Protein Surface Recognition: Approaches for Drug Discovery

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A new perspective on the design of molecular therapeutics is emerging. This new strategy emphasizes the rational complementation of functionality along extended patches of a protein surface with the aim of inhibiting protein/protein interactions. The successful development of compounds able to inhibit these interactions offers a unique chance to selectively intervene in a large number of key cellular processes related to human disease.

Protein Surface Recognition presents a detailed treatment of this strategy, with topics including:

- an extended survey of protein-protein interactions that are key players in human disease and biology and the potential for therapeutics derived from this new perspective
- the fundamental physical issues that surround protein-protein interactions that must be considered when designing ligands for protein surfaces
- examples of protein surface-small molecule interactions, including treatments of protein-natural product interactions, protein-interface peptides, and rational approaches to protein surface recognition from model to biological systems
- a survey of techniques that will be integral to the discovery of new small molecule protein surface binders, from high throughput synthesis and screening techniques to *in silico* and *in vitro* methods for the discovery of novel protein ligands.

Protein Surface Recognition provides an intellectual “tool-kit” for investigators in medicinal and bioorganic chemistry looking to exploit this emerging paradigm in drug discovery.

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