

# Chunyu Wang

Professor, Biological Sciences at Rensselaer Polytechnic Institute

Troy, NY, US

Applying nuclear magnetic resonance (NMR) spectroscopy to study Alzheimer's and other diseases.

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## Biography

Chunyu Wang, professor of Biological Sciences, and Chemistry and Chemical Biology at Rensselaer, is an expert in nuclear magnetic resonance (NMR) structural biology and in structural mechanisms of Alzheimer's disease and cancer. In the field of Alzheimer's research, his lab is studying the structural mechanisms of the generation of amyloid- $\beta$  peptide (A $\beta$ ), as well as the interaction between glycan and tau, which facilitates the spread of tau pathology, neurofibrillary tangle (NFT, the other pathological hallmark of AD). In cancer, his lab is studying the structural mechanism of Hedgehog signaling and p53 interactions. After establishing his own research group at Rensselaer in 2005, he developed a strong research program in structural mechanisms in protein autoprocessing and Alzheimer's disease. Recently, his group is venturing into new and exciting areas such as drug discovery and biological sulfation. He has been awarded multiple grants from NIH and several grants for Alzheimer's research, from Alzheimer's Association, Warren Alpert Foundation, New York State and American Health Assistance Foundation (Now BrightFocus foundation).

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## Areas of Expertise

Oncology, Biochemistry, Nuclear Magnetic Resonance Spectroscopy, Biomedical imaging, Alzheimer's Disease, Molecular Genetics, Signaling Pathways

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## Education

**Peking Union Medical College**

Doctor of Medicine

**Cornell University**

Doctorate Biochemistry and Molecular Genetics

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