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Titolo	DNA deamination and the immune system [[electronic resource]] : AID in health and disease / / editors, Sebastian Fugmann, Marilyn Diaz, Nina Papavasiliou
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Descrizione fisica	1 online resource (232 p.)
Collana	Molecular medicine and medicinal chemistry ; ; v. 3
Altri autori (Persone)	FugmannSebastian DiazMarilyn PapavasiliouNina
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; Contents; List of Tables; List of Figures; Chapter 1 Introduction; Chapter 2 Switch Regions, ChromatinAccessibility and AID Targeting; Chapter 3 Cis-Regulatory Elements that Target AID to Immunoglobulin Loci; Chapter 4 Partners in Diversity: The Search for AID Co-Factors; Chapter 5 Resolution of AID Lesions in Class Switch Recombination; Chapter 6 Error-Prone and Error-Free Resolution of AID Lesions in SHM; Chapter 7 Regulatory Mechanisms of AID Function; Chapter 8 AID in Immunodeficiency and Cancer; Chapter 9 AID in Aging and in Autoimmune Disease; Index
Sommario/riassunto	This book covers the current understanding of the role of activation-induced cytidine deaminase (AID) in the generation of antibody response to antigenic challenge. Since the discovery of AID, and the genetic demonstration of its role in somatic hypermutation and class-switch recombination of antibody genes, much has been learned about the biochemistry of this enzyme. However, some key questions remain hotly contested, such as: how does this enzyme get to the antibody locus leaving the rest of the genome intact, and why are DNA repair

pathways which normally repair deamination events co-opted