

## Involvement of NF- $\kappa$ B and HSP70 signaling pathways in the apoptosis of MDA-MB-231 cells induced by a prenylated xanthone compound, $\alpha$ -mangostin, from *Cratoxylum arborescens* [Retraction]

Ibrahim MY, Hashim NM, Mohan S, et al. Involvement of NF- $\kappa$ B and HSP70 signaling pathways in the apoptosis of MDA-MB-231 cells induced by a prenylated xanthone compound,  $\alpha$ -mangostin, from *Cratoxylum arborescens*. *Drug Design, Development and Therapy*. 2014;8:2193–2211 was published subsequent to Ibrahim MY, Hashim NM, Mohan S, et al.  $\alpha$ -Mangostin from *Cratoxylum arborescens* demonstrates apoptogenesis in MCF-7 with regulation of

NF- $\kappa$ B and Hsp70 protein modulation in vitro, and tumor reduction in vivo. *Drug Design, Development and Therapy*. 2014;8:1629–1647.

When comparing the papers it becomes apparent that they have an unacceptably high degree of similarity and re-use. Further, there is no clear scientific distinction between the cell lines and the results in both. Accordingly, the Editor-in-Chief and Publisher have issued this Notice of Retraction.

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