



林松彥 副教授

Associate Professor Sung-Yen Lin, Ph.D.

現職：

高雄市立岡山醫院 骨科 主治醫師/主任

高雄醫學大學 學士後醫學系 副教授

通訊地址：807 高雄市十全一路 100 號

E-mail: tony8501031@gmail.com

Education and Training：

高雄醫學大學 醫學院 醫學系 學士

高雄醫學大學 醫學院 醫學研究所 博士

Experience：

高雄醫學大學附設醫院 骨科部關節重建科 主任

高雄醫學大學醫學系 骨科 助理教授

高雄醫學大學附設醫院 骨科部關節重建科 主治醫師

高雄市大同醫院委托私立財團法人高雄醫學大學經營 骨科/主治醫師

高雄市二聖骨科醫院 骨科 主治醫師

高雄醫學大學 中和紀念醫院 骨科總住院醫師

高雄醫學大學 中和紀念醫院 骨科住院醫師

Major Awards:

1. 中華民國骨科醫學會-優秀論文-佳作
2. 第十七屆國家新創獎 - 新創精進獎-「創新陶瓷積層製造技術」
3. 2020 年專利獲證優良獎

近五年內執行及申請中之研究計畫

計畫名稱	計畫內擔任的工作	起訖年月	補助或委託機構	執行情形	經費總額
探討在退化性關節炎病程中雌性素G(GPER-1)蛋白所扮演的角色與軟骨保護效果之機制研究 112-2314-B-037 -095 -	計畫主持人	2023/08/01 至 2024/07/31	國科會	執行中	1,077,000
比較人類多潛能幹細胞外囊泡(hiPSC-Exos)與 hiPSC 誘導分化之間葉幹細胞外囊泡(iMSC-Exos)應用於退化性關節炎治療之研究(112-2314-B-037-097-MY3)	共同主持人	2023/08/01 至 2026/07/31	國科會	執行中	3,795,000
幹細胞之細胞外囊泡應用於修復骨骼、軟骨、肌肉、皮膚之再生醫學研究 - 研究幹細胞細胞外囊泡應用於嚴重骨缺損的再生醫學(2/3)(112-2314-B-037-013-)	共同主持人	2023/08/01 至 2024/07/31	國科會	執行中	1,200,000
積層製造 3D 生物陶瓷顱骨鑽孔蓋骨移植替代物(II)(112-2622-B-037-001-)	共同主持人	2023/08/01 至 2024/07/31	國科會	執行中	9,150,000
應用干擾盤基蛋白接受體 1(DDR1)訊息傳遞於退化性關節炎的治療及機制探討- 第三四年 111-2314-B-037 -056 -	計畫主持人	2022/08/01 至 2023/07/31	國科會	已結案	926,000
幹細胞之細胞外囊泡應用於修復骨骼、軟骨、肌肉、皮膚之再生醫學研究--研究幹細胞細胞外囊泡應用於嚴重骨缺損的再生醫學(1/3) 111-2314-B-037 -106 -	共同主持人	2022/08/01 至 2023/07/31	國科會	已結案	1,200,000
探討 DDR1 在椎間盤退化所扮演的角色(110-2314-B-037-029-MY3)	共同主持人	2021/08/01 至 2024/07/31	科技部	執行中	4,140,000
應用干擾盤基蛋白接受體 1(DDR1)訊息傳遞於退化性關節炎的治療及機制探討-第二年(110-2314-B-	主持人	2021/08/01 至 2022/07/31	科技部	執行中	900,000

