

2025 年骨研中心專利及論文發表

(ORC patent and paper publication in 2025)

(2025)獲證專利 (Certified patent) 2 件

1. 台灣專利案『一種骨釘螺孔定位裝置』 / 專利證號：I866799 (高醫編號：111002-TW) , 2024.12.11 通知獲證 (傅尹志、蘇宇喬、李天慶、王彥雄、何美冷、陳崇桓、高俐婷)
2. 台灣專利案『預防或治療骨關節炎的凝血調節速與 miRNA』 (中華民國案號：113116868) , 2025.12.05 通知獲證 (鄭琮霖、陳崇桓、張瑞根)

(2025) Publication 共 38 篇

1. The future of osteoarthritis treatment: exploring the potential of exosomes from adipose tissue-derived stem cells : a scoping review (Pin-Han Huang, Sung-Yen Lin, Chung-Hwan Chen, Yin-Chih Fu, Tien-Ching Lee) Bone & Joint Research, 2025 Dec 4;14(12):1092-1108
2. Real-world persistence and compliance of denosumab versus alendronate among postmenopausal women with osteoporosis in Asia-Pacific (Tang Ching Lau, Dong-Gune Chang, Chung-Hwan Chen, et al.) J Bone Miner Metab., 2025 Nov 19
3. Letter to the Editor: Factors That Increase the Risk of Prosthetic Joint Infection Within 90 Days After THA and TKA: A Nationwide Population-based Study (Szu-An Jou, Chia-Hao Hsu) Clinical Orthopaedics and Related Research, 2025 Dec 8
4. Reconsidering Patellofemoral Outcomes in Medially Stabilized Total Knee Arthroplasty: The Role of Implant Design and Rotational Strategy in Kinematic Alignment (Chia-Hao Hsu) Arthroplasty Today, 2025 Nov 3:36:101895
5. Letter Regarding “Risk of Early Manipulation in Cemented versus Cementless Total Knee Arthroplasty: An Analysis of the American Joint Replacement Registry” (Chia-Hao Hsu) Journal of Arthroplasty, 2025 Dec;40(12):e79-e80
6. Reevaluating periarticular injection for pain control in total knee arthroplasty

(Tien-Yu Fu, Chia-Hao Hsu) Knee, 2025 Nov 15:S0968-0160(25)00270-4

7. Letter regarding "High Altitude Is an Independent Risk Factor for Postoperative Venous Thromboembolism Following Primary Total Knee Arthroplasty: A Large Database Study" (Tien-Ching Lee) Journal of Arthroplasty, 2025 May;40(5):e40-e41
8. Letter to the Editor: Standardized Intraoperative Robotic Laxity Assessment in TKA Leads to No Clinically Important Improvements at 2 Years Postoperatively: A Randomized Controlled Trial (Yu-Hsien Chen, Chia-Hao Hsu) Clinical Orthopaedics and Related Research, 2025 Oct 9
9. Roles of basic fibroblast growth factor, stem cells from dental pulp and apical papilla in the repair and regeneration of dental pulp and other tissues/organs (Pin-Hsuan Wu, Yan-Hsiung Wang, et al.) Journal of Dental Sciences, 2025 Oct;20(4):2066-2075
10. Impact of Time Since Diagnosis and Age on Fracture Risk in Young Adults With Type 1 and Type 2 Diabetes (Tien-Ching Lee, Sung-Yen Lin, Chung-Hwan Chen, Pei-Shan Ho) Kaohsiung Journal of Medical Sciences, 2025 Sep 27:e70112
11. Impact of Denosumab Adherence on Renal Function and Mortality Rates in Type 2 Diabetes Patients With Osteoporosis (Yu-Chuan Chan, Jian-Chih Chen, Sung-Yen Lin, et al.) Kaohsiung Journal of Medical Sciences, 2025 Oct 9:e70124
12. Amelioration of Post-traumatic Osteoarthritis by Iontophoretic Liposomal Strontium Ranelate Collaborated with Low-Intensity Pulsed Ultrasound in Rats (Chung-Hwan Chen, Syu-Lun Lin, et al.) International Journal of Molecular Sciences, 2025 Sep 10;26(18):8815
13. Letter Regarding "Increased Waist Circumference Is Associated With Severe Postoperative Medical Complications Following Total Knee Arthroplasty: Understanding Waist Circumference and Relation to Body Mass Index" (Yu-Hsien Chen, Chia-Hao Hsu) Journal of Arthroplasty, 2025 Nov;40(11):e69-e70
14. Umbilical cord mesenchymal stem cells derived extracellular vesicles enhance chondrocyte function by reducing oxidative stress in chondrocytes (Che-Wei Wu, Yao-Hui Huang, et al.) International Journal of Molecular Sciences, 2025 Aug 8;26(16):7683
15. Cohort Profile: Taiwan Kidney Outcome (TAKO) and Taiwan Kidney Outcome

omics (TAKOO) cohorts (Ping-Hsun Wu, Ming-Yen Lin, et al.) International Journal of Epidemiology, 2025 Aug 18;54(5):dyaf152

