

“Designed Cyclic β -Sheet Mimics” Russu, W. A.; Nowick, J. S. Presented at the 228th National Meeting of the American Chemical Society, Philadelphia, PA, August 2004; paper ORG 450.

Abstract: To address the challenge of designing molecules that mimic the folding and interactions of protein β -sheets, we have developed cyclic β -sheet mimics containing the unnatural amino acid β -sheet template *Hao* [*JACS* **2000**, *122*, 7654] and two δ -ornithine turn units [*JACS* **2003**, *125*, 876]. This poster will describe ongoing synthetic and structural studies of these 42-membered ring macrocycles and will discuss our burgeoning efforts to develop β -sheet mimics that bind exposed β -sheet edges of proteins and control protein interaction.