

## 何美玲教授 Mei-Ling Ho, Ph.D.

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### POSITION

Distinguished Professor, Department of Physiology, Orthopaedic Research Center  
CEO, Regenerative Medicine and Cell Therapy Center, Kaohsiung Medical University  
Chairperson of medical device domain, Southern Taiwan Interdisciplinary Center for Innovative Technologies

### EDUCATION

1993.09-1999.06 Ph.D., Graduate Institute of Medicine, Kaohsiung Medical College  
1983.09-1986.06 M.S., Graduate Institute of Medicine, Kaohsiung Medical College  
1973.09-1977.06 B.S., School of Pharmacy, Kaohsiung Medical College

### EXPERIENCES

2020.08-2021.08 Associate Dean, College of Medicine, Kaohsiung Medical University  
2019.08-present Executive Director, Regenerative Medicine and Cell Therapy Research Center (RCC),  
Kaohsiung Medical University  
2019-08-present Distinguished Professor, Department of Physiology/ Orthopaedic Research Center,  
Kaohsiung Medical University  
2001.11-2018.07 Director, Orthopaedic Research Center, Kaohsiung Medical University  
2008.02-present Professor, Department of Physiology, Kaohsiung Medical University  
2015.08-2018.07 Dean, Office for Operation of Industry and University Cooperation, Kaohsiung  
Medical University  
2006.08-2015.07 Chair, Department of Physiology, Kaohsiung Medical University  
1996.08-2007.01 Associate Professor, Department of Physiology, Kaohsiung Medical University  
1992.02-1993.01 Research Fellow, Department of Orthopaedics, University of Virginia, USA  
1986.08-1996.07 Instructor, Department of Physiology, Kaohsiung Medical College

### SPECIALITIES

Bone cell biology, Physiology, Pharmacology, Stem cell/ Regenerative medicine

### HONORS& AWARDS

- 9th Outstanding Alumnae of Kaohsiung Medical University School of Pharmacy 高醫藥學文教基金會

第九屆傑出校友-學術類傑出校友 (2019)

- Ministry of Science and Technology Academic Research Award (2018)
- Ministry of Education Outstanding Faculty Teaching Award 教育部資深優良教師獎 (2018)
- National Innovation Award (2011, 2016, 2017) / Institute for Biotechnology and Medicine Industry, Taiwan
- The Prize of Excellent Thesis Competition (2010, 2011, 2013, 2014) / Taiwan Orthopaedic Research Society
- The Second Prize of Oral Presentation (2002) / Taiwan Orthopaedic Association

## 期刊論文

1. Ling-Hua Chang, Chung-Hwan Chen, Shun-Cheng Wu, Je-ken Chang \*, and Mei-Ling Ho (何美玲) \*(2021, Sep) Cyclooxygenase-2 regulates PTHrP transcription in human articular chondrocytes and involved in osteoarthritis pathophysiology in rats. *Journal of Orthopaedic Translation*, Volume 30, September 2021, Pages 16-30. 本人為通訊作者.
2. Ya-Shuan Chou, Shu-Chun Chuang, Chung-Hwan Chen, Mei-Ling Ho (何美玲) \*and Je-Ken Chang\*(2021,08) G-protein-coupled estrogen receptor-1 positively regulates the growth plate chondrocyte proliferation in female pubertal mice. *Frontiers in Cell and Developmental Biology*, August 2021, Volume 9, Article 710664
3. Chung-Hwan Chen, Kang Lin , Ling-Hua Chang, Sung-Yen Lin, Shun-Cheng Wu, Yi-Shan Lin, Mei-Ling Ho\*, Je-Ken Chang\*(2021,8) Intra-articular low-dose parathyroid hormone (1-34) improves mobility and articular cartilage quality in a preclinical age-related knee osteoarthritis model. *Bone & Joint Research*, 2021 Aug;10(8):514-525. 本人為通訊作者.
4. Cheng-Chang Lu, Cheng-Jung Ho , Hsuan-Ti Huang , Sung-Yen Lin , Shih-Hsiang Chou , Pei-Hsi Chou, Mei-Ling Ho (何美玲) and Yin-Chun Tien\*(2021,03) Effect of Freshly Isolated Bone Marrow Mononuclear Cells and Cultured Bone Marrow Stromal Cells in Graft Cell Repopulation and Tendon-Bone Healing after Allograft *International Journal of Molecular Sciences*, 2021, 22, 2791.
5. Chung-Da Yang, Shu-Chun Chuang, Tsung-Lin Cheng, Mon-Juan Lee, Hui-Ting Chen, Sung-Yen Lin, Hsuan-Ti Huang ,Cheng-Jung Ho , Yi-Shan Lin, Lin Kang , Mei-Ling Ho (何美玲), Je-Ken Chang\* and Chung-Hwan Chen \*(2021,02) An Intermediate Concentration of Calcium with Antioxidant Supplement in Culture Medium Enhances Proliferation and Decreases the Aging of Bone Marrow Mesenchymal Stem Cells. *International Journal of Molecular Sciences*, 2021, 22, 2095.
6. Margaret Kay Ho, Crystal Cheuk Yiu Hsue, Cheng Heng Nicholas Lai, Kwun Ting Chan, Cheuk Nam Cheng, Chun Fung Chow, Ka Ho Lui, Shireen Rashed, Elaine Wong, Wai Yan Yu, Vanessa H M Cheung, Steven W K Siu, Mei-Ling Ho (何美玲), Kwok-Keung Yuen, Amy Tien Yee Chang (2020, Nov). A cross-sectional study on the attitudes and perceptions of outpatients towards palliative care at the Hong Kong Queen Mary Hospital Hospice Centre. *Ann Palliat Med*, Nov;9(6):4522-4533..
7. Chung-Hwan Chen, Chao-Han Lai, Yi-Kai Hong, Jui-Ming Lu, Sung-Yen Lin, Tien-Ching Lee,

