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Recent Trends in Cyclic Peptides as Therapeutic Agents

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Message from the Guest Editors

For decades, peptides have been utilized as therapeutic agents. There are currently approximately 80 peptide-based drugs on the global market with over 150 peptides in clinical development. Peptides as therapeutics offer several benefits over traditional small molecules, including high specificity, good efficacy, and good safety profiles. These features are tempered by generally lower membrane permeability, shorter half-life, and lower metabolic stability compared to small molecules. However, the use of a cyclic peptide scaffold provides a proven pathway for overcoming these limitations. In recent years, the application of cyclic peptides as therapeutics and novel probes has continued to advance. For example, the development of combinatorial synthesis techniques as well as display (e.g., phage, DNA, mRNA) libraries has exponentially increased the number and breadth of cyclic peptides available to screen in early drug discovery campaigns.

In this Special Issue, authors are invited to submit original research and review articles highlighting recent trends in cyclic peptides as novel tools and potential therapeutic agents.



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Special Issue



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