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Title: Membrane protein purification and application in drug discovery

Abstract

In the presentation I will discuss our capabilities, processes and methods for membrane protein expression and purification, including our recently developed teabag purification method. The teabag method allows rapid purification of membrane proteins with reduced hands-on and processing time. Application of membrane proteins in drug discovery will be illustrated by our work on the protease-activated receptor 2, where extensive protein engineering allowed DNA-encoded library screening on purified receptor, establishment of biophysical assays, and structure assisted drug design.