



Curriculum Vitae
Dec. 1, 2012
Horng-Chaung Hsu, M.D.

Date of birth: Nov. 11, 1954

Place of birth: Chia-Yi, Taiwan

Nationality: Taiwan, Republic of China

Marital Status: Married, Spouse: Y-C Jen

Children: Son: Nigel N. Hsu, Born on Oct.19, 1985

Office Address: Department of Orthopedic Surgery, China Medical University Hospital
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Current position: 1. Chairman, Department of Orthopedic Surgery, China Medical University Hospital.
2. Chief, Department of Orthopaedics, School of Medicine, China Medical University.
3. President, Taiwan Arthroscopy and Knee Society

Teaching Staff: Professor of Orthopedic Surgery, School of Medicine; China Medical University.

Academic Interests: Clinical Interests in:

Total Joint Replacement

Sports Medicine & Arthroscopic Surgery

Surgery of the shoulder and elbow

Research Interests in:

Tissue engineering: soft tissue

Biomechanics and kinematics of the hip, knee, and shoulder

Biomechanics and design of artificial joint and ligament

Basic research of soft tissue, cellular and molecular level

Education: Graduated from Kaoshiung Medical University, Taiwan in 1981

Professional and research experience:

Internship: Kaoshiung Medical University Hospital, 1980-1981

Military Service: Chinese Army Hospital, 1981-1983

Residency: Dept. of Surgery and Dept. of Orthopedics, V. G. H. - Taipei, 1983-1987

Chief Residency: Department of Orthopedic Surgery, V. G. H.-Taipei, 1987-1988

Consultant: Department of Orthopedic Surgery, Far-Eastern Memorial Hospital, 1988-1990

Consultant: Department of Orthopedic Surgery, Veterans General Hospital -Taipei, 1990-1995

Chief: Division of Sports Medicine, Department of Orthopedic Surgery, China Medical

University Hospital 1995-

Chairman: Department of Orthopedic Surgery, China Medical University Hospital, 1999-

President: Taiwan Shoulder & Elbow Society, 2008-2009

President: Taiwan Arthroscopy and Knee Society, 1010 - 2012

Lecturer : Orthopedic Surgery, National Yang-Ming University, School of Medicine, 1986-1995

Lecturer : Orthopedic Surgery, China Medical University, School of Medicine, 1995-1996

Associate Professor: China Medical University, School of Medicine, 1996-2008

Professor : China Medical University, School of Medicine, 2008 –

Travelling fellowship: Asian Federation of Sports Medicine, 1993

Research fellowship: Biomechanical laboratory, Dept.of Orthopedic Surgery, Mayo Clinic /
Mayo Foundation , Rochester, MN 55905, U.S.A. 1993-1994

Visiting Physician: Clinical Program: Arthroplasty & Sports medicine Research Program:
Tissue Engineering of Cartilage Repair and Regeneration Hospital for Special
Surgery (HSS), New York City, USA, 2009-2010

Journal Reviewer :1. Journal of Shoulder and Elbow Surgery (JSES)

2. Journal of Mechanics in Medicine and Biology (JMMB)

3. HSS Journal

4. Journal of the Chinese Medical Association

5. Journal of Orthopedic Surgery Taiwan

6. Mid-Taiwan Journal of Medicine

7. Chung Shan Medical Journal

8. The Kaohsiung Journal of Medical Science

Medical Device Advisory Committee, Taiwan FDA

Memberships: Surgical Association, Republic of China

Orthopedic Surgery Association, Republic of China

Taiwan shoulder & elbow society

Joint Reconstruction Society, Republic of China

Sports Medicine Association, Republic of China

Orthopedic Research Society, Republic of China

Western Pacific Orthopedic Association

Societe Internationale de Chirurgie Orthopedique et de Traumatologie

Orthopedic Research Society, U.S.A.

