

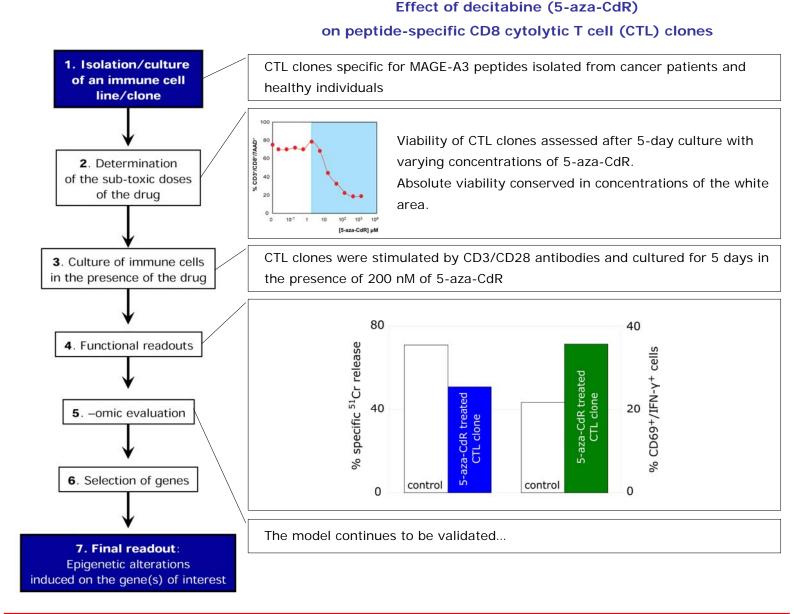
A METHODOLOGICAL MODEL FOR UNCOVERING IMMUNOEPIGENETIC (SIDE?)-EFFECTS OF EPIGENETIC DRUGS (EDs)

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BACKGROUND Epigenetic aberrations of various genes are implicated in the pathogenesis of cancer, autoimmune and neurodegenerative diseases, etc. [1]. EDs indications are rapidly expanding with many phase I/II clinical trials currently in progress for solid and hematological cancers [2], whilst recent studies suggest their possible use as immunosuppressive agents [3]. Our preliminary results indicate that epigenetic drugs affect significantly the function of certain immune cell populations. This effect might represent another mode of EDs action and/or a source of side effects, whilst it presents special interest bearing in mind that various drugs in common use, such as valproic acid, procainamide, hydralazine, etc., dispose an epigenetic function.

THE MODEL

VALIDATION



REFERENCES

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- 2. Esteller M. N Engl J Med 2008, 358:1148-1159
- 3. Johnson J et al. Transplant Proc 2008, 40:459-461

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