037-025-)					
應用干擾盤基蛋白接受體 1(DDR1) 訊息傳遞於退化性關節炎的治療 (109-2314-B-037-026-)	主持人	2020/08/01 至 2021/07/31	科技部	執行中	1,295,000
孔洞漸層之客製化海綿骨置換體開發 - 孔洞漸層之客製化海綿骨置換體開發(3/3)(108-2218-E-110-001-)	共同主持人	2019/08/01 至 2020/07/31	科技部	已結案	7,160,000
研究盤基蛋白結構域受體 1 在脊椎椎間盤發育之調節機制(108-2314-B-037-059-MY3)	共同主持人	2019/08/01 至 2022/07/31	科技部	執行中	4,260,000
孔洞漸層之客製化海綿骨置換體開發 - 孔洞漸層之客製化海綿骨置換體開發(2/3)(107-2218-E-110-003-)	共同主持人	2018/08/01 至 2019/07/31	科技部	已結案	8,000,000
孔洞漸層之客製化海綿骨置換體開發 - 孔洞漸層之客製化海綿骨置換體開發(1/3)(106-3114-E-110-003-)	共同主持人	2017/09/01 至 2018/07/31	科技部	已結案	7,855,000
利用軟骨細胞特異性盤基蛋白接受體 1(Ddr1)基因剔除鼠研究退化性關節炎之病因以釐清 Ddr1 基因在退化性關節炎進展的角色探討(106-2314-B-037-050-MY3)	共同主持人	2017/08/01 至 2020/07/31	科技部	已結案	5,478,000

期刊論文

1. Bilayer osteochondral graft in rabbit xenogeneic transplantation model comprising sintered 3D-printed bioceramic and human adipose-derived stem cells laden biohydrogel. Lee CY, Nedunchezian S, Lin SY, Su YF, Wu CW, Wu SC, Chen CH, Wang CK. (2023, Nov).. J Biol Eng., 27;17(1):74.
2. Treatment Persistence and Medication Switch Associated with Subsequent Fractures after Osteoporotic Fractures. Lin SY, Chen WJ, Ku CK, Chen YM, Chen CH, Chien LN. J Clin Endocrinol Metab. 2023 Aug 1;dgad449. (First author)
3. Chondrocyte Thrombomodulin Protects against Osteoarthritis. Kang L, Yang AL, Lai CH, Chen TJ, Lin SY, Wang YH, Wang CZ, Edward M. Conway, Wu HL, Ho ML, Chang JK, Chen CH, Cheng TL. Int J Mol Sci., 30;24(11):9522.
4. Minimum 5-Year Follow-Up Assessment of Volar Plate Interposition Arthroplasty for Post-Traumatic Osteoarthritis in Proximal Interphalangeal Joints. Chang CC, Lin SY, Lu CK, Jupiter JB, Fu YC, Liu WC.
5. J Clin Med. 2023 Jul 18;12(14):4760. In Vivo Degradation Behavior of Magnesium Alloy for Bone Implants with Improving Biological Activity, Mechanical Properties, and Corrosion Resistance. Jian SY, Lin CF, Tsai TL, Wang PH, Chen CH, Lin SY, Tseng CC. Int J Mol Sci. 2023 Jan 13;24(2):1602. (Corresponding author)
6. Diagnostic accuracy of algorithms to define incident and second hip fractures: A Taiwan validation study. Fu SH, Yu PY, Li CY, Hung CC, Lee CC, Chen HY, Tai TW, Hwang JS, Yang RS, Chiang H, Lin SY, Wu CH, Liao LC, Chuang CJ, Wu CY, Chang CY, Lee MT, Chen CH, Wang CY. J Formos Med Assoc. 2023 Jun 21;S0929-6646(23)00206-1. doi: 10.1016/j.jfma.2023.05.037. Online ahead of print.
7. Statin use in patients with type 2 diabetes has lower risk of hip fractures: A Taiwan national population-based study. Lee TC, Chen JC, Lin SY, Ho PS, Chen CH, Fu YC, Chang JK, Ho ML. Diabetes Metab Res Rev. 2023 Mar;39(3):e3603. doi: 10.1002/dmrr.3603. Epub 2023 Jan 25.
8. Bone-Targeting Nanoparticles of a Dendritic (Aspartic acid)₃-Functionalized PEG-PLGA Biopolymer Encapsulating Simvastatin for the Treatment of Osteoporosis in Rat Models. Lin CW, Lee CY, Lin SY, Kang L, Fu YC, Chen CH, Wang CK. Int J Mol Sci. 2022 Sep 11;23(18):10530. doi: 10.3390/ijms231810530.
9. The Role of Autophagy in Osteoarthritic Cartilage. Kao WC, Chen JC, Liu PC, Lu CC, Lin SY, Chuang SC, Wu SC, Chang LH, Lee MJ, Yang CD, Lee TC, Wang YC, Li JY, Wei CW, Chen CH. Biomolecules. 2022 Sep 23;12(10):1357.
10. Ablation of Discoidin Domain Receptor 1 Provokes an Osteopenic Phenotype by Regulating Osteoblast/Osteocyte Autophagy and Apoptosis. Chou HC, Lin SY, Chou LY, Ho ML, Chuang SC, Cheng TL, Kang L, Lin YS, Wang YH, Wei CW, Chen CH, Wang CZ. Biomedicines. 2022 Sep 2;10(9):2173. doi: 10.3390/biomedicines10092173
11. Treatment patterns of long-dose-interval medication for persistent management of osteoporosis in Taiwan. Lin SY, Chen YM, Chen WJ, Li CY, Ku CK, Chen CH, Chien LN. Arch

