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Peptidomimetic Inhibitors of Cyclin A and PCNA: Discovery and Design

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SUMMARY

Structure based design is one of the most common used approaches for discovery and development for new drugs. Applications of those methods have been used in the discovery of peptide inhibitors of Cyclin A and PCNA. Additional a new computational method allowing non-peptide fragments to be identified have been employed successfully in the discovery of Cyclin A inhibitors. The latest approach should be generally applicable in replacing amino acids as individual residues or groups in peptide inhibitors to generate pharmaceutically acceptable lead molecules.