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(57) Abstract :

The present invention relates to a cell culture device 100 for in vitro hypoxia treatment of cells comprises a flask 102 configured with a plurality of openings, one is inlet port 104 with valve 126 and the other is outlet port 112 with valve 128 for movement and regulation of gases including hypoxic air, and a cap 120 rotatably coupled with the flask 102 enabling insertion and removal of the cells. The device 100 is suitable to provide a continuous flow of gases and with different percentages of oxygen to study cells in different hypoxic conditions and their repercussions.

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