



沈柏志 助理教授

Associate Professor Po-Chih Shen, Ph.D.

現職：

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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 臨床醫學研究所 博士

Experience：

高雄醫學大學附設中和紀念醫院骨科住院/總住院醫師

小港醫院骨科主治醫師

Major Awards:

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
增強自體軟骨細胞植入後的細胞表現型態及發炎微環境的改善(2/2) 111-2314-B-037 -118 -	計畫主持人	2022/08/01 至 2023/07/31	國科會	已結案	1,077,000
增強自體軟骨細胞植入後的細胞表現型態及發炎微環境的改善(1/2) 110-2314-B-037 -030 -	計畫主持人	2021/08/01 至 2022/07/31	國科會	已結案	3,795,000
以動物模式研究離子導入微脂粒包覆 strontium ranelate 併用低強度脈衝超音波之抗骨關節炎作用 109-2313-B-415 -004 -	共同主持人	2020/08/01 至 2021/07/31	國科會	已結案	1,250,000
離子導入微脂粒包覆 strontium ranelate 併用低強度脈衝超音波之抗骨關節炎作用研究 108-2313-B-415 -005 -	共同主持人	2019/08/01 至 2020/07/31	國科會	已結案	1,160,000
以動物模式研究與評估微脂粒化 rapamycin 併用低強度脈衝超音波之抗骨關節炎作用 107-2313-B-415 -010 -	共同主持人	2018/08/01 至 2019/07/31	國科會	已結案	1,220,000
腸道菌叢相關的代謝體對於礦物質與骨骼代謝的影響 - 目標於胺基酸衍生物與短鏈脂肪酸 107-2314-B-037 -104 -	共同主持人	2018/08/01 至 2019/07/31	國科會	已結案	780,000
微脂粒化 rapamycin 併用低強度脈衝超音波之骨關節炎治療研究 106-2221-E-415 -004 -	共同主持人	2017/08/01 至 2018/07/31	國科會	已結案	812,000
利用 3D 立體培養人類軟骨細胞及體外模擬模型進行震波對於軟骨相關疾病作用之研究 104-2314-B-037 -038 -MY	計畫主持人	2015/08/01 至 2018/07/31	國科會	已結案	3,245,000

期刊論文

1. Po-Chih Shen, Shih-Hao Huang, Zi-Miao Liu, Cheng-Chang Lu, Shih-Hsiang Chou, Yin-Chun Tien (2023, Jul). Suramin ameliorates osteoarthritis by acting on the Nrf2/HO-1 and NF- κ B signaling pathways in chondrocytes and promoting M2 polarization in macrophages. *International immunopharmacology.*, 2023 Jul:120:110295.. nstc 111-2314-B-037-118. 本人為第一作者.
2. Zi-Miao Liu, Po-Chih Shen, Cheng-Chang Lu, Shih-Hsiang Chou , Yin-Chun Tien (2022, Oct). Suramin enhances chondrogenic properties by regulating the p67phox/PI3K/AKT/SOX9 signalling pathway. *Bone & joint research*, Bone Joint Res . 2022 Oct;11(10):723-738.. 本人為第一作者.
3. Chia-Chun Tsai, Yu-Chia Chih, Chia-Lung Shih, Shu-Jung Chen , Po-Chih Shen, Yin-Chun Tien (2022, Aug). Joint hypermobility and preschool-age flexible flatfoot. *Medicine*, Medicine (Baltimore) . 2022 Aug 5;101(31):e29608..
4. Po-Chih Shen, Cheng-Chang Lu, Shih-Hsiang Chou , Zi-Miao Liu , Shu-Jem Su , Yin-Chun Tien (2021, Dec). Zonal-Layered Chondrocyte Sheets for Repairment of Full-Thickness Articular Cartilage Defect: A Mini-Pig Model. *Biomedicines*, 2021, 9, 1806.. MOST 110-2314-b-037-030. 本人為第一作者.
5. Shih-Hsiang Chou, Cheng-Chang Lu, Sung-Yen Lin, Po-Chih Shen, Zi-Miao Liu, Wei-Hsing Chih, Chia-Lung Shih (2021, Oct). A New Strategy for Rapid Diagnosis of the Source of Low Back Pain in Patients Scheduled to Undergo Treatment with Cooled Radiofrequency Ablation. *Diagnostics (Basel, Switzerland)* , 1;11(10):1822. .
6. Shih-Hsiang Chou, Wen-Wei Li, Cheng-Chang Lu, Kun-Ling Lin, Sung-Yen Lin, Po-Chih Shen, Yin-Chun Tien, Hsuan-Ti Huang (2021, Oct). Hybrid versus total sublaminar wires in patients with spinal muscular atrophy undergoing scoliosis surgery. *BMC musculoskeletal disorders.*, Oct 11;22(1):867. .
7. Shih-Hsiang Chou, Sung-Yen Lin, Po-Chih Shen, Hung-Pin Tu, Hsuan-Ti Huang, Chia-Lung

Shih, Cheng-Chang Lu (2021, Sep). Pain Control Affects the Radiographic Diagnosis of Segmental Instability in Patients with Degenerative Lumbar Spondylolisthesis. *Journal of clinical medicine.*, 2;10(17):3984. .

8. Zi-Miao Liu, Cheng-Chang Lu, Po-Chih Shen, Shih-Hsiang Chou, Chia-Lung Shih, Jian-Chih Chen, Yin Chun Tien (2021, Aug). Suramin attenuates intervertebral disc degeneration by inhibiting NF- κ B signalling pathway. *Bone & joint research.*, 10(8):498-513. . MOST 108-2314-B-037-060.

