Title (en)

COMPOSITIONS AND METHODS FOR MODULATING CELLULAR MEMBRANE-MEDIATED INTRACELLULAR SIGNAL TRANSDUCTION

Title (de)

ZUSAMMENSETZUNGEN UND VERFAHREN ZUR MODULATION ZELLMEMBRANVERMITTELTER INTRAZELLULÄRER SIGNALWEITERLEITUNG

Title (fr)

COMPOSITIONS ET PROCÉDÉS POUR MODULER LA TRANSDUCTION DE SIGNAL INTRACELLULAIRE VÉHICULÉ PAR MEMBRANE CELLULAIRE

Publication

EP 2215260 A1 20100811 (EN)

Application

EP 08842968 A 20081023

Priority
- US 2008081021 W 20081023
- US 98271907 P 20071025
- US 98272007 P 20071025
- US 2007082581 W 20071025
- US 2007082580 W 20071025
- US 2007082578 W 20071025
- US 4834708 P 20080428
- US 4834008 P 20080428
- US 4840408 P 20080428
- US 4833208 P 20080428

Abstract (en)

[origin: WO2009055614A1] Particular aspects of the present invention provide compositions and methods for modulating intracellular signal transduction, including modulation of at least one of membrane structure, membrane potential or membrane conductivity, membrane proteins or receptors, ion channels, and calcium dependant cellular messaging systems, comprising use of the inventive electrokinetically generated solutions to impart electrochemical and/or conformational changes in membranous structures (e.g., membrane and/or membrane proteins, receptors or other components) including but not limited to G-protein coupled receptors (GPCRs) and/or G-proteins, and intracellular junctions. In particular embodiments, the electrokinetically generated solutions or compositions are gas-enriched and/or comprise other therapeutic agents. Other embodiments include particular therapeutic methods comprising administration or formulations of the therapeutic compositions, and in various combination treatments.

IPC 8 full level

C12Q 1/68 (2006.01); A61K 33/00 (2006.01); A61K 35/02 (2015.01); C12N 5/00 (2006.01)

CPC (source: EP)

A61K 31/137 (2013.01); A61K 31/58 (2013.01); A61K 31/7036 (2013.01); A61K 33/00 (2013.01); A61K 33/14 (2013.01); A61K 45/06 (2013.01); A61P 1/00 (2017.12); A61P 1/04 (2017.12); A61P 3/00 (2017.12); A61P 3/10 (2017.12); A61P 5/00 (2017.12); A61P 9/00 (2017.12); A61P 9/08 (2017.12); A61P 9/10 (2017.12); A61P 11/00 (2017.12); A61P 11/02 (2017.12); A61P 11/06 (2017.12); A61P 11/08 (2017.12); A61P 13/12 (2017.12); A61P 15/00 (2017.12); A61P 17/00 (2017.12); A61P 17/02 (2017.12); A61P 17/04 (2017.12); A61P 17/06 (2017.12); A61P 17/08 (2017.12); A61P 19/00 (2017.12); A61P 19/02 (2017.12); A61P 19/08 (2017.12); A61P 21/00 (2017.12); A61P 25/00 (2017.12); A61P 25/28 (2017.12); A61P 27/02 (2017.12); A61P 27/04 (2017.12); A61P 27/06 (2017.12); A61P 27/14 (2017.12); A61P 29/00 (2017.12); A61P 31/00 (2017.12); A61P 31/04 (2017.12); A61P 35/00 (2017.12); A61P 37/00 (2017.12); A61P 37/06 (2017.12); A61P 37/08 (2017.12); A61P 39/02 (2017.12); A61P 43/00 (2017.12); C12N 13/00 (2013.01); G01N 33/6872 (2013.01)

C-Set (source: EP)
1. A61K 31/137 + A61K 2300/00
2. A61K 31/7036 + A61K 2300/00
3. A61K 33/00 + A61K 2300/00
4. A61K 33/14 + A61K 2300/00
5. A61K 31/58 + A61K 2300/00

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009055614 A1 20090430; AU 2008316623 A1 20090430; AU 2008316623 B2 20150122; AU 2008316663 A1 20090430; AU 2008316663 B2 20141218; AU 2008316794 A1 20090430; AU 2008316794 B2 20150423; CA 2703672 A1 20090430; CA 2703739 A1 20090430; CA 2703754 A1 20090430; CA 2703754 C 20190409; CN 101909623 A 20101208; CN 101909623 B 20150401; CN 101909648 A 20101208; CN 101909648 B 20140416; CN 101910412 A 20101208; CN 101910412 B 20130821; CN 103933567 A 20140723; CN 104771758 A 20150715; EP 2214707 A1 20100811; EP 2214707 A4 20110420; EP 2214707 B1 20170712; EP 2215260 A1 20100811; EP 2215260 A4 20110420; EP 2224924 A1 20100908; EP 2224924 A4 20110112; IL 205317 A0 20101230; IL 205317 A 20160331; IL 205318 A0 20101230; IL 205318 A 20170131; IL 205319 A0 20101230; IL 205319 A 20160630; JP 2011500837 A 20110106; JP 2011500844 A 20110106; JP 2011500847 A 20110106; JP 2014169328 A 20140918; JP 2014193915 A 20141009; JP 2014205693 A 20141030; JP 5613565 B2 20141022; JP 5869763 B2 20160224; JP 5911197 B2 20160427; MX 2010004554 A 20100728; MX 2010004563 A 20100728; MX 2010004564 A 20100728

DOCDB simple family (application)

US 2008081021 W 20081023; AU 2008316623 A 20081024; AU 2008316663 A 20081024; AU 2008316794 A 20081023; CA 2703672 A 20081023; CA 2703739 A 20081024; CA 2703754 A 20081024; CN 200880122816 A 20081024; CN 200880122817 A 20081024; CN 200880122893 A 20081023; CN 201410108422 A 20081024; CN 201510111837 A 20081024; EP 08841701 A 20081024; EP 08841991 A 20081024; EP 08842968 A 20081023; IL 20531710 A 20100425; IL 20531810 A 20100425; IL 20531910 A 20100425; JP 2010531255 A 20081023; JP 2010531276 A 20081024; JP 2010531290 A 20081024; JP 2014117564 A 20140606;

JP 2014121350 A 20140612; JP 2014121357 A 20140612; MX 2010004554 A 20081024; MX 2010004563 A 20081023; MX 2010004564 A 20081024