International Society of Arthroscopy, Knee and Orthopedic Sports Medicine

近五年相關之著作及研究報告名稱

1. Chung-Hao Tsai, Der-Yean Wang, Horng-Chaung Hsu :Soft- tissue osteoma of the hand: case report. *J Hand Surgery* 31A(6) 998-1000 2006. (SCI)
2. Kuo-Fung Tseng, Horng-Chaung Hsu, Fu-Cheng Wang, Yi-Chin Fong: Nerve sheath ganglion of the tibial nerve presentation as a Baker's cyst: a case report. *Knee Surg Sports Traumatol Arthrosc* 14: 880-84 2006.(SCI)
3. I-Han Tai, Shu-Ya Chen, Pei-Wen Chiu, Ying-Hao Chen, Hsiu-Chen Lin, Horng-Chaung Hsu: Evaluation of dynamic balance function using vertical ground reaction force and limit of stability performance in patients with ankle fracture. *Journal of Biomechanics* 40:2, S707, 2007. (corresponding author) (SCI)
4. Horng-Chaung Hsu, Yi-Chin Fong, Chih-Shiang Chang, Chin-Jung Hsu, Sheng-Feng Hsu, Jaung-Geng Lin, Wen-Mei Fu, Ron-Sen Yang, Chih-Hsin Tang. Ultrasound induces cyclooxygenase-2 expression through integrin, integrin-linked kinase, Akt, NF- κ B and p300 pathway in human chondrocytes. *Cellular Signalling* 19(2007) 2317-2328. SCI: Cell Biology. (37/156). IF: 4.887
5. Chien-Chung Kuo, Wen-Hong Lee, Horng-Chaung Hsu: Nonunion of a sesamoid with tophaceous gout : a case report. *Foot & Ankle International*.28 (8)Aug 2007. (corresponding author) (SCI)
6. Li-Wei Chou, Mu-Jung Kao, Pey-Yu Yang, Nai-Hsin Meng, Sui-Foon Lo, Hong-Wen Wu, Horng-Chaung Hsu: Effects of a lateral wedged insole in patients with medial compartment osteoarthritis of the knee. *Taiwan Journal of Physical Medicine and Rehabilitation* (corresponding author)2007; 35(4); 197-205.
7. Lu, T.-W., Hsu, H.-C., Chang, L.-Y. and Chen, H.-L. :Enhancing the examiner's resisting force improves the reliability of manual muscle strength measurements: comparisons between a new device and hand-held dynamometry, *Journal of Rehabilitation Medicine*. 39(9) 679-684 2007.(SCI)
8. Te-Jen Lai, Sheng-Feng Hsu, Te-Mao Li, Horng-Chaung Hsu , Jaung-Geng Lin , Chin-Jung Hsu, Ming-Chih Chou, Meng-Chih Lee, Shun-Fa Yang , Yi-Chin Fong*: Alendronate inhibits cell invasion and MMP-2 secretion in human chondrosarcoma cell line. *Acta Pharmacologica Sinica*. 2007 Aug; 28(8):1231-5. SCI: Chemistry. (47/124). IF: 1.397
9. Yi-Chin Fong, Wei-Hong Yang, Sheng-Feng Hsu, Horng-Chaung Hsu, Kuo-Fung Tseng, Chin-Jung Hsu, Chun-Yi Lee, Sean P. Scully. 2-Methoxyestradiol Induces Apoptosis and Cell Cycle Arrest in Human Chondrosarcoma Cells. *J Orthopaedic Research*. 2007 Apr 5; 25(8):1106-1114. SCI: Orthopedics. (2/43). I.F.:2.784
10. Yen-Jen Chen, Gee-Chen Chang, Hsien-Te Chen, Tsung-Ying Yang, Lng-Tiau Kuo, Horng-Chaung Hsu, Hui-Wen Yang, Tu-Sheng Lee: Surgical results of metastatic spinal cord compression Secondary to non-small cell lung cancer. *Spine* 2007; 32: E413-418. (5/43) I.F.: 2.351

