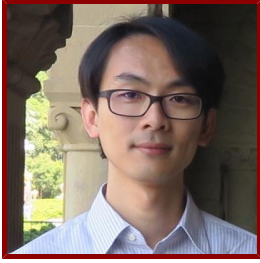


# Stanford

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## Ching Chieh Chou

Postdoctoral Scholar, Biology

### Bio

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#### HONORS AND AWARDS

- Alzheimer's Disease Research Program Postdoctoral Fellowship, BrightFocus Foundation (2022-2024)
- Travel Fellowship, Alzheimer's Association International Conference (2022)
- Life Sciences Research Foundation Postdoctoral Fellowship, Open Philanthropy Project/Life Sciences Research Foundation (2019-2022)
- Glenn Foundation for Medical Research Postdoctoral Fellowship in Aging Research, Glenn Foundation/American Federation for Aging Research (2018-2019)
- Finalist, HHMI International Student Research Fellowship, Howard Hughes Medical Institute (2014)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Emory University (2017)
- Master of Science, National Yang-Ming University (2009)
- Bachelor of Science, Chang Gung University (2007)

#### STANFORD ADVISORS

- Judith Frydman, Postdoctoral Faculty Sponsor

#### LINKS

- Google Scholar: [https://scholar.google.com/citations?hl=en&user=5SLI6sIAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=5SLI6sIAAAAJ&view_op=list_works&sortby=pubdate)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am interested in the cellular strategies to regulate protein folding, transport and aggregation, and the pathogenic pathways leading to proteome remodeling in age-related neurodegenerative diseases. I use molecular imaging, cell reprogramming and multi-omics technologies to address these questions with importance to the aging and neuroscience field.

### Publications

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#### PUBLICATIONS

- **Small molecule C381 targets the lysosome to reduce inflammation and ameliorate disease in models of neurodegeneration** *Proc Natl Acad Sci U S A* . Vest\*, R. T., Chou\*, C., Zhang, H., Haney, M. S., Li, L., Laqtom, N. N., Chang, B., Shuken, S., Nguyen, A., Yerra, L., Yang, A. C., Green, C., Tanga, et al 2022; 119 (11): e2121609119
- **TDP-43 Pathology Disrupts Nuclear Pore Complexes and Nucleocytoplasmic Transport in ALS/FTD** *NATURE NEUROSCIENCE*

Chou, C., Zhang, Y., Umoh, M. E., Vaughan, S. W., Lorenzini, I., Liu, F., Sayegh, M., Donlin-Asp, P. G., Chen, Y., Duong, D. M., Seyfried, N. T., Powers, M. A., Kukar, et al  
2018; 228–39

- **PABPN1 suppresses TDP-43 toxicity in ALS disease models** *HUMAN MOLECULAR GENETICS*  
Chou, C., Alexeeva, O. M., Yamada, S., Pribadi, A., Zhang, Y., Mo, B., Williams, K. R., Zarnescu, D. C., Rossoll, W.  
2015; 24 (18): 5154-5173
- **Increases of Quadriceps Inter-Muscular Cross-Correlation and Coherence during Exhausting Stepping Exercise** *SENSORS*  
Chang, Y., Chou, C., Chan, H., Hsu, M., Yeh, M., Fang, C., Chuang, Y., Wei, S., Lien, H.  
2012; 12 (12): 16353-16367
- **The Survival of Motor Neuron Protein Acts as a Molecular Chaperone for mRNP Assembly** *CELL REPORTS*  
Donlin-Asp, P. G., Fallini, C., Campos, J., Chou, C., Merritt, M. E., Phan, H. C., Bassell, G. J., Rossoll, W.  
2017; 18 (7): 1660-1673
- **Post-transcriptional Inhibition of Hsc70-4/HSPA8 Expression Leads to Synaptic Vesicle Cycling Defects in Multiple Models of ALS** *CELL REPORTS*  
Coyne, A. N., Lorenzini, I., Chou, C., Torvund, M., Rogers, R. S., Starr, A., Zaepfel, B. L., Levy, J., Johannesmeyer, J., Schwartz, J. C., Nishimune, H., Zinsmaier, K., Rossoll, et al  
2017; 21 (1): 110-125
- **Effects of Botulinum Toxin Landmark-Guided Intra-articular Injection in Subjects With Knee Osteoarthritis** *PM&R*  
Hsieh, L., Wu, C., Chou, C., Yang, S., Wu, S., Lin, Y., Hsu, W.  
2016; 8 (12): 1127-1135
- **Robot-Assisted Passive Exercise for Ankle Hypertonia in Individuals with Chronic Spinal Cord Injury** *JOURNAL OF MEDICAL AND BIOLOGICAL ENGINEERING*  
Fang, C., Hsu, M., Chen, C., Cheng, H. K., Chou, C., Chang, Y.  
2015; 35 (4): 464-472
- **Cycling Regimen Induces Spinal Circuitry Plasticity and Improves Leg Muscle Coordination in Individuals With Spinocerebellar Ataxia** *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*  
Chang, Y., Chou, C., Huang, W., Lu, C., Wong, A. M., Hsu, M.  
2015; 96 (6): 1006-1013
- **Anatomical and functional evidence for trace amines as unique modulators of locomotor function in the mammalian spinal cord** *FRONTIERS IN NEURAL CIRCUITS*  
Gozal, E. A., O'Neill, B. E., Sawchuk, M. A., Zhu, H., Halder, M., Chou, C., Hochman, S.  
2014; 8