



↓ Full text

Extremely low frequency pulsed electromagnetic fields increase cell proliferation in lymphocytes from young and aged subjects.

Cossarizza A, et al. Biochem Biophys Res Commun. 1989.

[Show full citation](#)

Abstract

The effect of the in vitro exposure to extremely low frequency pulsed electromagnetic fields (PEMFs) on the proliferation of human lymphocytes from 24 young and 24 old subjects was studied. The exposure to PEMFs during a 3-days culture period or during the first 24 hours was able to increase phytohaemagglutinin-induced lymphocyte proliferation in both groups. Such effect was greater in lymphocytes from old people which showed a markedly reduced proliferative capability and, after PEMF exposure, reached values of 3H-TdR incorporation similar to those of young subjects. The relevance of these data for the understanding and the reversibility of the proliferative defects in cells from aged subjects and for the assessment of risk related to the environmental exposure to PEMFs has to be considered.

PMID: 2719691 [PubMed - indexed for MEDLINE]

Full text

 [Full text at journal site](#)

Citation 62 of 138
[Back to results](#)

Similar articles

[Extremely low frequency pulsed electromagnetic fields increase interleukin-2 \(IL-2\) utilization and IL-2 receptor expression in mitogen-stimulated human lymphocytes from old subjects.](#)

Cossarizza A, et al. FEBS Lett. 1989.

[Exposure to low-frequency pulsed electromagnetic fields increases mitogen-induced lymphocyte proliferation in Down's syndrome.](#)

Cossarizza A, et al. Aging (Milano). 1991.

[DNA repair after gamma irradiation in lymphocytes exposed to low-frequency pulsed electromagnetic fields.](#)

Cossarizza A, et al. Radiat Res. 1988.

Cossarizza A, et al. Radiat Res. 1989.

[Lymphocytes and low-frequency electromagnetic fields.](#)

Review article

Cadossi R, et al. FASEB J. 1992.

[Fundamental and practical aspects of therapeutic uses of pulsed electromagnetic fields \(PEMFs\).](#)

Review article

Bassett CA, et al. Crit Rev Biomed Eng. 1989.

[See all](#)