11. Yen-Jen Chen, Horng-Chaung Hsu, Chen KH, Li TC, Lee TS, : Transpedicular partial corpectomy without anterior vertebral reconstruction in thoracic spinal metastases. *Spine* 2007 ; 32(22); E623-626. I.F.: 2.351
12. H.W. Wu, Horng-Chaung Hsu, Yi-Wen Chang: Effects of the quadriceps femoris taping in the elders during chair rising. *Gait Posture* 2007; Sep 26(1) 64-65. (SCI)
13. H.C. Lin, W.H. Lai, C.M. Chang, Horng-Chaung Hsu: Assessing laxity characteristics of hyperextension knee in healthy young females a knee ligament arthrometer. *Gait Posture* 2007; Sep 26(1) 72-73. (SCI)
14. Horng-Chaung Hsu, H.W. Wu, Y.W. Chang: Kinetic analysis of lower limbs in step aerobic dance. *Gait Posture* 2007; Sep 26(1) 83-84. (SCI)
15. Chien-Chung Lin, Horng-Chaung Hsu, Chun-Chen Huang, Shih-Hao Chen: Late-onset infection of total knee arthroplasty caused by the klebsiella pneumoniae bacteremia. *Orthopedics* 2006; Dec 29(12) 1129-1131.(SCI)
16. Chun-Hao Tsai, Horng-Chaung Hsu, Yen-Jen Chen, Cheng-Jyh Lin, Hsien-Te Chen: recurrent lumbar discs herniation after discectomy : clinical result of repeated discectomy and analysis of factors affecting surgical outcome. *Mid Taiwan J Med* 2007; 12:125-32.
17. Yen-Jen Chen, Gee-Chen Chang, Wen-Hsien Chen, Horng-Chaung Hsu, Tu-Sheng Lee: Local metastases along the tract of needle a rare complication of vertebroplasty in treating spinal metastases. *Spine* 2007 ; 32(21); E 615-618. I.F.: 2.351
18. Horng-Chaung Hsu, Teng-Le Huang, Jiunn-Jer Wu: Primary Anterior Cruciate Ligament Reconstruction by Dacron Prosthesis Augmented with Iliotibial Band or Fascia Lata: A 14-year Subjective Outcome Study. *Mid Taiwan Journal of Medicine* 2007; 12(4), 191-7.
19. Tai-Hua Yang, Yi-Chin Fong, Horng-Chaung Hsu, Mou-Zen Lin: Ossifying lipoma of the hand: Case report and literature review" *J Hand Surg Eur Vol* 2008; 33; 82.
20. Yung-Cheng Chiu, Yi-Chin Fong, Chih-Ho Lai, Chien-Hui Hung, Horng-Chaung Hsu, Tu-Sheng Lee, Rong-Sen Yang, Wen-Mei Fu, Chih-Hsin Tang. Thrombin-induced IL-6 production in human synovial fibroblasts is mediated by PAR1, phospholipase C, protein kinase α , c-Src, NF-kappaB and p300 pathway. *Molecular Immunology* 2008 Mar; 45(6) : 1587-99. (SCI)
21. Chin-Jung Hsu, Der-Yean Wang, Kuo-Fung Tseng, Yi-Chin Fong, Horng-Chaung Hsu, Yick-Fung Jim: Extracorporeal Shock Wave Therapy(ESWT) for calcifying tendinitis of the shoulder. *Journal of Shoulder and Elbow Surgery*. 2008; 17:55-59 (corresponding author) (SCI)
22. Chien-Chung Kuo, Chin-Jung Hsu, Wen-Hong Lee, Horng-Chaung Hsu: Concurrent ganglion cysts in the intra-articular and extra-articular knee joint. *Mid Taiwan Journal of Medicine* 2008; 13:53-7 (corresponding author)
23. Chun-Hao Tsai, Yi-Chin Fong, Yin-Hao Chen, Chin-Jung Hsu, Chia-Hao Chang, Horng-Chaung Hsu: The epidemiology of traumatic humeral shaft fracture in Taiwan. *International Orthopaedics(SICOT)* (2009) 33:463-467. (corresponding author) (SCI)

