

عنوان مقاله:

Increase Expression of IL-1b Transcript in Cultured PBMCs

محل انتشار:

بیستمین کنگره بین المللی بیولوژی تولید مثل و پانزدهمین کنگره بین المللی سلول های بنیادی (سال: 1398)

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خلاصه مقاله:

Background: There is strong evidence that cytokines and growth factors play an important role as local mediators of the actions of steroids on the endometrium to prepare it for implantation. In humans, PBMCs were reported to induce the production of several cytokines, inflammatory cytokines such as IL-1b which play a key role in primary immune responses. In this article, the impact of intrauterine administration of PBMCs on the expression of il1-b transcript and role il1-b in embryo implantation and pregnancy rate. Materials and Methods: Pregnant mice were randomly divided into two groups, including embryo implantation dysfunction (EID) group; EID with PBMCs group. Mouse PBMCs were isolated from whole blood of the non-pregnant female mouse and then cultured 0, 24, or 48 hours in vitro. Uterine horns were excised to determine the number of pregnant mice and implantation sites on the day 7.5 postcoitum. mRNA expressions of interleukin-1b (IL-1b) in the cells were examined using the quantitative real-time polymerase chain reaction analysis (real-time PCR). Results: IL-1b transcript was expressed in mouse cultured-PBMCs. PBMCs significantly increased IL-1b ($P < 0.05$) mRNA level in mouse PBMCs. This result showed that the expression of IL-1b mRNA in mouse PBMCs was transiently increased. Conclusion: Intrauterine administration of mouse PBMCs derived from unpregnant mice prior to embryo implant have a good influence on endometrial receptivity and embryonic implantation in EID mice.

کلمات کلیدی:

Embryo Implantation Dysfunction, Peripheral Blood Mononuclear Cells, Endometrial Receptivity, IL-1b, Mouse

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