completely included in the dimerization surface. Furthermore, we carried out a variety of physicochemical measurements (ITC, DLS and the analytical ultracentrifugation) to elucidate the functional aspects of the multimerization property of Rch1. As a result, we found out a valid correlation between the multimerization state of Rch1 and its NLS recognition property, where the IBB domain of Rch1 plays a role to control the multimerization. More detailed scenario about the NLS recognition mechanism of the Rch1 will be presented in the poster session.


Keywords: importin-α

**MS23.P02**  

Multivariate methods for density modification of SAD phased maps  
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Recently, we have derived and implemented a multivariate likelihood distribution for phase combination of density modified phases with initial SAD experimental phases [1] and a technique to reduce bias in the phase combination process [2].

Preliminary results suggest that the power of these methods can be further improved by incorporation of structure factors from a partially built model into the SAD multivariate function. The new function is used for simultaneous refinement and density modification which is iterated with automated model building.


Keywords: sulfur, SAD, phasing

**MS23.P04**  

Structural studies of serine acetyltransferase 1 from Entamoeba histolytica

Many structures can be built automatically by the Crank software suite [3] that previously failed thanks to the combination of these new methods.