

Department of Life Science

Study the pathomechanism and potential treatment for Alzheimer's disease

Our researches mainly focus on the elucidation of pathomechanism and development of therapeutic strategies for diseases, including Alzheimer's disease. Using disease models from cell lines, neuronal primary culture to mice, we have identified several potential treatments and the associate mechanisms of diseases.

Techniques used in study

Cell culture (including primary cell culture)
Mouse culture
Mouse behavioral analyses (including Morris Water maze)
Western blot analysis
Immunofluorescent staining
Compound administration in mice

Hsiu-Mei Hsieh, Professor

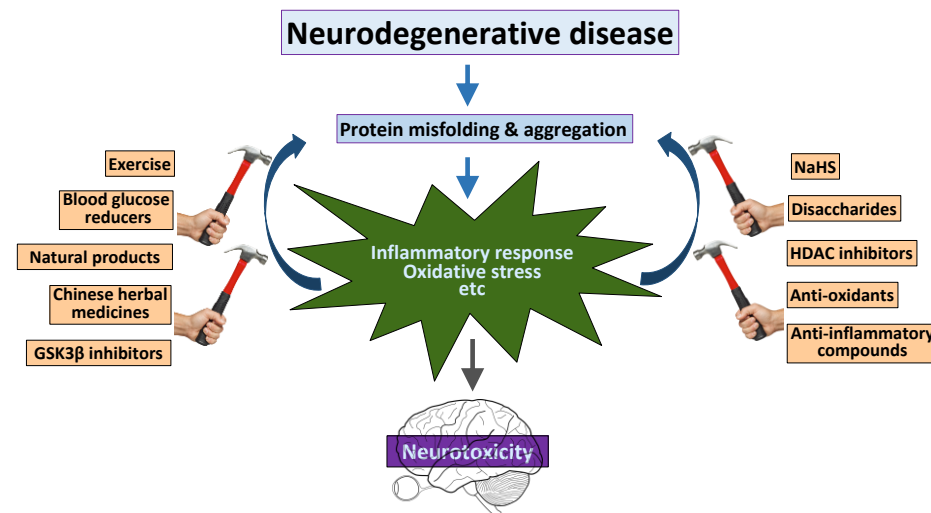
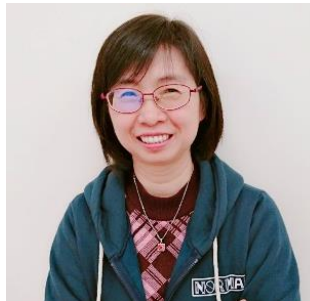
Department of Life Science
Lab of Molecular Medicine

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Background:

PhD in Developmental Biology Program
Children's Hospital, University of Cincinnati,
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Our research achievements in the aspects of mechanism and treatment of neurodegenerative disease

Publications (corresponding author)

- LMDS-1, a Potential TrkB Receptor Agonist Provides a Safe and Neurotrophic Effect for Early-Phase Alzheimer's disease. 2020; in press.
- Neuroimaging Spectrum at Pre-, Early, and Late Symptomatic Stages of SCA17 Mice. Cerebellum 2020; 19: 487-500.
- Targeting Inflammation, PHA-767491 Shows a Broad Spectrum in Protein Aggregation Diseases. J Mol Neurosci 2020; 70: 1140-1152.