- Osteoporos. 2022 Jul 15;17(1):94. doi: 10.1007/s11657-022-01125-6. (First author)
12. Comparing the Efficacy of Intra-Articular Single Platelet-Rich Plasma (PRP) versus Novel Crosslinked Hyaluronic Acid for Early-Stage Knee Osteoarthritis: A Prospective, Double-Blind, Randomized Controlled Trial. Wang YC, Lee CL, Chen YJ, Tien YC, Lin SY, Chen CH, Chou PP, Huang HT. *Medicina (Kaunas)*. 2022 Aug 1;58(8)
 13. The Role of Mitochondrial Metabolism, AMPK-SIRT Mediated Pathway, LncRNA and MicroRNA in Osteoarthritis. Liu HY, Chang CF, Lu CC, Wu SC, Huang B, Cheng TL, Lin SY, Ho CJ, Lee MJ, Yang CD, Wang YC, Li JY, Liu PC, Wei CW, Kang L, Chen CH. *Biomedicines*. 2022 Jun 22;10(7):1477. doi: 10.3390/biomedicines10071477. PMID: 35884782 Free PMC article. Review.
 14. Predicting the Poor Clinical and Radiographic Outcomes after the Anatomical Reduction and Internal Fixation of Posterior Wall Acetabular Fractures: A Retrospective Analysis. Lin SY, Ho CJ, Liu WC, Chen JK, Tu HP, Lee TC, Chang JK, Chen CH, Lu CC. *J Clin Med*. 2022 Jun 6;11(11):3244. doi: 10.3390/jcm11113244. (First author)
 15. The Effects of a Patient-Specific Integrated Education Program on Pain, Perioperative Anxiety, and Functional Recovery following Total Knee Replacement. Ho CJ, Chen YT, Wu HL, Huang HT, Lin SY. *J Pers Med*. 2022 Apr 29;12(5):719. doi: 10.3390/jpm12050719. (First author)
 16. Kidney Function Change and All-Cause Mortality in Denosumab Users with and without Chronic Kidney Disease. Wu PH, Lin MY, Huang TH, Lee TC, Lin SY, Chen CH, Kuo MC, Chiu YW, Chang JM, Hwang SJ. *J Pers Med*. 2022 Jan 31;12(2):185. doi: 10.3390/jpm12020185.
 17. Impact of Wedge Effect on Outcomes of Intertrochanteric Fractures Treated with Intramedullary Proximal Femoral Nail. Yen SH, Lu CC, Ho CJ, Huang HT, Tu HP, Chang JK, Chen CH, Lin SY. *J Clin Med*. 2021 Oct 30;10(21):5112. doi: 10.3390/jcm10215112. (Corresponding author)
 18. Hybrid versus total sublaminar wires in patients with spinal muscular atrophy undergoing scoliosis surgery. Chou SH, Li WW, Lu CC, Lin KL, Lin SY, Shen PC, Tien YC, Huang HT. *BMC Musculoskelet Disord*. 2021 Oct 11;22(1):867. doi: 10.1186/s12891-021-04737-0.
 19. A New Strategy for Rapid Diagnosis of the Source of Low Back Pain in Patients Scheduled to Undergo Treatment with Cooled Radiofrequency Ablation. Chou SH, Lu CC, Lin SY, Shen PC, Liu ZM, Chih WH, Shih CL. *Diagnostics (Basel)*. 2021 Oct 1;11(10):1822. doi: 10.3390/diagnostics11101822. PMID: 34679520 Free PMC article.
 20. Intravenous Tranexamic Acid Reduces Blood Loss and Transfusion Volume in Scoliosis Surgery for Spinal Muscular Atrophy: Results of a 20-Year Retrospective Analysis. Chou SH, Lin SY, Wu MH, Tien YC, Jong YJ, Liang WC, Lu YM, Shih CL, Lu CC. *Int J Environ Res Public Health*. 2021 Sep 22;18(19):9959. doi: 10.3390/ijerph18199959.
 21. Pain Control Affects the Radiographic Diagnosis of Segmental Instability in Patients with Degenerative Lumbar Spondylolisthesis. Chou SH, Lin SY, Shen PC, Tu HP, Huang HT, Shih CL, Lu CC. *J Clin Med*. 2021 Sep 2;10(17):3984. doi: 10.3390/jcm10173984. PMID:

