

Title (en)

METHODS FOR GENERATING ANTIBIOTIC RESISTANT MICROBES AND NOVEL ANTIBIOTICS

Title (de)

VERFAHREN ZUR HERSTELLUNG ANTIBIOTIKARESISTENTER MIKROBEN UND NEUER ANTIBIOTIKA

Title (fr)

PROCEDES DE PRODUCTION DE MICROBES RESISTANT AUX ANTIBIOTIQUES ET NOUVEAUX ANTIBIOTIQUES

Publication

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Application

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Priority

US 0123888 W 20010725

Abstract (en)

[origin: WO03012130A1] The invention provides methods for generating antibiotic resistant bacteria comprising blocking mismatch repair in a bacterium to make hypermutable bacteria, contacting the bacteria with at least one antibiotic, selecting bacteria that are resistant to the antibiotic, and culturing the antibiotic resistant bacteria. The invention also provides methods of determining the genes responsible for antibiotic resistance.

IPC 1-7

**C12Q 1/02**; **C12Q 1/68**; **C12N 15/00**; **C12N 15/74**; **C12N 1/00**; **C12N 1/20**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] US 6146894 A 20001114 - NICOLAIDES NICHOLAS [US], et al
- [E] WO 02054856 A1 20020718 - MORPHOTEK INC [US], et al
- [A] DRUMMOND ET AL.: "DHFR/MSH3 amplification in methotrexate-resistant cells alters the hMutS alpha /hMutS beta ratio and reduces the efficiency of base-base mismatch repair.", PROC. NATL. ACAD. SCI. USA, vol. 94, July 1997 (1997-07-01), pages 10144 - 10149, XP002320277
- [DA] DRUMMOND J T ET AL: "CISPLATIN AND ADRIAMYCIN RESISTANCE ARE ASSOCIATED WITH MUTL-ALPHA AND MISMATCH REPAIR DEFICIENCY IN AN OVARIAN TUMOR CELL LINE", JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 271, no. 33, 16 August 1996 (1996-08-16), pages 19645 - 19648, XP002939396, ISSN: 0021-9258
- [T] PETER KARRAN: "Mechanisms of tolerance to DNA damaging therapeutic drugs", CARCINOGENESIS, vol. 22, no. 12, December 2001 (2001-12-01), pages 1931 - 1937, XP002320360
- See references of WO 03012130A1

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