

Title (en)

DIRECT INTRODUCTION OF FOREIGN MATERIALS INTO CELLS

Title (de)

DIREKTES EINBRINGEN VON FREMDEN MATERIALIEN IN ZELLEN

Title (fr)

INTRODUCTION DIRECTE DE SUBSTANCES ETRANGERES DANS DES CELLULES

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Application

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Abstract (en)

[origin: WO9610630A1] Disclosed is a simple, economical, and precise method of introducing a biological material into a predetermined target cell population. The method comprises the steps of providing (a) a plurality of biologically inert microprobes positioned on a support, (b) a solid or quasi-solid mass of the target cells defining an interface with the microprobes, and (c) a biological material at the interface, and then physically contacting the cells with the microprobes to cause the microprobes to non-lethally pierce the cell walls and/or membranes of the cells. The microprobes are preferably integral with the support, and are prepared by etching a single crystalline wafer material such as silicon. The microprobes are preferably pyramidally shaped. The target cells can be contacted with the microprobes in vitro or in situ. The method is applicable to virtually all cell types, and any biological material capable of being introduced into cells described herein.

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