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PRESENTATION:

1. **Robert Wen-Wei Hsu**: "Arthroscopic Surgery of the Knee Joint." 16th Congress, Orthopedic Association of R.O.C., Taiwan, Oct., 1983.
2. **Robert Wen-Wei Hsu**: "Management of PVS in the Knee Joint." 17th Congress, Orthopedic Association of R.O.C., Taiwan, April, 1984.
3. **Robert Wen-Wei Hsu**: "Sunovial Hemangioma of Knee Joint." 18th Congress, Orthopedic Association of the R.O.C., Taiwan, November, 1984.
4. **Robert Wen-Wei Hsu**: "Arthroscopic Role in the Management of Knee Joint Disorders. - An Analysis of 355 Cases." 18th Congress, Orthopedic Association of R.O.C., Taiwan, November, 1984.
5. **Robert Wen-Wei Hsu**: Secondary Reconstruction of Posterior Cruciate Ligament. 18th Congress, Orthopedic Association of R.O.C., Taiwan, November, 1984.
7. **Robert Wen-Wei Hsu**: "Management of Patellofemoral Pain Syndrome." 20th Congress, Orthopedic Association of R.O.C., Taiwan, April, 1985.
8. **Robert Wen-Wei Hsu**: "Arthroscopic Meniscectomy of Knee Joint." 20th Congress, Orthopedic Association of R.O.C., Taiwan, Oct., 1985.
9. **Robert Wen-Wei Hsu**: "The Retrospective Study of P.C.A. Total Knee Replacement - An Analysis of 106 Cases with One to Four Years Follow-up." 20th Congress, Orthopedic Association of R.O.C., Taiwan, Oct., 1985.
10. **Robert Wen-Wei Hsu**., S. Himeno, M.B. Coventry & E.Y.S. Chao: "Normal Axial Alignment of Lower Extremity and Load Bearing Capacity of Knee Joint." 1998 ORS Annual Meeting, Atlanta, Georgia, Feb. 4-7, 1988.
11. **Robert Wen-Wei Hsu**: "The Study of Maquet Dome High Tibial Osteotomy." 55th AAOS Annual Meeting, at Atlanta, Georgia, Feb. 4-7, 1988.
12. **Robert Wen-Wei Hsu**, Franklin H. Sim, E.Y.S. Chao, Mark.B. Coventry & Bernard F. Morrey: "The Radiographic and Clinical Analysis of Redo Upper Tibial Osteotomy." 56th AAOS Annual Meeting, at Las Vegas, Nevada, Feb.9-14, 1989.
13. **Robert Wen-Wei Hsu** & Michael B. Wood: "The Free Vascularized Fibular Transfer for the Skeletal Defect Reconstruction after Tumor Resection." 56th AAOS Annual Meeting, at Las Vegas, Nevada, Feb. 9-14, 1989.

14. **Robert Wen-Wei Hsu**, Franklin H. Sim & E.Y.S. Chao: "Reoperation of Failed Prosthetic Replacement in Limb Salvage." 56th AAOS Annual Meeting, at Las Vegas, Nevada, Feb. 9-14, 1989.
15. **Robert Wen-Wei Hsu**: "The subcutaneous lateral release for the patello-femoral pain syndrome." 1st international congress of knee and sports medicine, WPOA, Yokohama, Japan, July 4-6, 1989.
16. **Robert Wen-Wei Hsu**: "Role of arthroscopic assessment in high tibial osteotomy." Presented at 1st international congress of knee and sports medicine, WPOA, Yokohama, Japan, July 4-6 1989.
17. **Robert Wen-Wei Hsu**, S.F. Wei, C.H. Shih, W.P. Ho: "The gait analysis after secondary reconstruction of posterior cruciate ligament deficient knee." SICOT 90, 18th World Congress, Sept. 8-15, 1990.
18. **Robert Wen-Wei Hsu**, & W.P. Ho: "The follow-up study of PCA total knee arthroplasty." The second congress of knee and orthopedic sports medicine section of WPOA, Seoul, Korea, July 3-6, 1991.
19. **Robert Wen-Wei Hsu**, Y.H. Lin & W.P. Ho: "Functional evaluation of the reconstructed PCL deficient knee." The second congress of knee and orthopedic sports medicine section of WPOA, Seoul, Korea, July 3-6, 1991.
20. **Robert Wen-Wei Hsu**: "The Assessment of Osteotomy for Osteoarthritis Knee Joint." The 10th meeting of W.P.O.A., Jakarta-Indonesia, Nov. 2-7, 1992.
21. **Robert Wen-Wei Hsu**, Y.H. Lin, T.H. Chen, W.P. Ho: "Functional Evaluation of the Reconstructed Posterior Cruciate Ligament (PCL) Deficient Knee." Combined Congress of the International Arthroscopy Association and the International Society of the Knee, Copenhagen Denmark, June 25-30, 1993.
22. **Robert Wen-Wei Hsu**: Patellar Complications in Total Knee Arthroplasty "Preoperative Arthrometric Evaluation of Anterior and Posterior Knee Laxity by KT-1000 and Genucom. The Third Congress of Knee and Orthopaedic Sports Medicine Section of W.P.O.A., Sydney, Australia, Sep. 8-11, 1993.
23. **Robert Wen-Wei Hsu**: "Practical Consideration in Revision TKR." Academy of Medicine, Singapore School of Postgraduate Medicine, NUS, Singapore Orthopaedic Association, Dec. 1-4, 1993.

