Effect of Low Dose Irradiation on the ConA Response of Mouse Splenic Lymphocytes (II)

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It is known that the single or repeated irradiation with low doses of X- or gamma-rays indeed the augmentation of immune responses. We investigated the effects of low dose whole-body irradiation on ConA response of mouse spleen lymphocytes. AKR mice and SAM mice(Senescence Accelerated Mouse ; SAMP1TA/Ngs) were irradiated with 5 cGy of X-rays. The enhancement of proliferation of splenic lymphocytes in response to ConA was observed in AKR mice 4 hours, 1 day and 1 week after irradiation. Whereas irradiation depressed ConA response in SAM mice, although they were originally derived from AKR.