

## 骨科學研究中心歷年論文發表

### 期刊論文:

1. Shu-Chun Chuang, Chung-Hwan Chen, Ya-Shuan Chou, Mei-Ling Ho \*, Je-Ken Chang \*  
G Protein-Coupled Estrogen Receptor Mediates Cell Proliferation through the cAMP/PKA/CREB Pathway in Murine Bone Marrow Mesenchymal Stem Cells.  
International Journal of Molecular Sciences, Volume 21 Issue 18 10.3390/ijms21186490 (IF:4.556; ranking:74of 297 in BIOCHEMISTRY & MOLECULAR BIOLOGY)
2. Yu-Ciou Lin, Tien-Ching Lee, Chung-Yu Chen, Shun-Jin Lin, Shang-Jyh Hwang, Ming-Yen Lin\*.  
Effectiveness of antiresorptive medications in women on long-term dialysis after hip fracture: A population-based cohort study.  
*PLOS ONE* September 2, 2020 (IF:2.740; ranking:27of 71 in MULTIDISCIPLINARY SCIENCES)
3. Ya-Shuan Chou, He-Jiun Jiang, Chung-Hwan Chen, Pei-Shan Ho, Tien-Ching Lee\*.  
Proton pump inhibitor use and risk of hip fracture in patients with type 2 diabetes.  
*Scientific Reports* 2020 Aug 21;10(1):14081. doi: 10.1038/s41598-020-70712-9 (IF:3.998; ranking:17of 71 in MULTIDISCIPLINARY SCIENCES)
4. Y.C. Liao, S.M. Song, T.H. Lib, J.B. Li, P.H. Tsai, J.S.C. Janga, C.H. Huangc, J.C. Huang \*, Y.S. Huang, C.H. Line, Yi-Shan Lin, Cung-Hwan Chen\*  
Synthesis and characterization of an open-poretoxic-element-free Ti-based bulk metallic glassfoam for bio-implant application.  
*J Mater Res Technol.* May 2020 Volume 9, Issue 3, Page 4518-4526 (IF:5.289; ranking:5of 79 in METALLURGY & METALLURGICAL ENGINEERING)
5. Yi-Hsiung, Lin Kang, Wen-Han Feng, Tsung-Lin Cheng, Wei-Chung Tsai, Hsuan-Ti Huang, Hsiang-Chun Lee and Chung-Hwan Chen\*  
Effects of Lipids and Lipoproteins on Mesenchymal Stem Cells Used in Cardiac Tissue Regeneration.  
*Int. J. Mol. Sci.* 2020, 21, 4770 (IF:4.556; ranking:74of 297 in BIOCHEMISTRY & MOLECULAR BIOLOGY)
6. Yen-Hao Chang, Chun Chieh Tseng, Chih-Yeh Chao, Chung-Hwan Chen, Sung-Yen Lin and Je-Kang Du \*  
Mg-Zn-Ca Alloys for Hemostasis Clips for Vessel Ligation: In Vitro and In Vivo Studies of Their Degradation and Response.  
*Materials* 2020, 13, 3039 (IF:3.507; ranking:132of 314 in PMATERIALS SCIENCE, MULTIDISCIPLINARY)
7. Chung-Hwan Chen, Shyh Ming Kuo, Yin-Chun Tien, Po-Chih Shen, Yi-Wen Kuo, Han Hsiang Huang.

Steady Augmentation of Anti-Osteoarthritic Actions of Rapamycin by Liposome-Encapsulation in Collaboration with Low-Intensity Pulsed Ultrasound.