24. **Robert Wen-Wei Hsu**: "Degenerative Arthrosis and Osteotomy." 骨科研究學會、生物力學學會合辦研討會，成功大學第三講堂，Sep.10, 1994.
25. **Robert Wen-Wei Hsu**: "Pre-operative Arthrometric Assessments of Cruciate Ligament Deficient Knee." Advances in Orthopaedic Biomechanics and Their Clinical Applications, Baltimore, Maryland, USA, Oct. 27-30,1994.
26. **Robert Wen-Wei Hsu**: "Arthroscopy Surgery in Taiwan." The 4th Annual Congress of the Hong Kong Orthopedic Association (C.S.O.S.) and The Inaugural Scientific Meeting of the Chinese Speaking Orthopedic Society (H.K.O.A.), Hong Kong, Nov. 11-13, 1994.
27. **Robert Wen-Wei Hsu**: "An Overview of Sports Injuries." 台北師範大學健康中心, Dec. 1,1994.
28. **Robert Wen-Wei Hsu**: "An Overview of Sports Injuries." 國立體育學院, Dec. 9, 1994.
29. **Robert Wen-Wei Hsu**: "Arthroscopic Aided ACL Reconstruction." 外科醫學會月會, Jan. 18, 1995.
30. **Robert Wen-Wei Hsu**: "Total Knee Arthroplasty - The past, present and future status." 高雄長庚醫院外科部演講, Sep. 27, 1995.
31. **Robert Wen-Wei Hsu**: "Patellar Resurfacing vs Nonresurfacing in Total Knee Arthroplasty." 中華民國關節重建醫學會八十四年會員大會暨學術研討會, Sep. 30,1995.
32. **Robert Wen-Wei Hsu**: "Complications of Revision Total Knee Arthroplasty." 中華民國骨科醫學會八十四年會員大會暨學術研討會, Oct. 21-22, 1995
33. **Robert Wen-Wei Hsu**: "The Bony Dimensional Study of Knee Joints in Chinese Arthritic Populations - A Database Study." Asian Total Hip and Knee Arthroplasty Symposium, Nov.9-11, 1995.
34. **Robert Wen-Wei Hsu**: "Isokinetic Assessment of Patello-femoral Mal-tracking Syndrome." 第六屆(1996)中日骨科交流研討會, Japan, May 12-17, 1996.
35. **Robert Wen-Wei Hsu**: "Patellar Complications after Total Knee Arthroplasty." 第六屆(1996)中日骨科研討會, Japan, May 12-17, 1996.