24. Chia-Hao Chang, Mou-Zen Lin, Yen-Jen Chen, Horng-Chaung Hsu, Hsien-Te Chen*: Local autogenous bone mixed with bone expander: an optimal option of bone graft in single-segment posterolateral lumbar fusion. *Surgical Neurology* 2008; 72(24) 47-49
25. Chien-Chung Lin, Chun-Chen Huang, Horng-Chaung Hsu: Rupture of Anterior Cruciate Ligament Associated With Fractures of Ipsilateral Femoral Shaft and Neck. *ORTHOPEDICS* 2008; 31:87
26. Lu TW, Tsai TY, Kuo MY, Hsu HC, Chen HL: In vivo three-dimensional kinematics of the normal knee during active extension under unloaded and loaded conditions using single-plane fluoroscopy. *Med Eng Phys.* 2008 Oct; 30(8):1004-12. Epub 2008 Apr 15.
27. Chun-Hao Tsai, Yen-Jen Chen*, Horng-Chaung Hsu, Hsien-Te Chen: Bacteremia coexisting with tophaceous gout of the spine mimicking spondylodiscitis. *Spine* 2009, 34(2) 106-109.
28. Chun-Hao Tsai, Horng-Chaung Hsu, Chun-Yin Huan, Hsien-Te Chen, Yi-Chin Fong: Late migration of threaded wire (Schanz Screw) from right distal clavicle to the cervical spine. (case report) *J Chin Med Assoc* January 2009 72(1):48-51.
29. Tsung-Yuan Tsai, Tung-Wu Lu, Mei-Ying Kuo, Horng-Chaung Hsu : Quantification of three-dimensional movement of skin markers relative to the underlying bones during functional activities. *Biomedical Engineering : Applications, Basis and Communications*, 2009, 21(3):223-232.
30. Chung-Yin Huang, Yi-Chin Fong, Chun-Yi Lee, Meng-Yi Chen, Hsiao-Chi Tsai, Horng-Chaung Hsu, Chih-Hsin Tang : CCL5 increases lung cancer migration via P13K, Akt and NF- κ B pathways. *Biochemical Pharmacology* 2009, 77(5):794-803.
31. Teng-Le Huang, Feng-Huei Lin, Horng-Chaung Hsu* : Surgical treatment for non-union of the mid-shaft clavicle using a reconstruction plate: Scapular malposition related to poor results. *J Injury* 40 (2009)231-235. (corresponding author) (SCI)
32. Chun-Hao Tsai, Yi-Chin Fong, Ying-Hao Chen, Chin-Jung Hsu, Chia-Hao Chang, Horng-Chaung Hsu*: The epidemiology of traumatic humeral shaft fractures in Taiwan. *International Orthopaedics* 2009, 33:463-467.
33. Tzu-Wei Tan, Chih-Ho Lai, Chun-Yiu Huang, Wei-Hung Yang, Hsien-Te Chen, Horng-Chaung Hsu, Yi-Chin Fong, Chih-Hsin Tang : GTGF Enhances migration and MMP-13 Up-Regulation Via α v β 3 integrin. FAK, ERK, and NF- κ B-Dependent pathway in human chondrosarcoma cells. *Journal of Cellular Biochemistry* 2009, 107:345-356.
34. Chun-Hao Tsai, Horng-Chaung Hsu, Yen-Jen Chen, Mou-Jyn Lin, Hsien-Te Chen : Using the growth factors-enriched platelet glue in spinal fusion and its efficiency. *J Spinal Disord Tech* 2009, 22(4) 246-250.
35. 134. Chun-Hao Tsai, Horng-Chaung Hsu, Yi-Chin Fong, Cheng-Jyh Lin, Ying-Hao Chen, Chin-Jung Hsu : Treatment for ipsilateral fractures of femoral neck and shaft. *Injury* 2009,
36. Yung-Cheng Chiu, Ching-Yuang Lin, Chao-Ping Chen, Kui-Chou Huang, Kwok-Man Tong, Chung-Yuh Tzeng, Tu-Sheng Lee, Horng-Chaung Hsu*, Chih-Hsin Tang : Peptidoglycan enhances IL-6 production in human synovial fibroblasts via TLR2 receptor, focal adhesion

