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## Analysis of anti neoplastic activity for detoxified monocrotaline analogue through insilico docking studies

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Nature is enriched with lot of medicinal plants but with some toxic effect. Some of the Crotalaria spp. are consumed or applied externally against fever, scabies, lung diseases and impetigo while some species induce pulmonary hypertension in laboratory animals. Monocrotaline is one such kind of compound present in *Crotalaria retusa* that has plenty of medicinal values and also has high risk of hepatic necrosis. In the present study *insilico* detoxification through structural modification of monocrotaline is proposed to be a potential drug candidate against many diseases when explored through PASS online. The molecule showed anti neoplastic activity against genes responsible ovarian cancers like BRCA1, MTA2 and testicular germ cell tumor (TGCT) like miRNA-372, SPRY4, BAK1 and KIT-ligand. All the respective proteins retrieved for these genes exhibits hopeful docking results to proceed further for synthesis and invitro studies to analyze the molecule in depth.

## **Biography**

K.Sandeep Solmon has completed his Masters in bioinformatics from University of Madras and did M.Phil in Bioinformatics. His thrust area of research is drug designing in which he is working on hyperthermia and insilico detoxification of molecule for cancer treatment using nanotechnology. He has published 4 research papers in reputed journals.

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