
CURRICULUM VITAE
JUI-SHENG SUN, MD, PhD.

Office Address

Division of Orthopedic Surgery, School of Medicine, College of Medicine,
China Medical University
No. 91, Xueshi Rd., North Dist., Taichung City 404333, Taiwan (R.O.C.)
Email: drjssun@gmail.com

CURRENT STATUS

Professor

Division of Orthopedic Surgery,
School of Medicine, College of Medicine,
China Medical University.
No. 91, Xueshi Rd., North Dist., TaiChung
City 404333, Taiwan (R.O.C.)
Tel: 8864-2205-3366
Email: drjssun@mail.cmu.edu.tw

Adjunct Professor

Division of Orthopedic Surgery,
School of Medicine, College of Medicine
National Taiwan University
And
Institute of Clinical Medicine,
National Yang-Ming University
Taipei, Taiwan, ROC
Email: drjssun@ntu.edu.tw

Staff Surgeon

Department of Orthopedic Surgery,
China Medical University Hospital,
No.2, Yude Rd., North Dist., Taichung City
404332, Taiwan (R.O.C.)
Email: D36587@mail.cmu.h.org.tw
Tel: 8864-2205-2121

Adjunct Staff Surgeon

Department of Orthopedic Surgery,
National Taiwan University Hospital,
No.7, Zhongshan S. Rd., Zhongzheng Dist.,
Taipei City 100225, Taiwan (R.O.C.)
Email. drjssun@ntuh.gov.tw
Tel: 8862-23562137

AREA OF INTEREST

Translational Medicine
Tissue Engineering and Regenerative Medicine
Biomaterials
Bone Cell Physiology
Biomechanics
Traumatology and Orthopedic Surgery

Rehabilitation Science and Technology

DEGREES

2005 Feb 26th - 2007 March 28th (Lecture: 2005/04/02 – 2006/10/08)
Master of Business of Administration, University of South Australia
1991 Sep. - 1994 May
PhD, Graduate Institute of Clinical Medicine, National Taiwan University
1977 Sep. - 1984 June
Bachelor of Medicine (MB), School of Medicine, College of Medicine, National
Taiwan University

FELLOWSHIPS

2001 Sep. - 2002 Feb.

- Post-Doc fellowship: Department of Surgery (Biomedical Engineering), Dalhousie University, Halifax, Nova Scotia, Canada
1999 Oct.
WPOA/ZIMMER traveling fellowship
1993 April
Visiting scholarship in Hand and Microsurgery, Department of Orthopaedics & Traumatology, Chinese University of Hong Kong
1990 July
Traveling fellowship: Mayo Clinic, Rochester, MN, U.S.A.

PROFESSIONAL TRAINING AND EDUCATIONAL EXPERIENCE

Educational experience

- 2021 Feb – Present
Professor, Division of Orthopedic Surgery, School of Medicine, College of Medicine, **China Medical University**
- 2012 Aug – 2021 Jan
Professor, Division of Orthopedic Surgery, School of Medicine, College of Medicine, **National Taiwan University**
- 2012 Aug - Present
Professor, Biomedical Engineering Institute, College of Engineering, **National Tsing-Hua University**
- 2012 Feb - Present
Adjunct Professor, Department of Mechanical Engineering, College of Mechanical Engineering, **National Chiao Tung University**
- 2009 July - Present
Adjunct Professor, Graduate Institute of Clinical Medicine, School of Medicine, **Taipei Medical University**
- 2007 July – Present
Adjunct Professor, Institute of Biomedical Engineering, Institute of Clinical Medicine, **National Yang-Ming University**
- 2007 July – 2012 July
Adjunct Professor, Division of Orthopedic Surgery, School of Medicine, College of Medicine, National Taiwan University
- 2006 Aug. – 2007 July
Professor, Institute of Biomedical Engineering, School of Medical Technology and Engineering, National Yang-Ming University
- 2004 Aug. – 2006 July
Professor, Institute of Rehabilitation Science and Technology, School of Medical Technology and Engineering, National Yang-Ming University
- 2003 Aug. – 2004 July
Adjunct Professor, Division of Orthopedic Surgery, School of Medicine, College of Medicine, National Taiwan University
- 1995 Aug. - 2003 July
Clinical Associate Professor, Division of Orthopedic Surgery, School of Medicine, College of Medicine, National Taiwan University
- 1995 Feb. - 1995 July
Lecture, Division of Orthopedic Surgery, School of Medicine, College of Medicine, National Taiwan University

Professional experience

- 2021 Feb. - Present
Staff Surgeon, Department of Orthopedics, China University Hospital
- 2007 Feb. – 2021 Jan.

Staff Surgeon, Department of Orthopedics, National Taiwan University Hospital
2005 Jan. - 2007 Jan.
Staff Surgeon, Department of Orthopedics, Taipei City United Hospital, Taipei City,
Taipei, Taiwan
2004 Oct. - Dec
Staff Surgeon, Department of Orthopedics, Taipei Municipal Yang-Ming Hospital,
Taipei City, Taipei, Taiwan
2004 Aug. – Sep.
Staff Surgeon, Department of Orthopedics, Taipei Municipal Zhongxing Hospital,
Taipei City, Taipei, Taiwan
2004 Aug. - Present
Adjunct Staff Surgeon, Department of Orthopedics, National Taiwan University
Hospital
1991 Aug. – 2004 July
Staff Surgeon, Department of Orthopedics, National Taiwan University Hospital
1990 July - 1991 June
Chief Resident, Department of Orthopedics, National Taiwan University Hospital
1988 July - 1990 June
Resident, Department of Orthopedics, National Taiwan University Hospital
1986 July - 1988 June
Resident, Department of Surgery, National Taiwan University Hospital
1984 July - 1986 June
Military Doctor, China Air force, Republic of China

COMMITTEE REPRESENTATION

University

Chairman, Organizing committee, post-baccalaureate program in medicine, **National Tsing Hua University**, July-16, 2020 -
Special Assistant of President, National Yang-Ming University, June, 2007 – July, 2008.
Member, Board of Council, Executive committee of construction of Affiliated Hospital of National Taiwan University in Yun-Lin, March, 2002 – July, 2004
Member, Board of Council, Executive committee of medical library, College of Medicine, National Taiwan University, 1997 – 1998
Member, Board of Councilors, Committee of publication, College of Medicine, National Taiwan University, 1997 – 1999
Deputy Secretary, Committee of publication, College of Medicine, National Taiwan University, 1997 – 1999
Member, Committee of Animal Care and Utilization, College of Medicine, National Taiwan University, 1995 – 1999
Supervisor, Graduate Student of MSc & PhD, National Chia-Toan University, Taipei Medical University, National Taiwan University, Chung-Yuan Christian University, 1995 – 1998
Supervisor, Undergraduate Student of BSc, Chung-Yuan Christian University, 1995 - 1998
Supervisor, Summer Student of BSc, Chung-Yuan Christian University, 1995 - Present

Hospital

Vice Superintendent, Medical Quality, China Medical **University Hospital**, Taipei, Taiwan, R.O.C. July. 2021 – Present.
Superintendent and Staff Surgeon, Trauma and Emergency Center Hospital in China Medical **University Hospital**, Taipei, Taiwan, R.O.C. Feb. 2021 – Present.
Vice Superintendent and Staff Surgeon, **National Taiwan University Hospital**, Taipei, Taiwan, R.O.C. Aug. 2015 – July, 31st, 2019.

Superintendent and Staff Surgeon, National Taiwan University Hospital Hsin-Chu Branch, Hsin-Chu City, Taiwan, R.O.C. July 2011 – July, 2015

Superintendent and Staff Surgeon, Hsin Chu General Hospital, Department of Health, Executive Yuan, R.O.C. April 2011 - June 2011

Vice Superintendent and Staff Surgeon, Hsin Chu General Hospital, Department of Health, Executive Yuan, R.O.C. Feb. 2010 - Present

Staff Surgeon, Department of Orthopedics, National Taiwan University Hospital, Aug. 2007 - Present

Superintendent and Staff Surgeon, Department of Orthopedics, Taipei City Hospital, Taipei City, Taipei, Taiwan, May 2006 – Jan. 2007

Vice Superintendent and Staff Surgeon, Department of Orthopedics, Taipei City Hospital, Taipei City, Taipei, Taiwan, Jan. 2005 – April, 2006

Superintendent and Staff Surgeon, Department of Orthopedics, Taipei Municipal YangMing Hospital, Taipei City, Taipei, Taiwan, Oct. 2004 – Dec. 2004

Staff Surgeon, Department of Orthopedics, Taipei Municipal Zhongxing Hospital, Taipei City, Taipei, Taiwan, Aug. 2004 – Sep., 2004

Adjunct Staff Surgeon, Department of Orthopedics, National Taiwan University Hospital, Aug. 2004 - Aug. 2007.

Vice Superintendent, National Taiwan University Hospital - Yun-Lin Branch. April, 2004 – July, 2004

Vice Superintendent, Yun-Lin Hospital, Department of Health, The Executive Yuan, Republic of China. Aug., 2003 – March 31, 2004.

Vice Chairman, Department of Biomedical Engineering, National Taiwan University Hospital, Aug., 2002 — July 2003.

Executive member, Administrative Councilors of Medical campus reconstruction, National Taiwan University Hospital, Jan, 2003 — July 2003.

