

***張毓翰醫師**

所有發表期刊論文、文章及演講

1. Haasper C, Buttarro M, Hozack W, Aboltins CA, Borens O, Callaghan JJ, de Carvalho PI, **Chang YH**, Corona P, Da Rin F, Esposito S, Fehring TK, Sanchez XF, Lee GC, Martinez-Pastor JC, Mortazavi SM, Noiseux NO, Peng KT, Schutte HD, Schweitzer D, Trebše R, Tsiridis E, Whiteside L. Irrigation and Debridement. J Arthroplasty. 2014 Feb;29(2 Suppl):100-3.
2. Lin CY, **Chang YH**, Sung LY, Chen CL, Lin SY, Li KC, Yen TC, Lin KJ, Hu YC Long-term Tracking of Segmental Bone Healing Mediated by Genetically Engineered ASCs: Focuses on Bone Remodeling and Potential Side Effects. Tissue Eng Part A. 2013 Dec 24. [Epub ahead of print] (Cofirst author)
3. Lin CY, **Chang YH**, Li KC, Lu CH, Sung LY, Yeh CL, Lin KJ, Huang SF, Yen TC, Hu YC. The use of ASCs engineered to express BMP2 or TGF- β 3 within scaffold constructs to promote calvarial bone repair. Biomaterials. 2013 Dec;34(37):9401-12. (Co-first author)
4. Lu CH, **Chang YH**, Lin SY, Li KC, Hu YC. Recent progresses in gene delivery-based bone tissue engineering. Biotechnol Adv. 2013 Dec;31(8):1695-706.
5. **Chang YH***, Tai CL, Hsieh PH, Ueng SW Gentamicin in bone cement: A potentially more effective prophylactic measure of infection in joint arthroplasty. Bone & Joint Research 2013;2:220–6. (First and Corresponding author)
6. Lu CH, Yeh TS, Yeh CL, Fang YH, Sung LY, Lin SY, Yen TC, **Chang YH***, Hu YC. Regenerating Cartilages by Engineered ASCs: Prolonged TGF- β 3/BMP-6 Expression Improved Articular Cartilage Formation and Restored Zonal Structure Mol Ther. 2014 Jan;22(1):186-95. (Corresponding author)
7. Ueng SW, Lee CY, Hsieh PH, Chih-chien Hu, **Chang YH***. What Is the Success of Treatment of Hip and Knee Candidal Periprosthetic Joint Infection? Clinical Orthopaedics and Related Research 2013, 471(9):3002-9 (Corresponding author)
8. Wu MH*, Wang HY, Tai CL, **Chang YH**, Chen YM, Hung SB, Chiu TK, Yang TC, Wang SS, Development of perfusion-based microbioreactor platform capable of

providing tunable dynamic compressive loading to 3-D cell culture construct: Demonstration study of the effect of compressive stimulations on articular chondrocyte functions Sensors and Actuators B 2013,176:86-96 (Cofirst author)

9. Liew NC, **Chang YH**, Choi G, Chu PH, Gao X, Gibbs H, Ho CO, Ibrahim H, Kim TK, Kritpracha B, Lee LH, Lee L, Lee WY, Li YJ, Nicolaides AN, Oh D, Pratama D, Ramakrishnan N, Robless PA, Villarama-Aleman G, Wong R; Asian Venous Thrombosis Forum. Asian venous thromboembolism guidelines: prevention of venous thromboembolism. *Int Angiol.* 2012 Dec;31(6):501-16.
10. Ueng SW, Hsieh PH, Shih HN, Yi-Shan Chan YS, Lee MS , **Chang YH*** The anti-bacterial activities of joint fluid in cemented total knee arthroplasty: An in vivo comparative study of polymethylmethacrylate with and without antibiotic loading *Antimicrob Agents Chemother.* 2012, 56(11):5541 (Corresponding author)
11. Lu CH, Lin KJ, Chiu HY, Chen CY, Yen TC, Hwang SM, Chang YH*, Hu YC. Improved Chondrogenesis and Engineered Cartilage Formation from TGF- β 3-Expressing Adipose-Derived Stem Cells Cultured in the Rotating-Shaft Bioreactor. *Tissue Eng Part A.* 2012, 18(19-20):2114 [Epub ahead of print] (Co-corresponding author)
12. Lin CY, Lin KJ, Li KC, Sung LY, Hsueh S, Lu CH, Chen GY, Chen CL, Huang SF, Yen TC, **Chang YH***, Hu YC*. Immune responses during healing of massive segmental femoral bone defects mediated by hybrid baculovirus-engineered ASCs. *Biomaterials.* 2012 33:7422 (Co-corresponding author)
13. Hsieh PH, **Chang YH***, Chen DW, Lee MS, Shih HN, Ueng SW. Pain Distribution and Response to Total Hip Arthroplasty: A Prospective Observational Study in One Hundred and Thirteen Patients with End-stage Hip Disease *J Orthop Sci.* 2012 May;17(3):213-8. (Co-first and Corresponding author)
14. Lin CY, **Chang YH**, Kao CY, Lu CH, Sung LY, Yen TC, Lin KJ, Hu YC. Augmented healing of critical-size calvarial defects by baculovirus-engineered MSCs that persistently express growth factors. *Biomaterials.* 2012 May;33(14):3682-92. (Co-first author)
15. Lin YH, Yang YW, Chen YD, Wang SS, **Chang YH***, Wu MH The application of an optically switched dielectrophoretic (ODEP) force for the manipulation and

