王彥雄 教授

Professor Yan-Hsiung Wang, Ph.D.

Current position：

Professor, School of Dentistry, College of Dental Medicine

Director, Division of Academia-Industrial Cooperation, Office for Operation of Industry and University Cooperation

Deputy Director, Orthopaedic Research Center

Kaohsiung Medical University

E-mail：yhwang@kmu.edu.tw

TEL: 07-3121101 ext. 2156

Education and Training：

PhD. National Taiwan University Institutes of Molecular Medicine and Clinical Medicine
MS. Tunghai University Department of Biology
BS. Tunghai University Department of Biology

Experience：

Kaohsiung Medical University School of Dentistry Associate Professor
Kaohsiung Medical University School of Dentistry Assistant Professor
Kaohsiung Medical University Orthopaedic Research Center Postdoctoral Fellow

Major Awards:

1. 2019 The 16th National Innovation Award of Taiwan Government
2. 2020 The 17th National Innovation Award of Taiwan Government
3. 2015~2023 KMU Outstanding Research Awards

參與重要計畫:

NO	計畫名稱	補助單位	計畫編號	起迄日期
1	研發高骨誘導與抗菌之羥基磷灰石聚氨酯多孔型泡棉骨材(3/3)	國科會(原科技部)	NSTC112-2314-B-037-114-MY3	114/8/1 115/7/31
2	研發高骨誘導與抗菌之羥基磷灰石聚氨酯多孔型泡棉骨材(2/3)	國科會(原科技部)	NSTC112-2314-B-037-114-MY3	113/8/1 115/7/31
3	研發高骨誘導與抗菌之羥基磷灰石聚氨酯多孔型泡棉骨材(1/3)	國科會(原科技部)	NSTC112-2314-B-037-114-MY3	112/8/1 115/7/31
4	去細胞化腎臟移植動物功效與體內 3D 生物支架之技術開發	產學合作		112/10/1 114/3/31
5	研發具軟骨分化的聚氨酯多孔型泡棉應用於軟骨重建	國科會產學合作計畫(原科技部)	NSTC 112-2622-B-037-003-	112/11/1 113/10/31

6	研發具軟骨分化的聚氨酯多孔型泡棉應用於軟骨重建	國科會產學合作計畫-廠商配合款(原科技部)	NSTC 112-2622-B-037-003-	112/11/1 113/10/31
7	低溫大氣電漿處理之紅藜脂質萃取物在牙周病的應用	高醫屏科大	NPUST-KMU-111-P006	111/1/1 111/12/31
8	研發促進骨生成之聚氨酯多孔型泡棉骨材	國科會(原科技部)	MOST111-2314-B-037-045	111/8/1 112/7/31
9	112 年度大專學生研究計畫-魏立耘(口衛 3)	大專學生研究計畫及博士後	NSTC112-2813-C-037-045-B	112/7/1 113/2/29

Papers

著作(近五年內已發表著作之題目、刊物名稱、起迄頁次、刊出年份)

