

New Methods for Coarse-grained Normal Mode Analysis and Their Applications in Structural Refinement

Jianpeng Ma, *Department of Biochemistry and Molecular Biology, Baylor College of Medicine, Houston, TX77030*

We will report our latest results in the development of coarse-grained normal mode analysis and their applications in structural refinement. In particular, we will report a novel elastic normal mode analysis method without the “tip effect”. Such a method has significantly enabled better refinement accuracy, especially in x-ray crystallographic refinement of supramolecular complexes.