

Title (en)
GENETIC TRANSFORMATION OF ZYGOTES.

Title (de)
GENETISCHE TRANSFORMATION VON ZYGOTEN.

Title (fr)
TRANSFORMATION GENETIQUE DE ZYGOTES.

Publication
EP 0081570 A4 19850902 (EN)

Application
EP 82902236 A 19820608

Priority
US 27323981 A 19810612

Abstract (en)
[origin: WO8204443A1] Genetic transformation of a zygote and the embryo and mature organism which result therefrom is obtained by placing or inserting exogenous genetic material into the nucleus of the zygote or into any genetic material which ultimately forms at least a part of the nucleus of the zygote. It is preferred that the exogenous genetic material be added to a pronuclei of the zygote and is particularly preferred that it be added to the male pronucleus of the zygote. Thereafter, the zygote is allowed to undergo differentiation and development into the organism. The genotype of the zygote and the organism which results therefrom will include the genotype of the exogenous genetic material and the exogenous genetic material will be phenotypically expressed. The invention can be utilized in a variety of ways including, for example, animal and plant breeding to modify or create new species, it can be used in epigenetics and in the understanding and treatment of genetic diseases.

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A01K 67/0275 (2013.01); **A01K 2217/05** (2013.01)

Citation (search report)
• [XD] CHEMICAL ABSTRACTS, vol. 81, no. 9, September 2, 1974, page 187, abstract 47169z, Columbus, Ohio, US; R. JAENISCH et al.: "Simian virus 40 DNA sequences in DNA of healthy adult mice derived from preimplantation blastocysts injected with viral DNA", & PROC. NAT. ACAD. SCI. U.S.A. 1974, 71(4), 1250-4
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