1. Fang-Hsuan Ku, Ping-Ho Chen, Je-Kang Du, Yan-Hsiung Wang (2024, Jan). Water temperature for fabrication of autopolymerizing polymethyl methacrylate (PMMA) interim fixed restoration affects cytotoxicity and residual methyl methacrylate (MMA). J Dent Sci. 2024 Jan;19(1):124-129, 19(1):124-129. 本人為通訊作者.
2. Hing-Ger Lau, Jun-Shen Huang, Hsiu-Wen Chien, Yan-Hsiung Wang, Shih-Fu Ou (2024, Jan). Preparation of a Zn/hydroxyapatite/chitosan composite coating with an antibacterial ability and cytocompatibility on a NiTi alloy. Progress in Organic Coatings, 186, 108050.
3. Chi-Hua Chang, Ching-Ping Lin, Yuk-Kwan Chen, Yu-Fang Hsiao and Yan-Hsiung Wang (2023, Oct). Simvastatin Attenuates Areca Nut Extract-Induced Subdermal Fibrosis in Mice by Targeting TGF-β Signaling Pathways. Curr. Issues Mol. Biol., 45(11), 8622-8632. 本人為通 訊作者.
4. Chiu-Fang Chen, Szu-Hsien Chen, Rong-Fu Chen, Keng-Fan Liu, Yur-Ren Kuo, Chih-Kuang Wang, Tzer-Min Lee and Yan-Hsiung Wang (2023, Aug). A Multifunctional Polyethylene Glycol/Triethoxysilane-Modified Polyurethane Foam Dressing with High Absorbency and Antiadhesion Properties Promotes Diabetic Wound Healing. Int. J. Mol. Sci., 24(15), 12506. 本人為通訊作者.
5. Lin Kang, Ai-Lun Yang, Chao-Han Lai, Tsan-Ju Chen, Sung-Yen Lin, Yan-Hsiung Wang, Chau-Zen Wang, Edward M Conway, Hua-Lin Wu, Mei-Ling Ho, Je-Ken Chang, Chung-Hwan Chen, Tsung-Lin Chen (2023, May). Chondrocyte Thrombomodulin Protects against Osteoarthritis. International Journal of Molecular Sciences, 24(11), 9522.
6. Shih-Fu Ou, Yan-Hsiung Wang, Hong-Min Huang, Chin-Fu Chen (2023, Mar). Effects of superelasticity and shape memory ability of NiTi-based alloys on deposition efficiency of ultrasonic-assisted coating. Journal of Alloys and Compounds, 937, 168189.
7. Tzu-Yu Song, Yan-Hsiung Wang, Hsiu-Wen Chien, Ching-Hou Ma, Chia-Lin Lee, Shih-Fu Ou (2022, Dec). Synthesis of cross-linked chitosan by calcium phosphate as long-term drug delivery coating with cytocompatibility. Progress in Organic Coatings, 173, 107162. 本人為第一作者.
8. Kuo-Lung Tung, Su-Zhen Wu, Chun-Chuan Yang, Hong-Yi Chang, Chun-Sheng Chang, Yan-Hsiung Wang, Bu-Miin Huang, Yu-Yan Lan (2022, Oct). Cordycepin Induces Apoptosis through JNK-Mediated Caspase Activation in Human OECM1 Oral Cancer Cells. Evidence-Based Complementary and Alternative Medicine, 2022,1842363. 本人為通訊作者.
9. Hsin-Chiao Chou, Sung-Yen Lin, Liang-Yin Chou, Mei-Ling Ho, Shu-Chun Chuang, Tsung-Lin Cheng, Lin Kang, Yi-Shan Lin, Yan-Hsiung Wang, Chun-Wang Wei, Chung-Hwan Chen, Chau-Zen Wang (2022, Sep). Ablation of Discoidin Domain Receptor 1 Provokes an Osteopenic Phenotype by Regulating Osteoblast/Osteocyte Autophagy and Apoptosis. Biomedicines, 10(9), 2173.
10. Tien-Ching Lee, Hui-Ting Chen, I-Chun Tai, Li-Ting Kao, Ming-Hsin Hung, Chung-Hwan Chen, Yin-Chih Fu, Yan-Hsiung Wang, Chih-Ming Kao, Je-Ken Chang, Mei-Ling Ho (2022, Aug). Anabolic Effects of a Novel Simvastatin Derivative on Treating Rat Bone Defects. BIOMEDICINES, 10(8):1915.
11. Cheng-Hsiang Kuo, Ban-Hua Zhang, Shang-En Huang, Jong-Hau Hsu, Yan-Hsiung Wang, Thi

Tuyet Ngan Nguyen, Chao-Han Lai, Jwu-Lai Yeh (2022, Apr). Xanthine Derivative KMUP-1 Attenuates Experimental Periodontitis by Reducing Osteoclast Differentiation and Inflammation. Front Pharmacol, 13, 821492. DOI: 10.3389/fphar.2022.821492.

