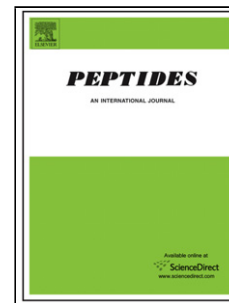


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# Definition of the R-Superfamily of Conotoxins: Structural Convergence of Helix-Loop-Helix Peptidic Scaffolds

## Running Title

Definition of the R-superfamily of Conotoxins

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## Abbreviations

The abbreviations used are: TFA, trifluoroacetic acid; SE, size exclusion; RP, reversed phase; DTT, dithiothreitol; IAM, iodoacetamide; PFG, pulse field gradient; RF, radio frequency; TSP, 3-(Trimethylsilyl)- Propionic acid-D4, sodium salt; WET, water suppression enhanced through T1 effects; NOE, nuclear Overhauser effect; NOESY, NOE spectroscopy; TOCSY, total correlation spectroscopy; BLAST, basic local alignment search tool; RMSD, root-mean-square deviation; CSI, chemical shift index. RACE, rapid amplification of cDNA ends.

**Databases** Sequences are available in GenBank under accession numbers: (to be deposited)

**Keywords** Cone snails, F14 conotoxins, R-superfamily, C<sub>s</sub>  $\alpha/\alpha$  toxins, nanoNMR, structural convergence.

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