Abstract

Evaluation of In Vitro Anti-Proliferative Activity of St. John’s Wort (*Hypericum perforatum* Linn.) Plant Extract on Cervix Adenocarcinoma †

Rana Kavurmacı ¹ and Serap Yalcin ²,*

¹ Department of Advanced Technology, Ahi Evran University, Kirsehir 40000, Turkey; rkavurmaci@hotmail.com
² Department of Molecular Biology and Genetics, Ahi Evran University, Kirsehir 40000, Turkey
* Correspondence: sylcin@ahievran.edu.tr; Tel.: +903862804543
† Presented at the 2nd International Conference on Natural Products for Cancer Prevention and Therapy, Kayseri, Turkey, 8–11 November 2017.

Published: 10 November 2017

Abstract: St. John’s wort (*Hypericum perforatum* L.) is a medicinal plant used for many diseases. *Hypericum perforatum* has strong historical background about the therapeutic potential. In the present study, we have investigated the cytotoxic activity of the *Hypericum perforatum* against cultured cervix adenocarcinoma (HeLa) cell line. Antiproliferative effects of *Hypericum perforatum* on HeLa cells were evaluated by means of the XTT Cell Proliferation Kit (Biological Industries, Israel) according to manufacturer’s instructions, and then the IC50 value was calculated. IC50 value of *Hypericum perforatum* was found as 120 μg/mL. Therefore, this plant may be a potential natural antitumor drug for cervix adenocarcinoma.

Keywords: *Hypericum perforatum* L.; cytotoxicity; cervix adenocarcinoma

© 2017 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (http://creativecommons.org/licenses/by/4.0/).