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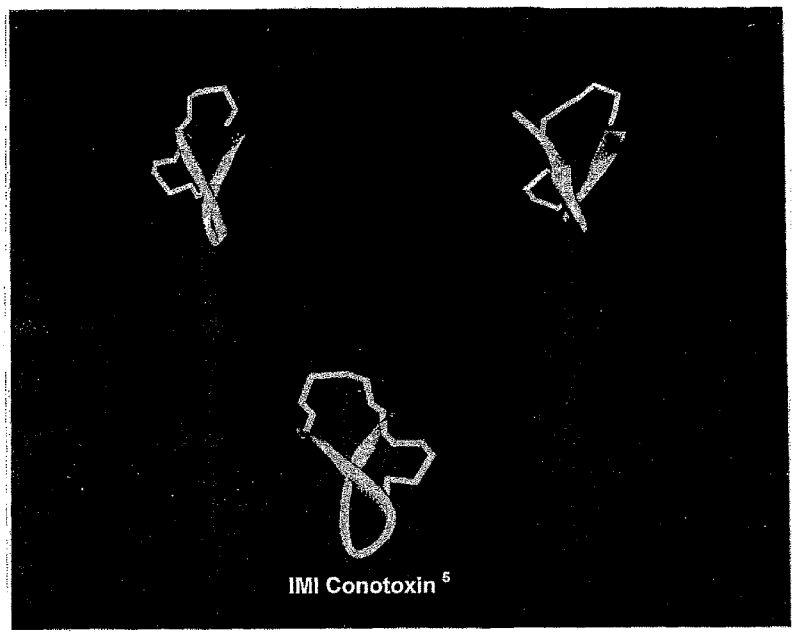
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(54) Title: CONFORMATIONAL SWITCHES IN TOXIN FOLDING AND USES THEREOF



Ramachandran Plot Region		
	ImI Acid Peak 1	P6K Acid Peak 2
% in favored	83.3	50
% in additionally allowed region	16.7	50

(57) Abstract: There is provided a method of altering the conformation of a peptide from a globular conformation to a ribbon conformation or vice versa comprising removing or introducing a conformation-inducing residue into the peptide. In particular, there is provided a method of altering the conformation of a peptide, the method comprising modifying a peptide comprising the sequence of Formula (I) to introduce a proline residue two positions N-terminal to Cys3 or to remove a proline residue that is two positions N- terminal to Cys3, wherein: Formula (I) is -Cys1 -Cys2-X_m-Cys3-X_n-Cys4 - ; Cys1 , Cys2, Cys3 and Cys4 are cysteine residues that together form two disulfide bonds, between Cys1 and Cys3 and between Cys2 and Cys4, between Cys1 and Cys2 and between Cys3 and Cys4, or between Cys1 and Cys4 and between Cys2 and Cys3; X is any amino acid; and m and n are the same or different and each is equal to or greater than 1.

WO 2006/028420 A1

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