36. **Robert Wen-Wei Hsu**: "Management of tumorous lesions about the shoulder girdle." 2nd Academic Congress, Asian Shoulder Association, Perth, Western, Australia, Oct. 2-5, 1996.
37. **Robert Wen-Wei Hsu**: "運動傷害與保健", 健康體適能講座研習會, 台北市立體育學院, Taipei, May 26, 1997.
38. **Robert Wen-Wei Hsu**: "Patellar Complications after TKA" Intercongress SICOT 1997, Grand Hyatt Hotel, Seoul, Korea, , Aug. 28-31, 1997.
39. **Robert Wen-Wei Hsu**: "Isokinetic Assessment of Patello-femoral Pain Syndrome" Asia Pacific Orthopaedic Society for Sports Medicine (APOSSM) and the Knee and Orthopaedic Sports Medicine Section of the Western Pacific Orthopaedic Association (WPOA, KOSM), and Annual Congress of Sports Medicine Association, R.O.C., Grand Formosa Regent, Taipei, Taiwan, Nov. 5-8, 1997.
40. **Robert Wen-Wei Hsu**: "Patellar Resurfacing vs Non-resurfacing" Asia Pacific Orthopaedic Society for Sports Medicine (APOSSM) and the Knee and Orthopaedic Sports Medicine Section of the Western Pacific Orthopaedic Association (WPOA, KOSM), and Annual Congress of Sports Medicine Association, R.O.C., Grand Formosa Regent, Taipei, Taiwan, Nov. 5-8, 1997.
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42. **Robert Wen-Wei Hsu**: "Severe Knee Deformity" 人工關節研習會, 台北榮總骨科部, Nov. 17-18, 1998.
43. **Robert Wen-Wei Hsu**: "談運動外傷" 全院性特別演講, 中山醫學院附設孫中山先生紀念醫院, Nov. 24, 1998.
44. **Robert Wen-Wei Hsu**: "Revision Total Knee Arthroplasty". The 72nd Annual Meeting of the Japanese Orthopaedic Association, Yokohama, Japan Apr. 7-11, 1999.
45. **Robert Wen-Wei Hsu**: "Total Knee Arthroplasty: Patella Resurfacing versus Nonresurfacing". The 72nd Annual Meeting of the Japanese Orthopaedic Association, Yokohama, Japan Apr. 7-11, 1999.

46. **Robert Wen-Wei Hsu**: "Material Analysis of the Tibial Components of the Retrived Total Knee Arthroplasties". The 72nd Annual Meeting of the Japanese Orthopaedic Association, Yokohama, Japan Apr. 7-11, 1999 (Poster)
47. **Robert Wen-Wei Hsu**: "The role of computer simulation surgery in the outcome of high tibial osteotomy". Taiwan-Japanese Orthopaedic Symposium (II), National Taiwan University Hospital, Taipei, Taiwan, May 1, 1999.
48. **Robert Wen-Wei Hsu**: "The Assessment of Isokinetic Exercise for Patellfemoral Malalignment Syndrome". Annual Meeting of Orthopedic Research Society R.O.C., National Taiwan University Hospital, Taipei, Taiwan, Nov. 20, 1999.
49. **Robert Wen-Wei Hsu**: "Material Analysis of the Tibial Components of the Retrived Total Knee Arthroplasties". The 1st Congress of Asia-Pacific Knee Society (Knee Section of Combined with Japanese Knee Society Meeting), Tokyo, Japan, Feb. 18-20, 2000.
50. **Robert Wen-Wei Hsu**: "The Arthroscopy Role in High Tibial Osteotomy". 八十九年膝關節及關節鏡學術研討會,高雄長庚醫院, Apr. 29, 2000.
51. **Robert Wen-Wei Hsu**: "The Role of High Tibial Osteotomy on the Osteoarthritis of Knee Joint". 八十九年膝關節及關節鏡學術研討會,高雄長庚醫院, Apr. 29, 2000.
52. **Robert Wen-Wei Hsu**: "TKA in Unstable Knees". 八十九年骨科醫學會年會暨學術研討會,台北榮總, Taiwan, Oct. 13-15, 2000.
53. **Robert Wen-Wei Hsu**: "Computer Simulation High Tibial Osteotomy for the Osteoarthritis of Knee Joint". 八十九年骨科醫學會年會暨學術研討會,台北榮總, Taiwan, Oct. 13-15, 2000.
54. **Robert Wen-Wei Hsu**: "Endoscopy in Orthopedic Surgery". 26th Annual Meeting of Japan Arthroscopy Association Symposium on "Future Development of Arthroscopic Surgery in Asia",Japan, Dec. 1-2, 2000.
55. **Robert Wen-Wei Hsu**: "Experience of IGS-TKA." Symposium of the Spectrum in Design and Implantation of Total Knee Arthroplasty in 2002, 嘉義長庚 April 16, 2002.

