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聯絡資訊

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主要學歷

美國伊利諾大學香檳校區 肌動學博士

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專長領域

神經科物理治療、姿勢控制、中風復健、計量分析、運動保健

學術榮譽

榮獲 107 年長庚大學優良教師教學獎

Journal of Rehabilitation Research & Development (國際性 SCI 學術期刊) 審查委員

Rehabilitation Research and Practice 審查委員

Journal of Taiwan Occupational Therapy Research and Practice (台灣職能治療研究與實務雜誌) 審查委員

Publication

近五年著作目錄 (2012-2018)

期刊論文

1. **Chuang L-L.**, Chuang Y-F., Hsu M-J., Huang Y-Z., Wong A-M-K., Chang Y-J.* (2018, May).
Validity and reliability of the Traditional Chinese version of the Multidimensional Fatigue Inventory in general population. PLoS ONE, 10;13(5):e0189850. doi: 10.1371/journal.pone.0189850. (Impact Factor: 2.766, Multidisciplinary Sciences: 15/64) [SCI]
2. **Chuang,L-L.**, Chen,Y-L., Chen, C-C., Li, Y-C., Wong, A-M-K., Hsu,A-L.*, & Chang, Y-J.* (2017, Nov). Effect of EMG-triggered neuromuscular electrical stimulation with bilateral arm training on hemiplegic shoulder pain and arm function after stroke: a randomized controlled trial. Journal of NeuroEngineering and Rehabilitation, 14(1):122. doi: 10.1186/s12984-017-0332-0. (Impact Factor: 3.865, Rehabilitation: 4/65) [SCI]
3. Huang, Y-Z., Chang, F-Y., Liu, W-C., Chuang, Y-F., **Chuang, L-L.**, Chang, Y-J. (2017, Feb).
Fatigue and Muscle Strength Involving Walking Speed in Parkinson's Disease: Insights for Developing Rehabilitation Strategy for PD. Neural Plasticity, 2017:1-9. Article ID: 1941980. DOI: 10.1155/2017/1941980. (Impact Factor: 3.161; Neurosciences: 121/261)[SCI]
4. Chuang, L-L., Lin, K-C., Hsu, A-L., Wu, C-Y., Chang, K-C., Li, Y-C., & Chen, Y-L. (2015, Jun).
Reliability and validity of a vertical numerical rating scale supplemented with a faces rating scale in measuring fatigue after stroke. Health and Quality of Life Outcomes, 13:91. (Impact Factor: 2.278; Health Care Science & Service: 42/94) [SCI] DOI: 10.1186/s12955-015-0290-9
5. Chen, S-W., Liaw, J-W., Chang, Y-J., Chuang, L-L., & Chien, C-T. (2015, Jun). Combined heart