Executive member, Administrative Councilors of Medical education, National Taiwan University Hospital, Aug, 2002 –July, 2003.

Executive member, Administrative Councilors of Intensive Care, National Taiwan University Hospital, Aug, 2002 –July, 2003.

Executive member, Administrative Councilors of Parking Lot, National Taiwan University Hospital, July, 2002 –June, 2003.

Executive member, Councilors of Orthopedic Education, Department of Orthopedic Surgery, National Taiwan University Hospital, March, 2002 — July 2003.

Executive member, Councilors of Library Administration of Orthopedic Department, National Taiwan University Hospital, March, 2001 – July 2003.

Chief, Division of Hand Surgery, 1995 – July 2003.

Chief, Division of Molecular and Biochemistry Laboratory, Research Committee, Department of Orthopedic surgery, National Taiwan University Hospital, 1995 – July, 2004.

Member, Committee of Medical Education, Department of Orthopedic surgery, National Taiwan University Hospital, 1987 - July 2003.

Member, Division of Analgesics, Committee of Pharmacology and Therapeutics, National Taiwan University Hospital, 1987 – 1988.

External

President, Board of Councilors, Orthopedic Research Society, Taiwan, R.O.C., 2018 – 2020.

Member, Board of Councilors, Orthopedic Research Society, R.O.C., Nov. 2004 – Nov. 2018.

Member, Board of Councilors, Formosa Association of Regenerative Medicine, Taiwan, R.O.C., 2004 – present.

- Member, Board of Councilors, Taiwan Orthopedic Society, Taiwan, R.O.C., 2016 – present.
- Member, Scientific Program Committee of Combined Conference of 16th Triennial Congress of the Asia Pacific Orthopedic Association and 59th Annual Meeting of the Taiwan Orthopedic Society, R.O.C., Nov. 04th– 07th, 2010.
- Member, Board of Councilors, Joint Reconstruction Society, Republic of China, 2008 – 2010.
- Member, Editorial Board of Journal of Orthopedic Society and Research, July 2007 – Present.
- Member, Board of Councilors, Committee of Continue Education, Taiwan Orthopedic Society, R.O.C., Nov. 2006 – Nov. 2008.
- Member, Editorial Board of Journal of Taiwan Orthopedic Society, R.O.C., Nov. 2006 – Nov. 2008.
- External Reviewer, Journal of Musculoskeletal research, 1998 – Present.
- External Reviewer, Journal of Orthopedic Society, R.O.C., 1995 – Present.
- External Reviewer, Journal of Formosan Medical Association, 1995 – Present.
- Member, Board of Councilors, Orthopedic Research Society, R.O.C., 1998 – 2000.
- Member, Board of Councilors, Society for Surgery of the Hand, R.O.C., 1998 – 2000.
- Deputy Secretary General, 1997 Asia and International Committee Meeting of SICOT
- Secretary General, Society for Surgery of the Hand, R.O.C., 1994 – 1996.

Government

- Standing Member, Taiwan Insurance Institute, Department of Insurance, Ministry of Finance, R.O.C. Nov. 2002 – Present.
- Standing Member, Committee of Medical Devices Standardization, Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs, R.O.C. 1993 – Present.
- Consultant, TAIWANE DOCTOR, Department of Health, The Executive Yuan, TAIWAN, ROC, Oct. 2003 – March. 2004.

RESEARCH FUNDING

1. The effect of the carbodiimide cross-linker on the structural and biocompatibility properties of collagen–chondroitin sulfate electrospun mat. Dr. J.S. SUN, Funded by Ministry of Science and Technology, ROC; 2014-National Scientific and Technical Project. Aug.-01, 2019 –July-31, 2022. **NTD\$ 3,960,000** total.
2. Forming Bone-like Tissues in the 3-dimensional dynamic Bioreactor System for Bone Tissue Engineering. Dr. J.S. SUN, Funded by Ministry of Science and Technology, ROC; 2014-National Scientific and Technical Project. Aug.-01, 2016 –July-31, 2019. **NTD\$ 3,975,000** total.
3. Blood-Derived Tissue Scaffold for Artificial Autograft Fabrication-1/3. Dr. J.S. SUN, Funded by Ministry of Science and Technology, ROC; 2014-National Scientific and Technical Project. June-01, 2014 –May-31, 2015. **NTD\$ 1, 500,000** total.
4. The Development of Novel Spinal Neuromonitoring System and The Monitor and Analysis of Spinal Electrophysiological Signal During Neuromonitoring for Spinal Cord Function. Dr. J.S. SUN, [Dr. Sun, Dr. Chen MH, Dr. Cheng; Dr. Lin] Funded by National Science Councilors, R.O.C. 1. 2013-National Scientific and Technical Project. May-01, 2013 – April-30, 2016. **NTD\$ 5, 800,000** total.
5. Enhance Bone Formation via Local and Controlled Release of Bone Morphogenetic Protein-2 from Biodegradable Hydrogel (PLGA-PEG-PLGA Triblock Copolymer): A Pilot Study in a Rat Bone Defect Model. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2012 – July 2013. **NTD\$ 1,148,000** total.

6. Gene transfection by magnetic nanoparticles for functional tissue engineering. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2011 – July 2012. **NTD\$718,000 total.**
7. A Novel Innovation of Tissue-Engineered Osteo-Chondral Graft Using Interconnected Porous Sintered Di-Calcium Pyrophosphate Ceramic Cylindrical Plug. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2008 – July 2009. **NTD\$1,583,630 total. (NSC: NTD\$: 1,000,000; Pfuzer: NTD\$: 583,630)**
8. THE INVESTIGATION OF SENILE HUMAN OSTEOBLATS DERIVED FROM OSTEOARHRITIC AND OSTEOPOROTIC PATIENTS: DIFFERENCE IN GENE EXPRESSION AND THE POTENTIAL IN TREATMENT APPLICATIONS. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2008 – July 2011. **NTD\$3,220,000 total. (2008: NTD\$: 1,220,000; 2009: NTD\$: 1,000,000; 2010: NTD\$: 1,000,000)**
9. The Effect of Dynamic Compressive Pressure on Osteoblast and Chondrocyte Metabolism - Project II: The Cellular and Molecular Mechanisms of Mechanical Responses in Bone Cells: from Genomes to Diseases (3/3) Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2007 – July 2008. **NTD\$1300,000 total.**
10. The Effect of Dynamic Compressive Pressure on Osteoblast and Chondrocyte Metabolism - Project II: The Cellular and Molecular Mechanisms of Mechanical Responses in Bone Cells: from Genomes to Diseases (2/3) Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2006 – July 2007. **NTD\$1300,000 total.**
11. The in vitro effects of dehydroepiandrosterone on chondrocytes metabolism. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2006 – July 2007. **NTD\$845,000 total.**
12. The biomedical application of magnetic nano-particles. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2005 – July 2006. **NTD\$1212,000 total.**
13. The correlation of specific collagen of chondrocytes to degenerative arthritis in Taiwanese: A single nucleotide polymorphism study. Dr. J.S. SUN, Funded by Taipei City Hospital, R.O.C. Jan. 2006 – Dec 2006. **NTD\$750,000 total.**
14. The Effect of Dynamic Compressive Pressure on Osteoblast and Chondrocyte Metabolism - Project II: The Cellular and Molecular Mechanisms of Mechanical Responses in Bone Cells: from Genomes to Diseases (1/3) Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2005 – July 2006. **NTD\$1300,000 total.**
15. The Role of Muscle-derived Stem Cells in Bone Tissue Engineering. Dr. J.S. SUN, Funded by Taipei City Hospital, R.O.C. Aug. 2005 – July 2006. **NTD\$600,000 total.**
16. Bactericidal and Detoxification Effect by Photocatalysis of Titanium Dioxide Nanoparticles. Dr. J.S. SUN, Funded by Taipei City Hospital, R.O.C. Aug. 2005 – July 2006. **NTD\$380,000 total.**
17. A Study of Bioactive Ceramic Ca₂P₂O₇ with Na₄P₂O₇·10H₂O Addition on Treatment of Osteoporosis (2/2) Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2004 – July 2005. **NTD\$641,900 total.**
18. Development of completely biological tissue-engineered artificial blood vessels. Dr. J.S. SUN, Funded by National Taiwan University Hospital, Taiwan, R.O.C. Jan. 2004 – Dec. 2004. **NTD\$273,750 total.**
19. Advanced nanotechnology for monitoring cell and tissue activity --- the use of quantum dot for biomaterial screening and intracellular activity monitoring. Dr. J.S. SUN/ Prof. Walter HS CHANG, Funded by National Science Councilors, R.O.C. Aug. 2003 – July 2006. **NTD\$ 36,750,000 total.**
20. Effect of Pulse ElectroMagnetic Fileds Stimulation on Osteoblast Cells Activities. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2003 – July 2004. **NTD\$586,300 total.**