56. **Robert Wen-Wei Hsu**: “Treatment of combined Interior Cruciate Ligment and Posterior Crucaite Ligment Injury -current trend” 亞太骨骼肌肉震波研討會 May 4, 2002.
57. **Robert Wen-Wei Hsu**: “Kinematics-Does it matter?” APAS 2002, Thailand, Sep. 7, 2002.
58. **Robert Wen-Wei Hsu**: “ Navigation in total Knee Arthroplasty” XXXIII World Congress of the International College of Surgeons, Taipei, October 31, 2002
59. **Robert Wen-Wei Hsu**: Second Asian ISSAM Meeting on the Aging Male 台北 國際會議中心 March 8, 2003.
60. **Robert Wen-Wei Hsu**: CT-Based IGS TKA – CGMH experience 2nd ASIAN ORTHOPAEDIC Image-Guided Surgery, Hands-on Surgery Workshop 嘉義長庚醫院, March 15, 2003.
61. **Robert Wen-Wei Hsu**: Dissecting Popliteal Cyst Resulting From a Fragmented, Dislodged Metal Part of the Patellar Component After Total Knee Arthroplasty. & Metastatic meningioma in the sacrum: a case report. (E poster presentation program) 2002年SCI骨科期刊論文研究成果發表會, 高雄醫學大學, March 29, 2003.
62. **Robert Wen-Wei Hsu**: Experiences with the Ct-based Navigation for TKR. The 44th Congress of Taiwan Orthopaedic association, 台南成功大學醫學中心, April 20, 2003.
63. **Robert Wen-Wei Hsu**: 談更年期骨質的流失 中華民國更年期協會：嘉義民眾衛教演講暨座談會, 嘉義市立文化中心, May 10, 2003.
64. **Robert Wen-Wei Hsu**: Effect of shockwave therapy on patellar tendinopathy in a rabbit model. 2003 Northern Region Congress APOA in conjunction with 3rd Annual Meeting of Pacific Asian Society of Minimally Invasive Spine Surgery (PASMIS), the Grand Hotel, Taipei, Taiwan, Dec. 5-6, 2003.
65. **Robert Wen-Wei Hsu**: The Navigation Total Knee Arthroplasty — A Comparison of CT Based TKA with Traditional TKA 彰化秀傳醫院 January 17, 2004.

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67. **Robert Wen-Wei Hsu**: 7th Congress of the international society for musculoskeletal shockwave therapy, Kaohsiung, Taiwan, The Grand Hotel April 1 – 4, 2004.
68. **Robert Wen-Wei Hsu**: Treatment of instability after TKA. 中華民國骨科醫學會第四十六次學術研討會，台中榮總，April 24-25,2004.
69. **Robert Wen-Wei Hsu**: The Navigation Total Knee Arthroplasty – A Comparison of CT Based TKA Versus Traditional TKA. Third Asia Pacific Orthopaedic Symposium 2004, Hawaii, June 5, 2004.
70. **Robert Wen-Wei Hsu**: Result of the BrainLab CT-Free Navigation system in total knee arthroplasty: comparison with conventional procedure. CAOS-International Conference, Chicago, June 16-20, 2004 (Poster).
71. **Robert Wen-Wei Hsu**: CT-free computer-assisted knee arthroplasty: A preliminary study. CAOS-International Conference, Chicago, June 16-20 2004 (Poster).
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73. **Robert Wen-Wei Hsu**: Navigation total hip arthroplasty. CAOS-International Conference, Chicago, June 16-20, 2004 (Poster).
74. **Robert Wen-Wei Hsu**: CT-Free Computer Assisted TKA- Early Experience in 69 patients. The 3rd Insall Club Meeting, Thailand, July 31-August 2, 2004
75. **Robert Wen-Wei Hsu**: Computer aided surgery: What are the differences? 14th Triennial Congress APOA 2004, Malaysia, September 5-9, 2004
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79. **Robert Wen-Wei Hsu**: 中華民國骨科醫學會94年度第49次聯合學術研討會- Concerns & controversies in primary TKA Preserve or Resurface the Patella, 台北榮總醫院, October 29-30, 2005. **Robert Wen-Wei Hsu**: 第一屆運動醫學、運動傷害研討會 專題演講-運動員的膝關節傷害(Athletes' Knee Injuries), 新光人壽教育會, November 19, 2005.
81. **Robert Wen-Wei Hsu**: The benefit of CAS TKA. Asia-Pacific Symposium on CAS/MIS 2005 in Conjunction with 4th Anniversary of CGMH at Chia-Yi, Taiwan, December 10, 2005.
82. **Robert Wen-Wei Hsu**: 棒球運動員傷後體能調整防護研討會 專題演講- The Diagnosis and Management of Sports Injury, 長庚醫院桃園分院, February 25, 2006.
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102. **Robert Wen-Wei Hsu**: 身心健康管理講座，嘉義縣政府創新學院，April 14, 2010.
103. **Robert Wen-Wei Hsu**: 長庚醫院的願景與精神 永慶講座，嘉義縣立永慶高級中學，August 8, 2010.
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研究計畫

