

# Accepted Manuscript

Vitamin D increases the antiviral activity of bronchial epithelial cells *in vitro*

Aurica G. Telcian, Mihnea T. Zdrenghea, Michael R. Edwards, Vasile-Laza Stanca, Patrick Mallia, Sebastian L. Johnston, Luminita A. Stanciu



PII: S0166-3542(16)30369-2

DOI: [10.1016/j.antiviral.2016.11.004](https://doi.org/10.1016/j.antiviral.2016.11.004)

Reference: AVR 3929

To appear in: *Antiviral Research*

Received Date: 4 July 2016

Revised Date: 1 November 2016

Accepted Date: 4 November 2016

Please cite this article as: Telcian, A.G., Zdrenghea, M.T., Edwards, M.R., Stanca, V.-L., Mallia, P., Johnston, S.L., Stanciu, L.A., Vitamin D increases the antiviral activity of bronchial epithelial cells *in vitro*, *Antiviral Research* (2016), doi: 10.1016/j.antiviral.2016.11.004.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Vitamin D increases the antiviral activity of bronchial epithelial cells *in vitro*

Aurica G. Telcian<sup>a</sup>, Mihnea T. Zdrengea<sup>b,\*</sup>, Michael R. Edwards<sup>a</sup>, Vasile-Laza Stanca<sup>a</sup>,  
Patrick Mallia<sup>a,c</sup>, Sebastian L. Johnston<sup>a,c,1</sup>, Luminita A. Stanciu<sup>a,b,1</sup>

<sup>a</sup>Airways Disease Infection Section, National Heart and Lung Institute, Imperial College London; Medical Research Council; Asthma UK Centre in Allergic Mechanisms of Asthma; Centre for Respiratory Infections, London, UK; <sup>b</sup>Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania; <sup>c</sup>Imperial College Healthcare NHS Trust, London, UK

<sup>1</sup>S.L.J. and L.A.S. contributed equally to this work.

**Short title:** Antivirus activity of calcitriol

Correspondence: Mihnea T Zdrengea, e-mail: [mzdrengea@umfcluj.ro](mailto:mzdrengea@umfcluj.ro)

Abbreviations: 1 $\alpha$ (OH)ase = 1-alpha-hydroxylase, 24(OH)ase = 24-hydroxylase, HPBECs = Human Primary Bronchial Epithelial Cells, IFN- $\beta$  / IFN- $\lambda$  = Interferon- $\beta$  / - $\lambda$ , ISGs = Interferon Stimulated Genes, IL-6 / IL-8 = Interleukin-6 / -8, mRNA = messenger RNA, MxA = myxovirus resistance A gene, RSV = Respiratory Syncytial Virus, RV-1B / RV-16 = Rhinovirus-1B / -16, 18S rRNA = 18S ribosomal RNA, TLR3 = Toll Like Receptor 3, VDR = Vitamin D Receptor

Download English Version:

<https://daneshyari.com/en/article/5551907>

Download Persian Version:

<https://daneshyari.com/article/5551907>

[Daneshyari.com](https://daneshyari.com)