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Anticancer efficacy of dietary medicinal compounds

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Dietary medicinal compounds have gained significant attention over the last several decades due to their notable beneficial properties, including anti-inflammatory and anti-cancer activities. Of note, plant based medicinal compounds have traditionally been practiced treating various health-related problems due to their safe and non-deleterious effects. Importantly, the ability of phytochemicals to target multiple signaling pathways in cancer cells, makes them the promising chemo preventive agents against highly aggressive and often difficult to treat human malignancies, including pancreatic and triple-negative breast cancers that also lack definite prognostic markers. Given that the ongoing therapeutic approaches are often associated with the development of tumor resistance mechanisms as well as serious adverse effects, which pose major challenges in cancer treatment, the rational combination strategies are needed as alternative approaches for an effective treatment and management of human cancers. To that end, phytochemicals have also been explored in combination with various chemotherapeutic agents, to define their pharmacokinetics and pharmacodynamics properties, with an overall objective of overcoming tumor resistance mechanisms and adverse side effects. The goal is to summarize the mechanistic insights of phytochemicals and their combination with the known therapeutic approaches in cellular systems, preclinical models and clinical settings with particular emphasis on pancreatic and triple negative breast cancers.

Biography

Ravi Sahu obtained his B.Sc. in biology, Physics and chemistry from Allahabad University and M.Sc. in biochemistry from Dr. R.M.L. Avadh University in India. He completed Ph.D. from Sanjay Gandhi Postgraduate Institute of Medical Sciences at Lucknow, India. He then began his postdoctoral career determining the role of natural compounds in cancer chemoprevention at University of Pittsburgh at Pittsburgh, PA and Texas Tech University Health Sciences Center at Amarillo, TX. His second postdoctoral work at Indiana University was focused on investigating the impact of various pro-oxidative stressors in the pathogenesis of cutaneous immunity and non-melanoma skin cancer. Currently, he is an Assistant Professor in the Department of Pharmacology and Toxicology, Boonshoft School of Medicine at Wright State University, Ohio, United States.