- kinase, Akt, and AP-1-dependent pathway. *The Journal of Immunology* 2009, 183(4): 2785-92.
37. Hsiu-Chen Lin, Weng-Hang Lai, Yi-Fen Shih, Chia-Ming Chang, Chen-Yu Lo, Horng-Chaung Hsu* : Physiological anterior laxity in healthy young females : the effect of knee hyperextension and dominance. *Knee Surg Sports Traumatol Arthrosc* 2009, 17:1083-1088.
 38. Yung-Cheng Chiu, Dong-Chen Shieh, Kwork-Man Tong, Chao-Ping Chen, Kui-Chou Huang, Po-Chun Chen, Yi-Chin Fong, Horng-Chaung Hsu, Chih-Hsin Tang : Involvement of adipoR receptor in adiponectin-induced motility and $\alpha 2\beta 1$ integrin upregulation in human chondrosarcoma cells. *Carcinogenesis* 2009, 30(10):1651-1659.
 39. Chun-Yin Huang, Chun-Yi Lee, Meng-Yi Chen, Wei-Hung Yang, Ying-Hao Chen, Chia-Hao Chang, Horng-Chaung Hsu, Yi-Chin Fong, Chih-Hsin Tang : Stromal cell-derived factor-1/CXCR4 enhanced Motility of human osteosarcoma cells involves MEK1/2, ERK and NF-kB-Dependent pathways. *J Cellular Physiology* 2009, 221: 204-212.
 40. Ying-Ju Chen, Ying-Ying Wei, Hsien-Te Chen, Yi-Chin Fong, Chin-Jung Hsu, Chun-Hao Tsai, Horng-Chaung Hsu, Shing-Hwa Liu, Chih-Hsin Tang : Osteopontin increases migration and MMP-9 Up-Regulation Via $\alpha v\beta 3$ integrin, FAK, ERK, and NF-kB-Dependent pathway in human chondrosarcoma cells. *J Cellular Physiology* 2009, 221: 98-108.
 41. BonAdASIA Study Group, Kung AW, Rachman IA, Adam JM, Roeshadi D, Torralba T, Navarra S, Gamilla Z, Cañete A, de la Rosa M, Tsai K, Lin HY, Soong YK, Lan JL, Hsu HC, Tu ST, Lin RM, Yuktanandana P, Songpatanasilp T, Ngarmukos S, Soontrapa S, Rojanasthien S, Luevitonvechkij S, Leerapan T, Albert A, Vanbelle S.:Impact of bone marker feedback on adherence to once monthly ibandronate for osteoporosis among Asian postmenopausal women. *Int J Rheum Dis.*2009;12(3):216-24.
 42. Teng-Le Huang, Horng-Chaung Hsu, Kai-Chiang Yang, Chun-Hsu Yao, Feng-Huei Lin: Effect of different molecular weight hyaluronans on osteoarthritis-related cytokines production in fibroblast-like synoviocytes from patients with tibia plateau fracture. *J Trauma.* 2010 ; 68(1):146-52.
 43. Tsai TY, Lu TW, Chen CM, Kuo MY, Hsu HC.:A volumetric model-based 2D to 3D registration method for measuring kinematics of natural knees with single-plane fluoroscopy. *Med Phys.* 2010;37(3):1273-84
 44. Huang CY, Lee CY, Chen MY, Tsai HC, Hsu HC, Tang CH.: Adiponectin increases BMP-2 expression in osteoblasts via AdipoR receptor signaling pathway. *J Cell Physiol.* 2010 Apr 2.
 45. Teng-Le Huang, Horng-Chaung Hsu, Kai-Chiang Yang, Chun-Hsu Yao, Feng-Huei Lin: Hyaluronan up-regulates IL-10 expression in fibroblast-like synoviocytes from patients with tibia plateau fracture. *Journal Orthop Res*, 2010. Oct.18
 46. Hsiu-Chen Lin, Horng-Chaung Hsu, Tung-Wu Lu : Bilateral changes in ground reaction forces during stair locomotion in patients with unilateral anterior cruciate ligament deficiency. *Journal of Mechanics* (accepted)

