	UNINA9910298442803321
Titolo	Antibacterial Surfaces / / edited by Elena Ivanova, Russell Crawford
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-18594-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (175 p.)
Disciplina	610
Soggetti	Medicine
	Cell biology
	Proteins
	Biophysics Biological physics
	Biological physics Biomedicine, general
	Cell Biology
	Protein Science
	Biological and Medical Physics, Biophysics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.

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## Sommario/riassunto

'Antibacterial Surfaces' covers the advances being made in the design of antibacterial surfaces, which have the ability to either prevent the initial attachment of bacterial cells, or kill any cells that come into contact with these surfaces. This book discusses the mechanisms associated with the attachment of bacteria to surfaces and the main strategies currently being employed to control the initial attachment processes. These strategies are expanded upon in the subsequent chapters, where the definition and description of antibacterial surfaces are clarified, as are the mechanisms that come into play when determining the effectiveness of an antibacterial surface. Subsequent chapters discuss a number of naturally occurring antibacterial surfaces, the methods currently being used for producing synthetic antibacterial surfaces, and the current and potential applications of such materials. This book will be of great interest to people who work with materials that need to remain free of bacterial films, from designing safer biomedical implants to the production of self-cleaning materials where the prevention of biofilm formation has significant economic advantages.