

1. Record Nr.	UNINA9910300440003321
Autore	Tamamura Hirokazu
Titolo	Mid-size Drugs Based on Peptides and Peptidomimetics : A New Drug Category // by Hirokazu Tamamura, Takuya Kobayakawa, Nami Ohashi
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2018
ISBN	981-10-7691-X
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XVII, 100 p. 40 illus., 32 illus. in color.)
Collana	SpringerBriefs in Pharmaceutical Science & Drug Development, , 1864-8118
Disciplina	540
Soggetti	Medicinal chemistry Pharmaceutical technology Organic chemistry Medicinal Chemistry Pharmaceutical Sciences/Technology Organic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	1. Introduction of Mid-Size Drugs and Peptidomimetics -- 2. Chloroalkene Dipeptide Isosteres as Peptidomimetics -- 3. Conformational-restricted Cyclic Peptides -- 4. Peptidomimetics that Mimic Secondary Structures of Peptides -- 5. Peptidomimetics that Mimic Tertiary Structures of Peptides -- 6. Conjugated Compounds Involving Peptides -- 7. Summary and Future Perspectives of Researches on Mid-Size Drugs.
Sommario/riassunto	This brief describes studies conducted by the authors on mid-size drugs utilizing peptides and peptidomimetics, and on the development of anti-HIV agents. Peptides are important biological molecules and have various physiological actions. Peptide-based drug discovery may help bring about the development of useful medicines that are highly safe and show potent pharmacological effects in small doses. Recently, it has been shown that there is an important drug-like space in the mid-sized region between low- and high-molecular-weight compounds. Thus, mid-size drugs such as peptide compounds are being focused on. To date, several peptidomimetics that mimic

primary, secondary, and tertiary structures of peptides have been developed to maintain and improve biological activities and actions of peptides. In this book, the features and advantages of mid-size drugs are described in detail. In addition, the merits of utilizing peptidomimetics in the development of mid-size drugs are referred to. Understanding such peptide-derived mid-size drugs will lead to a comprehensive expansion of medicinal chemistry.
