New Drug Derivatives for Promoting Oral Delivery to the Lung

Tech ID: 19494 / UC Case 2004-258-0

TECHNOLOGY DESCRIPTION

A series of novel lipid derivatives of phosphonate compounds has been synthesized. These novel compounds have been shown to promote oral uptake and increase delivery of the conjugate to the lung in animal models when compared with the parent compounds. A similar derivatization strategy can also be applied to non-phosphonate compounds making this approach applicable to a variety of existing drugs.

Drugs that have been modified in this way will very likely be more effective against diseases of the lung and this approach has the potential to improve the efficacy of drugs that are directed against pulmonary infections, such as influenza, or lung diseases, such as cancer.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	8,318,700	11/27/2012	2004-258
United States Of America	Issued Patent	8,101,745	01/24/2012	2004-258

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- New Derivatives of Phosphonate Compounds with Enhanced Anti-viral Activity
- New Antiviral Compounds
- Derivatives of Novel Nucleoside Phosphonates with Anti-viral Activity

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INVENTORS

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OTHER INFORMATION

CATEGORIZED AS

- **Medical**
  - Delivery Systems
  - Disease: Respiratory and Pulmonary System

RELATED CASES

2004-258-0