



朱智璋 教授

生物資訊及系統生物研究所教授兼所長

分子醫學與生物工程所

生物科技學系

電話：03-5712121 轉 56996

E-mail：jwchu@nctu.edu.tw

實驗室：生物系統模擬研究室

實驗室網頁：<http://life.nctu.edu.tw/~jwchu/>



研究興趣

朱智璋教授著重在計算生物及複雜系統模擬等學術領域中，他的研究團隊發展以統計力學、量子力學、及分子力學為依歸的理論並結合電腦模擬、機器學習和大數據分析的計算方法，在解密生物現象中的物理原理方面已取得國際領先成果，2018年以“Compound Molecular Logic in Accessing the Active Site of Mycobacterium

tuberculosis Protein Tyrosine Phosphatase”為題在頂級化學領域期刊 Journal of the American Chemical Society 發表論文並擔任通訊作者。朱教授的研究可助於了解遺傳信息如何調整基因之分子結構與動力學以達到所需功能並以其推展疾病探源與新藥開發等研究領域。



Director & Professor, Institute of Bioinformatics and Systems Biology,
Institute of Molecular Medicine and Bioengineering,
Department of Biological Science and Technology
TEL: 886-3-5712121 ext. 56996
E-mail: jwchu@nctu.edu.tw
Lab: Biological Systems Simulation Lab
Lab homepage: <http://life.nctu.edu.tw/~jwchu/>

Jhih-Wei Chu, Ph.D.

Research Interests

Professor Jhih-Wei Chu's research focuses on computational biology and computer simulation of complex systems. To decipher how biological fitness manifest at the molecular scale, his group develops and applies computational theories based on statistical mechanics, quantum mechanics, and molecular mechanics, and combines algorithms in simulation, machine learning, and big data analysis. In 2018, his group published a paper titled "Compound Molecular Logic in Accessing the Active Site of Mycobacterium tuberculosis Protein Tyrosine Phosphatase" in the top chemistry journal, *Journal of the American Chemical Society*.