21. A Study of Bioactive Ceramic Ca₂P₂O₇ with Na₄P₂O₇·10H₂O Addition on Treatment of Osteoporosis (1/2). Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2003 – July 2004. **NTD\$512,400 total.**
22. A Study of Bioactive Ceramic Ca₂P₂O₇ with Na₄P₂O₇·10H₂O Addition on Treatment of Osteoporosis. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. Aug. 2002 – July 2003. **NTD\$600,000 total.**
23. Evaluation of Bone Cells Response to Biomaterials by Molecular Analysis. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. 2001 – 2002. **NTD\$720,000 total.**
24. In Vitro Effects of Therapeutic Ultrasound on the Bone cells. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. 1998 – 2002. **NTD\$623,200 per year.**
25. The Development of Artificial Composite for Optimal Bone Regeneration. Dr. J.S. SUN, Funded by National Health Research Institute, R.O.C. 1999 – 2002. **NTD\$1,199,500 per year.**
26. The Effect of Sintered β-Dicalcium Pyrophosphate Particle Size on Osteoblasts. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. 1999 – 2000. **NTD\$748,400 total.**
27. The Study of Implementation and Outcome Evaluation of Clinical Pathway -- A Case Study of Total Hip Replacement and Total Knee Replacement in HTUH. Dr. J.S. SUN, Funded by National Taiwan University Hospital, R.O.C. 1998 –1999. **NTD\$400,000 total.**
28. Application of artificial biomaterial in surgery of massive bone defect. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. 1997 –1999. **NTD\$1359,800 total.**
29. Microfailure of triceps surae muscle under passive extension. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. 1996 –1997. **NTD\$526,100 total.**
30. Effect of nerve during skeletal muscle contraction. Dr. J.S. SUN, Funded by National Science Councilors, R.O.C. 1995 –1996. **NTD\$654,000 total.**
31. The Role of Active and Passive Muscle Forces During Muscle Contraction. Dr. J.S. SUN, Funded by National Taiwan University Hospital, R.O.C. 1994 –1995. **NTD\$191,580 total.**
32. Material Properties of Skeletal Muscle. Dr. J.S. SUN, Funded by National Taiwan University Hospital, R.O.C. 1993 –1994. **NTD\$130,000 total.**

HONOR AND AWARD

- 2019 2019-06-18 The medal of Ministry of Health, Mongolian People's Republic. As the achievement of 10th annual year NTUH-Hope program since 2009.
- 2017 2017 Annual Meeting of The Chinese Management Association. Taipei, Taiwan, Dec. 02nd, 2017. **The 2017 annual Award for “K.T. Lee Administration Medal” of The Chinese Management Association;**
- 2016 Y.H Lee, H.C Wu*, M.H Shen, J.S Sun*, S Wu, T.W Wang*. Spatially Controlled Differentiation of hMSCs within an Enzymatic Crosslinking Bilayer Gene-activated Scaffold for Osteochondral Tissue Regeneration. 2016 Annual Meeting of Taiwanese Society of Biomedical Engineering. Taipei, Taiwan, Aug. 19th, 2016. **The Best Oral Paper Award;**
- 2015 Yi-Hsuan Lee, Hsi-Chin Wu, Meng-Han Shen, **Jui-Sheng Sun,** Tzu-Wei Wan: Enzymatic-Crosslinked 3D Scaffold Incorporated with Non-Viral Gene Carrier For Bone Tissue Engineering. Poster presentation in the Biomaterials International 2015 (BMI-2015), June 1-6, 2015, Kenting, Taiwan. **Best Poster Award.**
- 2014 Yi-Hsuan Lee, Hsi-Chin Wu*, Meng-Han Shen, **Jui-Sheng Sun,** Tzu-Wei Wang*. Biomimetic Mineralization of Oriented Hydroxyapatite/Collagen Nanocomposite Scaffold Using Self-assembled Mechanism for Bone Tissue Engineering. 7th World Congress on Preventive and Regenerative Medicine (7th WCPRM), November 4 - 7 2014, Taipei, Taiwan. **Outstanding Performance of Poster Section.**

- 2014 Li CC, Chen CY, Ke CJ, Lin FH* and **Sun JS***, "The Preparation of Chondrogenic Construct by the Combination of MSCs and Tri-copolymer with Kartogenin induction in Functional Closed Perfusion Bioreactor." 2014 Cross-Straits Symposium on Biomaterials and Drug Delivery System, Hsinchu, Taiwan, ROC, May 2, 2014. (Poster Paper Award)
- 2012 Pin-Hsuan Yeh, **Jui-Sheng Sun**, Tzu-Wei Wang. Development of Smart Biodegradable Nanovehicle for Intracellular Gene Delivery. The Best Paper 2012 International Symposium of Materials on Regenerative medicine (2012 ISOMRM) Aug. 29 -31, 2012, Taipei Medical University, Taipei, Taiwan.
- 2011 Tzu-Chuang Yeh, Tzu-Wei Wang, and **Jui-Sheng Sun**. Year best paper in 2011 Annual Meeting of Biomedical Engineering Society of the ROC.. Aug. 20th, 2011.
- 2006 Year best paper in 2006 Annual Meeting of Formosa Association of Regenerative Medicine. Feb. 18th, 2006.
- 2006 Tzu-Wei Wang, His-Chin Wu/ Feng-Huei Lin and **Jui-Sheng Sun**: Development of full-thickness artificial skin. The 2nd Prize of The fourth National Innovation Award in the student section by the Institute for Biotechnology and Medicine Industry. Dec. 20, 2006.
- 2006 Tzu-Wei Wang, His-Chin Wu/ Feng-Huei Lin and **Jui-Sheng Sun**: Skin Tissue Engineering. The fourth Place of Taiwan Competition on Biomedical Engineering Creative Designs 2006. Biomedical Engineering Society of the ROC. Dec. 1, 2006.
- 2005 Tzu-Wei Wang, His-Chin Wu/ Feng-Huei Lin and **Jui-Sheng Sun**: Tissue Engineering of Vascular Graft. The third National Innovation Award in the student section by the Institute for Biotechnology and Medicine Industry. 2005.
- 2004 2000 Outstanding Intellectuals of 21st Centuries, Aug. 6th, 2004, International Biographical Center, Cambridge, England.
- 2004 Biographical profile included in 4th Marquis Who's Who in Medicine and Healthcare, 2004-2005.
- 2002 Biographical profile included in 4th Marquis Who's Who in Medicine and Healthcare, 2002.
- 2002 Year best papers in the Annual Meeting of the Orthopedic Research Society R.O.C.
- 1998 Year best papers in the Annual Meeting of the Orthopedic Association R.O.C.
- 1996 Keynote speaker in the Annual Meeting of The Formosan Society of Biomechanics. Nov. 30th, 1996. Topic: Biomechanics of the Muscle-tendon Unit.
- 1995 Year best papers in the Annual Meeting of the Orthopedic Association R.O.C.
- 1994 Hang-Ting Chen's Award of year best paper in Journal of Orthopedic Surgery R.O.C.

REVIEWER OF GRANTING AGENCY

Ministry of Science and Technology, R.O.C.

EDITORIAL BOARD OF PEER REVIEW JOURNAL

World Journal of Stem Cells

Number ID: 02446110; Starting Date: 2016-01-01 Ending Date:2019-12-31

REVIEWER OF PEER REVIEW JOURNAL

American Journal of Physical Medicine & Rehabilitation
Apoptosis

SUN J.S

Artificial Organs
BBA - Molecular Cell Research
Biomaterials
Biomolecular Engineering
BioMed Center
Chinese Medicine
Clinical Biomechanics
Clinica Chimica Acta
Free Radical Research
Journal of Applied Oral Science
Journal of Biomedical Materials and Research
Journal of Formosan Medical Association (JFMA)
Journal of Musculoskeletal research
Journal of Orthopedic Surgery and Research
Journal of Orthopedic Society, R.O.C.
Journal of Applied Oral Science (International member of Scientific Board of Reviewers)
Osteoarthritis and Cartilage
Stem Cells and Development
Taipei City Medical Journal, Taipei, ROC
The Chinese Journal of Physiology
Tissue Engineering

PROFESSIONAL ORGANIZATION

2008 - Present

Member, Joint Reconstruction Society, Republic of China

1999 - Present

Member, The American Academy of Orthopedic Surgeons (International Affiliate
Member: 00108143)

1999 - Present

Member, The Orthopedic Research Society, USA (ID# 176006)

1997 - Present

Member, Orthopedic Research Society, Republic of China

1996 - Present

Member, The Biomedical Engineering Society, Republic of China

1995 - Present

Society for Surgery of the Hand, Republic of China

1991 - Present

Member, Taiwan Orthopedic Association, Republic of China

1990 - Present

Member, Taiwan Surgical Association, Republic of China

Publications: * corresponding author

A. Paper: Peer Reviewed – Accepted but not Published Yet

Chung-Kai Sun, Pei-Wei Weng, Jenny Zwei-Chieng Chang, Yi-Wen Lin, Fon-Yih Tsuang, Feng-Huei Lin, Tung-Hu Tsai, Jui-Sheng Sun**[†]. Metformin-Incorporated Gelatin/Hydroxyapatite Nano-Fibers Scaffold for Bone Regeneration. Tissue Eng Part A. 2021 Jul 5. doi: 10.1089/ten.TEA.2021.0038. Online ahead of print. **SCI**

