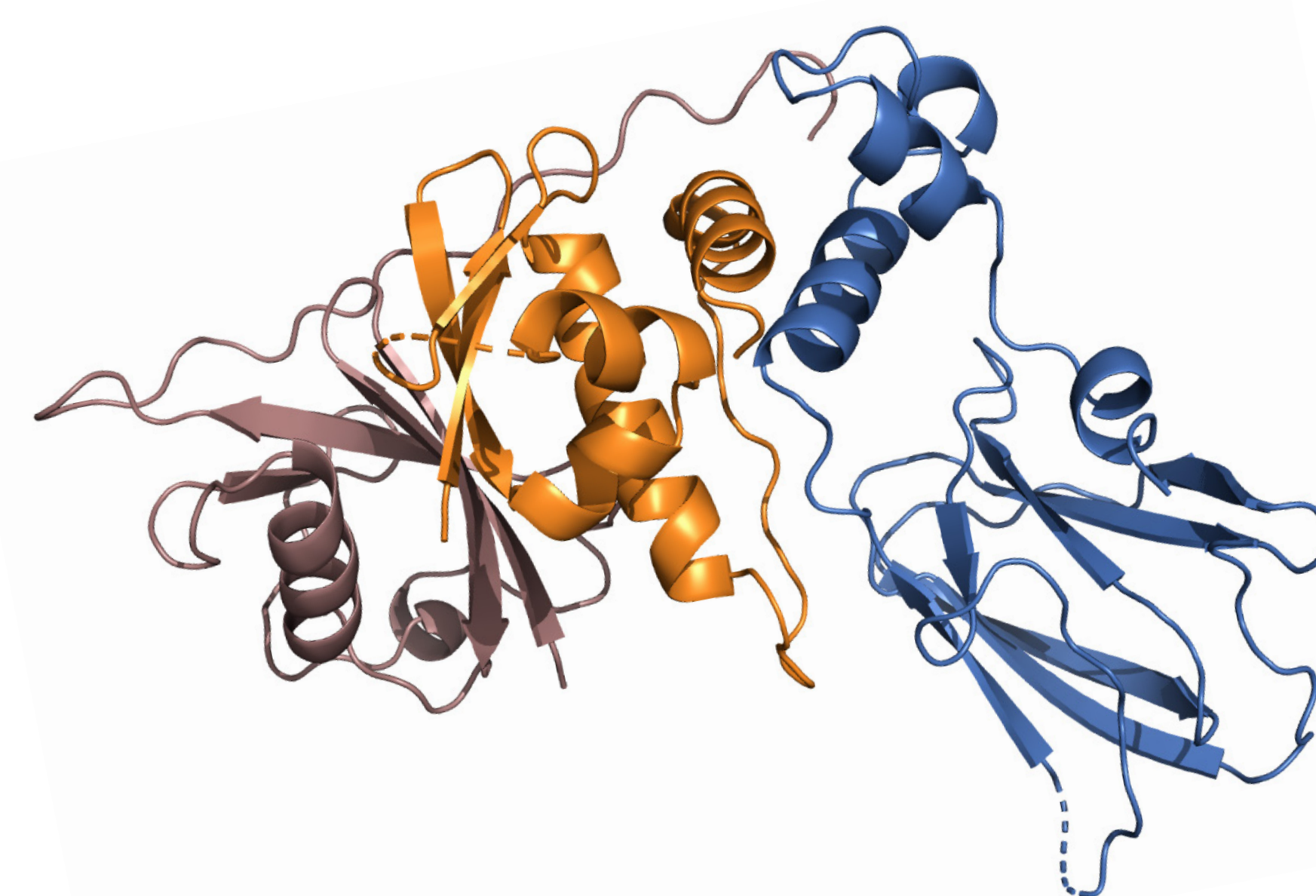


Biophysical & Functional Characterization of Bifunctional Small Molecules enables TPD Drug Discovery

