kaohsiung Municipal Ta-Tung Hospital
- 2008 ~ Visiting Staff in division of Prosthodontics ,Department of Dentistry, Kaohsiung Medical University Hospital
- 2008-2010 Chairman of Dentistry, Antai Medical Care Cooperation Antai Tian-Sheng Memorial Hospital
- 2004-2008 Resident in division of Prosthodontics ,Department of Dentistry, Kaohsiung Medical University Hospital

Specialty

1. Dental Materials
2. Biomechanics
3. Prosthodontics
4. Dental Implant

References

1. Chen YF, Pan CY, Chen YC, Du JK, **Lan TH***. Accuracy and Wear Evaluation of the Customized Zirconia Guided Sleeves. *Appl. Sci.*2021; 11(19): 9035.
2. Feng CW, Hung CC, Wang JC, **Lan TH***. Accuracy of Different Head Movements of Intraoral Scanner in Full Arch of Both Maxilla and Mandible. *Appl. Sci.*2021; 11(17): 8140.
3. **Lan TH***, Chen YF, Wang YY, Chou MMC. Evaluation of the Feasibility of

NaCaPO₄-Blended Zirconia as a New CAD/CAM Material for Dental Restoration. *Materials* 2021, 14(14), 3819.

4. Chen PH, Wang YY, **Lan TH**, Chan LP, Yuan SS. Genetic and Proteinic Linkage of MAO and COMT with Oral Potentially Malignant Disorders and Cancers of the Oral Cavity and Pharynx. *Cancers(Basel)* 2021, 13(13):3268.
5. Wang CC, Fu PS, Wang JC, **Lan TH**, Lai PL, Du JK, Chen WC, Hung CC*. Comparison of optical and crystal properties of three translucent yttria-stabilized tetragonal zirconia polycrystals with those of lithium disilicate glass-ceramic material. *J Dent Sci* 2021; 16(4): 1247-1254.
6. Peng SY, Wang YY, **Lan TH**, Lin LC, Y SSF, Tang JY, Chang HW. Low Dose Combined Treatment with Ultraviolet-C and Withaferin a Enhances Selective Killing of Oral Cancer Cells. *Antioxidants(Basel)* 2020; 9(11):1120.
7. Sun TM, Lee HE, **Lan TH***. Comparing Accuracy of Implant Installation with a Navigation System (NS), a Laboratory Guide (LG), NS with LG, and Freehand Drilling. *Int J Environ Res Public Health* 2020; 17(6):2107.
8. Yang TS, Chen KK, Hung CC, Wang JC, **Lan TH**, Chang YH, Chiu KY, Du JK*. The effect of heat treatment on the properties of titanium-50 zirconium alloy. *Journal of Prosthodontics and Implantology* 2020; 9(2): 1-4.
9. Pan CY*, **Lan TH**, Liu PH, Fu WR. Comparison of Different Cervical Finish Lines of All-Ceramic Crowns on Primary Molars in Finite Element Analysis. *Materials* 2020;13(5):1094.
10. Peng SY, Hsiao CC, **Lan TH**, Yen CY, Farooqi AA, Cheng CM, Tang JY, Yu TJ, Yeh YC, Chuang YT, Chiu CC*, Chang HW*. Pomegranate extract inhibits migration and invasion of oral cancer HSC-3 cells by downregulating MMP-2/9 and EMT. *Environ Toxicol* 2020; 35(6): 673-682..
11. Chiang HJ, Liu SC, Ou YC, Sung PH, Liu ML, **Lan TH**, Lan KC. Use of the " Teaching on the Run" Program for Post-Graduate Year Residents to Improve the Quality of Papanicolaou Smears. *J Med Education* 2019; 23(4):218-226.
12. Chen FI, Lin IH, Kuo HY, Chen PH, **Lan TH***. Digital Measurement of Abrasion Volume of Dental Luting Cement at Different Locations of Natural Tooth. *Journal of Prosthodontics and Implantology* 2019; 8(4):7-13.
13. Tsai CH, Ting CC, Wu SY, Chiu JY, Chen HS, Igawa K, **Lan TH**, Chen CH, Takato T, Hoshi K, Ko Edward CC *. Clinical significance of buccal branches of the facial nerve and their relationship with the emergence of Stensen's duct: an