*Int J Nanomedicine* 28 May 2020 Volume 15 Pages 3771—3790 (IF:5.115; ranking: 24 of 270 in PHARMACOLOGY & PHARMACY)

8. Min-Hsuan Chiang, Kun-Tsung Denzel Lee, Chia-Hsin Chen, Ker-Kong Chen, and Yan-Hsiung Wang.  
Photobiomodulation therapy inhibits oral submucous fibrosis in mice.  
*Oral Diseases* 2020 May 11 doi: 10.1111/odi.13409. (IF:2.613; ranking: 19 of 91 in DENTISTRY, ORAL SURGERY & MEDICINE)
9. Chung-Hwan Chen, Chao-Han Lai, Yi-Kai Hong, Jui-Ming Lu, Sung-Yen Lin, Tien-Ching Lee, Mei-Ling Ho, Edward M. Conway, Hua-Lin Wu, Tsung-Lin Cheng.  
Thrombomodulin functional domain promotes osteoblast functions and diabetic bone healing.  
*JBMR* 2020 Apr 24. (IF:5.854; ranking: 19 of 143 in ENDOCRINOLOGY & METABOLISM)
10. Chih-Ling Huang, OrcID,Wei Fang, Bo-Rui Huang, Yan-Hsiung Wang, Guo-Chung Dong andTzer-Min Lee.  
Bioactive Glass as a Nanoporous Drug Delivery System for Teicoplanin.  
*Appl. Sci.* 2020, 10(7), 2595(IF:2.484; ranking: 88 of 177 in ENGINEERING, MULTIDISCIPLINARY)
11. Kuan-Yu Chiu, Ker-Kong Chen, Yan-Hsiung Wang, Feng-Huei Lin, Jian-Yuan Huang.  
Formability of Fe-doped bioglass scaffold via selective laser sintering.  
*Ceramics International* Volume 46, Issue 10, Part B, July 2020, Pages 16510-16517(IF:3.830; ranking: 2 of 28 in MATERIALS SCIENCE, CERAMICS)
12. Sung-Yen Lin, Jung Yu Kan, Cheng-Chang Lu, Han Hsiang Huang, Tsung-Lin Cheng, Hsuan-Ti Huang, Cheng-Jung Ho, Tien-Ching Lee, Shu-Chun Chuang, Yi-Shan Lin, Lin Kang \*, Chung-Hwan Chen \*  
Green tea catechin (-)-Epigallocatechin-3-gallate (EGCG) facilitates fracture healing.  
*Biomolecules* 2020 Apr 16;10(4):620 (IF:4.082; ranking: 98 of 297 in CATEGORIES BIOCHEMISTRY & MOLECULAR BIOLOGY )
13. Y.C. Liao, S.M. Song, T.H. Li, J.B. Li, P.H. Tsai, J.S.C. Janga, C.H. HuangJ.C. Huang,d,\*, Y.S. Huang, C.H. Lin, Yi-Shan Lin, Cung-Hwan Chen\*  
Department Synthesis and characterization of an open-pore toxic-element-free Ti-based bulk metallic glass foam for bio-implant application.  
*Journal of Materials Research and Technology* .4 March 2020 (IF:5.289; ranking: 5 of 79 in METALLURGY&METALLURGICAL ENGINEERING)
14. Tien-Ching Lee, Yu-Li Lee, Jian-Chih Chen, Chung-Hwan Chen, and Pei-Shan Ho.  
Impact of type 2 diabetes on postoperative outcome after hip fracture: nationwide population-based study in Taiwan.

*BMJ Open Diabetes Res Care.* 2020 Feb;8(1). (IF:3183; ranking: 74 of 143 in ENDOCRINOLOGY&METABOLISM)

