

Title (en)

METHODS FOR CULTURING FLUID-FILLED SENSORY ORGANS

Title (de)

KULTURVERFAHREN FÜR FLÜSSIGKEITSGEFÜLLTE SENSORISCHE ORGANE

Title (fr)

PROCEDE DE CULTURE D'ORGANES SENSORIELS REMPLIS DE FLUIDES

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Application

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Abstract (en)

[origin: WO0054583A1] The present invention provides methods for culturing fluid-filled sensory organs in vitro. In particular, the present invention provides methods for culturing the eyeball, including the retina, and the inner ear, including the Organ of Corti, in vitro. The methods of the present invention involve little or no microsurgical dissection of the entire fluid-filled sensory organ, thereby preserving the structural and functional integrity of the sensory epithelium. The methods of the present invention include the steps of (a) introducing a fluid-filled sensory organ (such as an inner ear or an eye ball) into a culture chamber containing liquid culture medium and (b) moving the culture chamber so that the fluid-filled sensory organ moves within the culture chamber. Preferably the culture chamber is cylindrical or annular in shape and is rotated about its longitudinal axis.

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