

Abstract

METHOD FOR PRODUCING RETINAL PIGMENT EPITHELIAL CELLS

The present invention provides

5 a method for producing a retinal pigment epithelial cell,
including

(1) a first step of subjecting pluripotent stem cells to
floating culture in a serum-free medium to form an aggregate of
pluripotent stem cells,

10 (2) a second step of subjecting the aggregate formed in step
(1) to floating culture in a serum-free medium or serum-
containing medium each being free of a substance acting on the
Sonic hedgehog signal transduction pathway and containing a
substance acting on the BMP signal transduction pathway,
15 thereby obtaining an aggregate containing retinal progenitor
cells, and

(3) a third step of subjecting the aggregate formed in step (2)
to floating culture in a serum-free medium or serum-containing
medium each being free of a substance acting on the Sonic
20 hedgehog signal transduction pathway and a substance acting on
the BMP signal transduction pathway and containing a substance
acting on the Wnt signal pathway, thereby obtaining an
aggregate containing retinal pigment epithelial cell.

25 (No figure to be published)