9. Po-Chih Shen, Shih-Hsiang Chou, Cheng-Chang Lu, Hsuan-Ti Huang, Song- Hsiung Chien, Peng-Ju Huang, Zi-Miao Liu, Chia-Lung Shih, Shu-Jem Su, Li- Min Chen, Yin-Chun Tien (2021, Jul). Shockwave Treatment Enhanced Extracellular Matrix Production in Articular Chondrocytes Through Activation of the ROS/MAPK/Nrf2 Signaling Pathway. *Cartilage*, Cartilage . 2021 Jul 8;19476035211012465.. MOST 104-2314-b-037-038-MY3. 本人為第一作者.

10. Shih-Hsiang Chou, Po-Chih Shen, Cheng-Chang Lu, Zi-Miao Liu, Yin-Chun Tien, Peng-Ju Huang, Cheng-Ming Chou, Chia-Lung Shih (2021, Jul). Comparison of Efficacy among Three Radiofrequency Ablation Techniques for Treating Knee Osteoarthritis: A Systematic Review and Meta-Analysis. *International journal of environmental research and public health.*, 12;18(14):7424..

11. Chung-Hwan Chen, Shyh Ming Kuo, Yin-Chun Tien, Po-Chih Shen , Yi-Wen Kuo, Han Hsiang Huang (2020, Oct). Steady Augmentation of Anti- Osteoarthritic Actions of Rapamycin by Liposome-Encapsulation in Collaboration with Low-Intensity Pulsed Ultrasound. *International Journal of Nanomedicine*, 15: 3771–3790.. MOST 106-2221-E-415-004.

12. Po-Chih Shen, Cheng-Chang Lu, Wen-Chen Liang, Yin-Chun Tien, Yuh-Jyh Jong, Yen-Mou Lu, Zi-Miao Liu, Chia-Lung Shih, Shih-Hsiang Chou (2020, Oct). Predictors for Deformity Progression in a Spinal Muscular Atrophy Cohort After Scoliosis Correction Surgery. *Clinic*

spine surgery, 33(8):E407-E414. 本人為第一作者.

13. Wen-Li Lu, Po-Chih Shen, Chen-Hao Lee, Yu-Tsun Su, Li-Min Chen (2020, Oct). High Risk of Early Cataracts in Young Type 1 Diabetes Group: A Nationwide Cohort Study.

International Journal of endocrinology, 9;2020:8160256.

14. Cheng-Chang Lu, Shih-Hsiang Chou, Po-Chih Shen, Pei-Hsi Chou, Mei-Ling Ho, Yin-Chun Tien (2020, Aug). Extracorporeal shock wave promotes activation of anterior cruciate ligament remnant cells and their paracrine regulation of bone marrow stromal cells' proliferation, migration, collagen synthesis, and differentiation. *Bone & Joint Research*, 9(8):458-468.

15. Chia-Lung Shih, Po-Chih Shen, Cheng-Chang Lu, Zi-Miao Liu, Yin-Chun Tien, Peng-Ju Huang, Shih-Hsiang Chou (2020, Aug). A comparison of efficacy among different radiofrequency ablation techniques for the treatment of lumbar facet joint and sacroiliac joint pain: A systematic review and meta-analysis. *Clinical Neurology and Neurosurgery*.

16. Po-Chih Shen, Shih-Hsiang Chou, Cheng-Chang Lu, Yin-Chih Fu, Chun-Kuan Lu, Wen-Chih Liu, Peng-Ju Huang, Yin-Chun Tien, Chia-Lung Shih (2020, Aug). Comparative effectiveness of various treatment strategies for trigger finger by pairwise meta-analysis.

Clinical rehabilitation, 34(9):1217-1229. 本人為第一作者.

17. Huang-Chia Su, Shih-Hsiang Chou, Hsin-Yi Ho, Cheng-Chang Lu, Yin-Chun Tien, Chia-Lung Shih, Zi-Miao Liu, Po-Chih Shen*, Peng-Ju Huang (2020, Apr). Management of nonunion of humeral medial condyle fracture: A case series and review of the literature.

journal of orthopaedic surgery, 28(2):2309499020921755. 本人為通訊作者.

18. Honlok Lo, Po-Yin Shen, Po-Chih Shen, Pei-Hsi Chou, Cheng-Chang Lu. (2018, Dec). The Elbow Technique: A Novel Reduction Technique for Anterior Shoulder Dislocations.. *The journal of emergency medicine*.

19. Shih-Tse Chen, Lin Kang, Chau-Zen Wang, Peng-Ju Huang, Hsuan-Ti Huang, Sung-Yen Lin, Shih-Hsiang Chou, Cheng-Chang Lu, Po-Chih Shen, Yi-Shan Lin, Chung-Hwan Chen

(2018, Dec). (-)-Epigallocatechin-3-gallate decrease osteoclastogenesis via modulation of RANKL and osteoprotegerin. *Molecules*.

20. Liu Zi-Miao, Shen Po-Chih, Lu Cheng-Chang, Chou Shih-Hsiang, Tien Yin-Chun (2018, Nov). Characterization of the Proliferating Layer Chondrocytes of Growth Plate for Cartilage Regeneration. *Tissue engineering part a*. MOST 104-2314-B-037-038-MY3.