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Research Interests: Acute and Chronic Pain Management, Cardiopulmonary Physical Therapy, Local Anesthesia

Academic Distinctions:

Distinguished Teaching Professor, College of Medicine, CMU (2007)

Distinguished Teaching Professor, College of Medicine, CMU (2009)

Appointments:

2006-2007: Postdoctoral fellow: Department of Medical Research, Chi Mei Medical Center, Tainan, Taiwan

2007-2010: Assistant Professor: Department of Physical Therapy, College of Health Care, China Medical University (Taiwan)

2010-2014: Associate Professor: Department of Physical Therapy, College of Health Care, China Medical University (Taiwan)

2012-2013: Visiting Scholar: Brigham and Women's Hospital, Harvard Medical School, Boston, MA

2014-present: Department of Physical Therapy, College of Health Care, China Medical University (Taiwan)

Research Interests:

The research themes in my lab aim to decipher the signaling pathways important for acute and chronic pain management, cardiopulmonary physical therapy, and local anesthesia. We have combined the biochemical approaches and disease rat model to address the relevant treatment in pain management and local anesthesia. Several areas of the research are actively studied in my lab.

Representative Publications:

1. Ching-Hsia Hung, Chin-Chen Chu, Yu-Chung Chen, Kuo-Sheng Liu, Yu-Wen Chen*, Jhi-Joung Wang. Cutaneous analgesia and systemic toxicity of carbetapentane and caramiphen in rats. *Region Anesth Pain M* 37(1):34-39, 2012, Jan-Feb. (SCI)
2. Yu-Wen Chen, Chin-Chen Chu, Yu-Chung Chen, Jhi-Joung Wang, Ching-Hsia Hung, Dong-Zi Shao. Nisoxetine produces local but not systemic analgesia against cutaneous nociceptive stimuli in the rat. *Eur J Pharmacol* 675(1-3):22-25, 2012, January. (SCI)
3. Yuk-Man Leung, Kar-Lok Wong, Ka-Shun Cheng, Chang-Shin Kuo, Tzu-Hui Su, Yu-Wen Chen, Tzu-Hung Cheng. Inhibition of voltage-gated K⁺ channels and Ca²⁺ channels by diphenidol (short communication). *Pharmacol Rep* 64(3):739-744, 2012, May. (SCI)
4. Yu-Wen Chen, Yung-Tsung Li, Yu-Chung Chen, Zong-Ying Li, Ching-Hsia Hung. Exercise training attenuates neuropathic pain and cytokine expression after chronic constriction injury of rat sciatic nerve. *Anesth Analg* 114(6):1330-1337, 2012, June. (SCI)
5. Yu-Wen Chen*, Chin-Chen Chu, Yu-Chung Chen, Chung-Dann Kan, Jhi-Joung Wang. Promazine and chlorpromazine for prolonged spinal anesthesia in rats. *Neurosci Lett* 521(2):115-118, 2012, July. (SCI)

