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Benefits of carotenoid against hepatocellular carcinoma: Saffron insights

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Lieads to limited therapeutic options. Therefore, novel approachesto restrainsuch a diseaseare much needed. Saffron and its active constituents were reported to have antioxidant, anti-inflammatory, and anti-tumor properties. The aim of this study was to investigate chemopreventive action of crocin, one of the promising active constituents of saffron, against diethylnitrosamine (DEN)-induced liver cancer in rats, and the possiblemechanisms by which crocin exerts its anti-tumor effects. Findings reported herein demonstrated the anti-proliferative and pro-apoptotic properties of crocin when administrated in DEN-treated rats. Additionally, crocin exhibited anti-inflammatory properties that inhibited NF-kB, among other inflammatory markers. According to our network analysis, NF-kB was identified as a regulatory hub, and therefore, a candidate therapeutic drug target. Together, these findings nominates crocin as a candidate chemopreventive and therapeutic agent against HCC.

Biography:

Amr Amin has completed his PhD at University of Illinois at Chicago, and received a post-doctoral training in the field of molecular genetics at the University of Pennsylvania School of Medicine. He started his academic career at UAE University where he serves now as a Full Professor of Cell Biology. Amr's research focuses on ways to control cancer, particularly liver cancer. He published many research articles and reviews and serves as reviewer and as an editorial member of many specialized peer-reviewed journals. He is also a member of many specialized societies and the sole recipient of many national and international scientific awards.