主持人：

1. 後十字韌帶外傷晚期修補終極結果之功能評估。NSC79-0412-B182A-30 (國科會，主持人79/06 – 80/06)。
2. 正常中國人膝關節的穩定性。NSC81-0412-B182-38 (國科會，主持人80/08 – 81/07)。
3. 比較自體骨移植及異體骨間質。NSC82-0412-B182-040 (國科會，主持人82/03 – 83/02)。
4. 正常中國人膝關節的骨骼尺寸及幾何形狀分析。NSC83-0420-E-182A-001 (國科會，主持人83/02 – 84/07)。
5. 等速運動對膕骨股骨列位不良症候群的評估及其可能應用的新探討。NSC84-2331-E-182-005 (國科會，主持人84/08–85/07, 85/08-86/07, NMRP904): The Assessment and Possible Application of Isokinetic Exercise for Patellfemoral Malalignment Syndrome.
6. 失敗人工膝關節的臨床、放射線及材料評估。(衛生署，主持人85/07 – 87/06, , PMRP 193, PMRP230): The Critical Assessment of Failed Total Knee Arthroplasty – A Clinical, Radiographic and Material Analysis.
7. 退化性膝關節炎的基礎及臨床研究。(國科會，總計劃主持人85/08 - 87/07)。
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9. 全膝置換術膕骨保留及置換的臨床表現之先行研究 (1/2)。NSC88-2314-B-182A-073 (國科會，主持人87/08 - 88/07, NMRP390): A Prospective Study of Clinical Performance of Total Knee Arthroplasty either with Patellar Retention or Resurfacing (1/2).

10. 全膝置換術臏骨保留及置換的臨床表現之先行研究 (2/2)。
NSC89-2320-B-182A-017 (國科會, 主持人 88/08 - 89/07, NMRP566): A Prospective Study of Clinical Performance of Total Knee Arthroplasty either with Patellar Retention or Resurfacing(2/2).
11. 震波促進骨折癒合之原理研究: 震波對骨折癒合時的骨密度與機械力學影響。
CMRP909(長庚醫院, 主持人 88/11 - 89/10): The Effect of ECSW on the Healing of Tibial Fracture – A Study of Bone Mineral Density Versus Mechanical Strength on Rabbit Model.
12. 人工膝關節術後金屬磨耗的組織反應以及金屬離子在血液、尿液、軟組織及關節液的濃度。NSC89-2314-B-182A-187 (國科會, 主持人 89/08-90/07, NMRPG9101): The Metallic Wear with Tissue Response and Metallic Ion Concentration in the Blood, Urine, Soft Tissue and Joint Fluid in the Patients after Total Knee Arthroplasty.
13. 震波治療對兔子臏骨韌帶韌帶炎之作用及機轉之探討。
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18. 九十二年度畢業後一般醫學訓練計畫-嘉義。(衛生署, 主持人 PMRPG2080, 92/9/1-93/8/31)