15. Chung-Hwan Chen, Seung-Jae Lim, Jong-Keon Oh, Tsan-Wen Huang, Yuhong H Zeng, Meng-Ting Wu, Huilin L Yang, Jason Pui-Yin Cheung, Ji Wan Kim, Jeong Hee Han, Li Huo, Tsung-Jung Lin, Gang Zhou, and Wen-Shuo Wu\*  
Teriparatide in East Asian Postmenopausal Women with Osteoporosis in a Real-World Setting: A Baseline Analysis of the Asia and Latin America Fracture Observational Study (ALAFOS)  
*Clin Interv Aging.* 2020; 15: 111–121. (IF:3.023; ranking: 21 of 51 in GERIATRICS&GERONTOLOGY)
16. Yan-Hsiung Wang, Chun-Chung Liao, Yi-Cheng Chen, Shih-Fu Ou, Che-Yu Chiu\*  
The feasibility of eco-friendly electrical discharge machining for surface modification of Ti: A comparison study in surface properties, bioactivity, and cytocompatibility.  
*Materials Science and Engineering: C.* 2020. 108:110192. (IF:5.090)
17. Yan-Hsiung Wang, Chun-Chung Liao, Cheng-Hsien Kuo, Xiang-Han Huang, Shyi-Tien Chen, Chien-Hui Wu, Yi-Huang Hsueh, Shih-Fu Ou\*  
Controlled aggregation of Ag nanoparticles on oxide templates on nitinol by electrodeposition.  
*Materials Letters* 2020, 267: 127531. (IF:3.204; ranking: 43 of 154 in PHYSICS,APPLIED)
18. Liang-Yin Chou, Chung-Hwan Chen, Yi-Hsiung Lin, Shu-Chun Chuang, Sung-Yen Lin, Yin-Chi Fu, Je-Ken Chang<sup>4</sup>, Mei-Ling Ho\*, Chau-Zen Wang\*  
Discoidin domain receptor 1 regulates endochondral ossification through terminal differentiation of chondrocytes.  
*FASEB J.* 2020 Mar 3. doi: 10.1096 /fj.201901852RR (IF:4.996; ranking: 9 of 93 in BIOLOGY)
19. Sung-Yen Lin, Hsuan-Ti Huang, Shih-Hsiang Chou, Cheng-Jung Ho, Zi-Miao Liu, Chung-Hwan Chen, Cheng-Chang Lu\*  
The Safety of Continuing Antiplatelet Medication Among Elderly Patients Undergoing Urgent Hip Fracture Surgery.  
*Orthopedics.* 2019 Jul 26:1-7. doi: 10.3928/01477447-20190723-02 (IF:1.608; ranking: 44 of 76 in ORTHOPEDICS)
20. Ching-Feng Chiu, Guan-Ying Lai, Chung-Hwan Chen, Chien-Chao Chiu, Shao-Wen Hung, Chi-Fen Chang\*  
6,7-Dihydroxy-2-(4'-hydroxyphenyl)naphthalene induces HCT116 cell apoptosis through activation of endoplasmic reticulum stress and the extrinsic apoptotic pathway.  
*Drug Des Devel Ther.* 2019 May 9;13:1609-1621. doi: 10.2147/DDDT.S193914. eCollection 2019. (IF:3.208; ranking: 23 of 61 in CHEMISTRY, MEDICINAL)
21. Hsu-Fu Wu, Chih-Han Chang, Gwo-Jaw Wang, Kuo-An Lai, Chung-Hwan Chen\*  
Biomechanical investigation of dynamic hip screw and wire fixation on an unstable

intertrochanteric fracture.

*Biomed Eng Online*. 2019 Apr 24;18(1):49. doi: 10.1186/s12938-019-0663-0 (IF:2.013; ranking: 52 of 80 in ENGINEERING, BIOMEDICAL )

22. Shu-Hung Huang; Sheng-Hua Wu; Su-Shin Lee; Yun-Nan Lin; Chee-Yin Chai; Chung-Sheng Lai; Hui-Min David Wang\*  
Platelet-Rich Plasma Injection in Burn Scar Areas Alleviates Neuropathic Scar Pain.  
*International Journal of Medical Sciences* 2018 Jan 8;15(3):238-247. doi: 10.7150/ijms.22563. eCollection 2018. (IF:2.333; ranking: 53 of 160 in MEDICINE, GENERAL & INTERNAL)
23. Rong-Fu Chen, Chih-Hau Chang, Chun-Ting Wang, Ming-Yu Yang, Ching-Jen Wang, Yur-Ren Kuo\*  
Modulation of vascular endothelial growth factor and mitogen-activated protein kinase-related pathway involved in extracorporeal shockwave therapy accelerate diabetic wound healing.  
*Wound Repair Regen*. 2019 Jan;27(1):69-79. ; doi: 10.1111/wrr.12686. ; Epub 2018 Dec 7. PubMed PMID: 30394625. (IF:2.850; ranking: 55 of 203 in Surgery)  
  
