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Composition, useful for increasing uptake of cargo agent across intestinal epithelial barrier and delivering therapeutic, vaccine/diagnostic compound across the epithelial barrier, includes transcytosis enhancer, cargo agent, and carrier

**Patent Number(s):** WO2014197546-A1

**Inventor(s):** KOVBASNJUK O, LUKYANENKO V

**Patent Assignee Name(s) and Code(s):** UNIV JOHNS HOPKINS(UYJO-C)

**Derwent Primary Accession Number:** 2014-W22975 [04]

**Abstract:** NOVELTY - Composition comprises a transcytosis enhancer, a cargo agent, and a carrier.

USE - The composition is useful for increasing uptake of a cargo agent across an intestinal epithelial barrier and delivering a therapeutic, vaccine or diagnostic compound across an intestinal epithelial barrier. The SPATE protease inhibitor is useful for treating diarrhea in a patient caused by enterohemorrhagic Escherichia coli in a patient (all claimed). Test details are described but no results given.

ADVANTAGE - The composition efficiently delivers the therapeutic, vaccine or diagnostic compound across the intestinal epithelial barrier with improved risk/benefit ratio from nanoparticle delivery systems, thus allowing the patients to undergo treatment without requiring intravenous delivery of therapeutic agents.

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**International Patent Classification:** A61K-039/395; A61K-047/48; A61K-048/00

**Derwent Class Code(s):** B07 (General - tablets, dispensers, catheters); D16 (Fermentation industry); B04 (Natural products and polymers, testing, compounds of unknown structure)

**Derwent Manual Code(s):** B04-E01; B04-G01; B04-L05C; B04-N04; B12-K04; B14-D07C; B14-E02; B14-S11; D05-H11

**Patent Details:**

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