B. Paper: Peer Reviewed – Published

1. Chien-Cheng Tai, Hon-Lok Lo, Chen-Kun Liaw, Yu-Min Huang, Yen-Hua Huang, Kuo-Yi Yang, Chih-Chieh Huang, Shin-I. Huang, Hsin-Hsin Shen, Tzu-Hung Lin, Chun-Kuan Lu, Wen-Chih Liu, **Jui-Sheng Sun**, Pei-I. Tsai, Chih-Yu Chen*. Biocompatibility and Biological Performance Evaluation of Additive-Manufactured Bioabsorbable Iron-Based Porous Suture Anchor in a Rabbit Model. *Int. J. Mol. Sci.* 2021, 22, 7368. <https://doi.org/10.3390/ijms22147368> **SCI**
2. Shih-Yin Lin, Min-Chih Hung, Shih-Fu Chang, Fon-Yih Tsuang, Jenny Zwei-Chieng Chang*, **Jui-Sheng Sun***. Efficacy and safety of postmenopausal osteoporosis treatments: a systematic review and network meta-analysis of randomized controlled trials. *J Clin Med.* 2021 Jul 8;10(14):3043. doi: 10.3390/jcm10143043. **SCI**
3. Chien-Cheng Tai, Hon-Lok Lo, Chen-Kun Liaw, Yu-Min Huang, Yen-Hua Huang, Kuo-Yi Yang, Chih-Chieh Huang, Shin-I Huang, Hsin-Hsin Shen, Tzu-Hung Lin, Chun-Kuan Lu, Wen-Chih Liu, **Jui-Sheng Sun**, Pei-I Tsai, Chih-Yu Chen *: Biocompatibility and Biological Performance Evaluation of Additive-Manufactured Bioabsorbable Iron-based Porous Suture Anchor in a Rabbit Model. *Manuscript Int. J. Mol. Sci.* 2021, 22, 7368. . <https://doi.org/10.3390/ijms22147368> **SCI**
4. Chung-Kai Sun, Cherng-Jyh Ke, Yi-Wen Lin, Feng-Huei Lin, Tung-Hu Tsai*, **Jui-Sheng Sun***: Transglutaminase cross-linked gelatin-alginate-antibacterial hydrogel as the drug delivery coatings for implant-related infections. *Polymers* 2021, 13, 414. <https://doi.org/10.3390/polym13030414>. **SCI**
5. Ching-Yun Chen, Chunching Li, Cherng-Jyh Ke, **Jui-Sheng Sun** *, Feng-Huei Lin *: Kartogenin Enhance Chondrogenic Differentiation of MSCs in 3-D Tri-copolymer Scaffolds and the Self-designed Bioreactor System. *Biomolecules.* 2021 Jan 16;11(1):E115. doi: 10.3390/biom11010115. PMID: 33467170 **SCI**
6. Chih-Chieh Huang, Ming-Jun Li, Pei-Yi Tsai, Pei-Ching Kung, San-Yuan Chen, **Jui-Sheng Sun***, Nien Ti Tsou*: Novel Design of Additive Manufactured Hollow Porous Implants. *Dent Mater.* 2020 Sep 19: S0109-5641(20)30222-0. doi: 10.1016/j.dental.2020.08.011. PMID: 32962852. **SCI**
7. Fon-Yih Tsuang, Ming-Hong Chen, Feng-Huei Lin, Ming-Chia Yang, Chun-Jen Liao, Wen-Hsiang Chang, **Jui-Sheng Sun***. Partial enzyme digestion facilitates regeneration of crushed nerve in rat. *Translational Neuroscience (Ref.: Ms. No. TN-D-20-00028R1), Translational Neuroscience* 2020; 11: 251–263.
8. Shu-Wei Huang, Shian-Chiuan Tzeng, Jem-Kun Chen, **Jui-Sheng Sun**, Feng-Huei Lin*. A Dynamic Hanging-Drop System for Mesenchymal Stem Cell Culture. *Int. J. Mol. Sci.* *Int. J. Mol. Sci.* 2020, 21, 4298; doi:10.3390/ijms21124298; Manuscript ID: ijms-808632. 2020-06-13 Accepted. **SCI**
9. Shwu-Jen Lin, Chin-Yuan Tsan, Mao-Yuan Su, Chao-Ling Wu, Li-Chin Chen, Hsiu-Jung Hsieh, Wei-Ling Hsiao, Jui-Chen Cheng, Yao-Wen Kuo, Jih-Shuin Jerng, Huey-Dong Wu, **Jui-Sheng Sun**. Improving patient safety during intrahospital transportation of mechanically ventilated patients with critical illness. *BMJ Open Quality* 2020;9:e000698. doi: 10.1136/bmjopen-2019-000698. **SCI**
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- S-12: 黃書葦, 曾渥然, 徐麗道, **孫瑞昇**, 林峰輝. Bone Marrow Msenchymal Stem Cells Detrived Chondroprogenitor Scaffold for the Treatment of Osteoarthritis. 2016 Annual Meeting of Formosa Association of Regenerative Medicine, 2016/03/12, Taipei, Taiwan
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Yi-Jie Kuo, **Jui-Sheng Sun***, Yang-Hwei Tsuang: Sintered Dicalcium Pyrophosphate (SDCP) Enhance Early Bone Healing without Interfere Bone Remodeling: A Rat Femur Fracture Model. ORS 2013 Annual Meeting in San Antonio, Texas, January 26-29 at the Henry B Gonzalez Convention Center. FINAL POSTER #: 1559; SESSION TITLE: PS2; Bone: Tissue Engineering, Repair and Biomaterials.

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D. Conference Paper:

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Chih-Hsiang Fang; Feng-Huei Lin; **Jui-Sheng Sun**: 1st Step of Biomimetic Osteochondral Graft: Biomimetic Hydroxyapatite Microspheres for Alveolar Bone Regeneration. Trend in Cartilage repair. Sat. Sep. 07th, 2019, NYUH International Convention center. 4F 401, Taipei, Taiwan.

Pei-Jung Hsu, Shu-Tzu Huang, Huei-Lin Lin, Szu-Fen Huang, Jih-Shuin Jerng, Hsi-Yu Yu, **Jui-Sheng Sun**. Guiding Improvement with Visual Data: Time-Serial Dashboard for Operation Room Management in a Medical Centre in Taiwan. International Forum on Quality and Safety in Healthcare 2019. Sep. 19-20, 2019, Taipei.

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- P.-J. Hsu, J.-S. Jerng, H.-O. Kao, **J.-S. Sun**: IMPLEMENTATION OF A DISCHARGE ASSESSMENT CHECKLIST AND TO REDUCE RETURN TO ICU FROM THE RESPIRATORY CARE CENTER IN TAIWAN. ISQua 2017; Topic: Disruptive Improvement and Adaptive change; Identifier: ISQUA17-2473.
- J.-S. Jerng, P.-J. Hsu, S.-T. Huang **J.-S. Sun**: ESTABLISHMENT OF AN INTELLIGENCE DECISION SUPPORT SYSTEM TO ENHANCE THE DATA-DRIVEN MANAGEMENT IN A MEDICAL CENTRE IN TAIWAN. ISQua 2017 Abstract Submission; Topic: Data to Drive Decision Making/Policy; Identifier: ISQUA17-2414.
- 鄭之勛,詹靜媛,吳昭玲,蘇茂源,陳莉卿,孫瑞昇. 一家醫學中心運用醫療照護失效模式與效應分析(HFMEA)方法提升呼吸器使用病人運送接受檢查之安全提升經驗分享. 醫療品質
- Y.H Lee, H.C Wu*, M.H Shen, J.S Sun*, S Wu, T.W Wang*. Spatially Controlled Differentiation of hMSCs within an Enzymatic Crosslinking Bilayer Gene-activated Scaffold for Osteochondral Tissue Regeneration. 2016 Annual Meeting of Taiwanese Society of Biomedical Engineering. Taipei, Taiwan, Aug. 19th, 2016.
- T.-A. Chang*, H.-W. Liang, J.-S. Jerng, **J.-S. Sun**. THE EFFECT OF EDUCATION PROGRAM ON PERCEPTION OF PATIENT SAFETY CULTURE AMONG NURSING STAFFS IN A UNIVERSITY HOSPITAL IN TAIWAN. ISQua 2016 Conference, Tokyo, Japan. 16th to 19th, October 2016. (Abstract submission#: ISQUA16-1882).
- Chao-Kai Hu, Chien-Chun Huang, Li-Kuei Chen, **Jui-Sheng Sun**, Xin-Hong Qian, and Chung-Yu Wu. Simultaneously D-Wave Recording and Intraoperative Neurophysiological Monitoring in Spine Surgery. 2016 Symposium on Engineering, Medicine and Biology Applications. 2016, Jan. 22-24th, Taoyuan, Taiwan, ROC.
- Ching-Yun Chen, Yueh-Sheng Chen, Ning-Yi Tu, **Jui-Sheng Sun**, Cherng-Jyh Ke: Improving Fixation Strength of a Novel Internal Fixation Bone Screw System. EWAB 2015, 21st Oct, Wednesday, Antalya, Turkey; 21st International Biomedical Science and Technology Symposium, 2015 22nd-24th, 2015, Antalya, Turkey.
- Ching-Yun Chen, Cherng-Jyh Ke, **Feng-Huei Lin***, **Jui-Sheng Sun***: Human Osteoblast Cell Clusters Formation in Self-made Bioreactor System for Bone Tissue Engineering. EWAB 2015, 21st Oct, Wednesday, Antalya, Turkey; 21st International Biomedical Science and Technology Symposium, 2015 22nd-24th, 2015, Antalya, Turkey.
- 王子康,孫瑞昇,賈維焯,劉筱榆: Development of a Portable Targeting Device for Distal Targeting in Interlocking Nailing Surgery. The academic conference of 69th congress of Taiwan Orthopedic Association. 中華民國骨科醫學會104年度第69次聯合學術研討會會議議程. Oct. 31st – Nov. 1st, 2015. P-059; Research.
- Ching-Yun Chen, Cherng-Jyh Ke, Feng-Huei Lin*, **Jui-Sheng Sun***: Title: Human Osteoblast Cell Clusters Formation in Self-made Bioreactor System for Bone Tissue Engineering. The 21st International Biomedical Science and Technology Symposium 22 - 24 October 2015, Antalya, Turkey.
- Yi-Hsuan Lee, Hsi-Chin Wu, Meng-Han Shen, **Jui-Sheng Sun**, Tzu-Wei Wan: Enzymatic-Crosslinked 3D Scaffold Incorporated with Non-Viral Gene Carrier For Bone Tissue Engineering. Poster presentation in the Biomaterials International 2015 (BMI-2015), June 1-6, 2015, Kenting, Taiwan.
- Hsi-Chin Wu, Tzu-Wei Wang, S.-Y. Hsieh, J.-S. Sun: Targeted magnetic hydroxyapatite nanocrystal for intracellular hyperthermia. Poster presentation in the Biomaterials International 2015 (BMI-2015), June 1-6, 2015, Kenting, Taiwan.