Rong-Fu Chen, Chih-Hau Chang, Chun-Ting Wang, Yur-Ren Kuo\*  
Suppression of Oxygen Radicals Protects Diabetic Endothelium Damage and Tissue Perfusion in a Streptozotocin-Induced Diabetes Rodent Model.  
*Ann Plast Surg*. 2019 Jan;82(1S Suppl 1):S18-S22. ; doi:10.1097/SAP.0000000000001723. [PubMed PMID: 30540602. (IF:1.448; ranking: 134 of 203 in Surgery)
24. Rong-Fu Chen 1, Chun-Ting Wang, Yu-Hua Chen, Ching-Ming Chien, Sin-Daw Lin, Chung-Sheng Lai, Ching-Jen Wang, Yur-Ren Kuo\*  
Hyaluronic Acid-Povidone Iodine Compound Facilitates Diabetic Wound Healing in A Streptozotocin-induced Diabetes Rodent Model.  
*Plast Reconstr Surg*. 2019 Feb 14.; doi: 10.1097/PRS.0000000000005504.;Epub ahead of print] PubMed PMID: 30807498.(IF:3.946; ranking: 20/203 in SURGERY)
25. Chih-Hsing Wu, Yin-Fan Chang, Chung-Hwan Chen, E. Michael Lewiecki, Christian W€uster, Ian Reid, Keh-Sung Tsai, Toshio Matsumoto, Leilani B. Mercado-Asis, Ding-Cheng Chan, Jawl-Shan Hwang, Ching-Lung Cheung, Kenneth Saag, Joon-Kiong Lee, Shih-Te Tu, Weibo Xia, Wei Yu, Yoon-Sok Chung, Peter Ebeling, Ambrish Mithal, Serge Livio Ferrari, Cyrus Cooper, Gau-Tyan Lin, Rong-Sen Yang\*  
Consensus Statement on the Use of Bone Turnover Markers for Short-Term Monitoring of Osteoporosis Treatment in the Asia-Pacific Region  
*Journal of Clinical Densitometry* 2019 Mar 18; 1-11 2019 ; doi:10.1016/j.jocd.2019.03.004 (IF:2.148; ranking: 107/145 in ENDOCRINOLOGY & METABOLISM)
26. Hsu-Fu Wu, Chih-Han Chang\*, Gwo-Jaw Wang, Kuo-An Lai , Chung-Hwan Chen\*  
Biomechanical investigation of dynamichip screw and wire fixation on an unstable intertrochanteric fracture  
*BioMedical Engineering OnLine* 2019 Apr 24;18(1):49; doi: 10.1186/s12938-019-0663-0.

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27. Yi-Kai Hong, Yao-Chou Lee, Tsung-Lin Cheng, Chao-Han La, Chao-Kai Hsu, Cheng-Hsiang Kuo, Yun-Yan Hsu, Jui-Ting Li, Bi-Ing Chang, Chih-Yuan Ma, Shu-Wha Lin, Kuan-Chieh Wang, Guey-Yueh Shi, Hua-Lin Wu\*

Tumor Endothelial Marker 1 (TEM1/Endosialin/CD248) Enhances Wound Healing by Interacting with Platelet-Derived Growth Factor Receptors

*J Invest Dermatol.* 2019 Apr 12. ; doi: 10.1016/j.jid.2019.03.1149.

(IF:6.290; ranking: 4 of 66 in DERMATOLOGY)

28. Yen-Feng Lai, Pei-Chao Lin, Chung-Hwan Chen, Jyu-Lin Chen, Hsin-Tien Hsu\*  
Current Status and Changes in Pain and Activities of Daily Living in Elderly Patients with Osteoarthritis Before and After Unilateral Total Knee Replacement Surgery

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29. Pei-Lin Shao, Shun-Cheng Wu, Zih-Yin Lin, Mei-Ling Ho, Chung-Hwan Chen, Chau-Zen Wang\*

Alpha-5 Integrin Mediates Simvastatin-Induced Osteogenesis of Bone Marrow Mesenchymal Stem Cells.

*Int. J. Mol. Sci.* 2019, 20, 506; doi:10.3390/ijms20030506

(IF:3.687; ranking: 134 of 203 in BIOCHEMISTRY & MOLECULAR BIOLOGY)

30. Rong-Fu Chen, Chih-Hau Chang, Chun-Ting Wang, Yur-Ren Kuo\*

Suppression of Oxygen Radicals Protects Diabetic Endothelium Damage and Tissue Perfusion in a STZ-induced Diabetes Rodent Model.