19. 導航系統對人工髖關節的效益評估。(長庚醫院, 主持人93/11-94/10) : The Assessment of Efficacy of Navigation System.
20. 嘉義-九十三年度教學門診暨教學住診補助作業。(衛生署, 主持人PMRPG3040, 93/1/1-93/12/31)
21. 93年度~94年度畢業後一般醫學訓練計畫。(衛生署, 主持人PMRPG3081, 93/8/1-94/7/31)
22. 震波對兔子骨骼肌肉肌膜引發點的效應。(國科會, 主持人94/08/01-95/07/31, NMRPG640011)
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24. 94年度畢業後一般醫學訓練計畫。(衛生署, 主持人PMRPG640041, 94/8/1-95/7/31)
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27. 95年度畢業後一般醫學訓練計畫-嘉義。(衛生署, 主持人PMRPG650031, 95/8/1-96/7/31)
28. 一開放、多中心研究: 評估每季靜脈注射一次ibandronate, 對罹患停經後骨質疏鬆症。(廠商贊助計畫, 主持人XMRPG660071, 96/7/10-97/9/9)
29. 以兔子模式解釋震波治療對慢性肌肉疼痛的效應。(國科會, 主持人96/08/01-97/07/31, NMRPG660031)
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31. 97年度衛生署嘉義院區教學費用補助計畫。(衛生署, 主持人VMRPG67001, 97/8/1-97/12/31)
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36. 骨折後骨質疏鬆症的照護在亞洲之間的差距研究(亞洲差距研究)(廠商贊助計畫, 主持人XMRPG670091, 97/11/10-98/5/9)
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40. 一項隨機、安慰劑對照的第三期臨床研究, 評估Odanacatib(MK-0822)在降低以維生素D和鈣質治。(廠商贊助計畫, 主持人XMRPG680081, 98/4/20-99/6/19)
41. 國健局-98年度癌症診療品質提升暨安寧共同照護服務計畫。(衛生署, 主持人PMRPG680031, 98/1/1-98/12/31)
42. 嘉義長庚醫院人工關節置換術登錄。(長庚醫院, 主持人CMRPG680271, 98/7/1-99/9/30)
43. 奈米級複合式生物黏膠應用於促進骨組織修復-使用智慧型奈米機器人評估成效。(長庚醫院, 主持人CMRPG680531, 98/11/1-99/10/31)
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48. 運動醫學整合型研究之總計畫: 體適能與健康促進: 以運動治療對慢性疾病患者的體適能與健康功能之影響。(長庚醫院, 主持人CMRPG690101, 99/5/1-100/4/30)
49. 運動醫學整合型研究之子計畫一: 運動介入對骨質疏鬆患者生物標記、骨質密度及生活品質之影響。(長庚醫院, 主持人CMRPG690111, 99/5/1-100/4/30)
50. 國民健康局-99年度癌症醫療品質提升補助計畫。(衛生署, 主持人PMRPG690031, 99/1/14-99/12/31)
51. 體適能增進對骨質疏鬆患者之影響。(國科會, 主持人NMRPG690011, 99/8/1-100/7/31)
52. 嘉義長庚醫院人工關節置換術登錄(II)。(長庚醫院, 主持人CMRPG680272, 99/10/1-100/9/30)
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共同主持人或協同主持人：

1. 下肢列位及膝關節負荷之研究及其骨科應用的探討。
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2. 骨性關節炎之等速肌力特徵及對不同治療效果評估之研究。
NSC86-2314-B-182-010 (國科會，共同主持人85/08 - 87/07)。
3. 退化性膝關節炎之步態分析研究。NSC86-2314-B-182-097-M08 (國科會，共同主持人85/08 - 87/07)。
4. 在首次全膝人工關節治療脛骨平台骨質缺損及嚴重變形，使用異體骨移植之評估。NSC86-2314-B-182-099-M08 (國科會，共同主持人85/08 - 87/07)。
5. Use Allograft in Primary Total Knee Replacement for Severe Tibia Plateau Defect. 脛後肌腱微細血循環之研究。NSC86-2314-B-182A-036 (國科會，協同主持人85/08 - 86/07) : Microcirculation Investigation of Tibialis Posterior Tendon.
6. 以不同的嵌入固定法重建後十字韌帶之生物力學比較。
NSC86-2314-B-182A-049 (國科會，共同主持人85/08 - 86/07, NMRP873) : A Biomechanical Comparison of Different Inlay Graft Fixation Technique in Posterior Cruciate Ligament Reconstruction.
7. 後脛骨肌腱自然斷裂的致病機轉研究 - 以電子顯微鏡及免疫螢光染色行後脛骨肌腱超微分子結構分析。NSC87-2314-B-182A-014 (國科會，協同主持人86/08 - 87/07) : The Pathogenesis Study of Spontaneous Rupture of Posterior Tibial Tendon - An Ultrastructure Study with Electron Microscope and Immunofluorescence.
8. 人體後脛骨肌腱自然斷裂的微循環血流量研究。NSC88-2314-B-182A-061 (國科會，協同主持人87/08 - 88/07) : Microcirculation Alteration in Spontaneous Rupture of Posterior Tibial Tendon in Human.