- Yuan-Hung Chao, **Jui-Sheng Sun**, Yang-Hwei Tsuang. Differential Regulation of Growth and Differentiation Factor-5-induced Tenogenic and Osteogenic Differentiation In Tendon-derived Stem Cells. Poster #: 0487 (Session: Tendon/Ligament - Repair and Tissue Engineering), ORS 2015 Annual Meeting at the MGM Grand Hotel in Las Vegas, Nevada, March 28-31.
- Chih-Yu Chen, Chia-Chian Hu, Yu-Ming Huang, Chang-Jung Chiang, Chia-Hsien Chen, Pei-Wei Weng, Yang-Hwei Tsuang, Rong-Sen Yang, **Jui-Sheng Sun**, Cheng-Kung Cheng. Extracorporeal Shockwave Therapy Improves Functional Outcomes of Shoulder Adhesive Capsulitis. 2015 AAOS Annual Meeting in Las Vegas, Nevada, March 24-28; Poster # P332.
- Yi-Hsuan Lee, Hsi-Chin Wu*, Meng-Han Shen, **Jui-Sheng Sun**, Tzu-Wei Wang*. Biomimetic Mineralization of Oriented Hydroxyapatite/Collagen Nanocomposite Scaffold Using Self-assembled Mechanism for Bone Tissue Engineering. 7th World Congress on Preventive and Regenerative Medicine (7th WCPRM), November 4 - 7 2014, Taipei, Taiwan. **Outstanding Performance of Poster Section.**
- 王子康, **孫瑞昇**, 劉筱榆. One-Stage TKA Revision for a Prosthetic Joint Infection- A Case Report. The 67th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 18-19 Oct, 2014. 103年度第67次聯合學術研討會會議. 10/19; 09:18~09:24; O-148
- 賈維焯, **孫瑞昇**, 王子康: Anti-Inflammatory Effect of Antrodia Camphorata in Collagen II Antibody Induced Arthritis. . The 67th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 18-19 Oct, 2014. 103年度第67次聯合學術研討會會議. P-035
- 吳拓, 柯承志, 陳靖昀, **孫瑞昇***. The Thermal Sensitive Hydrogel for Antibiotic Delivery System in Rat. 溫度敏感性水膠於大鼠體內的抗生素投遞系統. The 67th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 18-19 Oct, 2014. 103年度第67次聯合學術研討會會議. P-017
- Shun-Yu Hsieh, Hsi-Chin Wu*, **Jui-Sheng Sun**, Pei-Leun Kang, Tzu-Wei Wang*. Hyaluronan-immobilized Magnetic Bioceramic Nanocrystals for Active Targeting and Intracellular Hyperthermia. 2014 Annual Meeting of Society for the Advancement of Materials and Process Engineering. 2014, Sep.
- 李易軒 Yi -Hsuan Lee, 吳錫芬 Hsi-Chin Wu*, 沈孟翰 Meng-Han Shen, **孫瑞昇 Jui-Sheng Sun**, 王子威 Tzu-Wei Wang *. Biomimetic Mineralization of Oriented Nano-Hydroxyapatite on Collagen Scaffold Using Self-assembled Mechanism for Bone Tissue Engineering. 2014 Annual Meeting of Society for the Advancement of Materials and Process Engineering. 2014, Sep.
- Ke CJ, Chen CY, and **Sun JS***, "Hydrogel Encapsulating Antibiotic in Osteomyelitis Prevention in Rats. " 2014 EORS, Nantes, France, Jul. 2-4, 2014.
- Chen CY, Ke CJ, Lin FH* and **Sun JS***, "3D Cell Culture in Porous Calcium-Alginate Scaffolds Forming Human Osteoblast Cell Clusters for Cell Therapy." 2014 Cross-Straits Symposium on Biomaterials and Drug Delivery System, Hsinchu, Taiwan, ROC, May 2, 2014. (Oral)
- Li CC, Chen CY, Ke CJ, Lin FH* and **Sun JS***, "The Preparation of Chondrogenic Construct by the Combination of MSCs and Tri-copolymer with Kartogenin induction in Functional Closed Perfusion Bioreactor." 2014 Cross-Straits Symposium on Biomaterials and Drug Delivery System, Hsinchu, Taiwan, ROC, May 2, 2014. (Poster Paper Award)
- Ching-Yun Chen, Cherng-Jyh Ke, Ko-Chung Yen, **Jui-Sheng Sun***, Feng-Hui Lin. Forming Bone-like Tissues in the Self-made Bioreactor System for Bone Tissue Engineering. 2014 EORS 22nd annual meeting, 2-4th, July, 2014, Nantes, France.
- Shang-Hwa Hsu, **Jui-Sheng SUN**, Yi-Jing Chou, Chun-Wei Weng. Developing intelligent human-machine Interface for next generation ICUF by using user-centered system development approach. F3.1 15:30. IEEE International Conference On Consumer

- Electronics – Taiwan, May 26-28, 2014. National Taiwan Normal University, Taipei, Taiwan.
- 王子康/黃俊傑/劉筱榆/孫瑞昇/An orphan TKA complication in a medical tourism patient- A case report. Taichung VGH, Taichung, Taiwan, ROC; 19th, April, 2014; 103年度第66次春季聯合學術研討會. P-020-Adult Recon
- 吳連禎/曾永輝/孫瑞昇/ Fabrication of porcine lumbar spine for intervertebral disc regeneration. Taichung VGH, Taichung, Taiwan, ROC; 19th, April, 2014; 103年度第66次春季聯合學術研討會. P-176-Trauma
- 曾怡菱/翁佩韋/李建和/曾永輝/孫瑞昇/ Surgical intervention for treating distal tibial metaphyseal fractures in adults: a systemic review and meta-analysis. Taichung VGH, Taichung, Taiwan, ROC; 19th, April, 2014; 103年度第66次春季聯合學術研討會. P-034-Foot-Ankle.
- Yi-Jie Kuo, **Jui-Sheng Sun***, Yang-Hwei Tsuang: Sintered Dicalcium Pyrophosphate (SDCP) Enhance Early Bone Healing without Interfere Bone Remodeling: A Rat Femur Fracture Model. ORS 2013 Annual Meeting in San Antonio, Texas, January 26-29 at the Henry B Gonzalez Convention Center. FINAL POSTER #: 1559; SESSION TITLE: PS2; Bone: Tissue Engineering, Repair and Biomaterials.
- Yuan-Hung Chao, Shih-Yung Huang, Yang-Hwei Tsuang, **Jui-Sheng Sun**. Tissue Transglutaminase Is Involved in Mechanical Force-Induced Osteogenic Differentiation of Human Ligamentum Flavum Cells. ORS 2013 Annual Meeting in San Antonio, Texas, January 26-29 at the Henry B Gonzalez Convention Center. FINAL POSTER #: 1634, SESSION TITLE: PS2; Spine and Disc Biology
- 2013中華民國生醫材料及藥物制放年會暨國科會醫工學門成果發表會--Lee YH, HC Wu*, **JS Sun**, “The Study of Magnetic Ceramic Nanoparticles as Delivery Carrier for Gene Transfection” ;
- 2013 Annual Symposium on Biomedical Engineering and Technology--YH Lee, **JS Sun**, CH Liu, HC Wu*, “Enzymatic Crosslinked 3D Scaffold as Gene Delivery Platform for Bone Tissue Engineering” -Honorable Mention (生醫材料組)
- 2012 第27屆生物醫學聯合學術年會--ZR Tsai, TW Wang, **JS Sun**, MH Shen, YC Wang, HC Wu *, “Characterization of Enzymatic Crosslinked Porous Hap/Col Nanocomposite for Bone Tissue Engineering;
- 2012 International Symposium of Materials on Regenerative Medicine--HC Wu*, ZR Tsai, TW Wang, **JS Sun**, MH Shen, YC Wang, “Transglutaminase Crosslinked Biomimetic 3D Matrix for Bone Graft”
- 黃俊傑 賈維焯 王子康 孫瑞昇: Effet of Calcium Sulfate Bone Cement Augmentation on External Fixation of Communitated Distal Radius Fractures. O-197, Trauma. The 63rd Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 27-28 Oct, 2012.
- 黃俊傑 林蔚鑫 王子康 孫瑞昇: Alveolar Soft Tissue Sarcoma of the Hand- Case Report. P-035, Tumor. The 63rd Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 27-28 Oct, 2012.
- 王友杰 林蔚鑫 孫瑞昇 王子康 葉敏男 賈維焯 吳拓: Osteopoikilois: A case report. P-044, Tumor. The 63rd Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 27-28 Oct, 2012.
- 蘇盈豪 賈維焯 王子康 孫瑞昇: Hybrid Fixation in the Treatment of Concurrent Hi, Femoral shaft, and distal femur frcatures. P-140, Trauma. The 63rd Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 27-28 Oct, 2012.
- 王友杰 賈維焯 孫瑞昇 王子康 葉敏男 吳拓 林蔚鑫: Transosseous Suture Fixation for the treatment of Neer 4 part Proximal Humeral Fracture. P-142, Trauma. The 63rd Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 27-28 Oct, 2012.

