

Title (en)

IMPROVED BACILLUS THURINGIENSIS TOXIN

Title (de)

VERBESSERTE BACILLUS THURINGIENSIS-TOXINS

Title (fr)

TOXINE DE BACILLUS THURINGIENSIS AMELIOREE

Publication

EP 0989998 A1 20000405 (EN)

Application

EP 98939581 A 19980625

Priority

- EP 9804033 W 19980625
- US 88438997 A 19970627

Abstract (en)

[origin: WO9900407A2] New improved Cry9C proteins, having significantly increased toxicity, and DNA sequences encoding these proteins, were designed. Analysis of amino acid positions in domain II of the Cry9C protein by protein mutagenesis identified amino acids involved in insect toxicity. Random replacement of these amino acids identifies proteins with improved toxicity. A combination of identified improved amino acids in a single protein yields modified Cry9C proteins with significantly improved toxicity.

IPC 1-7

C07K 14/00

IPC 8 full level

C07K 14/325 (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)

C07K 14/325 (2013.01); **C12N 15/8286** (2013.01); **Y02A 40/146** (2017.12)

Cited by

US10830631B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9900407 A2 19990107; WO 9900407 A3 19990514; AU 741600 B2 20011206; AU 8804498 A 19990119; CA 2290718 A1 19990107;
EP 0989998 A1 20000405

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EP 9804033 W 19980625; AU 8804498 A 19980625; CA 2290718 A 19980625; EP 98939581 A 19980625