



CHAPTER 7

Use of Nanotechnology with Essential Oils in the Treatment of Cancer

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Abstract:

The pharmaceutical, cosmetic, as well as food industries are the industries which employ EO as crucial constituent of prodrugs. These possess strong potential against cancer, infection as well as free radicals, but limit its use due to low stability, high volatility, thermolabile, degradation due to humidity or oxidation. Nano-medicines are the answer of these problems based on developing nano-formulation which effectively encapsulate the nanoparticles to overcome above mentioned problems. The potential of EOs as anticancer prodrugs is considerable but not fully exploited. This chapter focuses on the recent progress towards the practical application of EOs in cancer therapy based on nanotechnology applications.

Keywords: EOs, Cancer, Nanotechnology, Free radicals, Prodrugs