Moran Jerabek-Willemsen, Lingbing Sun

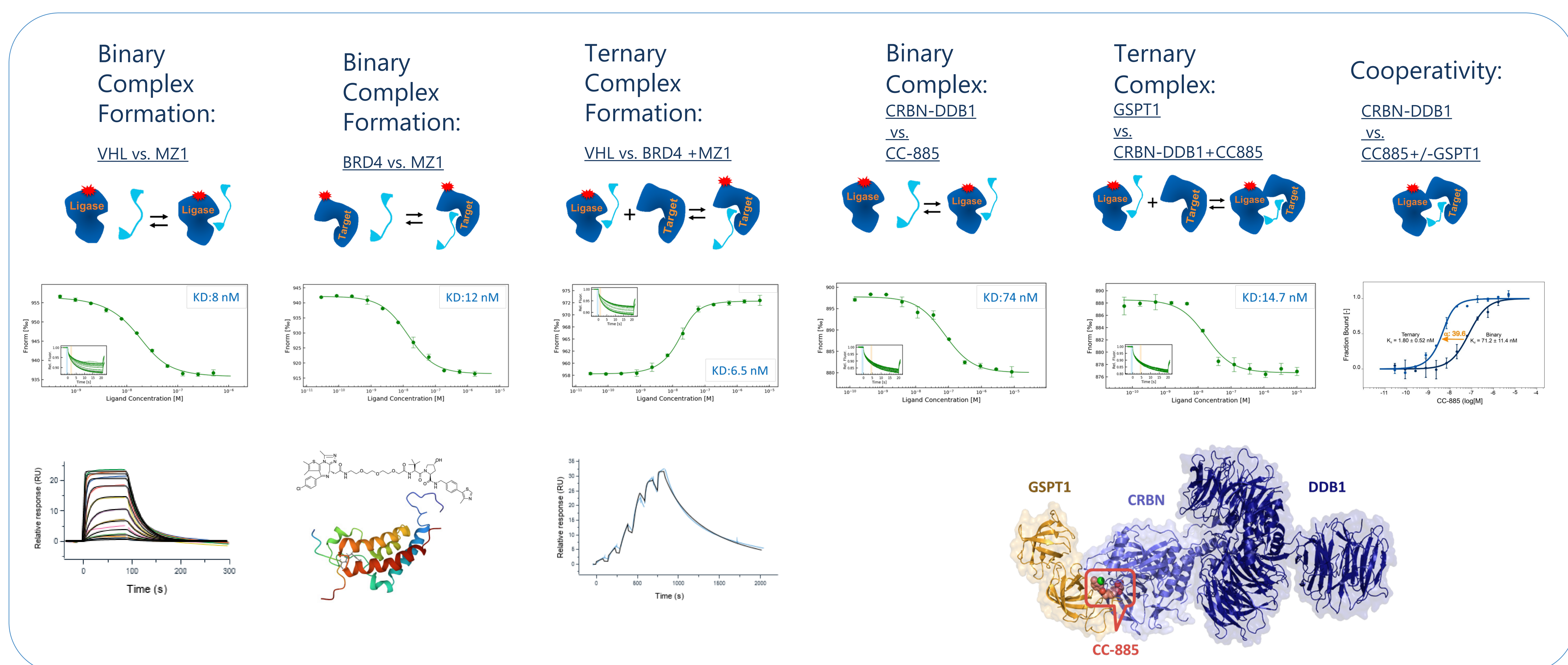
Abstract

Traditional small molecule therapeutic mechanisms have recently been augmented by new strategies to specifically manipulate the levels of disease-related proteins. By employing bifunctional molecules, we can hijack endogenous cellular degradation pathways to bring about the targeted degradation of disease-related proteins. Bifunctional molecules consisting of a ligand that binds to an E3 ligase, connected by a linker to another ligand that binds to the disease-related protein, are often referred to as degraders. Robust and reliable biophysical and biochemical methods play an important role in the discovery of new protein degraders. In this work we introduce the WuXi AppTec Discovery Platform, which allows an in-depth biophysical and biochemical characterization of bifunctional small molecules.



