

"Cyclic Modular β -Sheets" Woods, R. J.; Brower, J. O.; Gothard, C. M.; Hashemzadeh, M.; Khakshoor, O.; Russu, W. A.; Nowick, J. S. Presented at the 227th National Meeting of the American Chemical Society, Anaheim, CA, March 2004; paper ORG 275.

In spite of recent advances, the creation of small β -sheet peptides that fold into well-defined structures in aqueous solution remains challenging. This paper presents a unique class of peptides that adopt robust, well-defined β -sheet structures in aqueous solution. The peptides are 42-membered ring cyclic decamers containing the unnatural amino acid β -sheet template *Hao* [*JACS* **2000**, *122*, 7654] and two δ -ornithine turn units [*JACS* **2003**, *125*, 876]. These macrocyclic β -sheets are readily linked to form multivalent structures and can be viewed as modules for the design of macromolecular and supramolecular structures.