assembly of cell-encapsulating alginate microbeads in a microfluidic perfusion cell culture system for bottom-up tissue engineering. *Lab Chip*. 2012 Mar 21;12(6):1164-73. (Co-corresponding author)

16. **Chang YH***, Chen WC, Hsieh PH, Chen DW, Lee MS, Shih HN, Ueng SW. The In Vitro Activities of Daptomycin-, Vancomycin-, and Teicoplanin-loaded Polymethylmethacrylate against Methicillin-susceptible, Methicillin-Resistant and Vancomycin-Intermediate Strains of *Staphylococcus aureus*. *Antimicrob Agents Chemother*. 2011;55(12):5480-5484. (First and Corresponding author)
17. Chen CL, Luo WY, Lo WH, Lin KJ, Sung LY, Shih YS, **Chang YH***, Hu YC*. Development of hybrid baculovirus vectors for artificial MicroRNA delivery and prolonged gene suppression. *Biotechnol Bioeng*. 2011 Dec;108(12):2958-67. (Co-corresponding author)
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19. Hung FC, **Chang YH**, Lin-Chao S, Chao CC. Gas7 mediates the differentiation of human bone marrow-derived mesenchymal stem cells into functional osteoblasts by enhancing Runx2-dependent gene expression. *Journal of Orthopaedic Research* 2011 (Epub ahead of print)
20. Wu MH*, **Chang YH**, Liu YT, Chen YM, Wang SS, Wang HY, Lai CS, Pan TM. Development of high throughput microfluidic cell culture chip for perfusion 3-dimensional cell culture-based chemosensitivity assay. *Sensors and Actuators B: Chemical*, 2011 155:397-407 (Co-First author)
21. Tai CL, Tsai SL, **Chang YH**, Hsieh PH. Study the effect of polymerization temperature in the release of antibiotic from bone cement. *Biomed Mater Eng*. 2011 Jan 1;21(5):341-6.
22. **Chang YH**, Shih HN, Chen DW, Lee MS, Steve WN Ueng, Hsieh PH*. The antibiotic content in fresh frozen bone graft. *J Bone Joint Surg Br*. 2010 92(10):1471-1474.
23. Lo YC, **Chang YH**, Wei BL, Huang YL*, Chiou WF*. Betulinic acid stimulates the

differentiation and mineralization of osteoblastic MC3T3-E1 cells: involvement of BMP/Runx2 and beta-catenin signals. J Agric Food Chem. 2010 Jun 9;58(11):6643-9.

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25. Lin CY, **Chang YH**, Lin KJ, Yen TC, Tai CL, Chen CY, Lo WH, Hsiao IT, Hu YC*. The healing of critical-sized femoral segmental bone defects in rabbits using baculovirus-engineered mesenchymal stem cells. Biomaterials. 2010 April; 31(12):3222-30 (Co-First author)
26. Chuang CK, Lin KJ, Lin CY, **Chang YH**, Yen TC, Hwang SM, Sung LY, Chen HC, Hu YC*. Xenotransplantation of human mesenchymal stem cells into immunocompetent rats for calvarial bone repair. Tissue Eng Part A. 2010 Feb;16(2):479-88.
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31. **Chang YH**, Hsieh PH, Chao CCK*. The Efficiency of Using Density Gradient Media in Isolation of Marrow Derived Human Mesenchymal Stem Cells with Osteogenic

