

# Stanford

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## Wei Chen

Postdoctoral Research Fellow, Ophthalmology

### Bio

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#### BIO

My long-term goals involve the development of a full understanding of key molecular mechanisms and the identification of corresponding therapeutics for human diseases. My research training and academic experience have provided me with an excellent background necessary in multiple fields including molecular biology, cell biology, medicinal chemistry, and biochemical pharmacology. We first revealed a novel mechanism underscoring the regulation of metabolic profiles and mitochondrial function of epithelial cells by IL-22 during cell injury, which might provide useful insights from the bench to the clinic in treating and preventing more diseases, especially acute stroke/traumatic brain injuries. We subsequently demonstrated that autophagy was induced to play cytoprotective roles in numerous cells, which highlighted the potential therapeutic strategies for CNS neurodegeneration diseases or cancer by targeting autophagy. For my postdoctoral training, I continue to build on my previous researches in metabolic profiles and mitochondrial function regulations by concentrating on determining the role of mitochondrial thioredoxin metabolism in neuronal survival.

#### PROFESSIONAL EDUCATION

- Ph.D., Fudan University (2019)

#### STANFORD ADVISORS

- Yang Hu, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Gene therapy for neurodegenerative disorders: advances, insights and prospects** *ACTA PHARMACEUTICA SINICA B*  
Chen, W., Hu, Y., Ju, D.  
2020; 10 (8): 1347–59