As a key factor in AMPK and PGC1-α, M. Milanović


References


http://dx.doi.org/10.1016/j.pbj.2017.07.090

PS075

Examination of antiproliferative effects of the horseradish extracts

L. Đurić1,2; D. Četojević-Simin2, M. Milanović1

1 University of Novi Sad, Faculty of Medicine, Department of Pharmacy, Novi Sad, Serbia
2 University of Novi Sad, Faculty of Medicine, Experimental Oncology Department, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia

E-mail address: djuriclarisa@gmail.com (L. Đurić).

Aim: The aim of the study was to investigate in vitro the antiproliferative effects of the horseradish juice and pulp extracts examined on the human tumor cell line MDAMB-231 (ER−, human breast adenocarcinoma). Cell growth was determined by measuring the total protein by colorimetric sulforhodamine B assay. The obtained results (expressed as mean ± SD) were analyzed by Tukey HSD test and the differences were considered statistically significant at p < 0.05.

Results: According to the IC50 parameter (the concentration that inhibited the cell growth by 50%), as an important indicator of the antiproliferative effects, the most pronounced antitumor activity was observed for chloroform juice extract (IC50 = 5.52 ± 1.47 µg/ml). In addition, highly potent was chloroform pulp extract (IC50 = 19.44 ± 3.82 µg/ml), as well as the dichlormethane juice (IC50 = 26.50 ± 4.15 µg/ml) and pulp (IC50 = 26.01 ± 2.45 µg/ml) extracts. On the other hand, significantly lower in vitro antitumor effect was noticed for the butanol pulp extract (IC50 = 114.52 ± 0.28 µg/ml). IC50 values for butanol juice extract, as well as water juice and pulp extracts were higher than 500 µg/ml. Conclusion: The obtained results suggest that A. rusticana is as a significant source of antimutagen agents, especially liposoluble isothiocyanates and as such, it should be recommended for further use in a human nutrition and prevention of cancer.

http://dx.doi.org/10.1016/j.pbj.2017.07.091

PS080

Contribution of the determination of numeric value of adc map in early detection of prostate cancer

Dj Perovic

Faculty of Medicine, University Novi Sad, Serbia

E-mail address: djukaperovic@yahoo.com.

Aim: To define the range of ADC values for the absence of malignant disease, as well as to determine the threshold of ADC values for suspected prostate cancer.