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## 現職

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- 高雄醫學大學牙醫學系, 教授 2024-08~
- 高雄醫學大學附設中和紀念醫院牙科部復補綴牙科, 主任 2019-08~
- 高雄醫學大學附設中和紀念醫院牙科部復補綴牙科, 主治醫師 2008-08~

## 學歷

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- 高雄醫學大學牙醫學系 博士 2012-09~2017-06
- 高雄醫學大學牙醫學系 碩士 2002-09~2004-06
- 高雄醫學大學牙醫學系 學士 1993-09~1999-06

## 經歷

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- 高雄醫學大學牙醫學系, 副教授 2021 ~ 2024
- 高雄醫學大學附設中和紀念醫院牙科部復補綴牙科, 主任 2019 ~
- 美國明尼蘇達大學 MDRCBB, 參訪學者 2018 ~ 2019
- 高雄市立旗津醫院牙科, 主任 2015 ~ 2016
- 高雄醫學大學牙醫學系, 助理教授 2014 ~ 2021
- 高雄市立大同醫院牙科, 主治醫師 2010 ~ 2016
- 安泰醫療社團法人安泰醫院牙科, 主任 2008 ~ 2010
- 高雄醫學大學附設中和紀念醫院牙科部復補綴牙科, 主治醫師 2008 ~
- 高雄醫學大學附設中和紀念醫院牙科部復補綴牙科, 住院醫師 2004 ~ 2008

## • 研究專長及領域

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- 牙科材料
- 生物力學
- 牙科補綴學
- 植體學

## 著作目錄

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### 期刊論文

1. Chen IH, Lin CH, Lee MK, Chen TE, **Lan TH**, Chang CM, Tseng TY, Wang T, Du JK\*. Convolutional-neural-network-based radiographs evaluation assisting in early diagnosis of the periodontal bone loss via periapical radiograph. *J Dent Sci* 2024; 19(1): 550-559.
2. Liu CT, Chen JH, Du JK, Hung CC, **Lan TH\***. Accuracy comparison of scan segmental sequential ranges with two intraoral scanners for maxilla and mandible. *J Dent Sci* 2024; 19(1): 466-472.
3. Lin WQ, Pan CY, Chen PH, Liu CT, Hung CC, **Lan TH**. Trueness of intraoral scanning for different tooth-size arch-length deficiencies. *J Dent Sci* 2024; 19(1): 397-403.
4. Fu PS, Tseng FC, **Lan TH**, Lai PL, Chen CH, Chen JH, Liu CT, Chen WC\*, Hung CC\*. Immediate implant placement with and without provisionalization: A comparison of a one-year longitudinal study. *J Dent Sci* 2023; 18(3): 1361-1367.
5. Liu CT, Lai PL, Fu PS, Wu HY, **Lan TH**, Huang TK, Hsiang-Hua Lai E\*, Hung CC\*. Total solution of a smart shade matching. *J Dent Sci* 2023; 18(3):1323-1329.
6. Fu PS, **Lan TH**, Lai PL, Chen CH, Chen JH, Wang CJ, Liu CT, Chen WC\*, Hung CC\*. Implant stability and marginal bone level changes: A 2-year prospective pilot study. *J Dent Sci* 2023; 18(3): 1272-1279.
7. Lai PL, Yeh CT, Fu PS, Chen JH, **Lan TH**, Wang JC, Chen WC, Hung CC\*. Investigation on the effect of recasting palladium-silver alloy by argon arc vacuum pressure casting process. *J Dent Sci* 2023; 18(2): 730-738.
8. **Lan TH\***, Alex S. L. Fok, Hung CC, Du JK, Liu CT, Chen JH. Stress analysis and risk of failure during clenching in ceramic assembly models: 3-dimensional finite element analysis. *J Dent Sci* 2023; 18(2): 791-800.
9. Chang IC, Hung CC, Du JK, Liu CT, Lai PL, **Lan TH\***. Accuracy of intraoral scanning methods for maxillary Kennedy class I arch. *J Dent Sci* 2022; 18(2): 747-753.
10. Peng SY, Tang JY, **Lan TH**, Shiau JP, Chen KL, Jeng JH, Yen CY, Chang HW. Oxidative-Stress-Mediated ER Stress Is Involved in Regulating Manoalide-Induced Antiproliferation in Oral Cancer Cells. *Int J Mol Sci*. 2023; 24(4): 3987.
11. Peng SY, Yen CY, **Lan TH**, Jeng JH, Tang JY, Chang HW. Combined Treatment (Ultraviolet-C/Physapruin A) Enhances Antiproliferation and Oxidative-Stress-Associated

