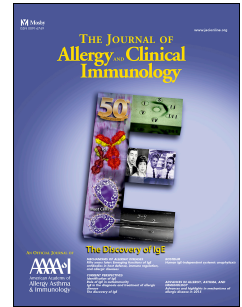


# Accepted Manuscript

Enhanced Chemosensory Sensitivity in Idiopathic Rhinitis Patients and its Reversal by Nasal Capsaicin Treatment

L. Van Gerven, Y.A. Alpizar, B. Steelant, I. Callebaut, I. Kortekaas Krohn, M. Wouters, F. Vermeulen, G. Boeckxstaens, K. Talavera, P.W. Hellings



PII: S0091-6749(17)30517-1

DOI: [10.1016/j.jaci.2017.03.014](https://doi.org/10.1016/j.jaci.2017.03.014)

Reference: YMAI 12726

To appear in: *Journal of Allergy and Clinical Immunology*

Received Date: 12 June 2016

Revised Date: 21 February 2017

Accepted Date: 2 March 2017

Please cite this article as: Van Gerven L, Alpizar YA, Steelant B, Callebaut I, Kortekaas Krohn I, Wouters M, Vermeulen F, Boeckxstaens G, Talavera K, Hellings PW, Enhanced Chemosensory Sensitivity in Idiopathic Rhinitis Patients and its Reversal by Nasal Capsaicin Treatment, *Journal of Allergy and Clinical Immunology* (2017), doi: 10.1016/j.jaci.2017.03.014.

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.

1 **Enhanced chemosensory sensitivity in idiopathic rhinitis patients and its reversal by nasal capsaicin**  
2 **treatment.**

3 Van Gerven L.<sup>1,2</sup>, Alpizar Y. A.<sup>3</sup>, Steelant B.<sup>2</sup>, Callebaut I.<sup>1</sup>, Kortekaas Krohn I.<sup>2</sup>, Wouters M.<sup>4</sup>, Vermeulen F.<sup>5</sup>,  
4 Boeckstaens G.<sup>4</sup>, Talavera K.<sup>3</sup>, Hellings P. W.<sup>1,2,6,7</sup>

5  
6 <sup>1</sup>Clinical division of Otorhinolaryngology, Head & Neck Surgery, University Hospitals Leuven, Leuven, Belgium

7 <sup>2</sup>Laboratory of Clinical Immunology, Department of Microbiology and Immunology, KU Leuven, Leuven,  
8 Belgium

9 <sup>3</sup>Laboratory for Ion Channel Research and TRP Research Platform Leuven (TRPLe), Department of Cellular and  
10 Molecular Medicine, KU Leuven, Leuven, Belgium

11 <sup>4</sup>Translational Research Center for Gastrointestinal Disorders (TARGID), KU Leuven, Leuven, Belgium

12 <sup>5</sup>Cystic Fibrosis Reference Centre, University Hospitals Leuven, Leuven, Belgium

13 <sup>6</sup>Department of Otorhinolaryngology, University of Ghent, Belgium

14 <sup>7</sup>Departement of Otorhinolaryngology, Academic Medical Center, Amsterdam, The Netherlands

15  
16 Address correspondence to: Prof Dr P.W. Hellings, Univ. Hospitals Leuven, Kapucijnenvoer 33, 3000 Leuven, e-  
17 mail: [Peter.Hellings@uzleuven.be](mailto:Peter.Hellings@uzleuven.be); Tel: +32 16332342

18  
19 *Sources of funding:*

20 Laura Van Gerven is supported by a grant of the Agency for Innovation by Science and Technology in Flanders,  
21 Belgium (IWT). Yeranddy A. Alpizar was supported by a Postdoctoral Mandate of the KU Leuven and is  
22 currently a postdoctoral researcher of the Fund for Scientific Research (FWO) Flanders, Belgium. Mira Wouters  
23 is a postdoctoral researcher of the Fund for Scientific Research (FWO) Flanders, Belgium. Guy Boeckstaens is  
24 supported by a governmental grant (Odysseus program, G.0905.07, FWO). Peter Hellings is a recipient of a  
25 senior researcher fellowship from the Fund for Scientific Research Flanders, Belgium (FWO). This work was also  
26 supported by grants from the Belgian Federal Government (IUAP P6/28), the FWO (G076513N), and the  
27 Research Council of the KU Leuven (GOA/14/011 and PF-TRPLe).

28  
29 *Word count: 4727*

30  
31 **Key words:** capsaicin, idiopathic rhinitis, non-allergic rhinitis, nasal hyperreactivity, nasal mucosal potential,  
32 TRPV1, TRPA1, treatment

33

Download English Version:

<https://daneshyari.com/en/article/5646345>

Download Persian Version:

<https://daneshyari.com/article/5646345>

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