

Tanchanok Wisitponchai

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M.Eng., Biomedical Engineering, Chiang Mai University (2013)

**Research interest:** molecular modeling, protein structure, bioinformatics

**Education**

M.Eng., Biomedical Engineering, Chiang Mai University (2013)

B.Sc., Medical Technology, Chiang Mai University (2009)

**Research Experiences**

- Molecular modeling of HIV protein and AnkGAG1D4 protein

- Algorithm development for predicting the ankyrin-protein docking

- Protein expression and detection

**Selected publications**

Praditwongwan, W., Chuankhayan, P.,Saoin, S.,Wisitponchai, T., Lee, V.S., Nangola, S., Hong, S.S., Minard, P., Boulanger, P., Chen, C.J., Tayapiwatana, C., **Crystal structure of an antiviral ankyrin targeting the HIV-1 capsid and molecular modeling of the ankyrin-capsid complex**. J COMPUT AID MOL DES, 2014; 28(8): 869-884.

Wisitponchai, T., Shoombuatong, W., Lee, SV., Kitidee, K., Tayapiwatana, C., **AnkPlex: algorithmic structure for refinement of near-native ankyrin-protein docking.** BMC Bioinformatics. 2017; 18:220.

Saoin, S., Wisitponchai, T., Intachai, K., Chupradit, K., Moonmuang, S., Nangola, S., Kitidee, K., Fanhchaksai, K., Lee, S.V., Hong, S.S., Boulanger, P., Chuankhayan, P., Chen, C.J., Tayapiwatana, C., **Deciphering critical amino acid residues to modify and enhance the binding affinity of ankyrin scaffold specific to capsid protein of human immunodeficiency virus type 1.** Asian Pac J Allergy Immunol. 2017