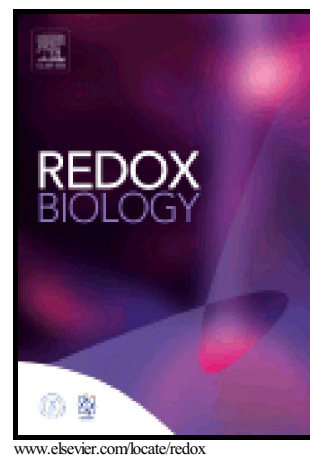


Menthol evokes  $\text{Ca}^{2+}$  signals and induces oxidative stress independently of the presence of TRPM8 (menthol) receptor in cancer cells

Mustafa Nazıroğlu, Walter Blum, Katalin Josvay, Bilal Çiğ, Thomas Henzi, Zoltán Oláh, Csaba Vizler, Beat Schwaller, László Pecze



PII: S2213-2317(17)30754-1  
DOI: <https://doi.org/10.1016/j.redox.2017.10.009>  
Reference: REDOX774

To appear in: *Redox Biology*

Received date: 4 October 2017  
Accepted date: 11 October 2017

Cite this article as: Mustafa Nazıroğlu, Walter Blum, Katalin Josvay, Bilal Çiğ, Thomas Henzi, Zoltán Oláh, Csaba Vizler, Beat Schwaller and László Pecze, Menthol evokes  $\text{Ca}^{2+}$  signals and induces oxidative stress independently of the presence of TRPM8 (menthol) receptor in cancer cells, *Redox Biology*, <https://doi.org/10.1016/j.redox.2017.10.009>

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 galley proof before it is published in its final citable 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.

**Menthol evokes  $\text{Ca}^{2+}$  signals and induces oxidative stress independently of the presence of TRPM8 (menthol) receptor in cancer cells**

Mustafa Nazıroğlu<sup>1,2</sup>, Walter Blum<sup>3</sup>, Katalin Josvay<sup>4</sup>, Bilal Çiğ<sup>2</sup>, Thomas Henzi<sup>3</sup>, Zoltán Oláh<sup>5,6</sup>, Csaba Vizler<sup>4</sup>, Beat Schwaller<sup>3</sup>, László Pecze<sup>3</sup>

<sup>1</sup>Neuroscience Research Center, Suleyman Demirel University, Isparta, Turkey

<sup>2</sup>Department of Biophysics, Faculty of Medicine, Suleyman Demirel University, Isparta, Turkey

<sup>3</sup>Anatomy, Department of Medicine, University of Fribourg, Route Albert-Gockel 1, Fribourg, Switzerland

<sup>4</sup>Institute of Biochemistry, Biological Research Center of the Hungarian Academy of Sciences, Szeged, Hungary

<sup>5</sup>Institute of Chemistry, Faculty of Materials Science and Engineering, University of Miskolc, Miskolc-Egyetemváros, Hungary

<sup>6</sup>Acheuron Ltd. Szeged, Hungary

\*Running title: Menthol-evoked  $\text{Ca}^{2+}$  responses

To whom correspondence should be addressed: Laszlo Pecze, Anatomy, Department of Medicine, University of Fribourg, Route Albert-Gockel 1, CH-1700 Fribourg, Switzerland, Tel: ++41 26 300 85 11, Fax: ++41 26 300 97 33, E-mail: laszlo.pecze@unifr.ch

**Keywords:**  $\text{Ca}^{2+}$  oscillations, TRPM8, menthol, oxidative stress, purinergic signaling

Download English Version:

<https://daneshyari.com/en/article/8286902>

Download Persian Version:

<https://daneshyari.com/article/8286902>

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