*Ann Plast Surg.* 2019 Jan;82(1S Suppl 1):S18-S22. doi: 10.1097/SAP.0000000000001723.

(IF:1.448; ranking: 134 of 203 in Surgery)

31. Chen RF, Wang CT, Chen YH, Chien CM, Lin SD, Lai CS, Wang CJ and Kuo YR\*

Hyaluronic Acid-Povidone Iodine Compound Facilitates Diabetic Wound Healing in A Streptozotocin-induced Diabetes Rodent Model.

*Plast Reconstr Surg.* 2019 May;143(5):1371-1382. doi: 10.1097/PRS.0000000000005504.

(IF:3.682; ranking: 22 of 210 in Surgery)

32. Yur-Ren Kuo, Chien-Chang Chen, Jun-Wen Wang, Jui-Kun Chang, Yu-Chi Huang, Cheng-Chung Pan, Yi-Chun Lin, Re-Wen Wu, Chen-Hsiang Lee\*

Bone infarction of the hip after hand allotransplantation: A case report.

*Microsurgery.* 2019 May;39(4):349-353. doi: 10.1002/micr.30375

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33. Kun-Tsung Denzel Lee, Min-Hsuan Chiang, Ping-Ho Chen, Mei-Ling Ho, Hong-Zin Lee, Huey-Er Lee, Yan-Hsiung Wang\*

The effect of low-level laser irradiation on hyperglycemia-induced inflammation in human

gingival fibroblasts.

*Lasers Med Sci* 2019 Jul;34(5):913-920. doi: 10.1007/s10103-018-2675-6. Epub 2018 Nov 19. (IF:2.076; ranking: 88/203 in SURGERY)

34. Rong-Fu Chen, Chih-Hau Chang, Chun-Ting Wang, Ming-Yu Yang, Ching-Jen Wang, Yur-Ren Kuo\*  
Modulation of VEGF and MAPK-related pathway involved in extracorporeal shockwave therapy accelerate diabetic wound healing.  
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35. Shun-Cheng Wu, Pei-Yi Huang, Chung-Hwan Chen, Benjamin Teong, Je-Ken Chang\*, Mei-Ling Ho\*  
Hyaluronan microenvironment enhances cartilage regeneration of human adipose-derived stem cells in a chondral defect model.  
*International Journal of Biological Macromolecules.* 2018 Nov;119:726-740. doi: 10.1016/j.ijbiomac.2018.07.054. Epub 2018 Jul 18. (IF:3.909; ranking: 79/292 in BIOCHEMISTRY & MOLECULAR BIOLOGY; 9/71 in CHEMISTRY, APPLIED; 10/87 in POLYMER SCIENCE)
36. Sung-Yen Lin, Kang Lin, Jian-Chih Chen, Chau-Zen Wang, Han Hsiang Huang, Mon-Juan Lee, Tsung-Lin Cheng, Chi-Fen Chang, Yi-Shan Lin, Chung-Hwan Chen\*  
(-)-Epigallocatechin-3-gallate (EGCG) enhances healing of femoral bone defect.  
*Phytomedicine* 55 (2019) 165–171 (IF:3.61; ranking: 2/27 in INTEGRATIVE & COMPLEMENTARY MEDICINE)
37. Sung-Yen Lin, Lin Kang, Chau-Zen Wang, Han Hsiang Huang, Tsung-Lin Cheng Cheng, Hsuan-Ti Huang, Mon-Juan Lee, Yi-Shan Lin, Mei-Ling Ho, Gwo-Jaw Wang, Chung-Hwan Chen \*  
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*Molecules* 23(12):3221, 2018 Dec (IF:3.098; ranking: 68/171 in CHEMISTRY, MULTIDISCIPLINARY)
38. Tsung-Lin Cheng, Po-Ku Chen, Wei-Kai Huang, Cheng-Hsiang Kuo, Chia-Fong Cho, Kuan-Chieh Wang, Guey-Yueh Shi, Hua-Lin Wu\*, Chao-Han Lai\*  
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*Journal of Molecular Medicine* 96(12):1333-1344, 2018 Dec (IF:2.784; ranking:65/133 in MEDICINE, RESEARCH & EXPERIMENTAL)
39. Chih-Ling Huang, Chao-Tang Chuang, Chih-Chiang Weng, Chih-Hung Liu, Yi-Zhen Li, Li-Cheng Pana, Chih-Kuang Wang\*  
Sterilization Efficacy of a Below 40°C Plasma Processes Assessed by a Biological Indicator.  
*International Journal of Automation and Smart Technology* 2018 Dec; 8(4):161-166 (IF:0.333)