- rate variability and dynamic measures for quantitatively characterizing the cardiac stress status during cycling exercise. *Computers in Biology and Medicine*, 63:133-142. (Impact Factor: 2.115; *Biology*: 28/85)[SCI]
6. Cheng, H-Y., Ju, Y-Y., Chen, C-L., Chuang, L-L., Cheng, C-H. (2015, Feb). Effects of whole body vibration on spasticity and lower extremity function in children with cerebral palsy. *Human Movement Science*, 39:65-72. (Impact Factor: 1.840; *Sport Sciences*: 45/81)[SCI]
 7. Luo, E-C., Chang, Y-C., Sher, Y-P., Huang, W-Y., Chuang, L-L., Chiu, Y-C., Tsai, M-H., Chuang, E-Y., Lai, L-C. (2014, Aug). MicroRNA-769-3p down-regulates NDRG1 and enhances apoptosis in MCF-7 cells during reoxygenation. *Scientific Reports*, 4:5908. (Impact Factor: 4.122; *Multidisciplinary Sciences*: 12/64)[SCI]
 8. Sher, Y-P., Wang, L-J., Chuang, L-L., Tsai, M-H., Kuo, T-T., Huang, C-C., Chuang, E-Y., Lai, L-C. (2014, Apr). ADAM9 up-regulates N-cadherin via miR-218 suppression in lung adenocarcinoma cells. *PLoS One*, 9(4):e94065. (Impact Factor: 2.766; *Multidisciplinary Sciences*: 15/64) [SCI]
 9. Chuang, L-L., Wu, C-Y., Lin, K-C., Lin, Hsieh, C-J. (2014, Jan). Relative and absolute reliabilities of the vertical numerical pain rating scale with the face pain scale after stroke. *Physical Therapy* 94(1): 129-138. (Impact Factor: 2.587; *Rehabilitation*: 12/65) [SCI]
 10. Lai, T-Y., Wu, S-D., Tsai, M-H., Chuang, E-Y., Chuang, L-L., Hsu, L-C., Lai, L-C. (2013, Sep). Transcription of *Tnfrsf25* is regulated by NF- κ B and p38 via C/EBP β in activated macrophages. *PLoS One*, 8(9):e73153. (Impact Factor: 2.766; *Multidisciplinary Sciences*: 15/64). [SCI]
 11. Chuang, L-L., Lin, K-C., Wu, C-Y., Chang, C-W, Chen, H-C., & Yin, H-P. (2013, Mar). Relative and absolute reliabilities of the myotonometric measurements of hemiparetic arms in stroke patients. *Archives of Physical Medicine and Rehabilitation*, 94 (3):459-466. (Impact Factor: 3.077; *Rehabilitation*: 9/65) [SCI]
 12. Wu, C-Y., Yang, C-L.†, Chuang, L-L.†, Lin, K-C., Chen, H-C., & Huang, W-C. (2012, Aug). Effect of therapist-based vs robot-assisted bilateral arm training on motor control, functional performance, and quality of life after chronic stroke. *Physical Therapy* 92 (8): 1006-1016. (Impact Factor: 2.587; *Rehabilitation*: 12/65) [SCI]
 13. Chuang, L-L., Wu, C-Y., Lin, K-C., & Lur S-Y. (2012, Apr). Quantitative mechanical properties of the relaxed biceps and triceps brachii muscles in patients with subacute stroke: a reliability study of the Myoton-3 myometer. *Stroke Rehabilitation and Treatment* 2012, Article ID 617694, 1-7. doi: 10.1155/2012/617694. Epub 2012 Apr 30. [Index Medicus]
 14. Chuang, L-L.*, Wu, C-Y.*, & Lin, K-C. (2012, Mar). Reliability, validity, and responsiveness of myotonometric measurement of muscle tone, elasticity, and stiffness in patients with stroke. *Archives of Physical Medicine and Rehabilitation*, 93 (3):532-540. (Impact Factor: 3.077; *Rehabilitation*: 9/65) [SCI]

專書

1. **Chuang, L-L.**, Wu, C-Y., & Lin, K-C. Myotonometric measurement in stroke rehabilitation. In:

Rehabilitation Medicine (ISBN: 979- 953-307-517-3). Rijeka, Croatia: InTech. Jun, 2012. NSC 99-2314-B-182-014-MY3.

研討會論文

1. **Chuang, L-L.**, Lien, Y-S., Lin, Y-H., Tsai, C-Y., Hsu, A-L., Wong, A-M-K., Yu, M-H., & Lai, L-C. (2017, Jul). Effect of dual-task training on standing balance and cognitive performance in patients with stroke. The International Neurorehabilitation Symposium (INRS 2017) (one of the four conference at the third RehabWeek 2017), London, England. MOST 104-2314-B-182-035-MY3. 本人為第一作者.
2. **Chuang, L-L.**, Hsu, A-L., Yu, M-H., Wong, A-M-K., Chang, Y-J. & Lai, L-C. (2017, Jun). Psychometric properties of a brief pain inventory for assessing hemiplegic shoulder pain. 3rd Congress of the European Academy of Neurology, Amsterdam, Netherland. MOST 104-2314-B-182-035-MY3. 本人為第一作者.
3. **Chuang, L-L.**, Lin, Y-H., Lien, Y-D., Tsai, C-Y., Yu, M-H., Hsu, A-L., Wong, A-M-K., Chang, Y-J., & Lai, L.C. (2017, Jun). Comparative effectiveness research of dual-task and single-task balance training on gait speed and cognition in individuals with stroke. 3rd Congress of the European Academy of Neurology, Amsterdam, Netherland. MOST 104-2314-B-182-035-MY3. 本人為第一作者.
4. Lin, Y-H., Lien, Y-S., Tsai, C-Y., Hsu, A-L., Yu, M-H., & **Chuang, L-L.*** (2017, May). Effect of Dual-Task Training on Gait Speed in Individuals with Stroke- A Systematic Review and Meta Analysis. 26th European Stroke Conference, Berlin, German. MOST 104-2314-B-182-065-MY3. 本人為通訊作者.
5. Chang, Y-J., Lin, I-I., **Chuang, L-L.**, Huang, Y-Z., Wong, A-M-K. (2016, May). Test-retest reliability of single and dual-walking tests. 10th International Society of Physical & Rehabilitation Medicine (ISPRM) World Congress, Kuala Lumpur, Malaysia. MOST 104-2314-B-182-007-MY3.
6. Hsu, A-L., Chen, Y-L., Wong, A-M-K., Li, Y-C., Chang, Y-J., **Chuang, L-L.*** (2016, May). Comparative efficacy of electrical stimulation combined with bilateral arm training on hemiplegic shoulder pain and arm function in individuals with stroke. 10th World Congress of International Physical and Rehabilitation Medicine (ISPRM), Kuala Lumpur, Malaysia. MOST 104-2314-B-182-035-MY3. 本人為通訊作者.
7. Chen, Y-L., **Chuang, L-L.***, Hsu, A-L., Li, Y-C., & Wong, A.M.K. (2015, May). Test-retest reliability of a vertical numerical rating scale supplemented with a faces rating scale for assessing hemiplegic shoulder pain. World Confederation for Physical Therapy, Singapore. MOST 102-2314-B-182-003. 本人為通訊作者.
8. Wu, C-Y., **Chuang, L-L.**, Chen, M-D., Chen, Y-T., & Lin, K-C. (2012, May). Bilateral arm training mediated by therapist or robot improve functional outcome and quality of life after stroke . 9th Council of Occupational Therapy in the European Countries (COTEC) , Stockholm, Sweden.
9. Wu, C-Y., **Chuang, L-L.**, Chen, M-D., Chen, Y-T., & Lin, K-C. (2012, Mar). Therapist-based and