- Lan-Yun Chang, Mei-Ling Ho (何美玲), Edward M Conway, Hua-Lin Wu, Tsung-Lin Cheng (2020, Sep). Thrombomodulin Functional Domains Support Osteoblast Differentiation and Bone Healing in Diabetes in Mice. *J Bone Miner Res*, Sep;35(9):1812-1823.
8. Hsin-Chaio Chou, Chung-Hwan Chen, Liang-Yin Chou, Tsung-Lin Cheng, Lin Kang, Shu-Chun Chuang, Yi-Shan Lin, Mei-Ling Ho (何美玲), Yan-Hsiung Wang, Sung-Yen Lin, Chau-Zen Wang (2020, Sep). Discoidin Domain Receptors 1 Inhibition Alleviates Osteoarthritis via Enhancing Autophagy. *Int J Mol Sci*, Sep 23;21(19):6991.
  9. Shu-Chun Chuang, Chung-Hwan Chen, Ya-Shuan Chou, Mei-Ling Ho, Je-Ken Chang (2020, Sep). G Protein-Coupled Estrogen Receptor Mediates Cell Proliferation through the cAMP/PKA/CREB Pathway in Murine Bone Marrow Mesenchymal Stem Cells. *Int J Mol Sci*, Sep 5;21(18):6490.. 本人為通訊作者.
  10. Cheng-Chang Lu, Shih-Hsiang Chou, Po-Chih Shen, Pei-Hsi Chou, Mei-Ling Ho, Yin-Chun Tien (2020, Aug). Extracorporeal shock wave promotes activation of anterior cruciate ligament remnant cells and their paracrine regulation of bone marrow stromal cells' proliferation, migration, collagen synthesis, and differentiation. *Bone Joint Res*, Aug 11;9(8):458-468..
  11. Chou LY, Chen CH, Lin YH, Chuang SC, Chou HC, Lin SY, Fu YC, Chang JK, Ho ML, Wang CZ (2020, Apr). Discoidin domain receptor 1 regulates endochondral ossification through terminal differentiation of chondrocytes.. *FASEB J.*, 34(4):5767-5781. 本人為通訊作者.
  12. Teng FY, Tai IC, Ho ML, Wang JW, Weng LW, Wang YJ, Wang MW, Tseng CC (2019, Dec). Controlled release of BMP-2 from titanium with electrodeposition modification enhancing critical size bone formation.. *Mater Sci Eng C Mater Biol Appl.*, 105:109879..
  13. Yi-Chia Wu, Ya-Chin Wang, Wei-Ting Wang, Hui-Min David Wang, Hsin-Hung Lin, Long-Jyun Su, Yur-Ren Kuo, Chung-Sheng Lai, Mei-Ling Ho(何美玲), and John Yu\* (2019, Aug). Fluorescent Nanodiamonds Enable Long-Term Detection of Human Adipose-Derived Stem/Stromal Cells in an In Vivo Chondrogenesis Model Using Decellularized Extracellular Matrices and Fibrin Glue Polymer.. *Polymers (Basel)*, 23;11(9). pii: E1391.. (SCI, 19.54%/Polymer science).
  14. Chau-Zen Wang, Rajalakshmanan Eswaramoorthy, Tzu-Hsiang Lin, Chung-Hwan Chen, Yin-Chih Fu, Chih-Kuang Wang, Shun-Cheng Wu, Gwo-Jaw Wang, Je-Ken Chang & Mei-Ling Ho(何美玲)\* (2018, Jul). Enhancement of chondrogenesis of adipose-derived stem cells in HA-PNIPAAm-CL hydrogel for cartilage regeneration in rabbits. *Scientific Reports*, 12;8(1):10526.. (SCI, 18.75%/Multidisciplinary sciences). 本人為通訊作者.
  15. Shun-Cheng Wu, Pei-Yi Huang, Chung-Hwan Chen, Benjamin Teong, Je-Ken Chang, Mei-Ling Ho\* (2018, Jul). Hyaluronan microenvironment enhances cartilage regeneration of human adipose-derived stem cells in a chondral defect model. *International Journal of Biological Macromolecules*, 2018 Jul 18;119:726-740. MOST 103-2314-B-037-017-MY3. 本人為通訊作者.
  16. Chung-Hwan Chen, Ling-Hua Chang, Lin Kang, Yi-Shan Lin, Sung-Yen Lin, Shun-Cheng Wu, Je-Ken Chang, and Mei-Ling Ho(何美玲)\*. (2018, May). Parathyroid hormone (1-34) ameliorated knee osteoarthritis in rats via autophagy. *Journal of Applied Physiology* (1985), 124(5):1177-1185.. (SCI, 13.58%/Sport Sciences). 本人為通訊作者.
  17. Shun-Cheng Wu, Chung-Hwan Chen, Jyun-Ya Wang, Yi-Shan Lin, Je-Ken Chang, Mei-Ling