40. Chau-Zen Wang, Yan-Hsiung Wang, Che-Wei Lin, Tien-Ching Lee, Yin-Chih Fu, Mei-Ling Ho, Chih-Kuang Wang\*  
Combination of a bioceramic scaffold and simvastatin nanoparticles as a synthetic alternative to autologous bone grafting.  
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*PLOS one* 13(10):e0205258, 2018 Jan (IF:2.766; ranking: 15/64 in MULTIDISCIPLINARY SCIENCES)
42. Yu-Chi Wang , Rong-Fu Chen , Gerald Brandacher , W P Andrew Lee , Yur-Ren Kuo\*  
The suppression effect of dendritic cells maturation by adipose-derived stem cells through TGF- $\beta$ 1 related pathway.  
*Experimental Cell Research* 2018 Sep. 370(2):708-717 (IF:3.309; ranking: 95/190 in CELL BIOLOGY)
43. Chih-Ling Huang, Wan-Ru Hsieh, Che-Wei Lin, Hung-Wei Yang, Chih-Kuang Wang\*  
Multifunctional liposomal drug delivery with dual probes of magnetic resonance and fluorescence imaging.  
*Ceramic International*, Volume 44, Issue 11, 1 August 2018, Pages 12442-12450 (IF:2.986, ranking: 2/26 in Materials Science, Ceramics category)
44. Chau-Zen Wang, Rajalakshmanan Eswaramoorthy, Tzu-Hsiang Lin, Chung-Hwan Chen, Yin-Chih Fu, Chih-Kuang Wang, Shun-Cheng Wu, Je-Ken Chang, Gwo-Jaw Wang, Mei-Ling Ho\*  
Enhancement of chondrogenesis of adipose-derived stem cells in HA-PNIPAAm-CL hydrogel for cartilage regeneration in rabbits.  
*Scientific Reports* 2018 Jul 12;8(1):10526 (IF:4.122; Ranking: 12/64 in MULTIDISCIPLINARY SCIENCES)
45. Yi-Jing Lue, Hsiu-Hung Wang, Kuang-I Cheng, Chung-Hwan Chen, Yen-Mou Lu\*  
Thermal Pain Tolerance and Pain Rating in Normal Subjects: Gender and Age Effects.  
*European Journal of Pain* 2018 Jul;22(6):1035-1042 (IF: 3.019; Ranking: 10/31 in ANESTHESIOLOGY; 69/194 in CLINICAL NEUROLOGY; 120/259 in NEUROSCIENCES)
46. Yi-Jen Chen, Wei-An Chang, Ling-Yu Wu, Ya-Ling Hsu, Chia-Hsin Chen, Po-Lin Kuo\*  
Systematic Analysis of Differential Expression Profile in Rheumatoid Arthritis Chondrocytes Using Next-Generation Sequencing and Bioinformatics.  
*International journal of medical sciences* 2018 July 15(11)1129-1142 (IF: 2.284; Ranking: 46/155 in MEDICINE, GENERAL & INTERNAL)
47. Yi-Jing Lue, Chung-Hwan Chen, Shih-Hsiang Chou, Chih-Lung Lin, Kuang-I Cheng,