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6. Yu-Wen Chen, Chin-Chen Chu, Yu-Chung Chen, Ching-Hsia Hung, Jhi-Joung Wang. Propranolol elicits cutaneous analgesia against skin nociceptive stimuli in rats. *Neurosci Lett* 524(2):129–132, 2012, August. (SCI)
7. Yu-Wen Chen*, Chin-Chen Chu, Yu-Chung Chen, Yuk-Man Leung, Jhi-Joung Wang. Spinal blockades of class I antiarrhythmic drugs with bupivacaine by isobolographic analysis in rats. *Neurosci Lett* 528(1):46–50, 2012, October. (SCI)
8. Yu-Wen Chen*, Chin-Chen Chu, Yu-Chung Chen, Yuk-Man Leung, Jhi-Joung Wang. Intrathecal chlorprothixene, cis(z)-flupenthixol, chlorpromazine and fluphenazine for prolonged spinal blockades of sensory and motor functions in rats. *Eur J Pharmacol* 693(1-3):31–36, 2012, October. (SCI)
9. Yu-Wen Chen, Ja-Ping Shieh, Yu-Chung Chen, Yuk-Man Leung, Ching-Hsia Hung, Jhi-Joung Wang. Cutaneous analgesia after subcutaneous injection of memantine and amantadine and their systemic toxicity in rats. *Eur J Pharmacol* 693(1-3):25–30, 2012, October. (SCI)
10. Yu-Wen Chen*, Pei-Ling Hsieh, Yu-Chung Chen, Ching-Hsia Hung, Juei-Tang Cheng. Physical exercise induces excess Hsp72 expression and delays the development of hyperalgesia and allodynia in painful diabetic neuropathy rats. *Anesth Analg* 116(2):482–490, 2013, February. (SCI)
11. Ching-hsia Hung, Che-Ning Chang, Yu-Wen Chen*, Yu-Chung Chen, Jann-Inn Tzeng, Jhi-Joung Wang. Cardiopulmonary profile in streptozotocin-induced type 1 diabetic rats during systemic endotoxemia. *Journal of Diabetes Research (formerly titled Experimental Diabetes Research)* 2013, vol. 2013, pages 494179. doi:10.1155/2013/494179 (or vol. 2013, Article ID 494179, 8 pages, 2013. doi: 10.1155/2013/49417). (SCI)
12. Yuk-Man Leung, Chin-Chen Chu, Chang-Shin Kuo, Yu-Wen Chen*, Jhi-Joung Wang. Nisoxetine blocks sodium currents and elicits spinal anesthesia in rats. *Pharmacol Rep* 65(2):350–357, 2013, June. (SCI)
13. Yu-Wen Chen, Min-Fei Lin, Yu-Chung Chen, Ching-Hsia Hung, Jann-Inn Tzeng, Jhi-Joung Wang. Exercise training attenuates postoperative pain and expression of cytokines and N-methyl-D-aspartate receptor subunit 1 in rats. *Region Anesth Pain M* 38(4):282-288, 2013, July/August. (SCI)
14. Yuk-Man Leung, Jann-Inn Tzeng, Chang-Shin Kuo, Yu-Wen Chen*, Chin-Chen Chu, Jhi-Joung Wang. The use of carbetapentane for spinal anesthesia and use-dependent block of sodium currents. *Eur J Pharmacol* 714(1-3):366-372, 2013, August. (SCI)
15. Yu-Wen Chen, Jann-Inn Tzeng, Kuo-Sheng Liu, Shu-Han Yu, Ching-Hsia Hung, Jhi-Joung Wang. Systemic diphenidol reduces neuropathic allodynia and TNF-alpha overexpression in rats after chronic constriction injury. *Neurosci Lett* 552C:62-65, 2013, September. (SCI)
16. Ching-Hsia Hung, Jann-Inn Tzeng, Che-Ning Chang, Yu-Wen Chen*, Chia-Ying Cho, Jhi-Joung Wang. Treadmill exercise preconditioning attenuates lung damage caused by systemic endotoxemia in type-1 diabetic rats. *Journal of Diabetes Research (formerly titled Experimental Diabetes Research)* 2013, vol. 2013, pages 527090. doi:10.1155/2013/527090 (or vol. 2013, Article ID 527090, 10 pages, 2013. doi: 10.1155/2013/527090) (SCI)
17. Yuk-Man Leung, Chin-Chen Chu, Chang-Shin Kuo, Yu-Wen Chen*, Ching-Hsia Hung, Jhi-Joung Wang. Isobolographic analysis of interaction between nisoxetine- and mepivacaine-induced spinal blockades in rats. *Fundamental & Clinical Pharmacology (Fund Clin Pharmacol)* 28(1):88-94, 2014, February. (SCI)
18. Ching-Hsia Hung, Chin-Chen Chu, Yu-Chung Chen, Yu-Wen Chen*, Jhi-Joung Wang. Rimantadine and 2-adamantanamine elicit local anesthesia to cutaneous nociceptive stimuli in a rat model. *Fundamental & Clinical Pharmacology (Fund Clin Pharmacol)* 28(2):199-204, 2014, April. (SCI)
19. Yu-Wen Chen, Jann-Inn Tzeng, He-Jia Pan, Ching-Hsia Hung, Yu-Chung Chen, Jhi-Joung Wang. Co-administration of memantine with epinephrine produces a marked peripheral action in intensifying and prolonging analgesia in response to local skin pinprick in rats. *Neurosci Lett* 574:59-63, 2014, June. (SCI)
20. Yu-Wen Chen, Jann-Inn Tzeng, Min-Fei Lin, Ching-Hsia Hung, Pei-Ling Hsieh, Jhi-Joung Wang. High-frequency transcutaneous electrical nerve stimulation attenuates postsurgical pain and inhibits excess substance P in rat dorsal root ganglion. *Region Anesth Pain M* 39(4):322-328, 2014, Jul-Aug. (SCI)
21. Yu-Wen Chen, Jann-Inn Tzeng, Ting-Yun Chen, Jhi-Joung Wang, Yu-Chung Chen, Ching-Hsia Hung. Diphenhydramine produces local cutaneous analgesia in response to dorsal skin noxious stimuli in the rat. *Fundamental & Clinical Pharmacology (Fund Clin Pharmacol)* 28(4):439-44, 2014, August. (SCI)
22. Yu-Wen Chen*, Jann-Inn Tzeng, Min-Fei Lin, Ching-Hsia Hung, Jhi-Joung Wang. Forced treadmill running suppresses postincisional pain and inhibits upregulation of substance P and cytokines in rat dorsal root ganglion. *Journal of Pain* 15(8):827-34, 2014, August. (SCI)
23. Jann-Inn Tzeng, He-Jia Pan, Kuo-Sheng Liu, Yu-Wen Chen*, Yu-Chung Chen, Jhi-Joung Wang. Epinephrine as adjuvant for propranolol produces a marked peripheral action in intensifying and prolonging analgesia in response to local dorsal cutaneous noxious pinprick in rats. *Eur J Pharmacol* 740:565-569, 5 October 2014. (SCI)
24. Yu-Wen Chen, Jann-Inn Tzeng, Yu-Chung Chen, Ching-Hsia Hung, Jhi-Joung Wang. Intrathecal orphenadrine