47. I-Tzun Tsai, Chin-Jung Hsu, Ying-Hao Chen, Yi-Chin Fong, Horng-Chaung Hsu, Chun-Hao Tsai: Fat embolism syndrome in long bone fracture-clinical experience in a tertiary referral center in Taiwan. *J Chun Med Assoc* August 2010 73(8) 407-10.
48. Chen YJ, Chen HY, Hsu HC: Tuberculous spondylitis and paravertebral abscess formation after kyphoplasty : a case report. *Spine* 2010;35: E559-63.
49. Tsai CH, Muo CH, Fong YC, Lo WY, Chen YJ, Hsu HC, Sung FC: A population-based study on trend in incidence of distal radial fractures in adults in Taiwan in 2000-2007. *Osseoporos Int.* 2010 Nov 25.
50. Huang CY, Lee CY, Chen MY, Tsai HC, Hsu HC, Tang CH: Nephroblastoma overexpressed gene (NOV) enhances cell motility and COX-2 upregulation of human osteosarcoma involves $\alpha\beta 5$ integrin, ILK and AP-1-dependent pathways. *Biochem Pharmacol.* 2010 Dec 9.
51. Chien-Chung Kuo, Horng-Chaung Hsu, Shih-Wun Hong Tung-Wu Lu*: Biomechanical assessment of tension-band wiring for olecranon fractures , *Biomedical Engineering - Applications, Basis and Communications* , 2011 Jan , 23(1):83-87 (EI)
52. Yen-Jen Chen, Da-Fu Lo, Chia-Hao Chang, Hsien-Te Chen, Horng-Chaung Hsu: The Value of Dynamic Radiographs in Diagnosing the Painful Vertebrae in Osteoporotic Compression Fractures , *AMERICAN JOURNAL OF NEURORADIOLOGY* , 2011 Jan , 32(1):121-124 (SCI)
53. Teng-Le Huang*, Horng-Chaung Hsu, Chun-Hsu Yao, Yueh-Sheng Chen, Jeff Wang: Anti-inflammatory and Structure-protective Effects of Hyaluronans: Are These Effects molecular , *Biomedical Engineering - Applications, Basis and Communications* , 2011 Jan , 23(1):13-20 (EI)
54. I-Tzun Tsai, Chin-Jung Hsu, Yi-Chin Fong, Horng-Chaung Hsu, Chun-Hao Tsai, Chia-Hao Chang: Simultaneous ipsilateral hip and knee fracture-dislocations , *中華民國骨科醫學雜誌* , 2011 Feb , 2:66-70
55. Mei-Ying kuo, Tsung-Yuan Tsai, Cheng-Chung Lin, Tung-Wu Lu*, Horng-Chaung Hsu, Wu-Chung Shen: Influence of Soft Tissue Artifacts on the Calculated Kinematics and Kinetics of Total Knee Replacements During Sit-to-Stand , *GAIT & POSTURE* , 2011 Mar , 33(3):379-384 (SCI)
56. Chun-Yin Huang, Chun-Yi Lee, Meng-Yi Chen, Horng-Chaung Hsu, Tang Chih-Hsin*: Nephroblastoma overexpressed gene (NOV) enhances cell motility and COX-2 upregulation of human osteosarcoma involves $\alpha\beta 5$ integrin, ILK and AP-1-dependent pathways , *BIOCHEMICAL PHARMACOLOGY* , 2011 Mar , 81(5):577-585 (SCI)
57. Teng-Le Huang, Horng-Chaung Hsu, Kai-Chiang Yang, Feng-Huei Lin*: Hyaluronan Up-regulates IL-10 Expression in Fibroblast-like Synoviocytes from Patients with Tibia Plateau Fracture , *JOURNAL OF ORTHOPAEDIC RESEARCH* , 2011 Apr , 29():495-500 (SCI)
58. Hsiu-Chen Lin, Chia-Ming Chang, Horng-Chaung Hsu, Weng-Hang Lai, Tung-Wu Lu*: A new diagnostic approach using regional analysis of anterior knee laxity in patients with anterior cruciate ligament deficiency , *KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY* , 2011 May , 19(5):760-767 (SCI)

