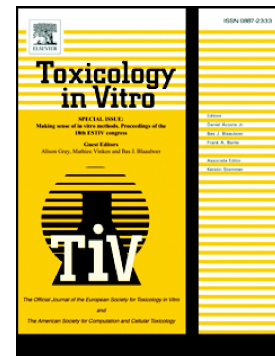


## Accepted Manuscript

Assessing light-independent effects of hypericin on cell viability, ultrastructure and metabolism in human glioma and endothelial cells

Veronika Huntosova, Marta Novotova, Zuzana Nichtova, Lucia Balogova, Maria Maslanakova, Dana Petrovajova, Katarina Stroffekova



PII: S0887-2333(17)30005-X  
DOI: doi: [10.1016/j.tiv.2017.01.005](https://doi.org/10.1016/j.tiv.2017.01.005)  
Reference: TIV 3908

To appear in: *Toxicology in Vitro*

Received date: 25 July 2016  
Revised date: 1 December 2016  
Accepted date: 9 January 2017

Please cite this article as: Veronika Huntosova, Marta Novotova, Zuzana Nichtova, Lucia Balogova, Maria Maslanakova, Dana Petrovajova, Katarina Stroffekova, Assessing light-independent effects of hypericin on cell viability, ultrastructure and metabolism in human glioma and endothelial cells. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Tiv(2017), doi: [10.1016/j.tiv.2017.01.005](https://doi.org/10.1016/j.tiv.2017.01.005)

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.

**Assessing light-independent effects of hypericin on cell viability, ultrastructure and metabolism in human glioma and endothelial cells.**

Veronika Huntosova<sup>1</sup>, Marta Novotova<sup>2</sup>, Zuzana Nichtova<sup>2</sup>, Lucia Balogova<sup>3</sup>, Maria Maslanakova<sup>3</sup>, Dana Petrovajova<sup>3</sup>, and Katarina Stroffekova<sup>3\*</sup>

<sup>1</sup> Center for Interdisciplinary Biosciences, PJ Safarik University in Kosice, Slovakia;

<sup>2</sup>Department of Muscle Cell Research, Institute of Molecular Physiology and Genetics, Slovak Academy of Science, Bratislava, Slovakia;

<sup>3</sup>Department of Biophysics, Faculty of Natural Sciences, PJ Safarik University, Jesenna 5, Kosice, Slovakia;

\* corresponding author email:katarina.stroffekova@upjs.sk

**Highlights**

- hypericin results in the swelling of the Golgi apparatus
- hypericin causes fragmentation and decreased ER granularity
- hypericin increases ROS production in glioma and endothelial cells
- hypericin attenuates cell metabolism more in glioma than in endothelial cells
- hypericin results in apoptosis more in endothelial than in glioma cells

Download English Version:

<https://daneshyari.com/en/article/5562707>

Download Persian Version:

<https://daneshyari.com/article/5562707>

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