- Ho(何美玲) (2018, Jan). Hyaluronan size alters chondrogenesis of adipose-derived stem cells via the CD44/ERK/SOX-9 pathway.. *Acta Biomaterialia*, 15;66:224-237. (SCI, 3/77: Engineering, Biomedical). 本人為通訊作者.
18. Ji-Hua Lee, Min-Hsuan Chiang, Ping-Ho Chen, Mei-Ling Ho(何美玲), Huey-Er Lee, Yan-Hsiung Wang (2017, Nov). Anti-inflammatory effects of low-level laser therapy on human periodontal ligament cells: in vitro study.. *Lasers Med Sci.*, Article in press. (SCI). <https://www.ncbi.nlm.nih.gov/pubmed/29116611>.
  19. Chung-Hwan Chen, Ching-Ju Li, I-Chun Tai, Xiao-Hui Lin, Hseng-Kuang Hsu, and Mei-Ling Ho\* (2017, Sep). The Fractionated *Toona sinensis* Leaf Extract Induces Apoptosis of Human Osteosarcoma Cells and Inhibits Tumor Growth in a Murine Xenograft Model.. *Integrative Cancer Therapies*, 16(3):397-405. 本人為通訊作者.
  20. Tien-Ching Lee, Pei-Shan Ho, Hui-Tzu Lin, Mei-Ling Ho, Hsuan-Ti Huang, Je-Ken Chang\* (2017, Aug). One-year readmission risk and mortality after hip fracture surgery: a national population-based study in Taiwan. *Aging and Disease*, 8(4); 402-409.
  21. Benjamin Teong, Shyh Ming Kuo, Wei-Hsin Tsai, Mei-Ling Ho, Chung-Hwan Chen\*, Han Hsiang Huang\* (2017, Apr). Liposomal encapsulation for systemic delivery of propranolol via transdermal iontophoresis improves bone microarchitecture in ovariectomized rats. *International Journal of Molecular Sciences*, 18, 822.
  22. Benjamin Teong, Shun-Cheng Wu, Chien-Mei Chang, Jhen-Wei Chen, Hui-Ting Chen, Chung-Hwan Chen, Je-Ken Chang, Mei-Ling Ho\* (2017, Mar). The stiffness of a cross-linked hyaluronan hydrogel affects its chondro-induction activity on hADSCs. *J Biomed Mater Res B Appl Biomater*. 2018 Feb;106(2):808-816. doi: 10.1002/jbm.b.33881.. 本人為通訊作者.
  23. Min-Hsuan Chiang, Ping-Ho Chen, Yuk-Kwan Chen, Chia-Hsin Chen, Mei-Ling Ho, and Yan-Hsiung Wang\* (2016, Nov). Characterization of a Novel Dermal Fibrosis Model Induced by *Areca Nut* Extract that Mimics Oral Submucous Fibrosis.. *PLoS One.*, Nov 16;11(11):e0166454. .
  24. Linghua Chang, Shun-Cheng Wu, Gwo-Jaw Wang, Chung-Hwan Chen, Je-ken Chang, Mei-Ling Ho\* (2016, Sep). Parathyroid hormone 1-34 reduces dexamethasone-induced terminal differentiation in human articular chondrocytes.. *Toxicology*. 本人為通訊作者.
  25. Tsung-Lin Cheng, Chao-Han Lai, Shyh-Jou Shieh, Yin-Bo Jou, Jwu-Lai Yeh, Ai-Lun Yang, Yan-Hsiung Wang, Chau-Zen Wang, Chung-Hwan Chen, Guey-Yueh Shi, Mei-Ling Ho, Hua-Lin Wu\* (2016, Jun). Myeloid thrombomodulin lectin-like domain inhibits osteoclastogenesis and inflammatory bone loss. *Scientific Reports*, 6:28340.
  26. Yao-Hsien Wang, Eswaramoorthy Rajalakshmanan, Chih-Kuang Wang, Chung-Hwan Chen, Yin-Chi Fu, Tzu-Lin Tsai, Je-Ken Chang and Mei-Ling Ho (2016, Jun). PLGA-linked alendronate enhances bone repair in diaphysis defect model.. *J Tissue Eng Regen Med.*, 2016 Jun 3. doi: 10.1002/term.2160.. 本人為通訊作者.