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(54) Title: DEVELOPMENT OF SPINAL CORD ON A MICROFLUIDIC CHIP

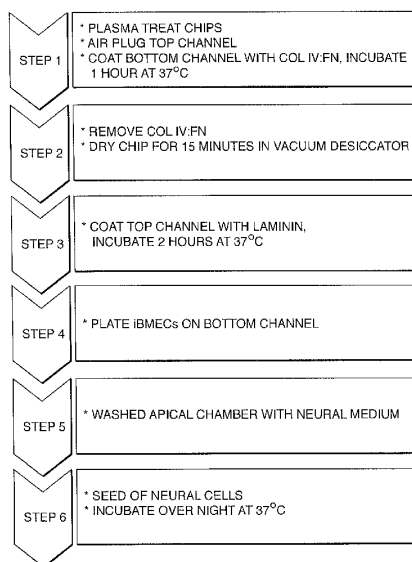


FIG. 1

(57) Abstract: The invention relates to culturing brain endothelial cells, and optionally astrocytes and neurons in a fluidic device under conditions whereby the cells mimic the structure and function of the blood brain barrier. Culture of such cells in a microfluidic device, whether alone or in combination with other cells, drives maturation and/or differentiation further than existing systems.

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