Mechanism in Oral Cancer Cells. *Antioxidants (Basel)*. 2022; 11(11):2227.

12. Cheng KC, Liu PH, Chen HS, **Lan TH\***. Stress distribution of four-unit implant-supported fixed partial prosthesis with different numbers and positions of fixtures in maxilla anterior region-3D FEA. *J Med Biol Eng* 2022; 42: 526-533.
13. Lai PL, Lee MC, Liu CT, Fu PS, **Lan TH**, Wang JC, Hung CC. The influence of cone beam computed tomography on IRIS-100 implant navigation system. *J Dent Sci* 2022; 17(3): 1307-1313.
14. Yuan SF, Hung AC, Hsu CW, **Lan TH**, Su CW, Chi TC, Chang YC, Chen YK, Wang YY. CD44 Mediates Oral Squamous Cell Carcinoma-Promoting Activity of MRE11 via AKT Signaling. *J Pers Med* 2022; 12(5):841.
15. **Lan TH\***, Chen PH, Fok ASL, Chen YF. Contact fracture test of monolithic hybrid ceramics on different substrates for bruxism. *Dent Mater* 2022; 38(1):44-56.
16. 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.
17. 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.
18. **Lan TH\***, Chen YF, Wang YY, Chou MMC. Evaluation of the Feasibility of NaCaPO<sub>4</sub>-Blended Zirconia as a New CAD/CAM Material for Dental Restoration. *Materials* 2021, 14(14), 3819.
19. Chen PH, Wang YY, **Lan TH**, Chan LP, Yuan SS. Genetic and Proteomic Linkage of MAO and COMT with Oral Potentially Malignant Disorders and Cancers of the Oral Cavity and Pharynx. *Cancers(Basel)* 2021, 13(13):3268.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.

26. 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.
27. 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.
28. 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.
29. Sun TM, Lee HE, **Lan TH\***. The influence of dental experience on a dental implant navigation system. *BMC Oral Health* 2019., 17;19(1):222.
30. **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.
31. **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.
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41. 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.
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46. 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.
47. 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.
48. **藍鼎勳**。植體固定補綴物的生物力學。 *鼎友臨床牙醫學會季刊* 2009;15(1): 6.

## 研究計劃

序號	計畫名稱	補助或委託機構	執行期限	執行情形	經費總額	計畫內擔任的工作
1	年長者缺牙狀況及咬合力與腦神經心理學之關聯性(2/3) KMUH112-2R73	高醫附院獎勵型研究計畫	113/01/01-113/12/31	進行中	250,000	計畫主持人
2	智能科技改變牙科醫療:打造創新智慧醫療產業整合2.0 牙科醫院(1/3) NSTC 112-2622-8-037-001 -IE	國家科學及技術委員會	112/07/01-113/12/31	進行中	11,000,000	共同主持人
3	年長者缺牙狀況及咬合力與腦神經心理學之關聯性(1/3) KMUH111-1R71	高醫附院獎勵型研究計畫	112/01/01-112/12/31	結案	150,000	計畫主持人
4	年長者缺牙狀況及咬合力與腦神經心理學之關聯性 MOST111-2314-B-037-043-MY3	國家科學及技術委員會	111/08/01-114/07/31	進行中	3,930,000	計畫主持人
5	不同擁擠程度牙弓在光學取模後的精準度比較 MOST 111-2813-C-037-036-B	國家科學及技術委員會-111 年度大專學生研究計畫	111/07/01-112/02/28	結案	48,000	計畫主持人 / 指導老師
6	評估數位製作金屬堆疊雙重冠之義齒製作準確度與可行性 BX-02-10-14-111	國家科學及技術委員會南部科學園區管理局	111/02/01-112/01/31	結案	2,910,000	計畫主持人

