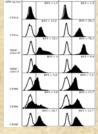


In order to evaluate the modulation in antigen presenting cell capability due to the maturation f DC induced by NISO, exposure (or, TNF alpha, as control), classical Mixed Lymphocyte Reactions (MLR) were performed. In brief, responder T lymphocytes from an (allogeneic) non related donor were co-cultured with DCs at different DC to T cell ratios. The read out of the assay was T cell proliferation, as assessed by ³[H]-TdR incorporation in a standard 18-hrs pulse assay.

Fig.2 Phenotypic characterization of human DC exposed to TNF alpha. Human monocytes were treated with GM-CSF (50 ng/ml) and IL-4 (1000 units/ml) for 7 days to obtain immature DC. These cells were then incubated with or without TNF (200 ng/ml) for a further 48 h (*right and left columns*, respectively). Cell preparations were stained with FITC-conjugated Abs for surface antigens, as specified on the *left-hand side*, and analyzed by flow cytometry . Their relative fluorescence intensity (*RF*) was calculated *versus* negative controls (*open histograms*). The results shown are from one representative experiment.



common preservatives) (data not shown). The results of this study contribute to the comprehension of the complex series of cellular and molecular events which can induce

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Paolucci C, Rovere P, De Nadai C, Manfredi AA, Clementi E. Nitric oxide inhibits the tumor necrosis factor alpha -regulated endocytosis of human dendritic cells in a cyclic GMP-dependent way. J Biol Chem. 2000;275(26):19638-44.
Banchereau J, Steinman RM. Dendritic cells and the control of immunity. Nature. 1998 19;392(667):245-52.
Nasorri F, Sebastiani S, Mariani V, De Pita O, Puddu P, Girolomoni G, Cavani A. Activation of nickle-specific CD4 - T lymphocytes in the absence of professional antigen-presenting cells. J Invest Dermatol. 2002;118(1):172-9.
Manasi C, Girolomoni G, Human CD4 - T (hymphocytes with remarkable regulatory functions on dendritic cells and nickel-specific Th1 immune responses. J Invest Dermatol. 2000;114(2):295-302.
Janzavecchia A. and Sallustio F. (2001). Regulation of T cell immunity by dendritic cells. Cell 2001; 106:263-266.
Denkhaus E and Sainkow K. Nickel essentiality, toxicity, and carcinogenicity. Critical reviews

Denkhaus E and Salnikow K. Nickel essentiality, toxicity, and carcinogenicity. Critical reviews Oncology/Hematology,2002 42:35-56.

References

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