- 吳紹賢 蘇盈豪 王子康 孫瑞昇: A patient with achondroplasia fall from high place due to electric injury causing right femoral shaft fracture receiving plating. P-163, Trauma. The 63rd Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 27-28 Oct, 2012.
- Pin-Hsuan Yeh, Jui-Sheng Sun, Tzu-Wei Wang. Development of Smart Biodegradable Nanovehicle for Intracellular Gene Delivery. The Best Paper 2012 International Symposium of Materials on Regenerative medicine (2012 ISOMRM) Aug. 29 -31, 2012, Taipei Medical University, Taipei, Taiwan.
- Chang-Chin Wu, Jeen-Huei Yu, Feng-Huei Lin, **Jui-Sheng Sun**, Pei-Yu Chen: Large Perfusible Macro-Porous Cell-Laden Hydrogel Scaffolds Can Be Fabricated Using Gelatin and Microbial Transglutaminase. Type of submission: Late breaking research posters paper - 1 page; Conference: 34th Annual International IEEE EMBS (The Engineering in Medicine and Biology Conference Management System) Conference Submission number: 2740. (EMBC'12) held in Hilton Bayfront Hotel in San Diego, California, USA on August 28 - September 1, 2012.
- Tzu-Wei Wang, Pin-Hsuan Yeh, Hsi-Chin Wu, **Jui-Sheng Sun**: Stimuli-sensitive HA-PEI Nanoparticle for Stem Cell Gene Therapy. Theme: BIOMATERIALS & HEALTHCARE (BH) ICYRAM12-A-0451; Session BH5: Advanced Biomaterials International Conference of Young Researchers on Advanced Materials (ICYRAM) 2012 (Material Research society, Singapore), 1 to 6 July, 2012 at Matrix @ Biopolis, Singapore.
- 蘇盈豪 賈維卓 王子康 孫瑞昇: Prolotherapy for chronic recalcitrant tendinopathy prolotherapy. O-011, Sports free paper. The 62th Annual Meeting of Taiwan Orthopaedic Association (Spring Setion). Hsin-Chu, Taiwan, on 21st April, 2012.
- Szu-Hai LIN, **Jui-Sheng SUN**, Po-Hao CHIU, Huei-Yun SHIUE: The survey of the satisfaction of the hospital outpatients – a hospital example. The 20th International Conference on Health Promoting Hospitals & Health Services. 13rd April, 2012, Taipei, Taiwan, ROC
- Szu-Hai LIN, **Jui-Sheng SUN**, Po-Hao CHIU, Chia-Hui WU: Hospital staff working satisfaction survey – Take a public hospital as an example. The 20th International Conference on Health Promoting Hospitals & Health Services. 13rd April, 2012, Taipei, Taiwan, ROC
- Szu-Hai LIN, **Jui-Sheng SUN**, Po-Hao CHIU, Ting LI: A study of the satisfaction of The 20th International Conference on Health Promoting Hospitals & Health Services. 13rd April, 2012, Taipei, Taiwan, ROC
- Szu-Hai LIN, **Jui-Sheng SUN**, Po-Hao CHIU, Jing-Jhih JHANG: Public satisfaction survey on a community health service provided by a public hospital. The 20th International Conference on Health Promoting Hospitals & Health Services. 13rd April, 2012, Taipei, Taiwan, ROC
- Szu-Hai LIN, **Jui-Sheng SUN**, Po-Hao CHIU, Meng-Shiuan SHIU: The survey of the satisfaction of the hospital emergency service – an example of a public hospital. The 20th International Conference on Health Promoting Hospitals & Health Services. 13rd April, 2012, Taipei, Taiwan, ROC
- Chao, YH; Chiang, YF; Tsuang, YH; **Sun, JS**; Chen, MH; Cheng, CK: Mechanisms of Tendon Healing and Matrix Metabolism Induced by Low-Level Laser Therapy. ORS 2012 Annual Meeting in San Francisco, California, February 4-7 at the Moscone West Convention Center.
- Chao, YH; Huang, YC; Tsuang, YH; **Sun, JS**; Chen, MH; Cheng, CK: Elastin-derived Peptides Induce Human Ligamentum Flavum Cells Inflammation Through NF-κB Pathway. ORS 2012 Annual Meeting in San Francisco, California, February 4-7 at the Moscone West Convention Center.
- Hsing-Yao Huang; Chun-Ho Chen; **Jui-Sheng Sun**; Chun-yi Hsu; Tuoh Wu; Yi-Chen Li; Wen-hsien Hsu: Pure Transosseous Suture Fixation of Olecranon Fractures: A Novel

- Surgical Technique and Biomechanical Comparison. 2012 AAOS Annual Meeting, February 7-11 in San Francisco, CA.
- Wu HC*, Wang TW, **Sun JS**, "In Vitro Characterization of Magnetic Hydroxyapatite Nanocrystallines for Tissue Engineering Applications" Tissue Engineering and Regenerative Medicine International Society-North America Annual Conference & Exposition, Orlando, Florida, USA (TERMIS-NA 2011)
- 施兆明 王子康 孫瑞昇: CT guided aspiration becoming the mainstay for paraspinal management. O-085, 10/29, 16:20-16:30; The 60th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 29-30 Oct, 2011.
- 蘇盈豪 王子康 孫瑞昇: Rhabdomyolysis with Acute Renal Failure in an Obese Patient Undergoing Total Knee Arthroplasty. P-017, Adult Recon. The 60th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 29-30 Oct, 2011.
- 黃俊傑 王子康 孫瑞昇: Simutaneous Bilateral Femoral Neck Fracture. P-159, Trauma; The 60th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 29-30 Oct, 2011.
- 吳紹賢 莊永清 王子康 孫瑞昇: An Unusual Tumor of Brown Fat-Hibernoma. P-173, Tumor. The 60th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 29-30 Oct, 2011.
- Ching-Yun Chen, Pei-Shan Li, Meng-Yow Hsieh, Yi-Hung Lin, Hsin-Hsin Shen, Feng-Huei Lin*, **Jui-Sheng Sun***. Enhanced bone formation via local and controlled release of bone morphogenetic protein-2 from biodegradable hydrogels (PLGA-PEG-PLGA triblock copolymer) on critical-size bone defect. The 19th Annual Meeting of the European Orthopaedic Research Society, September 1 - 2, 2011, Vienna, Austria, Oral Presentation: Session: Free Papers 15 – Biomaterials Session Start: September 2, 2011 16.30 hrs 0 17.40 h, (Control No. 2011-A-83-EORS)
- Feng-Huei Lin, **Jui-Sheng Sun***: Controlled Release by Biodegradable Hydrogels (PLGA-PEG-PLGA Triblock Copolymer) Enhances the Bone Formation of Bone Morphogenetic Protein-2 on Critical-Size Bone Defect. TERMIS-EU 2011, Tissue Engineering and Regenerative Medicine International Society, 7-10 2011, Granada Spain.
- 林奴珣 莊永清 王子康 孫瑞昇. Low grade myofibroma – a case report and literature review. P-150; The 60th Annual Meeting of Taiwan Orthopaedic Association. Kaohsiung, Taiwan, on 4-7 November, 2011.
- Ching-Yun Chen, Pei-Shan Li, Meng-Yow Hsieh, Yi-Hung Lin, Feng-Huei Lin, Hsin-Hsin Shen, Jui-Sheng Sun: Combination of Type I Collagen/PLGA-PEG-PLGA/ BMP-2 on Critical-Size Bone Defect Healing. Nineteenth Symposium on Recent Advances in Cellular and Molecular Biology. 2011, Feb. 10-12, Kaoshiong, Taiwan.
- Chun-Ho Chen, **Jui-Sheng SUN**: Unusual causes of Carpal Tunnel Syndrome - Space occupying lesions. Paper # Podium: 274; Location: Room 7AB; Date: 2/16/2011, 4:24:00 PM - 4:30:00 PM; 2011 AAOS Annual Meeting, February 15-19 in San Diego, CA.
- Yuan-Hung Chao, Yang-Hwei Tsuang, **Jui-Sheng Sun**, Chih-Yu Chen, Ming-Hong Chen: Signaling Pathway in Mechanical Stress-Induce Inflammatory Responses in Human Ligamentum Flavum Fibroblasts. The ORS 56th Annual Meeting, January 13-16 in Long Beach, California.
- Yuan-Hung Chao, Yang-Hwei Tsuang, **Jui-Sheng Sun**, Cheng-Kung Cheng, Ming-Hong Chen: Effects of Ultrasound Stimulation on Tenocytes Mechanotransduction and Extracellular Matrix Metabolism. The 7th Combined Meeting of the Orthopaedic Research Societies, October 16-20, 2010, in Kyoto, Japan.
- Wang TW, Lin FH, **Sun JS**, Wu HC*, "Characterization of Magnetic Hydroxyapatite Nanoparticles and Potential Application for MRI Contrast Agent" 2010 International Symposium of Materials on Regenerative Medicine, Miaoli, Taiwan (ISOMRM 2010)
- Wu HC*, Wang TW, Lin FH, **Sun JS**, "Gene Transfection by Magnetic Hydroxyapatite Nanoparticles for Functional Tissue Engineering" Tissue Engineering and Regenerative

