

Global Cancer Conference & Medicare Summit

September 15-17, 2014 Hyderabad International Convention Centre, India

Semecarpus anacardium's nut: A possible remedy for melanoma

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Melanoma is a less common skin cancer than others though it is extremely dangerous if not diagnosed in the early stages. Some drugs are available in market for its treatment but have side effects. Thus plants like *Semecarpus anacardium* can be used as reliable remedy option having anti cancerous properties as described in *Ayurveda*. The present study was carried out to evaluate the cytotoxic effects the *Semecarpus anacardium* nut extracts on Human malignant melanoma (A375) cells. The powdered plant material was extracted using Soxhlet apparatus with Petroleum ether, Chloroform and Methanol. All the extracts were concentrated under vacuum using evaporator and stored in air tight glass containers at 4°C till they are used. The cell line A375 was procured from National Centre for Cell Science, Pune and primary chicken embryo fibroblast cells was cultured from 8 day old chicken embryo. The extracts were tested for their cytotoxic effect in 96-wells tissue culture plate against A375 cell line and primary chicken embryo fibroblast cell culture at different concentration i.e., 100, 10 and 1 mg/ml. The viability of A375 cell line was determined by using Trypan blue dye exclusion method and on the basis of their morphology. The chloroform extract of concentration 10 mg/ml gave best result as it caused death of A431 cell line but not chicken embryo fibroblast cells. So nut of *S. anacardium* can be a safe and herbal treatment alternative for melanoma.

Biography

Pooja Singh completed her BTech (Biotechnology) at the age of 21 years from University Institute of Engineering & Technology, Kurukshetra University, Kurukshetra in 2014. She has published one paper in International Journal of Basic and Applied Biology (IJBAB) and presented a poster in 54th Annual Conference of Association of Microbiologists of India (AMI) 2013.

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