

Title (en)

TECHNIQUES FOR PIERCING SPECIFIC SITE OF CELL

Title (de)

VERFAHREN FÜR DAS ORTSSPEZIFISCHE EINDRINGEN IN ZELLEN.

Title (fr)

PROCEDES PERMETTANT DE PERCER UNE CELLULE EN UN SITE SPECIFIQUE

Publication

**EP 1063287 A8 20010502 (EN)**

Application

**EP 99939150 A 19990312**

Priority

- JP 9901223 W 19990312
- JP 8017798 A 19980312

Abstract (en)

[origin: EP1063287A1] A technique for controlling membrane denaturation reactions other than physical shear force was developed. For example, the present invention provides, a method for causing membrane disruption at a specific site by reacting a stimulus such as light with a compound that is activated by the stimulus, where the reaction occurs on a membrane such as a biomembrane. It also provides a membrane structure such as cells in which a specific site has been disrupted, which are obtained by the present method. Introduction of substances such as genes also became possible by using this membrane structure. Further provided is a membrane-destroying member for disrupting a membrane at a specific site. Thus, the present invention enabled, for example, easy membrane penetration using components constituting microelectrodes, micromanipulators, and microinjectors, which were conventionally hardly usable in penetrating cell membranes.

IPC 1-7

**C12M 1/00**; **C12N 5/06**

IPC 8 full level

**C12M 3/00** (2006.01); **C12N 13/00** (2006.01); **C12N 15/89** (2006.01)

CPC (source: EP US)

**C12M 35/00** (2013.01 - EP US); **C12N 13/00** (2013.01 - EP US); **C12N 15/89** (2013.01 - EP US)

Citation (search report)

See references of WO 9946361A1

Cited by

EP1583845A4

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

**EP 1063287 A1 20001227**; **EP 1063287 A4 20061206**; **EP 1063287 A8 20010502**; AU 3277199 A 19990927; JP 2010088436 A 20100422; JP 4467793 B2 20100526; JP 5053350 B2 20121017; US 2003180946 A1 20030925; US 2005019922 A1 20050127; US 2008220517 A1 20080911; US 6753171 B2 20040622; WO 9946361 A1 19990916

DOCDB simple family (application)

**EP 99939150 A 19990312**; AU 3277199 A 19990312; JP 2000535728 A 19990312; JP 2009262566 A 20091118; JP 9901223 W 19990312; US 62397000 A 20001228; US 83677304 A 20040430; US 84637807 A 20070828