robot-assisted bilateral arm physical trainings have differential effects on motor control of upper limb and quality of life after chronic stroke. *Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism*, San Diego, CA, USA.

10. 仇韋達，張雅如，**莊麗玲**，陸清松，陳柔賢，張秀禎，林依依（2017年06月）。非動作症狀量表在臺灣地區早期帕金森患者之最小臨床重要差異值探討。2017 職能治療師全國聯合會學術研討會，台灣、桃園市長庚大學。
11. 劉俊賢，陳柔賢，**莊麗玲**，莊育芬，張雅如*（2017年03月）。台灣版帕金森氏病非運動症狀評估量表信度建立分析。社團法人台灣物理治療學會第七十三次學術論文研討會暨繼續教育研討會，台灣大學醫學院公衛大樓。
12. 連奕舒，**莊麗玲**，林昀萱，蔡俊逸，許安倫，游孟華，張雅如，黃美涓（2017年03月）。單一任務和雙重任務平衡訓練介入對於中風患者在站立平衡和認知之對比療效：前驅型研究。社團法人台灣物理治療學會第七十三次學術論文研討會暨繼續教育研討會，台灣大學醫學院公衛大樓。科技部：104-2314-B-182-035-MY3。本人為通訊作者。
13. 林琺弘，莊育芬，劉文瑜，張雅如，**莊麗玲**（2016年09月）。國際健康功能與身心障礙分類系統分析 Wii 對於唐氏症兒童及青少年的影響：系統性回顧。社團法人台灣物理治療學會第七十二次學術論文研討會暨繼續教育研討會，中山醫學大學。

研究計畫明細

近五年研究計畫

起訖	計畫名稱	狀態
2017/12/01-迄今	比較兩種不同的雙重任務平衡訓練對中風病患與老人在單一與雙重任務情境下平衡、步態、與認知表現 (CMRPD1G0621)	執行中
2015/08/01-迄今	雙重任務與單一任務的平衡訓練介入對於中風患者在認知動作干擾、平衡信心、跌倒預防、功能表現、及生活品質的比較效益研究(MOST-104-2314-B-182-035-MY3)	執行中
2015/08/01-2016/10/31	虛擬實境雙重任務檢測與訓練平台設計：應用於巴金森氏病病患之大腦可塑性研究--子計畫三:應用於巴金森氏病患者檢測訓練之虛擬實境腳踏車平台系統研發 (MOST-104-2221-E-182-017-)	已結案
2015/02/01~2016/07/31	中風後疼痛與疲勞之臨床評估與治療成效研究—延續性研究 (CMRPD3E0331)	已結案
2015/02/01~2016/01/31	一個新式心率變異度演算法開發，結合即時生理監測評估與 3D 虛擬實境系統之建置(CMRPD3E0321)	已結案
2013/08/01~2014/10/31	帕金森氏病患者抗疲勞訓練之虛擬實境互動平台設計、即時生理監控與指標建立及臨床成效評估--子計畫三:應用於帕金森氏病患者抗疲勞訓練之新式心率變異度演算法開發，結合即時生理監測評估與 3D 虛擬實境系統之建置 (MOST-102-2221-E-182-023-)	已結案

2013/08/01~2015/07/31	中風後疼痛與疲勞之臨床評估與治療成效研究 (MOST-102-2314-B-182 -003-)	已結案
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