Title (en)

BACTERIAL DELIVERY SYSTEM

Title (de)

SYSTEM ZUR VERABREICHUNG VON BAKTERIEN

Title (fr)

SYSTEME D'APPORT BACTERIEN

Publication

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Application

EP 96932169 A 19960906

Priority

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- US 9614190 W 19960906

Abstract (en)

[origin: WO9708955A1] This invention relates to a method of introducing functional nucleic acids into cells using a bacterial delivery system. The delivery system can be used as a vaccine to prevent or treat infectious diseases. This invention can be applied to any desired bacteria including attenuated strains of Shigella.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] EP 0351322 A1 19900117 - PASTEUR INSTITUT [FR], et al
- [X] PHALIPON A ET AL: "Live attenuated Shigella flexneri mutants as vaccine candidates against shigellosis and vectors for antigen delivery.", BIOLOGICALS : JOURNAL OF THE INTERNATIONAL ASSOCIATION OF BIOLOGICAL STANDARDIZATION. JUN 1995, vol. 23, no. 2, June 1995 (1995-06-01), pages 125 - 134, XP002280510, ISSN: 1045-1056
- [DX] LINDBERG A A ET AL: "Development of an auxotrophic oral live Shigella flexneri vaccine.", VACCINE. APR 1988, vol. 6, no. 2, April 1988 (1988-04-01), pages 146 - 150, XP002280511, ISSN: 0264-410X
- [X] MILLS S D ET AL: "ANALYSIS AND GENETIC MANIPULATION OF SHIGELLA VIRULENCE DETERMINANTS FOR VACCINE DEVELOPMENT", VACCINE, BUTTERWORTH SCIENTIFIC. GUILDFORD, GB, vol. 6, no. 2, 1 April 1988 (1988-04-01), pages 116 - 122, XP000051289, ISSN: 0264-410X
- [A] HIGH N ET AL: "IpaB of Shigella flexneri causes entry into epithelial cells and escape from the phagocytic vacuole.", THE EMBO JOURNAL. MAY 1992, vol. 11, no. 5, May 1992 (1992-05-01), pages 1991 - 1999, XP000999368, ISSN: 0261-4189
- [PX] SIZEMORE D R ET AL: "Attenuated Shigella as a DNA delivery vehicle for DNA-mediated immunization.", SCIENCE. 13 OCT 1995, vol. 270, no. 5234, 13 October 1995 (1995-10-13), pages 299 - 302, XP002071287, ISSN: 0036-8075
- See references of WO 9708955A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

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