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- elicits spinal block in the rat. *Eur J Pharmacol* 742C:125-130, 5 November 2014. (SCI)
25. Yu-Wen Chen, Jann-Inn Tzeng, Po-Ching Huang, Ching-Hsia Hung, Dong-Zi Shao, Jhi-Joung Wang. Therapeutic ultrasound suppresses neuropathic pain and upregulation of substance P and neurokinin-1 receptor in rats after peripheral nerve injury. *Ultrasound in Medicine and Biology* 41(1):143-150, January 2015. (SCI)
 26. Yuk-Man Leung, Jann-Inn Tzeng, Chi-Li Gong, Yu-Wen Wang, Yu-Wen Chen*, Jhi-Joung Wang. Caramiphen-induced block of sodium currents and spinal anesthesia. *Eur J Pharmacol* 746:213-220, 2015 Jan 5. (SCI)
 27. Yu-Wen Chen, Jann-Inn Tzeng, Min-Fei Lin, Ching-Hsia Hung, Jhi-Joung Wang. Transcutaneous electrical nerve stimulation attenuates postsurgical allodynia and suppresses spinal substance P and proinflammatory cytokine release in rats. *Physical Therapy (PTJ)* 95(1): 76-85, January 2015. (SCI)
 28. Heng-Teng Lin, Chong-Chi Chiu, Jhi-Joung Wang, Ching-Hsia Hung, Yu-Wen Chen*. High frequency transcutaneous electrical nerve stimulation with diphenidol administration results in an additive antiallodynic effect in rats following chronic constriction injury. *Neurosci Lett* 589C: 62-66, 14 January 2015. (SCI)
 29. Jann-Inn Tzeng, Heng-Teng Lin, Yu-Wen Chen*, Ching-Hsia Hung, Jhi-Joung Wang. Chlorpheniramine produces spinal motor, proprioceptive and nociceptive blockades in rats. *Eur J Pharmacol* 752C:55-60, Feb. 17, 2015. (SCI)
 30. Bor-Tsang Wu, Kuan-Ting Chen, Kuo-Sheng Liu, Yu-Wen Chen*, Ching-Hsia Hung, Jhi-Joung Wang. Clonidine intensifies memantine cutaneous analgesia in response to local skin noxious pinprick in the rat (short communication). *Pharmacol Rep* 67(3): 485-489, June 2015. (SCI)
 31. Yu-Wen Chen, Chong-Chi Chiu, Pei-Ling Hsieh, Ching-Hsia Hung, Jhi-Joung Wang. Treadmill training combined with insulin suppresses diabetic nerve pain and cytokines in rat sciatic nerve. *Anesth Analg* 121(1): 239-246, July 2015. (SCI)
 32. Gary R. Strichartz, Alla Khodorova, Jeffrey Chi-Fei Wang, Yu-Wen Chen, Chuan-Chin Huang. Contralateral hyperalgesia from injection of endothelin-1 into the ipsilateral paw requires efferent conduction into the contralateral paw. *Anesth Analg* 121(4): 1065-1077, October 2015. (SCI)
 33. Ching-Hsia Hung, Chong-Chi Chiu, Kuo-Sheng Liu, Yu-Wen Chen*, Jhi-Joung Wang. Subcutaneous L-tyrosine elicits cutaneous analgesia in response to local skin pinprick in rats. *Eur J Pharmacol* 765:457-462, October 2015. (SCI)
 34. Yu-Wen Chen, Chong-Chi Chiu, Yu-Lei Wei, Ching-Hsia Hung, Jhi-Joung Wang. Propranolol combined with dopamine has a synergistic action in intensifying and prolonging cutaneous analgesia in rats. *Pharmacol Rep* 67(6): 1224-1229, December 2015. (SCI)
 35. Yu-Wen Chen, Chong-Chi Chiu, Kuo-Sheng Liu, Ching-Hsia Hung, Jhi-Joung Wang. Memantine elicits spinal blockades of motor function, proprioception, and nociception in rats. *Fundamental & Clinical Pharmacology (Fund Clin Pharmacol)* 29(6): 567-574, December 2015. (SCI)
 36. Ching-Hsia Hung, Chong-Chi Chiu, Kuo-Sheng Liu, Jhi-Joung Wang, Yu-Wen Chen*. Clonidine as an adjuvant for propranolol enhances its effect on infiltrative cutaneous analgesia in rats. *Neurosci Lett* 616: 70-74, 2016 Jan 29. (SCI)
 37. Yu-Wen Chen, Chong-Chi Chiu, Jieh-Neng Wang, Ching-Hsia Hung, Jhi-Joung Wang. Ifenprodil for prolonged spinal blockades of motor function and nociception in rats. *Pharmacol Rep* 68(2): 357-362, April 2016. (SCI)
 38. Jann-Inn Tzeng, Jieh-Neng Wang, Jhi-Joung Wang, Yu-Wen Chen*, Ching-Hsia Hung. Intrathecal rimantadine induces motor, proprioceptive, and nociceptive blockades in rats. *Neurosci Lett* 618: 94-98, 8 April 2016. (SCI)
 39. Jann-Inn Tzeng, Jieh-Neng Wang, Jhi-Joung Wang, Yu-Wen Chen*, Ching-Hsia Hung. Cutaneous synergistic analgesia of bupivacaine in combination with dopamine in rats. *Neurosci Lett* 620: 88-92, 4 May 2016. (SCI)
 40. Kuo-Sheng Liu, Yu-Wen Chen, Ibrahim A. Aljuffali, Chia-Wen Chang, Jhi-Joung Wang, Jia-You Fang. Topically applied mesoridazine exhibits the strongest cutaneous analgesia and minimized skin disruption among tricyclic antidepressants: the skin absorption assessment. *European Journal of Pharmaceutics and Biopharmaceutics* 105:59-68 2016 Aug. (SCI)
 41. Yu-Wen Chen, Chong-Chi Chiu, Chung-Dann Kan, Jhi-Joung Wang, Ching-Hsia Hung. The addition of epinephrine to proxymetacaine or oxybuprocaine solution increases the depth and duration of cutaneous analgesia in rats. *Region Anesth Pain M* 41(5):601-606 2016 Sep-Oct. (SCI)
 42. Ching-Hsia Hung, Po-Ching Huang, Jann-Inn Tzeng, Jhi-Joung Wang, Yu-Wen Chen*. Therapeutic ultrasound and treadmill training suppress peripheral nerve injury-induced pain in rats. *Physical Therapy (PTJ)* 96(10):1545-1553 2016 Oct. (SCI)
 43. Kun-Ling Tsai, Po-Ching Huang, Li-Kai Wang, Ching-Hsia Hung, Yu-Wen Chen*. Incline treadmill exercise suppresses pain hypersensitivity associated with the modulation of pro-inflammatory cytokines and