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22. Chen CH, Cheng TL, Chang CF, Huang HT, Lin SY, Wu MH, Kang L. Raloxifene Ameliorates Glucosamine-Induced Insulin Resistance in Ovariectomized Rats. *Biomedicines*. 2021 Aug 30;9(9):1114. (SCI, 99/311/BIOCHEMISTRY & MOLECULAR BIOLOGY)
23. Chou SH, Lin SY, Shen PC, Tu HP, Huang HT, Shih CL, Lu CC. Pain Control Affects the Radiographic Diagnosis of Segmental Instability in Patients with Degenerative Lumbar Spondylolisthesis. *J Clin Med*. 2021 Sep 2;10(17):3984. (SCI, 35/315/MEDICINE, RESEARCH & EXPERIMENTAL)
24. Chen CH, Kang L, Chang LH, Cheng TL, Lin SY, Wu SC, Lin YS, Chuang SC, Lee TC, Chang JK, Ho ML. Intra-articular low-dose parathyroid hormone (1-34) improves mobility and articular cartilage quality in a preclinical age-related knee osteoarthritis model. *Bone Joint Res*. 2021 Aug;10(8):514-525. (SCI, 17/119/ORTHOPEDICS)
25. Tseng HJ, Lo HL, Lin YC, Liu WC, Lin SY, Chou PH, Lu CC Analyze the Differential Rates of Anterior Cruciate Ligament Injuries Between Men and Women by Biomechanical Study of Single-Leg Landing in Badminton. *Indian J Orthop*. 2021 May 21;55(Suppl 2):409-417. (SCI, 79/119/ORTHOPEDICS)
26. Wu YZ, Huang HT, Ho CJ, Shih CL, Chen CH, Cheng TL, Wang YC, Lin SY. Molecular Weight of Hyaluronic Acid Has Major Influence on Its Efficacy and Safety for Viscosupplementation in Hip Osteoarthritis: A Systematic Review and Meta-Analysis. *Cartilage*. 2021 Jun 10:19476035211021903. (Accepted).
27. Chen CH, Cheng TL, Chang CF, Huang HT, Lin SY, Wu MH, Kang L. Raloxifene Ameliorates Glucosamine-Induced Insulin Resistance in Ovariectomized Rats. *Biomedicines*. 2021 Aug 30;9(9):1114. (SCI,69/188/MEDICINE, GENERAL & INTERNAL).
28. Chen CH, Kang L, Chang LH, Cheng TL, Lin SY, Wu SC, Lin YS, Chuang SC, Lee TC, Chang JK, Ho ML. Intra-articular low-dose parathyroid hormone (1-34) improves mobility and articular cartilage quality in a preclinical age-related knee osteoarthritis model. *Bone Joint Res*. 2021 Aug;10(8):514-525. (SCI, 17/119/ORTHOPEDICS)
29. Wu SC, Chang CH, Chang LH, Wu CW, Chen JW, Chen CH, Lin YS, Chang JK, Ho ML. Simvastatin Enhances the Chondrogenesis But Not the Osteogenesis of Adipose-Derived Stem Cells in a Hyaluronan Microenvironment. *Biomedicines*. 2021 May 17;9(5):559.
30. Wu YZ, Huang HT, Cheng TL, Lu YM, Lin SY, Ho CJ, Lee TC, Hsu CH, Huang PJ, Huang HH, Li JY, Su YD, Chen SC, Kang L, Chen CH*. Application of microRNA in human osteoporosis and fragility fracture: A systemic review of literatures. *Int J Mol Sci*. 2021 May, 22(9):5232. (SCI,65/218/ CHEMISTRY, MULTIDISCIPLINARY)
31. Jian SY, Aktug SL, Huang HT, Ho CJ, Lin SY, Chen CH, Wang MW, Tseng CC. The Potential of Calcium/Phosphate Containing MAO Im-planted in Bone Tissue Regeneration and Biological Characteristics. *Int J Mol Sci*. 2021 Apr 29;22(9):4706. (SCI,65/218/ CHEMISTRY, MULTIDISCIPLINARY)
32. Yang CD, Chuang SC, Cheng TL, Lee MJ, Chen HT, Lin SY, Huang HT, Ho CJ, Lin YS, Kang L, Ho ML, Chang JK, Chen CH*. An Intermediate Concentration of Calcium with Antioxidant

