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Soggetti	Proteins Pharmaceutical chemistry Biochemistry Protein Structure Medicinal Chemistry Biochemistry, general
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introducing the phenomenon of protein intrinsic disorder -- Peculiar amino acid sequences of soluble IDPs -- Natural abundance of IDPs/IDPRs -- Wavy evolution of intrinsic disorder: Reinventing the wheel -- Structural heterogeneity of IDPs: When almost everything is possible -- Typical functions of IDPs and IDPRs -- Binding promiscuity and multitude of the disorder-based binding modes -- IDPs/IDPRs in human diseases -- IDPs as potential drug targets -- Concluding remarks: Intrinsic disorder as a universal tool for solving protein mysteries and riddles.
Sommario/riassunto	In this brief, Vladimir Uversky discusses the paradigm-shifting phenomenon of intrinsically disordered proteins (IDPs) and hybrid proteins containing ordered domains and functional IDP regions (IDPRs). Beginning with an introduction to the concept of protein intrinsic disorder, Uversky then goes on to describe the peculiar amino acid sequences of IDPs, their structural heterogeneity, typical functions and disorder-based binding modes. In the final sections, Uversky discusses IDPs in human diseases and as potential drug targets. This volume provides a snapshot to researchers entering the field as well as

providing a current overview for more experienced scientists in related areas.

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