9. 腰椎間盤核磁共振訊號強度與所含生化成份之關係研究。
NSC85-2331-B182A-059 (國科會，共同主持人84/08 - 85/07)： The Relationship of MR Signal to the Biochemical Contents in the Lumbar Intervertebral Disc.
10. 在胸腔鏡脊椎手術下肺臟重新擴張之傷害研究。NSC88-2314-B-182A-063 (國科會，共同主持人87/08 - 88/07)： A Study of Re-expansion Pulmonary Injury in Thoracoscopy-Assisted Spinal Surgery.
11. 胸腔鏡脊椎手術下，理想迷你脊椎前位內固定器之設計與研發(1/3)。
NSC89-2320-B-182A-018 (國科會，協同主持人88/08 - 89/07)： The Evolving Concept and Ideal Design of Mini-Anterior Spinal Fixation Device for Thoracoscopic Spine Surgery.
12. 後脛骨肌腱感覺神經末梢感受體之超微結構及病態生理學研究--人體及動物實驗(1/3)。
NSC89-2320-B-182A-021 (國科會，協同主持人88/08 - 89/07)
The Ultrasturcture and Pathophysiology of Mechanoreceptors of Sensory Nerve on the Posterior Tibial Tendon – A Combination of Human and Animal Study.
13. 胸腔鏡脊椎手術下。理想迷你脊椎前位內固定器之設計與研發(2/3)。
NSC 89-2314-B-182A-191 (國科會，共同主持人89/8/1-90/10/31)： The evolving concept and ideal design of mini-anterior spinal fixation device for thoracoscopic spine surgery.
14. 胸腔鏡脊椎手術下,理想迷你脊椎前位內固定氣之設計與研發(3/3)。
NSC 90-2314-B-182A-037 (國科會，共同主持人91/8/1-92/7/31)： The evolving concept and ideal design of mini-anterior spinal fixation device for thoracoscopic spine surgery.
15. 震波治療對動物關節軟骨之影響。CMRP1310 (長庚醫院，共同主持人91/04-92/12)
16. 研發導航微創脊椎內固定術並以反轉錄聚合酵素連鎖反應分析與傳統手術細胞激素反應之差異。NSC 93-2314-B-182A-026 (國科會，共同主持人93/8/1-94/7/31)： Developing Navigation-guided Minimally Invasive Spine Instrumentation and Analyzing RT-PR of Cytokine Responses with Open Method.

17. 比較接受微創內視鏡或傳統腰椎間盤切除術病患其血清醛縮醯酶（A型）、肌酸激酶；（MM型）和乳酸脫氫酶；（第五型）同功酶之變化差異。（國科會，協同主持人94/08/01-95/07/31, NMRPG640031）
18. 局部投與pamidronate對於實驗兔之股骨粉碎性骨折癒合的影響。CMRPG640071（長庚醫院，共同主持人94/08/01-95/07/31）

Professional Activities:

Currently:

Board member of Orthopedic Reconstruction Association, R.O.C.

Board member of Committee of Olympic Association, R.O.C.

Board member of Taiwan Osteoporosis Association

Board member of Orthopedic Association, R.O.C.

Board member of Sports Medicine Association, R.O.C.

Board member of Sports Prevention Association, R.O.C.

Board member of Orthopedic Research Society, R.O.C.

Board member of Biomechanics Society, R.O.C.

Editorial Board of Journal of Orthopedic Association, R.O.C.

Editorial Board of Journal of Orthopedic Research Society, R.O.C.

Editorial Board of Chang Gung Medical Journal, R.O.C.

Past:

First President of Arthroscopic Association, R.O.C. (1990-1992)

Chief of Education Committee, Orthopedic Association, R.O.C. (1993)

President of Sports Medicine Association, R.O.C. (1993-1997)

President of Asia-Pacific Orthopedic Society of Sports Medicine
(1997-2000)