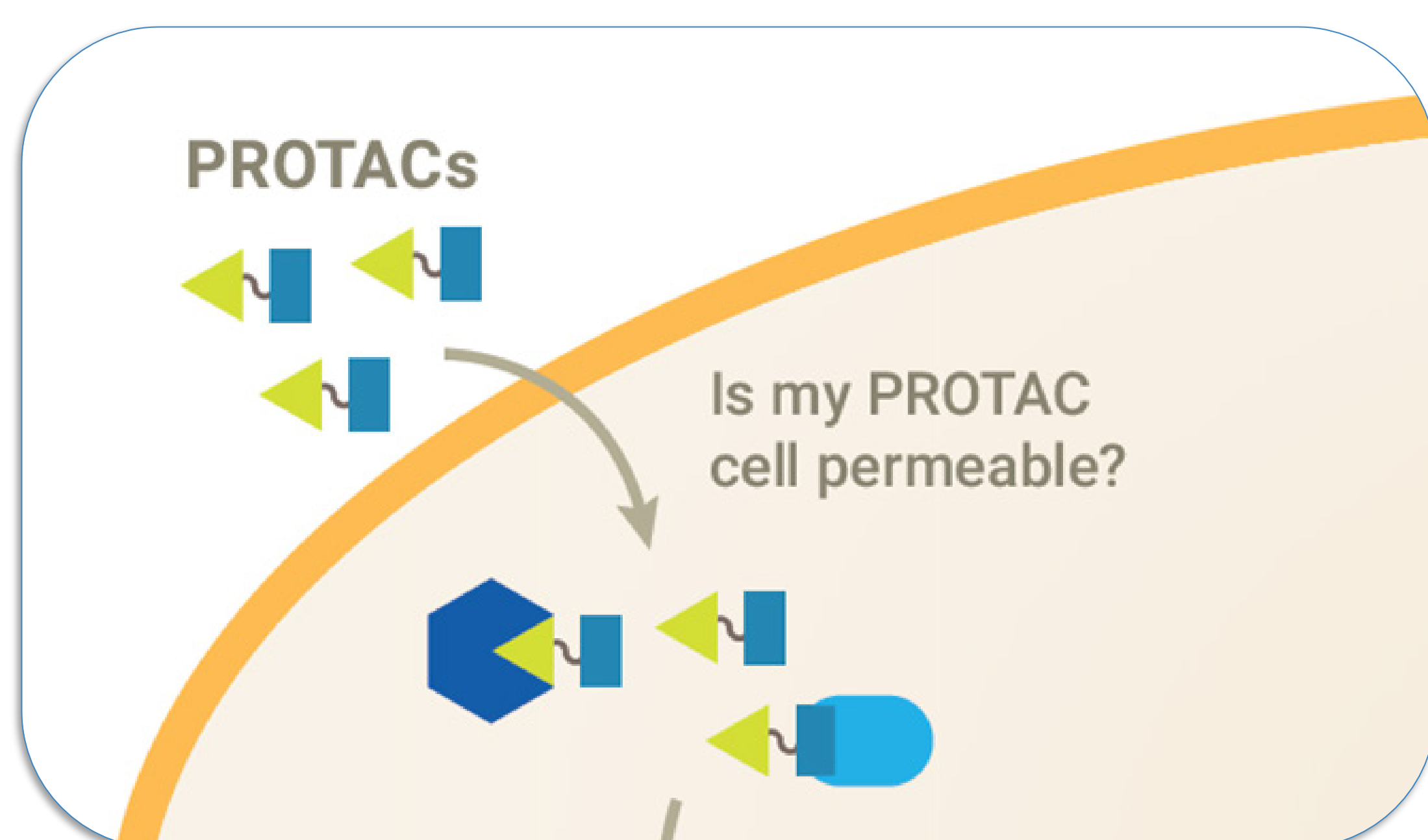
X-Ray Structure of VHL Complex generated in WuXi Biology

