



A Suicide Vector Design for Cells Expressing HIV-1Regulatory Genes: Basics, Methods, Handicaps (Paperback)

By Zeynep Yegin

VDM Verlag, 2009. Paperback. Condition: New. Language: German . Brand New Book. In this study, expression profiles of the toxic gene HSV-1 TK on parental HeLa cells and HeLa cells expressing HIV-1 regulatory genes was desired to be assessed. The toxic gene (suicide gene) presumed to create the desired effect was placed under the transcriptional control of HIV promoter LTR and so that the expression of the toxic gene was made dependent upon the tat regulator gene of HIV. In order to prevent leaky gene expression stemming from the basal gene expression from LTR even if it was not induced by Tat, and thereby having potential to damage healthy cells, the prerequisite cis-acting DNA sequences were cloned downstream of the toxic gene. So that, the transcripts produced could retain in the nucleus and would require the function of a second regulator protein ?Rev? for being transmitted into the cytoplasm. However, since the generation of stable cell lines expressing Tat and Rev proteins could not be achieved, the possibility of working with the suicide vector constructed for this purpose was out of question. In this book, the strategies and the handicaps will be discussed for researchers who aim to develop cloning...



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