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anti-inflammatory cytokine in rats with peripheral nerve injury. *Neurosci Lett* 643:27-31 2017 March. (SCI)

44. Ching-Hsia Hung, Chong-Chi Chiu, Kuo-Sheng Liu, Yu-Wen Chen*, Jhi-Joung Wang. Synergistic effects of serotonin or dopamine combined with lidocaine at producing nociceptive block in rats. *Region Anesth Pain M IN PRESS*. (SCI)
45. Po-Ching Huang, Kun-Ling Tsai, Yu-Wen Chen, Heng-Teng Lin, Ching-Hsia Hung. Exercise combined with ultrasound attenuates neuropathic pain in rats associated with down-regulation of IL-6 and TNF-alpha, but with up-regulation of IL-10. *Anesth Analg* ACCEPTED 2016. (SCI)

YU-JUNG CHENG

Associate Professor, Department of Physical therapy, Graduate institute of rehabilitation science



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Research Interests: Stroke, Immunology, Cell biology

Appointments:

2006-2008: Postdoctoral fellow: Research unit of Microbiology and Immunology, National Cheng-Kung University

2008-2009: Postdoctoral fellow: I Institute of Physiological Chemistry and Pathobiochemistry, Münster University, Münster, Germany

2009-2015: Assistant Professor: Department of Physical therapy, Graduate institute of rehabilitation science, CMU

2015-present: Associate Professor: Department of Physical therapy, Graduate institute of rehabilitation science, CMU

Research Interests:

The research themes in my lab aim to discover the effects of exercise or low level LASER therapy on cardiovascular diseases. We use different animal models to explore the mechanism of exercise training or low level LASER in angiogenesis and revascularization. Several areas of the research are actively studied in my lab.