Biophysical Characterization

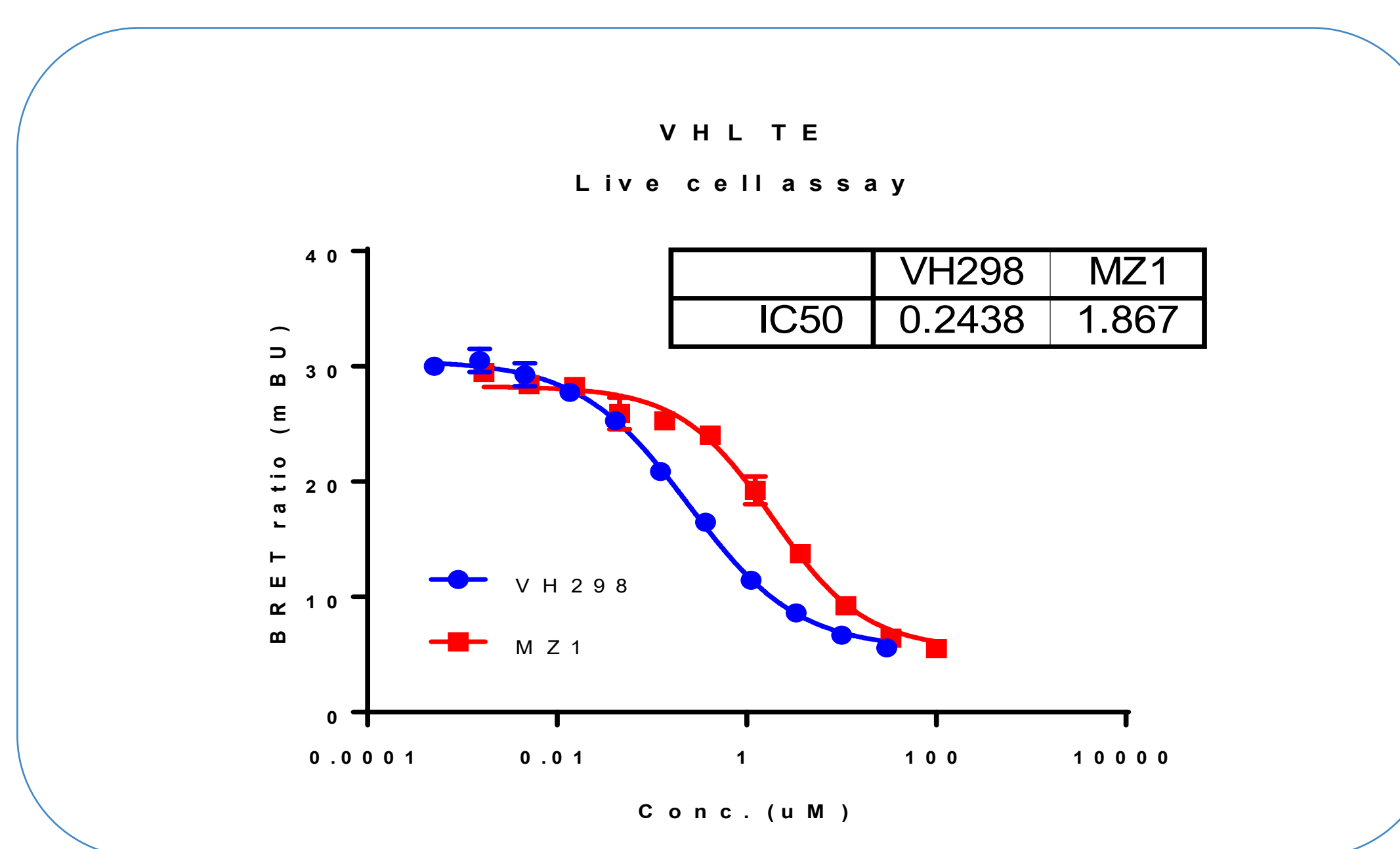


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