IN VITRO EPITHELIAL MODELS COMPRISING LAMINA PROPRIA-DERIVED CELLS

ABSTRACT

We describe a method comprising: (a) providing a first microfluidic device comprising (i) a first fluidic channel in fluidic communication with a second microfluidic channel, with a semi-permeable membrane disposed between the first and second microfluidic channels, (ii) first cells comprising at least one parenchymal cell type, the first cells are positioned in the first microfluidic channel or the second microfluidic channel, and (iii) second cells comprising at least one stromal cell type, the second cells are positioned in the first microfluidic channel or the second microfluidic channel, in which the stromal cell type is a lamina propria-derived cell; and (b) perfusing the first microfluidic device with fluid.

Figure 1