序號	計畫名稱	補助或委託機構	執行期限	執行情形	經費總額	計畫內擔任的工作
7	新式複合陶瓷之燒結性質研究及應用於三維積層製造之可行性評估 KMUH110-0R75	高醫附院獎勵型研究計畫	111/01/01-111/12/31	結案	200,000	計畫主持人
8	新式複合陶瓷之燒結性質研究及應用於三維積層製造之可行性評估 MOST110-2314-B-037-059	國家科學及技術委員會	110/08/01-111/07/31	結案	950,000	計畫主持人
9	Stress distribution on imitating natural tooth ceramic assembly bruxism models- 3D finite element analysis. MOST110-2813-C-037-025-B	國家科學及技術委員會-110 年度大專學生研究計畫	110/07/01-111/02/28	結案	48,000	計畫主持人 / 指導老師
10	SimEx 教育系統及 IRIS 植牙導航系統國際臨床試驗計畫 BX-02-02-02-110	國家科學及技術委員會南部科學園區管理局	110/03/01-111/02/28	結案	2,400,000	共同主持人
11	氧化鋁奈米粉體混合光聚合黏著劑之新式塗料開發及應用 KMUH109-9R79	高醫附院獎勵型研究計畫	110/01/01-110/12/31	結案	250,000	計畫主持人

序號	計畫名稱	補助或委託機構	執行期限	執行情形	經費總額	計畫內擔任的工作
12	氧化鋯奈米粉體混合光聚合黏著劑之新式塗料開發及應用 MOST109-2314-B-037-017	國家科學及技術委員會	109/08/01~ 110/07/31	結案	1,000,000	計畫主持人
13	透過數位影像相關法建構出高分子(透明)牙齒矯正器材材料特性分析系統 NSYSUKMU 109KN005	中山-高醫產學合作研究補助計畫	109/06/15- 110/06/14	結案	100,000	計畫主持人
14	植體陶瓷補綴的疲勞破裂模式 KMUH108-8R68	高醫附院獎勵型研究計畫	109/01/01- 109/12/31	結案	250,000	計畫主持人
15	比較混合不同比例之磷酸鈉鈣對二氧化鋯之材料性質的影響 NSYSUKMU109-P003	109 年中山高醫合作研究計畫	109/01/01- 109/12/31	結案	165,000	計畫主持人
16	植體陶瓷補綴的疲勞破裂模式 MOST 108-2314-B-037-018	國家科學及技術委員會	108/08/01~ 109/07/31	結案	1,020,000	計畫主持人
17	數位化遠距牙科補綴臨床療程服務計畫 CZ-01-01-05-105	國家科學及技術委員會南部科學工業園區管理局	105/11/01~ 106/10/31	結案	2,120,000	計畫主持人
18	產學合作計畫-二氧化鋯-磷鈉鈣石複合材料的研製及其在牙科的應用 MOST105-2622-E-037-004-CC3	國家科學及技術委員會	105/11/01~ 106/10/31	結案	645,520	計畫主持人



序號	計畫名稱	補助或委託機構	執行期限	執行情形	經費總額	計畫內擔任的工作
19	牙科用途的低溫燒結氧化鋁瓷塊的切銷性質比較 KMUH103-3T12	高醫院內計畫	104/01/01~ 104/12/31	結案	350,000	計畫主持人
20	以 BOTOX® 保妥適® 治療咬肌肥厚 191622-130	台灣愛力根藥品股份有限公司	103/07/11~ 106/06/31	結案	2,360,130	協同主持人
21	植體支臺齒的銳角程度對氧化鋁牙冠的抗裂強度分析 NSYSUKMU103-P003	高醫-中山合作計畫	103/01/01~ 103/12/31	結案	180,000	計畫主持人