

11<sup>th</sup> World Congress on

# Pharmaceutical Sciences and Innovations in Pharma Industry

February 27-28, 2017 Amsterdam, Netherlands

## Anticancer activity of *Ruellia squarrosa* against human prostate cancer cell line

Muhammad Khurram Afzal, Muhammad Uzair and Bashir Ahmad Chaudhry  
Bahauddin Zakariya University, Pakistan

**R**uellia species are traditionally used for the treatment of flu, fever and inflammation. The aim of this study was to evaluate the anticancer activity of *Ruellia squarrosa* extracts against human prostate cancer (PC3) cell line. Dichloromethane and methanol extracts of aerial and root parts of the plant were made by maceration. Anticancer activity was estimated by MTT assay and percentage inhibition of cells was calculated. Results of MTT showed that 30 mg/ml of dichloromethane extract of root parts of the plant showed moderate anticancer activity (58% inhibition) against PC3 cell line with IC<sub>50</sub> 15.4±0.3. It was concluded that *Ruellia squarrosa* (root) possesses anticancer activity against human prostate cancer (PC3) cell line

khurram.afzal@bzu.edu.pk

Notes: