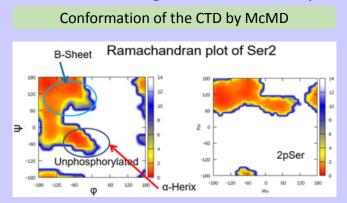
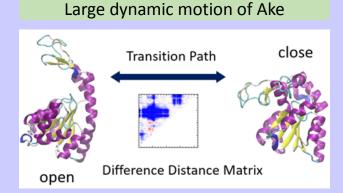
Simulation Study on Bio-molecular Function and mechanism

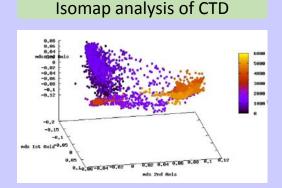
(Prof. Yasushige YONEZAWA, yonezawa-wk@waka.kindai.ac.jp)

Research Area

- 1. Study on the function and mechanism of bio-molecules by Molecular dynamics Simulations
- 2. Development of novel algorithms for investigation of the free energy of Bio-molecules
- 3. Making use of the deep learning method for the analysis the MD simulation big data.







Recent Activities

- Free Energy Reconstruction from Logarithmic Mean-Force Dynamics Using Multiple Nonequilibrium Trajectories, T. Morishita, Y. Yonezawa, and A. M. Ito, J. Chem. Theory Comput., June 12, 2017
- A Method for Predicting Protein Conformational Pathways by Using Molecular Dynamics Simulations Guided by Difference Distance Matrices, Y. Yonezawa, Journal of Computational Chemistry, Vol. 37, Issue 13, p1139-1146, 2016
- Molecular Dynamics Study of the Phosphorylation Effect on the Conformational States of the C-terminal Domain of RNA Polymerase II, Yonezawa Y., J. Phys. Chem., B118, 4471-4478, 2014