Representative Publications:

[Anagonistic interaction between Cordyceps sinensis and exercise](#) Cheng YJ*, Shyu WC, Teng YH, Lan YH, Lee SD*. Anagonistic interaction between Cordyceps sinensis and exercise on protection in fulminant hepatic failure. Am J Chin Med. **2014** 42(5):1199-213.

[Resveratrol enhances chemosensitivity in mouse melanoma model.](#) Cheng YJ*, Chang MY, Chang WW, Wang WK, Liu CF, Lin ST, Lee CH. Resveratrol enhances chemosensitivity in mouse melanoma model through connexin 43 upregulation. Environ Toxic. **2015** JUL; 30:877-886.

[Eicosapentaenoic Acid Protects against Palmitic Acid-Induced Endothelial Dysfunction](#) Lee, CH, Lee SD, Ou HC, Lai SC, Cheng YJ*. Eicosapentaenoic Acid Protects against Palmitic Acid-Induced Endothelial Dysfunction via Activation of the AMPK/eNOS Pathway. Int J Mol Sci **2014**, JUN; 15:10334-49.

[The Coexistence of Hypertension and Ovariectomy Additively Increases Cardiac Apoptosis.](#) Lin YY, Cheng YJ, Jun H, Chu LX, Shyu WC, Kao CL, Lin TB, Kuo CH, Yang AL, Lee SD*. The Coexistence of Hypertension and Ovariectomy Additively Increases Cardiac Apoptosis, Int J Mol Sci, 2016 Dec; 17(12):E2036

Professor Yueh-Ling Hsieh



Degree: PT, Ph.D.

Education:

Graduate Institute of Medicine (PhD)

Department of Rehabilitation Medicine (BS)

Kaohsiung Medical University

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Research Interests:

1. Management of disease-induced peripheral neuropathy
2. The treatment efficacy of physical modalities in various conditions and the underlying mechanisms
3. Physiotherapeutic management of musculoskeletal pain
4. The use of acupuncture and related techniques in pain management

Biography:

Dr Yueh-Ling Hsieh is currently an associate professor at the Department of Physical Therapy and Graduate Institute of Rehabilitation Science in China Medical University. She received the PhD degree from Graduate Institute of Medicine in Kaohsiung Medical University and also certified in Physical Therapy. She also worked as a physical therapist for 6 years during as a PhD student. Since graduation, she served as the director at the Department of Physical Therapy in Foo-Yin University and HungKung University and also held various academic and research appointments from Ministry of Science and Technology. Her work is focused in neuroscience, physical medicine and translational medicine of neuromusculoskeletal disorder. She is a regular reviewer in many journals of physiological, neuroscience and rehabilitation categories.

Recent Publications:

- 1: Hsieh YL, Chou LW, Hong SF, Chang FC, Tseng SW, Huang CC, Yang CH, Yang CC, Chiu WF. Laser acupuncture attenuates oxaliplatin-induced peripheral neuropathy in patients with gastrointestinal cancer: a pilot prospective cohort study. *Acupunct Med.* 2016 Oct;34(5):398-405.
- 2: Hsieh YL, Yang CC, Sun SH, Chan SY, Wang TH, Luo HJ. Effects of hippotherapy on body functions, activities and participation in children with cerebral palsy based on ICF-CY assessments. *Disabil Rehabil.* 2016 Jul 20:1-11. [Epub ahead of print] PubMed PMID: 27440177.
- 3: Hsieh YL, Hong CZ, Liu SY, Chou LW, Yang CC. Acupuncture at distant myofascial trigger spots enhances endogenous opioids in rabbits: a possible mechanism for managing myofascial pain. *Acupunct Med.* 2016 Aug;34(4):302-9.
- 4: Yang CC, Wang J, Chen SC, Jan YM, Hsieh YL. Enhanced functional recovery from sciatic nerve crush injury through a combined treatment of cold-water swimming and mesenchymal stem cell transplantation. *Neurol Res.* 2015 Sep;37(9):816-26.