



**Name** Yu-Jung Cheng, PT, PhD

**Current Positions** Associate Professor

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### Education

1999-2006 Ph.D in Institute of Basic Medical Science, National Cheng-Kung University, Tainan, Taiwan

1998-1999 MS in Department of Environmental & Occupational Health, National Cheng-Kung University, Tainan, Taiwan

1994-1998 Bachelors Degree in Physical Therapy , National Cheng-Kung University, Tainan, Taiwan

### Expertise

Stroke, Immunology, Cell biology, animal models of human diseases

### Research Interests

- Effects of exercise on stroke animal model
- Effects of low level LASER therapy on vascular diseases

### Selected Grants:

1. MOST 108-2410-H-039-009-MY2, Combined therapy of exercise and low level LASER on peripheral artery diseases, \$855000 , 2020.8.1 ~ 2021.7.31
2. College Student Research Scholarship, CMU108-SR-50, Effects of low level LASER on chronic kidney disease-induced muscle atrophy , \$35000 , 2019.8.1 ~ 2020.2.28
3. MOST 105 2314 B 039 009 The protective effects of low level LASER on high blood sugar induced endothelial dysfunction , , \$710000 2016.8.1 ~ 2017.7.31
4. College Student Research Scholarship CMU105 SR 102 China Medical University. Effect of cycling posture on exercise efficacy , , \$35000 2016.8.1 ~2017.2.28
5. College Student Research Scholarship CMU105 SR 35 China Medical University The effects of low level LASER on melanoma growth on mice \$35000 2016.8.1 ~ 2017.2.28
6. MOST, MOST 105 2314 B 039 009 The protective effects of low level LASER on high blood sugar induced endothelial dysfunction , , \$710000 2016.8.1 ~ 2017.7.31
7. College Student Research Scholarship MOST, 105 2815 C 039 103 H Effect of cycling posture on exercise efficacy , , \$48000 2016.7.1 ~ 201 7.2.28

8. College Student Research Scholarship MOST, 105 2815 C 039 036 B The effects of low level LASER on melanoma growth on mice , , \$48000 2016.7.1 ~ 2017.2.28
9. CMU104 S 14 04 China Medical University , Development of novel DAAO inhibitor for Alzheimer Diseases using 3xTg AD mice as model , , \$266000 2015.8.1 ~ 2016.7.31
10. College Student Research Scholarship CMU103 SR 62 China Medical University The effects of low level LASER on endothelium apoptosis in diabetic mice wound , , \$35000 2014.8.1 ~ 2015.2.28

### Selected Publications

1. **Cheng YJ**, Cheng SM, Teng YH, Shyu WC, Chen HL, Lee SD\*. 2014. Cordyceps sinensis prevents apoptosis in mouse liver with D-galactosamine/lipopolysaccharide-induced fulminant hepatic failure. *Am J Chin Med.* 42(2):427-441
2. **Cheng YJ**, Shyu WC, Teng YH, Lan YH, Lee SD\*. 2014. Antagonistic interaction between Cordyceps sinensis and exercise on protection in fulminant hepatic failure. *Am J Chin Med.* 42(5):1199-213.
3. Hsieh YL, **Cheng YJ**, Huang FC, Yang CC\*. 2014. The fluence effects of low-level laser therapy on inflammation, fibroblast-like synoviocytes, and synovial apoptosis in rats with adjuvant-induced arthritis. *Photomed Laser Surg.* 32(12):669-77
4. Chen SY, Lin JS, Lin HC, Shan YS, **Cheng YJ**, Yang BC\*. 2015. Dependence of fibroblast infiltration in tumor stroma on type IV collagen-initiated integrin signal through induction of platelet-derived growth factor. *Biochim Biophys Acta.* 1853(5):929-39.
5. **Cheng YJ**, Chang MY, Chang WW, Liu CF, Lin ST, Lee CH\*. 2015. Resveratrol enhances chemosensitivity in mouse melanomamodel through connexin 43 upregulation. *Environ Toxicol.* 30(8):877-886.
6. Lin YY, **Cheng YJ**, Hu J, Chu LX, Shyu WC, Kao CL, Lin TB, Kuo CH, Yang AL, Lee SD\*. 2016. The Coexistence of Hypertension and Ovariectomy Additively Increases Cardiac Apoptosis. *Int J Mol Sci.* 17(12):E2036
7. Lin YY, Hsieh PS, **Cheng YJ**, Cheng SM, Chen CJ, Huang CY, Kuo CH, Kao CL, Shyu WC, Lee S\*. 2017. Anti-apoptotic and Prosurvival Effects of Food Restriction on High-Fat Diet-Induced Obese Hearts. *Cardiovasc Toxicol.* 17(2):163-174
8. Chu YH, Chen SY, Hsieh YL, Teng YH, **Cheng YJ**\*. 2018. Low-level laser therapy prevents endothelial cells from TNF- $\alpha$ /cycloheximide-induced apoptosis. *Lasers Med Sci.* 33(2):279-286