

PRESENTATION

So, Disease-specific regulations of 518 molecules and 217 pathways by the collected drug combinations were identified. These regulated molecules were from 71 biochemical classes such as GPCR, peptidase, transcription factor, microRNA, kinase, ABC transporter and so on.

Here we have the description of molecular regulation of the combination of Curcumin + Nimustine hydrochloride which include the induction of protein degradation, the up/down-regulation of molecule's expression, in this case we have the up regulation of CASP3 and we have the down regulation of PIK3CB (phosphorylation).

We also have the biological regulation data which include the induction of the cell cycle arrest in this case in G2/M phase.

Both the biological and molecular regulation data were linked to their in vivo and in vitro models.

Why are they important? Biological and molecular regulation data were essential for the understanding of the mechanisms underlying the Natural Products' therapeutic effects on a particular drug.

There were a lot of experimental techniques that were applied to identify the molecular and biological regulations for example the qPCR, western-blot and the siRNA. By clicking the 'Molecule Info' buttons we'll have the access to the extended description of each combination

