

**Sarcoma cell distribution in the cell cycle phases.** Flow cytometry revealed that after the 4th exposure to EMF sessions 33% of cancer cells found to be in G0/G1, 9% in S phase, 2% in mitosis and 45% were undergoing apoptosis while the control cells found to be 36% in G0/G1, 38% in S phase, 19% in mitosis and 2% undergoing apoptosis ( table 1 ).

**Estimation of tumor cell “metastatic potential” (platelet aggregation ability).** The induction of aggregation of human PRP, of the unexposed sarcoma as well as of the exposed to EMF cells was 78%, and was almost equal to the aggregation ability of ADP (82%). According to the above EMF-exposure did not seem to affect significantly the “metastatic potential” of sarcoma cells (fig.4).

**Estimation of cell electromagnetic radio - frequencies.** Radio - frequencies of unexposed sarcoma cells were ranging between 10.5 to 120.5 KHz, of EMF-exposed sarcoma cells between 10 to 120 KHz and of the smooth muscle cells between 10 to 120 KHz. Spectrum analysis of the above estimations revealed that the radio-frequencies of sarcoma cells exposed to EMF showed significant differences compared to those of the unexposed sarcoma cells (control cells), presenting an almost 70% similarity to the radio-frequencies recorded from smooth muscle cells (data not shown).

**Tumor induction in Wistar rats:** Our results according to the different groups of the study are as follows :