Supplement in Culture Medium Enhances Proliferation and Decreases the Aging of Bone Marrow Mesenchymal Stem Cells. *Int J Mol Sci.* 2021 Feb 20;22(4):2095.(SCI,65/218/CHEMISTRY, MULTIDISCIPLINARY)

33. Huang HT, Cheng TL, Yang CD, Chang CF, Ho CJ, Chuang SC, Li JY, Huang SH, Lin YS, Shen HY, Yu TH, Kang L, **Lin SY**, Chen CH*. Intra-Articular Injection of (-)-Epigallocatechin 3-Gallate (EGCG) Ameliorates Cartilage Degeneration in Guinea Pigs with Spontaneous Osteoarthritis. *Antioxidants.* 2021 Jan 26;10(2):178. (SCI-54/3111/ BIOCHEMISTRY & MOLECULAR BIOLOGY)
34. Huang HT, Cheng TL, Ho CJ, Huang HH, Lu CC, Chuang SC, Li JY, Lee TC, Chen ST, Lin YS, Lee CY, Kang L, **Lin SY**, Chen CH.*. Intra-Articular Injection of (-)-Epigallocatechin 3-Gallate to Attenuate Articular Cartilage Degeneration by Enhancing Autophagy in a Post-Traumatic Osteoarthritis Rat Model *Antioxidants.* 2021;10(1):8.(SCI-54/3111/ BIOCHEMISTRY & MOLECULAR BIOLOGY)
35. Huang HT, Cheng TL, **Lin SY**, Ho CJ, Chyu JY, Yang RS, Chen CH, Shen CL. (2020, Nov). Osteoprotective Roles of Green Tea Catechins.. *Antioxidants (Basel).* , 16;9(11):1136. . (SCI, 10/139, Food science&technology).
36. 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. *Int J Mol Sci.* , 23;21(19):6991. . (SCI, 74/279, BIOCHEMISTRY & MOLECULAR BIOLOGY -- SCIE). 本人為通訊作者。
37. Chen CH, Lai CH, Hong YK, Lu JM, **Lin SY**, Lee TC, Chang LY, Ho ML, Conway EM, Wu HL, Cheng TL (2020, Jul). Mg-Zn-Ca Alloys for Hemostasis Clips for Vessel Ligation: In Vitro and In Vivo Studies of Their Degradation and Respons. *J Bone Miner Res.*, 35(9):1812-1823.. (SCI, 19/143; ENDOCRINOLOGY & METABOLISM -- SCIE).
38. Chou LY, Chen CH, Lin YH, Chuang SC, Chou HC, **Lin SY**, Fu YC, Chang JK, Ho ML, Wang CZ (2020, Apr). Discoidin domain receptor 1 regulates endochondral ossification through terminal differentiation of chondrocytes.. *FASEB J*, 34(4):5767-5781. (SCI, 19/113/ BIOLOGY -- SCIE).