Potential. Chang Gung Medical Journal 2009; 32(3):264-275. (2009 長庚醫誌 優秀論文 貳獎)

32. Chuang CK, Wong TH, Hwang SM, **Chang YH**, Chen GY, Chiu YC, Huang SF, Hu YC*. Baculovirus transduction of mesenchymal stem cells: in vitro responses and in vivo immune responses after cell transplantation. Mol Ther. 2009 May;17(5):889-96.
33. **Chang YH**, Hu CC, Chen DW, Ueng SWN, Shih CH, Lee MS*. Local Cancellous Bone Grafting for Osteonecrosis of the Femoral Head. Surgical Innovation. 2009 Mar; 16(1):63-7.
34. Hsieh PH*, Tai CL, Lee PC, **Chang YH**. Liquid Gentamicin and Vancomycin in Bone Cement A Potentially More Cost-Effective Regimen. J Arthroplasty. 2009 Jan; 24(1):125-30.
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38. **Chang YH**, Ueng SW, Lin-Chao S, Chao CC*. Involvement of Gas7 along the ERK1/2 MAP kinase and SOX9 pathway in chondrogenesis of human marrow-derived mesenchymal stem cells. Osteoarthritis Cartilage. 2008 Nov; 16(11):1403-12.
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43. Hsieh PH*, Tai CL, **Chang YH**, Lee MS, Shih HN, Shih CH. Precooling of the femoral canal enhances shear strength at the cement-prosthesis interface and reduces the polymerization temperature. J Orthop Res. 2006; 24(9):1809-14.
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51. CY Chen, ACY Chen, **Chang YH**, TS Fu, MS Lee*. Synovial chondromatosis of the hip: management with arthroscope-assisted synovectomy and removal of loose bodies: report of two cases. Chang Gung Med J 2003; 26(3):208-214.
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53. Chao EK, Chen LH, Ueng SWN, Yeh WL, Chen WJ, **Chang YH**, Lee MS*. Pyogenic sacroiliitis – Report of 11 cases and review of literatures. J Musculoskeletal Res 2003; 7(1):79-86.
54. Lee MS*, **Chang YH**, Chao EK, Shih CH. Conditions before collapse of the contralateral hip in osteonecrosis of the femoral head. Chang Gung Med J 2002; 25(4):228-237.
55. **Chang YH**, Niu CC*, Chen LH, Chen WJ. Acute paraplegia due to thoracic extramedullary hematopoiesis in chronic myeloproliferative disorder an unusual presentation-case report. Acta Orthopaedica Belgica 2002; 68(2):187-191.
56. **Chang YH***, Chao-Shin Lee. Tibial plateau fracture with compartment syndrome: a case report and literature review. J Taiwan Emerg Med 2001; 3(4):38-44.
57. **Chang YH**, Tu YK, Yeh WL*, Hsu RWW. Tibial plateau fracture with compartment syndorme: A complication of higher incidence in Taiwan. Chung Gung Medical Journal 2000; 23(3):149-154.

Books Chapters

Hu, YC, Chuang, CK, **Chang YH** 2008. Gene therapy approach for cartilage engineering. In "Biotechnology and Bioengineering Research Trends" (Flynn, W.G., Ed.). Nova Science Publishers, Hauppauge. In press. (ISBN: 978-1-60456-067-1) (Invited review book chapter)

Presentations : (Title, Meeting Location, Date, Oral/Poster)