- Medicine International Society-North America Annual Conference & Exposition, Orlando, Florida, USA (TERMIS-NA 2010)
- Chun-Ho Chen, **Jui-Sheng SUN**: Unusual causes of Carpal Tunnel Syndrome - Space occupying lesions. # P-054; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- Ruei-Cheng Yang, Ming-Hong Chen, **Jui-Sheng Sun**: COL2A1 POINT MUTATION AFFECTS MATRIX HOMEOSTASIS AND HISTOLOGICAL APPEARANCE OF MURINE ARTICULAR CARTILAGE. O-306; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- 蘇盈豪 王子康 **孫瑞昇**. CHONDROLIPOMA IN THE KNEE JOINT: A CASE REPORT AND REVIEW OF THE LITERATURE. T-O-107; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- 吳俊毅 李奕辰 張志豪 **孫瑞昇**. WRONG ANASTOMOSIS OF MEDIAN NERVE TO FCR TENDON FOR MEDIAN NERVE INJURY AFTER SUICIDE. T-P-030; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- 黃俊傑 王子康 **孫瑞昇**. GLOVES PERFORATION IN ORTHOPEDIC ARTHROPLASTY. T-P-041; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- 林蚊姁 王子康 **孫瑞昇**. AN UNCOMMON MYXOID LIPOSARCOMA - CASE REPORT. T-P-152; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- 王子康 **孫瑞昇** 蘇盈豪 藍浩尹. A MODIFIED WET-PAD METHOD FOR BETTER CEMENT PENETRATION IN TOTAL KNEE ARTHROPLASTY (TKA). T-O-025; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- Zao-Ming Shih, Tze-Hong Wong, **Jui-Sheng Sun**. THE APPLICATION OF CEMENT-COVERED TRANSPEDICULAR SCREWS IN OSTEOPOROTIC SPINAL SURGICAL PATIENTS. O-180; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- Yi-Chen Li, **Jui-Sheng Sun**. CLINICAL ASPECTS OF BONE HEALING WITH HYDROXYAPATITE (HA) AND BIPHASIC CALCIUM PHOSPHATE (BCP) USE IN FRACTURE PATIENTS. O-349; The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- Special Lecture: Functional Tissue Engineering. The Local Meeting of Taiwan Orthopedic Association. TaoYuan, Taiwan, ROC. June 26th, 2010.
- 黃俊傑, 王子康, **孫瑞昇**: Pigmented Villonodular Synovitis with avascular necrosis of femoral head. 2010, The 58th Annual Meeting of Taiwan Orthopedic Association (Spring Section) April. 24th, 2010.
- Yi-Jie Kuo, **Jui-Sheng Sun**, Jia-Fwu Shyu, Chi-Hung Lin, Chia-Xian Chen, Yang-Hwei Tsuang: The Apoptotic Effect of Sintered Dicalcium Pyrophosphate on Osteoclast can be

- Reduced by Simultaneous Usage of Calcitonin. ORS 56th Annual Meeting, March 6-9, 2010 in New Orleans, Louisiana.
- Li Tin-Chou (李定洲), Chen Ming-Hong (陳敏弘), **Sun Jui-Sheng (孫瑞昇)**. Application of Radiofrequency Coagulation Stimulation on Cultured Human Flavum Ligament Cells (高頻熱凝刺激器在人類黃韌帶培養細胞上的應用) Biomedical Engineering Society 2009 Annual Symposium, National Yang-Ming University, Taipei, Taiwan, Dec. 11-12, 2009.
- Lee KY (李冠儀), Chen PR (陳佩如), Chuang YJ (莊昀儒), Chen MH (陳敏弘), **SUN JS (孫瑞昇)**: CHITOSAN-CNT AS AN ELECTRICALLY CONDUCTIVE MATERIAL FOR PERIPHERAL NERVE REPAIR(幾丁聚醣-奈米碳管複合型導電性材料在週邊神經修復的應用). Biomedical Engineering Society 2009 Annual Symposium, National Yang-Ming University, Taipei, Taiwan, Dec. 11-12, 2009.
- 郭宜潔, **孫瑞昇**, 徐佳福, 林奇宏, 陳加憲, 曾永輝: The Apoptotic Effect of Sintered Dicalcium Pyrophosphate on Osteoclast Reduced by Simultaneous Usage of Calcitonin. 同時使用抑鈣素會降低焦結磷酸鈣對蝕骨細胞的凋亡作用. The Annual Meeting of Orthopedic Association R.O.C. Oct. 24th to Oct. 25th, 2009.
- Chiang, Chang-Jung, Tsuang, Yang-Hwei, **Sun, Jui-Sheng**, Cheng, Cheng-Kung, Liao, Chun-Jen, Liang, Huang-Chien: The Effect of Annular Repair on Disc Degeneration in a Porcine Spine Model. The ORS 55th Annual Meeting, February 22-25, 2009 in Las Vegas, Nevada.
- Yi-Jie Kuo; Cheng-Kung Cheng; **Jui-Sheng Sun**; Yang-Hwei Tsuang: The Effects of Compressive Loads Induced Apoptotic Pathway in the Intervertebral Disc Cells of Rat. The ORS 55th Annual Meeting, February 22-25, 2009 in Las Vegas, Nevada..
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- 郭宜潔, 鄭誠功, **孫瑞昇**, 曾永輝: The Effects of Compressive Loads-Induced Apoptosis in the Intervertebral Disc Cells of Rat. The Annual Meeting of Orthopedic Association R.O.C. Oct. 25th to Oct. 26th, 2008. O-189 10/26 10:40
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- Jimmy Li, Walter H Chang, Hwa-Chang Liu, **Jui-Sheng Sun**: The influence of different sizes of particulated hydroxyapatite on osteoblasts, myoblasts, and fibroblasts. 1995 Annual Symposium of the Biomedical Engineering Society. (Abstract, p128) Dec. 15th - 16th, 1995.
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- Lin-Bin Yang, **Jui-Sheng Sun**, Sheng-Mou Hou: Surgical treatment of Kienbock disease. The 34th Annual Meeting of Orthopedic Association R.O.C. (Abstract). Oct., 1993.

D. Chairperson of Conference:

- Chairperson: Research Free Paper III, Saturday, 29 October. The 60th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 29-30 Oct, 2011.
- Chairperson: T-303, Saturday, 6 November. The Combined Academic Conference of 16th Triennial Congress of the Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, on 4-7 November, 2010.
- SYMPOSIUM The Reverse Total Shoulder Arthroplasty: Reverse prostheses in arthropathies with cuff tear : survivorship and long term results; Dr. Gilles Walch (France). Annual Meeting of Taiwan Shoulder and Elbow Society, July 10th, 2010.
- Special Lecture: Michael Larsen, MD: Thromboprophylaxis Made Simple: Impact of New Oral Agent. The 58th Annual Meeting of Taiwan Orthopedic Association (Spring Section) April. 24th, 2010.
- Adult Reconstruction I & II: 08:40 – 10:30, April 25, 2009: The 56th Annual Meeting of Orthopedic Association R.O.C., Spring Session, April 25th, 2009.
- Co-Chairperson: The 17th Asia Congress of Surgery & the 68th Annual Meeting of Taiwan Surgical Association. March 20 -22, 2009, Taipei, Taiwan
- Oral presentation I-II: 2006 Annual Meeting of Formosa Association of Regenerative Medicine. Feb. 18th, 2006.
- Co-Chairperson: AO Hand Seminar 2006 with workshop. Apr. 7th, 2006, Taipei City Hospital, Joint Organized by AO international & AO East Asia. AOAA Taiwan Chapter, Society for Surgery of the Hand, ROC, Taiwan Orthopedic Association, Synthes Medical Taiwan, Ltd.

Research II: 10/29 10:30 – 11:00, Oct. 29, 2005: The 496th Annual Meeting of Orthopedic Association R.O.C. Oct.29th to Oct. 304th, 2005.

