

教師簡介資料



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研究興趣與成果(中/英文)			
<p>研究興趣：</p> <ol style="list-style-type: none"> 1. 生物膜結構 2. 蛋白質－生物膜交互作用 3. 膜蛋白結構 4. 生物材料 <p>實驗技術：</p> <ol style="list-style-type: none"> 1. 多片層X光繞射 2. 小角度X光散射 3. 螢光顯微鏡技術 4. 圓極化雙光譜技術 5. 等溫滴定測焓儀 6. 微差掃描熱卡計 7. 動態光散射技術 			
<p>Research interests：</p> <ol style="list-style-type: none"> 1. Bio-membrane structure 2. Protein-membrane interaction 3. Membrane-protein structure 4. Bio-material <p>Techniques：</p> <ol style="list-style-type: none"> 1. Lamellar X-ray Diffraction (LXD) 2. Small Angle X-ray Scattering (SAXS) 3. Fluorescence Microscopy 4. Circular Dichroism (CD) 5. Isothermal Titration Calorimetry (ITC) 6. Differential Scanning Calorimetry (DSC) 7. Dynamics Light Scattering (DLS) 			

Selected Publications

1. Fang-Yu Chen, **Ming-Tao Lee** and Huey W. Huang, *Sigmoidal concentration dependence of antimicrobial peptide activities: a case study on alamethicin*, **Biophys. J.** 82, 908 (2002).
2. Fang-Yu Chen, **Ming-Tao Lee** and Huey W. Huang, *Evidence for membrane thinning effect as the mechanism for peptide-induced pore formation*, **Biophys. J.** 84, 3751 (2003).
3. **Ming-Tao Lee**, Fang-Yu Chen and Huey W. Huang, *Energetics of pore formation induced by membrane active peptides*, **Biochemistry** 43, 3590 (2004).
4. Huey W. Huang, Fang-Yu Chen and **Ming-Tao Lee**, *Molecular mechanism of peptide-induced pores in membranes*, **Phys. Rev. Lett.** 92, 198304 (2004).
5. **Ming-Tao Lee**, Wei-Chin Hung, Fang-Yu Chen and Huey W. Huang, *Many-body effect of Antimicrobial peptides: on the correlation between lipid's spontaneous curvature and pore formation*, **Biophys. J.** 89, 4006 (2005).
6. Wei-Chin Hung and **Ming-Tao Lee** *The Interaction of Melittin with E. Coli Membrane: the Role of Cardiolipin*, **Chinese J. Phys.** 44, 137 (2006).
7. Ying-Huang Lai, Ya-Sen Sun, U-Ser Jeng, Jih-Min Lin, Tsang-Lang Lin, Hwo-Sheunn Sheu, Wei-Tsung Chuang, Yu-Shan Huang, Chia-Hung Hsu, **Ming-Tao Lee**, Hsin-Yi Lee, Keng S. Liang, Andre Gabriel and Michel H.J. Koch, *An instrument for time resolved and anomalous simultaneous small and wide angle X-ray scattering (SWAXS) at the NSRRC*, **Journal of Applied Crystallography** 39, 871 (2006).
8. Wei-Chin Hung, **Ming-Tao Lee**, Fang-Yu Chen and Huey W. Huang, *The Condensing Effect of Cholesterol in Lipid Bilayers*, **Biophys. J.** (2007) (Accepted).