12. Ming-Hong Lin, Fang-Yu Fan, Cheng Hsien Kuo, Liang-Wei Lin, Kuang-Kuo Wang, Chin-Fu Chen, Yan-Hsiung Wang, Shih-Fu Ou (2022, Feb). Nanostructured hydroxyapatite coatings on NiTi shape memory alloys by ultrasonic mechanical coating and armouring. Surface and Coatings Technology, 431,127998.
13. Ji-Hua Lee, Su-Chii Kong, Chia-Hsin Chen, Ying-Chun Lin, Kun-Tsung Lee, and Yan-Hsiung Wang (2021, Oct). The Effects of Photobiomodulation on Bone Defect Repairing in a Diabetic Rat Model. International Journal of Molecular Sciences, 22(20): 11026. 本人為通訊作者.
14. Shyi-Tien Chen, Hsiu-Wen Chien, Chih-Yu Cheng, Hui-Min Huang, Tzu-Yu Song, Yi-Cheng Chen, Chien-Hui Wu, Yi-Huang Hsueh, Yan-Hsiung Wang, Shih-Fu Ou (2021, Oct). Drug-release dynamics and antibacterial activities of chitosan/cefazolin coatings on Ti implants. Progress in Organic Coatings, 159, 106385. 本人為通訊作者.
15. Ming-Hong Lin, Yan-Hsiung Wang, Cheng-Hsien Kuo, Shih-Fu Ou, Pin-Zhen Huang, Tzu-Yu Song, Yi-Cheng Chen, Shyi-Tien Chen, Chien-Hui Wu, YiHuang Hsueh, Fang-Yu Fan (2021, Apr). Hybrid ZnO/chitosan antimicrobial coatings with enhanced mechanical and bioactive properties for titanium implants. Carbohydrate Polymers, 257:117639. 本人為第一作者.
16. Che-Wei Lin, Yu-Feng Su, Chih-Yun Lee,Lin Kang, Yan-Hsiung Wang, SungYen Lin, Chih-Kuang Wang (2021, Feb). 3D printed bioceramics fabricated using negative thermoresponsive hydrogels and silicone oil sealing to promote bone formation in calvarial defects. Ceramics International, 47(4), 5464-5476.
17. Min-Hsuan Chiang, Kun-Tsung Lee, Chia-Hsin Chen, Ker-Kong Chen, YanHsiung Wang (2020, Oct). Photobiomodulation therapy inhibits oral submucous fibrosis in mice. Oral Diseases , 26(7):1474-1482. 本人為通訊作者.
18. Chou HC, Chen CH, Chou LY, Cheng TL, Kang L, Chuang SC, Lin YS, Ho ML, Wang YH, Lin SY, Wang CZ. (2020, Sep). Discoidin Domain Receptors 1 Inhibition Alleviates Osteoarthritis via Enhancing Autophagy. International Journal of Molecular Sciences, 21(19):6991.
19. Chou LY, Chen CH, Chuang SC, Cheng TL, Lin YH, Chou HC, Fu YC, Wang YH, Wang CZ. (2020, Sep). Discoidin Domain Receptor 1 Regulates Runx2 during Osteogenesis of Osteoblasts and Promotes Bone Ossification via Phosphorylation of p38. International Journal of Molecular Sciences, 21(19):7210.
20. GUO-CHUNG DONG, TZN-YUAN MA, CHI-HAN LI, CHIH-YING CHI, CHAO-MING SU, CHIH-LING HUANG, YAN-HSIUNG WANG, TZERMING LEE (2020, Aug). A Study of Drynaria Fortunei in Modulation of BMP-2 Signalling by Bone Tissue Engineering. TURKISH JOURNAL OF MEDICAL SCIENCES, 50(5):1444.
21. Kuan-Yu Chiu, Ker-Kong Chen, Yan-Hsiung Wang, Feng-Huei Lin, Jian-Yuan Huang (2020, Jul). Formability of Fe-doped bioglass scaffold via selective laser sintering. Ceramics International, 46 (10): 16510.
22. Yan-Hsiung Wang, Chun-Chung Liao, Cheng-Hsien Kuo, Xiang-Han Huang, Shyi-Tien Chen, Chien-

Hui Wu, Yi-Huang Hsueh, Shih-Fu Ou (2020, May). Controlled aggregation of Ag nanoparticles on oxide templates on nitinol by electrodeposition. Materials Letters , 267:127531. 本人為第一作者..

23. Chih-Ling Huang,Wei Fang, Bo-Rui Huang, Yan-Hsiung Wang, Guo-Chung Dong and Tzer-Min Lee (2020, Apr). Bioactive Glass as a Nanoporous Drug Delivery System for Teicoplanin. Applied Sciences, 10: 2595.
24. Yan-Hsiung Wang, Chun-Chung Liao, Yi-Cheng Chen, Shih-Fu Ou*, Che-Yu Chiu (2020, Mar). The feasibility of eco-friendly electrical discharge machining for surface modification of Ti: A comparison study in surface properties, bioactivity, and cytocompatibility. Materials Science & Engineering C Materials for Biological Applications, 108:110192. 本人為第一作者.
25. Chen PH, Chuang LY, Wu KC, Wang YH, Shieh TY, Sheu JJ, Chang HW, Yang CH. (2019, Aug). Application of simulation-based CYP26 SNP-environment barcodes for evaluating the occurrence of oral malignant disorders by odds ratiobased binary particle swarm optimization: A case-control study in the Taiwanese population. PLoS One, 14(8):e0220719.
26. Lee KD, Chiang MH, Chen PH, Ho ML, Lee HZ, Lee HE, Wang YH. (2019, Jul). The effect of low-level laser irradiation on hyperglycemia-induced inflammation in human gingival fibroblasts. Lasers in Medical Science, 34(5):913-920. 本人為通訊作者.
27. Wang CZ, Wang YH, Lin CW, Lee TC, Fu YC, Ho ML, Wang CK. (2018, Dec). Combination of a Bioceramic Scaffold and Simvastatin Nanoparticles as a Synthetic Alternative to Autologous Bone Grafting. International Journal of Molecular Sciences, 19(12): 4099.
28. Wang YH, Wu JY, Kong SC, Chiang MH, Ho ML, Yeh ML, Chen CH. (2018, Apr). Low power laser irradiation and human adipose-derived stem cell treatments promote bone regeneration in critical-sized calvarial defects in rats. PLoS One, 13(4):e0195337. 本人為第一作者.
29. Tien-Ching Lee, Yan-Hsiung Wang, Shih-Hao Huang, Chung-Hwan Chen, MeiLing Ho, Yin-Chih Fu, Chih-Kuang Wang (2018, Mar). Evaluations of clinical grade bone substitute-combined simvastatin carriers to enhance bone growth: In vitro and in vivo analyses. Journal of Bioactive and Compatible Polymers, 33 (2): 160-177. 本人為第一作