- anatomical study on adult Taiwanese cadavers. *Journal of Cranio-Maxillofacial Surgery* 2019; 47(11):1809-1818.
14. Sun TM, Lee HE, **Lan TH***. The influence of dental experience on a dental implant navigation system. *BMC Oral Health* 2019; 19: 222.
 15. **Lan TH***, Pan CY, Liu PH, Chou Mitch MC. Fracture resistance of monolithic zirconia crowns in important prostheses in patients with bruxism. *Materials* 2019;12(10):1623.
 16. **Lan TH***, Pan CY, Liu PH, Chou Mitch MC. Fracture resistance of monolithic zirconia crowns on four occlusal convergent abutments in implant prosthesis. *Appl. Sci.* 2019; 9:2585.
 17. Liu CT, Zhou YJ, Lai PL, Tasi CY, Lee HN, Chen JH, Du JK, Hung CC, Wang JC, **Lan TH***. Comparison of Restoration Fit and Operation Time between Clinical Conventional and Digital Impression Methods in Fabricating Fixed Dental Prostheses. *Journal of Prosthodontics and Implantology* 2019; 8(1): 7-15.
 18. Chang SC, Lai PL, Chen JH, Du JK, Wang JC, Hung CC, Lan TH*. CAD-CAM generated mouth preparation guide for a removable partial denture: a technique report. *Journal of Prosthodontics and Implantology* 2019; 8(1): 22-27.
 19. Sun TM, **Lan TH**, Pan CY, Lee HE. Dental implant navigation system guide the surgery future. *Kaohsiung J Med Sci.* 2018 Jan;34(1):56-64.
 20. Pan CT, Pan CY, Yang TL, **Lan TH**, Chiou SF, Wang BS. Innovation of Dental Interim Prosthesis-Silver Nanowires Composite Resin. *International Journal of Innovative Trends in Engineer (IJITE)*. 2018;61(40);29-35 (open access).
 21. **Lan TH**, Wang CH, Chen KK, Wang MC, Lee HE. Milling properties of low temperature sintered zirconia blocks for dental use. *Mat Sci Eng C* 2017; 73:692-699.
 22. **Lan TH**, Liu PH, Chou Mitch MC, Lee HE. Fracture resistance of monolithic zirconia crowns with different occlusal thicknesses in implant prostheses. *J Prosthet Dent* 2016; 115:76-83.
 23. Wang CL, **Lan TH**, Tzeng CW, Chang CC, Lin TC, Ko HH, Hwang WS, Huang HH, Yen FL. Densification and biocompatibility of sintering 3.0 mol% yttria-tetragonal ZrO₂ polycrystal ceramics with x wt% Fe₂O₃ and 5.0 wt% mica powders additive. *Ceram Int* 2017; 43:1809-1818.
 24. Pan CY, **Lan TH**, Chou ST, Tseng YC, Chang JZC, Chang HP. Orthodontic

- treatment for a mandibular prognathic girl of short stature under growth hormone therapy. *J Formos Med Assoc* 2013;112: 801-806.
25. Chen YF, Pan CY, Wang WC, **Lan TH***. Modern Therapy for Severe Alveolar Ridge Atrophy. *J Craniofacial Surgery* 2013; 24: e472-e475.
 26. Pan CY, Chou ST, Tseng YC, Yang YH, Wu CY, **Lan TH***, Liu BH, Chung HP. Influence of different implant materials on the primary stability of orthodontic mini-implants. *Kaohsiung J Med Sci* 2012; 28:673-678
 27. **Lan TH***, Du JK, Pan CY, Lee HE, Chung WH. Biomechanical analysis of alveolar bone stress around implants with different thread designs and pitches in the mandibular molar area. *Clinical Oral Investigation* 2012; 16 : 363-369
 28. Huang CC, **Lan TH***, Lee HE, Wang CH*. The Biomechanical Analysis of Relative Position between Implant and Alveolar Bone—Finite Element Method. *J Periodontol* 2011; 82:489-496.
 29. **Lan TH***, Pan CY, Lee HE, Wang CH, Huang HL. Bone stress analysis for various tilting of mesiodistal implants with splinted crowns in the posterior mandible: A 3D finite element study. *The International Journal of Oral & Maxillofacial Implant* 2010; 25(4):263-70.
 30. Lan KC, Huang FJ, Lin YC, Kung FT, **Lan TH**, Chang SY. Significantly superior response in the right ovary compared with the left ovary after stimulation with follicle-stimulating hormone in a pituitary down-regulation regimen. *Fertil Steril.* 2010; 93(7):2269-73.
 31. Ou YC, Lan KC, Huang FJ, Kung FT, **Lan TH**, Chang SY Comparison of in vitro fertilization versus intracytoplasmic sperm injection in extremely low oocyte retrieval cycles. *Fertil Steril.* 2010 ;93(1):96-100.
 32. Wu JH, Hsu CY, Wang CH, Lee HE, **Lan TH**, Du JK. The Difference Between Two Oral Appliances in Treating Obstructive Sleep Apnea: A Case Report. *J Formos Med Assoc* 2010; 109(2): 162-165.
 33. Wang CH, Lee HE, **Lan TH***, Igarashi Y. Method of retention control for compromised periodontal bone support abutment of conical crown retained denture. *Kaohsiung J Med Sci* 2010; 26:435-43.
 34. Du JK, Wang CH, Lee HE, **Lan TH**, Wu JH. The prosthodontic fabrication of anterior implant fixture with large angle implantation- A case report. *J. Family Dent.* 2009;4(3): 50-56.

Patents

- 2017 Name: Coloring method of zirconia green body.
Patentholders: Wang MC, Huang HH, Wang CH, Chen KK, Lee HE, Lan TH.
Application No.: I576094

Funding

- 2021 Name: The research on the sintering properties and evaluation of the feasibility of three-dimensional printing process of a new composite ceramic.
PI: Ting-Hsun Lan
Project No.: Ministry of Science and Technology of Taiwan (MOST110-2314-B-037-059)
- 2020 Name: The development and application of the novel coatings of ZrO₂ nanopowders mixed photopolymerization adhesive.
PI: Ting-Hsun Lan
Project No.: Ministry of Science and Technology of Taiwan (MOST109-2314-B-037-017)
- 2019 Name: Cyclic contact fatigue of monolithic ceramics on implant prosthesis.
PI: Ting-Hsun Lan
Project No.: Ministry of Science and Technology of Taiwan (MOST 108-2314-B-037-018)