

1. Record Nr.	UNINA9910461619003321
Titolo	DNA deamination and the immune system [[electronic resource] ] : AID in health and disease // editors, Sebastian Fugmann, Marilyn Diaz, Nina Papavasiliou
Pubbl/distr/stampa	London, : Imperial College Press, 2011
ISBN	1-283-14344-5 9786613143440 1-84816-593-5
Descrizione fisica	1 online resource (232 p.)
Collana	Molecular medicine and medicinal chemistry ; ; v. 3
Altri autori (Persone)	FugmannSebastian DiazMarilyn PapavasiliouNina
Disciplina	571.967
Soggetti	DNA Immune system Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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

---