1. Gentamicin in bone cement: A potentially more effective prophylactic measure of infection in joint arthroplasty, Annunal meeting of European Bone and Joint Infection Society, Prague, 2013, Oral
2. In Vitro Activities of Daptomycin-, Vancomycin-, and Teicoplanin-loaded Polymethylmethacrylate against Methicillin-susceptible, Methicillin-Resistant and Vancomycin-Intermediate Strains of Staphylococcus aureus. Annunal meeting of European Bone and Joint Infection Society, Prague, 2013, Oral
3. The anti-bacterial activities of joint fluid in cemented total knee arthroplasty: An in vivo comparative study of polymethylmethacrylate with and without antibiotic loading. Annunal meeting of European Bone and Joint Infection Society, Prague, 2013, Oral
4. The fate of Fungi Periprosthetic Joint infection, Annunal meeting of Taiwan Orthopaedic Society, 2012 Oral
5. The Antibiotic Content in Fresh-Frozen Bone Graft. 7th Combined Meeting , Orthopaedic Research Societies, Kyoto, Japan, 2010, Oral
6. Pain Distribution and Response to Total Hip Arthroplasty: A Prospective Observational Study in One Hundred and Thirteen Patients with End-stage Hip Disease, 15th Triennial Congress of Asia Pacific Orthopaedic Association, Taipei, Taiwan. 2010, Oral
7. The antibiotic content in fresh frozen bone graft. Annunal meeting of Taiwan Orthopaedic Society, 2009, Oral
8. The Efficiency of Using Density Gradient Media in Isolation of Marrow Derived Human Mesenchymal Stem Cells, 55th Annunal meeting, Orthopaedic Research

Meeting, Las Vegas, Nevada, USA, 2009,Poster

9. Involvement of Gas7 along the ERK1/2 MAP kinase and SOX9 pathway in chondrogenesis of human marrow-derived mesenchymal stem cells.6th Combined Meeting , Orthopaedic Research Societies, Honolulu, Hawaii, USA, 2007,Poster
10. The Effects of Gentamycin on Marrow Derived Human Mesenchymal Stem Cells: In Vivo and In Vitro. Poster, 52th, Annunal Meeting of American Orthopaedic Research Society, Chicago, Illinois, USA, 2006. Poster
11. Toxic Effects of Gentamcyin on Human Marrow Derived Mesenchymal Stem Cells. Annual Meeting of the Taiwan Orthopedic Association, Taipei, Oct. 2006.Oral
12. Involvement of Gas7 along the ERK 1/2 MAP Kinase Pathway in Chondrogenesis of Human Marrow Derived Mesenchymal Stem Cells. Annual Meeting of the Taiwan Orthopedic Association, Taipei, Oct. 2006, Oral
13. The comparison between ischemic precondition and intermittent reperfusion effects on tibial microcirculation. Poster, 68th annual meeting of American Academy of Orthopaedic Surgeons, San Francisco, California, USA, 2001.Poster
14. Fungal Spondylitis Caused by Toruloposis Glabrata A Case Rport and Literature Review, Poster, Annual Meeting Surgical Association,Taiwan. CGMH, Taipei, Taiwan, 1999. Poster
15. Acute paraplegia due to thoracic extramedullary hematopoiesis in chronic myeloproliferative disorder an unusual presentation-case report. Poster, Annual Meeting Orthopaedic Surgical Association, Taiwan CGMH, Taipei, Taiwan, 1999. Poster
16. The nature history of osteonecrosis of the femoral head in patients who have advanced disease on the other side . Annual Meeting Orthopaedic Surgical Association, Taiwan. VGH, Taipei, 1998.Oral
17. Postoperative chylothorax: a rare complication of video-assisted thoracic spinal surgery for scoliosis. Poster, 2nd Asian Pacific Workshop & Symposium on Minimally Invasive Thoracic Surgery, Chung Gung memorial hospital, Taipei,

Taiwan, December 1997. Poster

Invited Speech

1. Articulating cement spacer in knee periprosthetic infection, 嘉義長庚 2013
2. Venous prophylaxis guide line in Asia, The advance in medicine, Chinese University of Hong Kong, Hong Kong 2013
3. Balculovirus in Orthopedic Tissue Engineering, Korean Hip Society, 53th Annual meeting, 2012, 全州, Korea
4. The consideration of Antibiotic Loaded Bone Cement in Joint Arthroplasty, Society of Joint Reconstruction, Taiwan, Summer Meeting, 2012, Linko, Taiwan
5. Asian VTE Guide Line, Society of Joint Reconstruction, Taiwan, Summer Meeting, 2012, Linko, Taiwan
6. Periprosthetic Hip Fracture, Resident Training Course, Society of Joint Reconstruction, Taiwan, 2012, Linko, Taiwan
7. Infection of total hip arthroplasty, 骨科論壇關節外科國際研討會 廣州中山一院 2011, 廣州中國
8. 人工膝關節感染治療與預防：含藥骨水泥的功能性角色 河南關節學組年會，2013, 鄭州，河南，中國