Title (en)

COMPOSITIONS AND METHODS TO TREAT VIRAL INFECTIONS

Title (de)

ZUSAMMENSETZUNGEN UND VERFAHREN ZUR BEHANDLUNG VON VIRUSINFEKTIONEN

Title (fr)

COMPOSITIONS ET PROCÉDÉS POUR TRAITER DES INFECTIONS VIRALES

Publication

EP 3331571 A4 20190410 (EN)

Application

EP 16804107 A 20160527

Priority

- US 201562168259 P 20150529
- US 201562168262 P 20150529
- US 2016034606 W 20160527

Abstract (en)

[origin: WO2016196273A1] The invention provides methods and compositions for treating viral infections. A nuclease is used to cleave viral nucleic acid in an infected cell. The nuclease cleaves viral nucleic acid in a sequence-specific manner and thus does not cleave genes or other important genomic features from a genome of the infected host. In a preferred embodiment, the nuclease is a CRISPR-associated protein such as Cas9 and is delivered to the infected cells as a ribonucleoprotein that includes the Cas9 and a guide RNA designed to target HSV or CMV nucleic acid. Additionally or alternatively, the nuclease can be delivered encoded on a plasmid or as mRNA to be expressed within the target cells. Methods and compositions may be used to treat a patient or may be used to treat tissues, cells, or organs ex vivo.

IPC 8 full level

A61K 48/00 (2006.01); **A61K 9/08** (2006.01)

CPC (source: EP)

A61K 9/08 (2013.01); **A61P 31/20** (2017.12); **A61P 31/22** (2017.12); **A61P 43/00** (2017.12); A61K 9/0014 (2013.01)

Citation (search report)

- [A] YANWEI BI ET AL: "High-Efficiency Targeted Editing of Large Viral Genomes by RNA-Guided Nucleases", PLOS PATHOGENS, vol. 10, no. 5, 1 May 2014 (2014-05-01), pages e1004090, XP055198358, DOI: 10.1371/journal.ppat.1004090
- See references of WO 2016196273A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2016196273 A1 20161208; CA 3000189 A1 20161208; EP 3331571 A1 20180613; EP 3331571 A4 20190410; JP 2018516983 A 20180628

DOCDB simple family (application)

US 2016034606 W 20160527; CA 3000189 A 20160527; EP 16804107 A 20160527; JP 2018513744 A 20160527