Research III: 10/29 08:30 – 10:00, Oct. 29, 2005: The 50th Annual Meeting of Orthopedic Association R.O.C. Oct.29th to Oct. 304th, 2005.

Research II: 15:30 – 17:00, Oct 23, 2004: The 46th Annual Meeting of Orthopedic Association R.O.C. Oct.23th to Oct. 24th, 2004.

Nerve and Microsurgery: 10:30 – 11:50, Oct 24, 2004: The 46th Annual Meeting of Orthopedic Association R.O.C. Oct.23th to Oct. 24th, 2004.

E. Book Chapter:

1. Yuan-Hung Chao, **Jui-Sheng Sun**: In Cheng-Kung Cheng and Savio L-Y. Woo (Eds): Frontiers in Orthopaedic Biomechanics, 978-981-15-3158-3, 449334_1_En, (2); Chapter 2: Biomechanics of Skeletal Muscle and Tendon.
2. **Jui-Sheng Sun** (Consultant of Editorial Board): The Encyclopedia of The Human Body (Chinese Version 2003). Owl Publishing House Co. Ltd. Taipei, Taiwan.
3. Cheng-I Wang, **Jui-Sheng Sun**, Ch-Kung Ho, Chiu-Zon Chen, Chi-Hong Pan: Investigation of Repetitive Injuries of Upper Extremity: an epidemiologic study on the school teachers and typewriters. Annual of Labor Safety Report, ROC 2003: 10(1): 45 – 57.
4. **Jui-Sheng Sun**: Chap. Amputation and Replantation, Surgery (2002, In Chinese): Lee Chun-Jean (Editors in Chief); Kingdom Publications, Ltd., Taipei, Taiwan.
5. **Jui-Sheng Sun**: Core course of orthopedic management. Editor: Sheng-Mou Hou. 2000. Topics: Bennet's fracture, Scaphoid fracture. (Published in Chinese)
6. **Jui-Sheng Sun**: Core course of emergent medicine. Editor: Fang-Yu Lin. 1999. Topics: Pelvic fracture. Traumatic fracture-dislocation, Upper extremity Injury \ Lower extremity injury \ Hand/ Wrist injury/ infection. (Published in Chinese)
7. **Jui-Sheng Sun**: Handbook of Traumatology. Editors: Gin-Zen Chang and Fang-Yu Lin, 1999. Chap. 24: General principles of fracture management; Chap. 25: Fracture reduction, Chap. 26: Fixation of fracture, Chap. 27: Management of open fractures. (Published in Chinese)
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F. Pattern:

1. COMPOSITION FOR MAGNETOFECTION: FILE: 21088USF. Apply: 2006/09/28
2. 脊椎融合固定器；件編號：P13940025US；專利申請及獲證日期：20051101 – 20051231
非科專 5M56ZC3000
3. SPINAL FUSION DEVICE: United States Patent No. US8,062,372 B2; Date of Patent: Nov. 22, 2011; Inventors: Yang-Hwei Tsuang, (Taipei City, TW); Jui-Sheng Sun, (Taipei City, TW); Chun-Jen Liao, (Taipei City, TW); Chen-Chi Tsai, (Taipei County, TW); Shan-Chang Chueh, (Taipei City, TW); Yi-Hung Lin, (Hsinchu County, TW); Shian-Yih Wang, (Taipei City, TW); I-Fan Chiu, (Taipei City, TW)
4. THERMAL RESPONSIVE COMPOSITION FOR TREATING BONE DISEASE: United States Patent No. US8,614,190 B2; Date of Patent: Dec. 24, 2013; Inventors: Shen-Hua Peng (Taoyuan County, TW); Hsin-Hsin Shen (Hsin-Chu County, TW); Liang-Yo Yang (Taipei City, TW); Meng-Yo Hsieh (Taipei City, TW); Pei-Shan Li (Taipei City, TW); Wei-Li Yu (Zhubei, TW); Tsai-Yu Lin (Changhua, TW); Po-Liang Lai (Changhua, TW); Jui-

Sheng Sun (Taipei City, TW); Chih-Hung Chang (Taipei City, TW); Yi-Hung Lin (Zhubei, TW)

5. THERMAL RESPONSIVE COMPOSITION FOR TREATING BONE DISEASE: People Republic of China Patent No. CN102309779 B; Date of Patent: March. 12, 2014; Inventors: Shen-Hua Peng (Taoyuan County, TW); Hsin-Hsin Shen (Hsin-Chu County, TW); Liang-Yo Yang (Taipei City, TW); Meng-Yo Hsieh (Taipei City, TW); Pei-Shan Li (Taipei City, TW); Wei-Li Yu (Zhubei, TW); Tsai-Yu Lin (Changhua, TW); Po-Liang Lai (Changhua, TW); Jui-Sheng Sun (Taipei City, TW); Chih-Hung Chang (Taipei City, TW); Yi-Hung Lin (Zhubei, TW). 治療骨疾病的溫度敏感性組合物. 發明人 彭申樺, 沈欣欣, 楊良友, 謝孟佑, 李佩珊, 餘惟琳, 林才佑, 賴伯亮, 孫瑞昇, 張至宏, 林溢泓. 申請者 財團法人工業技術研究院. 公開號. 申請書編號 CN 201110182361. 發佈日期 2014年3月12日; 申請日期 2011年6月30日; 優先權日期 2010年6月30日. 其他公開專利號 CN102309779A, US8614190, US20120010139.
6. 仿生固定裝置; 發明第I536955號; 專利權期間: 2016.06.11 – 2034.07.01. 發明權人: 財團法人工業技術研究院、國立台灣大學醫學院附設醫院. 發明人: 蔡佩宜, 黃志傑, 溫奕泓, 沈欣欣, 林溢泓, 林得耀, 孫瑞昇, 莊傳勝, 陳安利, 林敬智. (中華民國105年06月11日).
7. Kit and Method for Promoting Mesenchymal Stem Cell Differentiation. FILE: 14/700,173. Filing Date: 04/30/2015. Art Unit: 1653. Class-Subclass: 435-377000. Date of Patent: May 01, 2018. US10066208B2
8. Nerve Impulse Signal Stimulation Device and Method for Fabrication the Same. FILE: 15/217,348. Filing Date: 07/22/2016. Art Unit: 3762. Class-Subclass: 607-117000. Date of Patent: Aug 15, 2018.
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中心案號 (台灣)	發明名稱 專利名稱 創作人 計畫來源 公開	申請日 申請號 公開日 公開號 獲證日 專利號
10A-140818TW	三共聚物(明膠/玻尿酸/軟骨素)結合非蛋白質激素做為以幹細胞為細胞原之軟骨建構物之材料應用 一種促進間質幹細胞分化的套組與方法 Kit and method for promoting meanchymal stem cell differentiation 孫瑞昇, 林峰輝, 李淳敬, 陳靖昀, 柯承志 利用本校資源; 否, 未來預計會公開	2014/11/20 103140322 2016/05/26 20160145574 2016/02/21 I522468
	歸屬單位 進度狀態 下次繳費日 年費有效年次 專利權止日	申請國家 / 類別 收件日 申請備註 事務所 代理案號
	醫學系 骨科 獲證 0 2034/11/19	中華民國 / 發明 基律 2260-NTU-TW

中心案號 (美國)	發明名稱 專利名稱 創作人 計畫來源 公開	申請日 申請號 公開日 公開號 獲證日 專利號
10A-140818US	三共聚物(明膠/玻尿酸/軟骨素)結合非蛋白質激素做為以幹細胞為細胞原之軟骨建構物之材料應用 一種促進間質幹細胞分化的套組與方法 Kit and method for promoting meanchymal stem cell differentiation 孫瑞昇, 林峰輝, 李淳敬, 陳靖昀, 柯承志 利用本校資源; 否, 未來預計會公開	2015/04/30 14/700173 2016/05/26 20160145574 2018/09/04 US10066208B2
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	醫學系 骨科 獲證 0 2035/04/30	美國 / 發明 基律 2344-NTU-US

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10A-140519US	大型可灌流可包埋細胞的多孔隙水膠支架製備方法 大型可灌流可包埋細胞的多孔隙水膠支架製備方法 孫瑞昇，陳沛裕，黃卉雯 其他:NTUH.103-S2481 否，未來預計會公開	2014/07/22 14/337853	美國 / 發明 基律 2315-NTU-US
10A-140818US	三共聚物(明膠/玻尿酸/軟骨素)結合非蛋白質激素做為以幹細胞為細胞原之軟骨建構物之材料應用一種促進間質幹細胞分化的套組與方法 Kit and method for promoting mesenchymal stem cell differentiation 孫瑞昇，林峰輝，李淳敬，陳靖昀，柯承志 利用本校資源; 否，未來預計會公開	2015/04/30 14/700173	美國 / 發明 基律 2344-NTU-US
10A-140818TW	三共聚物(明膠/玻尿酸/軟骨素)結合非蛋白質激素做為以幹細胞為細胞原之軟骨建構物之材料應用一種促進間質幹細胞分化的套組與方法 Kit and method for promoting mesenchymal stem cell differentiation 孫瑞昇，林峰輝，李淳敬，陳靖昀，柯承志 利用本校資源; 否，未來預計會公開	2034/11/19 2014/11/20 103140322 2016/02/21 1522468	中華民國 / 發明 基律