39. **Lin SY**, Kan JY, Lu CC, Huang HH, Cheng TL, Huang HT, Ho CJ, Lee TC, Chuang SC, Lin YS, Kang L, Chen CH (2020, Apr). Green Tea Catechin (-)-Epigallocatechin-3-Gallate (EGCG) Facilitates Fracture Healing. *Biomolecules*, 16;10(4):620.. (SCI, 98/297/ BIOCHEMISTRY & MOLECULAR BIOLOGY -- SCIE). 本人為第一作者。
40. Chen CH, Huang PJ, Huang HT, **Lin SY**, Wang HY, Fang TJ, Lin YC, Ho CJ, Lee TC, Lu YM, Chiu HC. (2019, Nov). Impact of orthogeriatric care, comorbidity, and complication on 1-year mortality in surgical hip fracture patients: An observational study.. *Medicine (Baltimore).*, 98(47):e17912. (SCI, 69/160/ MEDICINE, GENERAL & INTERNAL).
41. **Lin SY**, Huang HT, Chou SH, Ho CJ, Liu ZM, Chen CH, Lu CC. (2019, Sep). The Safety of Continuing Antiplatelet Medication Among Elderly Patients Undergoing Urgent Hip Fracture Surgery.. *Orthopedics*, 1;42(5):268-274. (SCI, 44/76/ orthopedics). 本人為第一作者。
42. **Lin SY**, Chen CH, Fu YC, Huang PJ, Chang JK, Huang HT. (2019, May). Corrigendum to "The Efficacy of Combined Use of Intraarticular and Intravenous Tranexamic Acid on Reducing Blood Loss and Transfusion Rate in Total Knee Arthroplasty" [*Journal of Arthroplasty*

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44. Chen ST, Kang L, Wang CZ, Huang PJ, Huang HT, **Lin SY**, Chou SH, Lu CC, Shen PC, **Lin SY**, Chen CH* (2019, Jan). (-)-Epigallocatechin-3-Gallate Decrease Osteoclastogenesis via Modulation of RANKL and Osteoprotegerin.. *Molecules*, 23(12), 3221. (SCI, (131/253)BIOCHEMISTRY & MOLECULAR BIOLOGY - SCIE).
45. **Lin SY**, Kang L, Wang CZ, Huang HH, Cheng TL, Huang HT, Lee MJ, Lin YS, Ho ML, Wang GJ, Chen CH* (2018, Dec). (-)-Epigallocatechin-3-Gallate (EGCG) Enhances Osteogenic Differentiation of Human Bone Marrow Mesenchymal Stem Cells.. *Molecules*, ,23, 3221. (SCI, 131/29.IOCHEMISTRY & MOLECULAR BIOLOGY). 本人為第一作者。
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alendronate without surgical procedure in a postmenopausal woman: a case report.
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