59. Hsien-Te Chen*, Chun-Hao Tsai, Shao-Ching Chao, Ting-Hsien Kao, Yen-Jen Chen, Horng-Chaung Hsu, Chiung-Chyi She, Hsi-Kai Tsou: Endoscopic discectomy of L5-S1 disc herniation via an Interlaminar approach : Prospective controlled study under local and general anesthesia. *Surgical Neurology International* , 2011 Jun , 2(1):93-99
60. Mei-Ying ku, Cheng-Chung Lin, Shih-Wun Hong, Tsung-Yuan Tsai, Horng-Chaung Hsu, Tung-Wu Lu*: influence of open and closed kinetic chain exercise on the surface kinematics of total knee replacements , *BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS* , 2011 Apr , 23(4):279-285 (SCI)
61. Chun-Yi Lee, Chun-Yin Huang, Meng-Yi Chen, Ching-Yuang Lin, Horng-Chaung Hsu, Tang Chih-Hsin*: IL-8 increases integrin expression and cell motility in human chondrosarcoma cells , *JOURNAL OF CELLULAR BIOCHEMISTRY* , 2011 Sep , 112(9):2549-2557 (SCI)
62. Hsiu-Chen Lin, Horng-Chaung Hsu, Tung-Wu Lu*: Bilateral Changes in Ground Reaction Forces in Patients with Unilateral Anterior Cruciate Ligament Deficiency during Stair Locomotion , *JOURNAL OF MECHANICS* , 2011 Sep , 3(27):437-445 (SCI)
63. Chun-Hao Tsai, Yi-Chin Fong, Wan-Yu Lo, Yen-Jen Chen, Horng-Chaung Hsu*, Fung-Chang Sung*: A population-based study on trend in incidence of distal radial fractures in adults in Taiwan in 2000 – 2007 , *OSTEOPOROSIS INTERNATIONAL* , 2011 Nov , 22(11):2809-2815 (SCI)
64. Yen-Jen Chen*, Hui-Yi Chen, Horng-Chaung Hsu: Sequential Magnetic Resonance Imaging Changes in Osteoporotic Compression Fractures: Can It Be Used as a Risk Predictor for Nonunion? , *SPINE* , 2011 Dec , 36(26):2363-2363 (SCI)
65. Huey-En Tzen, Jui-Ching Chen, Chun-Hao Tsai, Chien-Chung Kuo, Horng-Chaung Hsu, Wen-Lee Hwang, Yi-Chin Fong, Tang Chih-Hsin*: CCN3 increases cell motility and MMP-13 expression in human chondrosarcoma through integrin-dependent pathway , *JOURNAL OF CELLULAR PHYSIOLOGY* , 2011 Dec , 226(12):3181-3189 (SCI)
66. Yen-Jen Chen*, Hui-Yi Chen, Po-Pang Tsai, Da-Fu Lo, Hsien-Te Chen, Horng-Chaung Hsu: Significance of dynamic mobility in restoring vertebral body height in vertebroplasty , *AMERICAN JOURNAL OF NEURORADIOLOGY* , 2012 Jan , 33(1):57-60 (SCI)
67. Yen-Jen Chen*, Wen-Hsien Chen, Hsien-Te Chen, Horng-Chaung Hsu: Repeat Needle Insertion in Vertebroplasty to Prevent Re-collapse of the Treated Vertebrae , *EUROPEAN JOURNAL OF RADIOLOGY* , 2012 Mar , 81(3):558-561 (SC)
68. Chun-Yi Lee, Mei-Ju Su, Chun-Yin Huang, Meng-Yi Chen, Horng-Chaung Hsu, Ching-Yuang Lin*, Tang Chih-Hsin*: Macrophage migration inhibitory factor increases cell motility and up-regulates $\alpha v \beta 3$ integrin in human chondrosarcoma cells , *JOURNAL OF CELLULAR BIOCHEMISTRY* , 2012 May , 113(5):1590-1598 (SCI)
69. Tan Tzu-Wei, Yuan-Lin Huang, Jung-Tzu Chang, Jen-Jyh Lin, Yi-Chin Fong, Chien-Chung Kuo, Chun-Hao Tsai, Yen-Jen Chen, Horng-Chaung Hsu, Der-Yang Cho, Yi-Hung Chen*, Tang Chih-Hsin*: CCN3 increases BMP-4 expression and bone mineralization in osteoblasts , *JOURNAL OF CELLULAR PHYSIOLOGY* , 2012 Jun , 227(6):2531-2541 (SCI)

