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THE ROLE OF GLUCOSE AND PHOSPHATE IN IN VITRO CULTURE MEDIUM TO OVERCOME CELL BLOCK ON MOUSE EMBRYO

Abstract

The influence of phosphate and/or glucose on the development of mice preimplantation embryos was investigated. Approximately two hundreds female mice (Mus musculus albinus) CBR strain 2 month of age were used. The animal were superovulated using PMSG and HCG and were bred naturally by adult males (3-4 month of age). The one cell stage of embryos were harvested and used for culture in modified media supplemented with 0,0 mmol/l, 0,5 mmol/l, 1,0 mmol/l, phosphate and 0,0 mmol/l, 2,5 mmol/l, 5,0 mmol/l, 7,5 mmol/l, glucose. The results showed that supplementation of 1,0 mmol/l, phosphate support preimplantation embryos development better than of 0,5 mmol/l, and 1,5 mmol/l, supplementation of 2,5 mmol/l, glucose indicated to overcome cell-block, but the requirement of glucose to be increasing as the development more beyond two cell stage interaction of phosphate and glucose at 1,0 mmol/l, and 2,5 mmol/l, respectively support preimplantation mice embryos development. In conclusion, phosphate supplementation did not inhibited the development of embryos and cell-block can be overcome by lower concentrate of glucose the combination of phosphate and glucose serve a better environment for embryos development.

Keyword : Cell, Block, glucose, phosphate, mouse, embryo,

Daftar Pustaka :