16. Effect of human adipose stem cell-derived mitochondrial transplantation on the activity of chronically injured anterior cruciate ligament cells (Hon Lok Lo, Yao-Hui Huang, et al.) Bone Joint Res, 2025 Sep 19;14(9):805-819
17. Letter to the Editor: To What Degree Do Patients' and Clinicians' Ratings of Appropriateness of TKA Align, and Were Expected Outcomes Associated With Those Ratings? (Chia-Hao Hsu) Clinical Orthopaedics and Related Research, 2025 Sep 3
18. Clinical impact of pharmacogenetic risk variants in a large chinese cohort (Chun-Yu Wei, Ming-Shien Wen, et al.) Nat Commun, 2025 Jul 9;16(1):6344
19. Empagliflozin protected kidney function in CKD rat through suppressing hypoxic and fibrotic signalings mediated inflammation and EMT (Chih-Chao Yang, Jui-Ning Yeh, et al.) Histol Histopathol, 2025 Jun 18:18953
20. miR-708-5p Attenuates Osteoarthritis Progression via Multi-Target Modulation of the NOX4/NF-κB Axis and Cartilage Homeostasis (Shih-Hao Huang, Zi Miao Liu, et al.) Cartilage, 2025 Jul 30:19476035251361679
21. Empagliflozin protected kidney function in CKD rat through suppressing hypoxic and signalings mediated inflammation and EMT (Chih-Chao Yang, Jui-Ning Yeh, et al.) Histol Histopathol, 2025 Jun 18:18953
22. Engagement and Stress Concentration Evaluation of a Novel Two-Part Compression Screw: A Preliminary Finite Element Analysis (Chia-Hao Hsu, Chih-Kuang Wang, et al.) Bioengineering (Basel), 2025 May 1;12(5):483
23. Modification of a Two-Part Cancellous Locking Screw: A Pilot Study on Increasing Resistance to Axial Pullout Strength (Chia-Hao Hsu, Nin-Chieh Hsu, et al.) Bioengineering (Basel), 2025 Apr 23;12(5):444
24. Roles of basic fibroblast growth factor, stem cells from dental pulp and apical papilla in the repair and regeneration of dental pulp and other tissues/organs (Pin-Hsuan Wu, Yan-Hsiung Wang, et al.) Journal of Dental Sciences, Available online 29 May 2025
25. Novel minimally invasive carpal tunnel release using a specialized surgical kit: a prospective multi-center case series (Hsuan-Fu Chen, Shun-Min Chang, et al.) BMC Musculoskelet Disord, 2025 Apr 8;26(1):346

26. Asia-Pacific consensus for the management of osteoporosis in men (Chun-Feng Huang, Cheng-Jung Ho, Chung-Hwan Chen, et al.) *Osteoporos Int Osteoporos Int*. 2025 Jul;36(7):1105-1114.

27. Skyline view versus intraoperative 3D fluoroscopy for dorsal screw protrusion identification following volar plating in the treatment of distal radial fracture (Chih-Hsuan Wung, Wen-Chih Liu, et al.) *J Orthop Surg Res*, 2025 Feb 22;20(1):190

28. Comparisons of miRNA profiles of exosomes derived from human iPSCs, ADSCs and BMSCs and effects on chondrocyte function (Ling-Hua Chang, Shu-Chun Chuang, Chung-Hwan Chen, Mei-Ling Ho, et al.) *Bone & Joint Research Bone Joint Res*. 2025 Aug 18;14(8):696-712

29. Psychometric Properties of the QuickDASH in Patients with Neck Pain (Lue YJ, Cheng KI, Lin CL, Chen CH, Lu YM) *J Clin Med*., 2025 Feb 14;14(4):1266

30. Association studies of vasoactive genes and preeclampsia in taiwan (Yang ML, Chang FM, Wu MH, Chen CH, Cheng TL, Kang L) *Placenta*, 2025 Mar 6;161:14-22

31. Comment on 'Beyond the scoreboard: Coaches' UV-related skin cancer knowledge in outdoor sports' (Luo-Wei Chan, Shih-Hao Huang, Jian-Chih Chen, Chia-Hao Hsu) *J Eur Acad Dermatol Venereol*., 2025 Feb 6

32. Cell Cycle Interruption and Apoptosis Induction by Dinaciclib in Oral Squamous Cell Carcinoma: Mechanistic Insights and Therapeutic Potential (Muhammet Oner, Yu-Chiao Cheng, Yan-Hsiung Wang, et al.) *International Journal of Molecular Sciences* (Accepted)

33. G-protein-coupled estrogen receptor-1 facilitates chondrocyte proliferation in pubertal epiphyseal growth plate via PTHrP/Ihh regulation (Ya-Shuan Chou, Sung-Yen Lin, Chung-Hwan Chen, Mei-Ling Ho, Je-Ken Chang) *Bone & Joint Research*, 2025 Jul 1;14(7):589-600

34. Silanized acrylic graphene oxide nanocomposite reinforced mechanically tunable GelMA/HAMA printable bio-ink for adipose-derived stem cells differentiated mature smooth muscle cells (Pavanchandh Atturu, Su-Shin Lee, Chih-Kuang Wang, et al.) *Biomaterials Advances*, Available online 6 February 2025, 214226