70. Lu Dah-Yuu*, Jia-Hong Chen, Tan Tzu-Wei, Chih-Yang Huang, Wei-Lan Yeh, Horng-Chaung Hsu: Resistin protects against 6-hydroxydopamine-induced cell death in dopaminergic-like MES23.5 cells , JOURNAL OF CELLULAR PHYSIOLOGY , 2012 Apr , (): (SCI)
71. Chun-Yin Huang, Shi-Yann Cheng, Hsiao-Chi Tsai, Horng-Chaung Hsu, Tang Chih-Hsin*: Thrombin induces EGFR transactivation and CCL2 expression in human osteoblasts , ARTHRITIS AND RHEUMATISM , 2012 Oct , 64(10):3344-3354 (SCI)
72. Chien-Chung Kuo, Chien-Chun Chang, Horng-Chaung Hsu, Tung-Wu Lu*, Nien-Ying Tsai” Potocki-Lupski syndrome with teratologic dislocation of the hip : a case report , JOURNAL OF PEDIATRIC ORTHOPAEDICS-PART B , 2013 Jan , 22:
73. Chun-Hao Tsai, Yi-Chun Chiang, Hsien-Te Chen, Po-Hao Huang, Horng-Chaung Hsu, Chin-Hsin Tang: High glucose induces vascular endothelial growth factor production in human synovial fibroblasts through reactive oxygen species generation , 2013 Mar , 1830(3):2649~2658 (SCI)
74. Dah-Yuu Lu, Jia-Hong Chen, Tzu-Wei Tan, Chih-Yang Huang, Wei-LAN yeh, Horng-Chaung Hsu: Resistin protects against 6-hydroxydopamine-induced cell death in dopaminergic-like MES23.5 cells , 2013MAR , 228(3):563~571(SCI)
75. Shih-Fen Hsiao, Pei-His Chou, Horng-Chaung Hsu, Yi-Jing Lue: Changes of mechanics associated with anterior cruciate ligament deficiency and reconstruction , 2013MAY , DOI10.1519/JSC.0b013e3182986cc1(SCI)
76. Chien-Chung Kuo, Hsuan-Lun Lu, Alberto Leardini, Tung-Wu Lu, Mei-Ying Kuo, AND Horng-Chaung Hsu: Three-Dimensional Computer Graphics-Based Ankle Morphometry With Computerized Tomography for Total Ankle Replacement Design and Positioning , 2013AUG , DOI: 10.1002/ca.22296 (SCI)
77. Chin-Jung Hsu, Min-Huan Wu, Chin-Yuan Chen, Chun-Hao Tsai, Horng-Chaung Hsu and Chin-Hsin Tang: AMP-activated protein kinase activation mediates CCL3-induced cell migration and matrix metalloproteinase-2 expression in human chondrosarcoma , 2013SEP , 11(68):1 ~ 15 (SCI)
78. Chun-Hao Tsai, Chin-Hsin Muo, Huey-Em TZENG, Chin-Hsin Tang, Horng-Chaung Hsu, Fung-Chang Sung: Fracture in Asian Women with Breast Cancer Occurs at Younger Age , 2013SEP , doi:10.1371/journal.pone.0075109 (SCI)
79. Chun-Yin Huang, Hsiu-Jung Lin, Hsin-Shui Chen, Shi-Yann Cheng , Horng-Chaung Hsu, and Chin-Hsin Tang: Thrombin promotes matrix metalloproteinase-13 expression through the PKC δ /c-Src/EGFR/PI3K/Akt/AP-1 signaling pathway in human chondrocytes , 2013NOV , Article ID 326041 (SCI)
80. Chien-Chung Kuo, Hsuan-Lun Lu, Tung-Wu Lu, Cheng-Chung Lin, Alberto Leardini, Mei-Ying Kuo AND Horng-Chaung Hsu: Effects of Positioning on Radiographic Measurements of Ankle Morphology: A Computerized Tomography-Based Simulation Study , 2013DEC , doi:10.1186/1475-925X-12-131 (SCI)
81. Y-J.Chen, P-T.Kung, Y-H.Wang, S-C.Hsu, H-C.Hsu: Greater Risk of Hip Fracture in Hemodialysis than in Peritoneal Dialysis. 2014FEB , DOI 10.1007/s00198-014-2632-6 (SCI)

82. Yen-Jen Chen, Hui-Yi Chen, Horng-Chaung Hsu: Re: Infection after vertebroplasty or kyphoplasty. A series of nine cases and review of literature. *Spine J* 13:1809–17 , 2014JUN , 14(6):1366 ~ 1369 (SCI)
83. Chun-Hao Tsai, Chieh-Sen Chuang, Chin-Hung Hung, Cheng-Li Lin, Fung-Chang Sung, Chin-Hsin Tang, Horng-Chaung Hsu, and Chi-Jung Chung: Fracture as an Independent Risk Factor of Dementia: A Nationwide Population-Based Cohort Study , 2014NOV , 93(26):e188 ~ e194 (SCI)
84. Chen HC, Huang TL, Chen YJ, Tsou HK, Lin WC, Hung CH, Tsai CH, **Hsu HC**, Chen HT.: A Minimally Invasive Endoscopic Surgery for Infectious Spondylodiscitis of the Thoracic and Upper Lumbar Spine in Immunocompromised Patients. *Biomed Res Int.* 2015;2015:780451. doi: 10.1155/2015/780451. Epub 2015 Jul 26.
85. Chang CC, Chen YJ, Lo DF, Chen HT, **Hsu HC**, Lin RM.: Palliative transpedicular partial corpectomy without anterior vertebral reconstruction in lower thoracic and thoracolumbar junction spinal metastases. *J Orthop Surg Res.* 2015 Jul 17;10(1):113. doi: 10.1186/s13018-015-0255-z.
86. Tzeng HE, Muo CH, Chen HT, Hwang WL, **Hsu HC**, Tsai CH.: Tamoxifen use reduces the risk of osteoporotic fractures in women with breast cancer in Asia: a nationwide population-based cohort study. *BMC Musculoskelet Disord.* 2015 May 20;16(1):123. doi: 10.1186/s12891-015-0580-8.
87. Lin TL, Li YF, Hsu CJ, Hung CH, Lin CC, Fong YC, **Hsu HC**, Tsai CH.: Clinical outcome and radiographic change of ipsilateral scapular neck and clavicular shaft fracture: comparison of operation and conservative treatment. *J Orthop Surg Res.* 2015 Jan 28;10(1):9. doi: 10.1186/s13018-014-0141-0.

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