Yen-Mou Lu\*

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Consensus on best practice standards for Fracture Liaison Service in the Asia-Pacific region.  
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*Journal of Applied Physiology* 2018 May 1;124(5):1177-1185 (IF: 3.256; Ranking: 23/83 in PHYSIOLOGY; 11/81 in SPORT SCIENCES)
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Anti-inflammatory effects of low-level Laser therapy on human periodontal ligament cells: In vitro study.  
*Lasers in Medical Science* 2018 Apr;33(3):469-477 (IF:1.949; Ranking: 43/78 in ENGINEERING, BIOMEDICAL; 91/200 in SURGERY)
52. Tien-Ching Lee, Yan-Hsiung Wang, Shih-Hao Huang, Chung-Hwan Chen, Mei-Ling Ho, Yin-Chih Fu\*, Chih-Kuang Wang\*  
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* 2018 Mar; 33: 160-177 (IF:1.598; Ranking: 112/160 in BIOTECHNOLOGY & APPLIED MICROBIOLOGY; 27/33 in MATERIALS SCIENCE, BIOMATERIALS; 47/87 in POLYMER SCIENCE)
53. Shun-Cheng Wu, Chung-Hwan Chen, Jyun-Ya Wang, Yi-Shan Lin, Je-Ken Chang\*, Mei-Ling Ho\*  
Hyaluronan size alters chondrogenesis of adipose-derived stem cells via the CD44/ERK/SOX-9 pathway.  
*Acta Biomaterialia* 66 (2018) 224–237 (IF: 6.383; Ranking: 4/78 in ENGINEERING,

BIOMEDICAL; 3/33 in MATERIALS SCIENCE, BIOMATERIALS)

54. Benjamin Teong, Shun-Cheng Wu, Chien-Mei Chang, Jhen-Wei Chen, Hui-Ting Chen, Chung-Hwan Chen, Je-Ken Chang, Mei-Ling Ho\*  
The stiffness of a cross-linked hyaluronan hydrogel affects its chondro-induction activity on hADSCs.  
*Journal of Biomedical Materials Research: Part B - Applied Biomaterials* 2018 Feb;106(2):808-816 (IF:3.373; Ranking: 17/78 in ENGINEERING, BIOMEDICAL; 14/33 in MATERIALS SCIENCE, BIOMATERIALS)
55. Sheng-Hua Wu, I-Cheng Lu, Su-Shin Lee, Aij-Lie Kwan, Chee-Yin Chai, Shu-Hung Huang\*  
Erythropoietin attenuates motor neuron programmed cell death in a burn animal model.  
*PLOS ONE* 2018 Jan 31;13(1):e0190039 (IF: 2.766; Ranking:15/64 in MULTIDISCIPLINARY SCIENCES)
56. Shu-Hung Huang, Sheng-Hua Wu, Su-Shin Lee, Yun-Nan Lin; Chee-Yin Chai; Chung-Sheng Lai; Hui-Min David Wang\*  
Platelet-Rich Plasma Injection in Burn Scar Areas Alleviates Neuropathic Scar Pain.  
*Int J Med Sci.* 8;15(3):238-247, 2018 Jan (IF: 2.399; Ranking:36/155 in MEDICINE, GENERAL & INTERNAL)
57. J.J. Lai, Y.S. Lin, C.H. Chang, T.Y. Wei, J.C. Huang\*, Z.X. Liao, C.H. Lin, C.H. Chen  
Promising Ta-Ti-Zr-Si metallic glass coating without cytotoxic elements for bio-implant applications.  
*Applied Surface Science* 427 (2018) 485–495 (IF:3.387; Ranking: 46/145 in CHEMISTRY, PHYSICAL; 1/19 in MATERIALS SCIENCE, COATINGS & FILMS; 31/147 in PHYSICS, APPLIED; 19/67 in PHYSICS, CONDENSED MATTER)
58. Cen-Hung Lin, Sheng-Hua Wu, Su-Shin Lee, Yun-Nan Lin, Yur-Ren Kuo, Chee-Yin Chai, Shu-Hung Huang\*  
Autologous Adipose-Derived Stem Cells Reduce Burn-Induced Neuropathic Pain in a Rat Model.  
*International Journal of Molecular Sciences* 2017 Dec 22;19(1). pii: E34 (IF: 3.226; Ranking: 117/290 in BIOCHEMISTRY & MOLECULAR BIOLOGY; 54/166 in CHEMISTRY, MULTIDISCIPLINARY)
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