

Oral presentation for Liton Roy for the SRC at UVM 2011

Title: Isolation of most stable protein from self-selecting secondary structure elements

We describe a dynamic combinatorial library approach where library members undergo self selection in order to form the most stable hydrophobic core. This is the most powerful technique till date following which over 64K dynamic combinatorial library members could be screened for optimal stability by virtue of one experiment. This approach has the potential application in modern day protein design, drug discovery and biosensors.