

1. Record Nr.	UNINA9910437613903321
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Titolo	MHC class I antigens in malignant cells : immune escape and response to immunotherapy / / Natalia Aptsiauri, Angel Miguel Garcia-Lora, Teresa Cabrera
Pubbl/distr/stampa	New York, : Springer, c2013
ISBN	1-4614-6543-5
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (51 p.)
Collana	SpringerBriefs in cancer research ; ; 6
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Disciplina	616.99/4079
Soggetti	Oncology Immunology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Overview of MHC Class I Antigens -- HLA Class I Expression In Human Cancer -- MHC Class I Expression In Experimental Mouse Models Of Cancer: Immunotherapy Of Tumors With Different MHC-I Expression Patterns -- Potential Therapeutic Approaches For Increasing Tumor Immunogenicity By Upregulation Of Tumor HLA Class I Expression -- Conclusion.
Sommario/riassunto	Abnormal expression of MHC class I molecules in malignant cells is a frequent occurrence that ranges from total loss of all class I antigens to partial loss of MHC specific haplotypes or alleles. Different mechanisms are described to be responsible for these alterations, requiring different therapeutic approaches. A complete characterization of these molecular defects is important for improvement of the strategies for the selection and follow-up of patients undergoing T-cell based cancer immunotherapy. Precise identification of the mechanism leading to MHC class I defects will help to develop new personalized patient-tailored treatment protocols. There is significant new research on the prevalence of various patterns of MHC class I defects and the underlying molecular mechanisms in different types of cancer. In contrast, few data is available on the changes in MHC class I expression during the course of cancer immunotherapy, but the authors have recently made discoveries that show the progression or regression of a

tumor lesion in cancer patients undergoing immunotherapy depends on the molecular mechanism responsible for the MHC class I alteration and not on the type of immunotherapy used. According to this notion, the nature of the preexisting MHC class I lesion in the cancer cell has a crucial impact on determining the final outcome of cancer immunotherapy. This SpringerBrief will present how MHC class 1 is expressed, explain its role in tumor progression, and its role in resistance to immunotherapy. .
