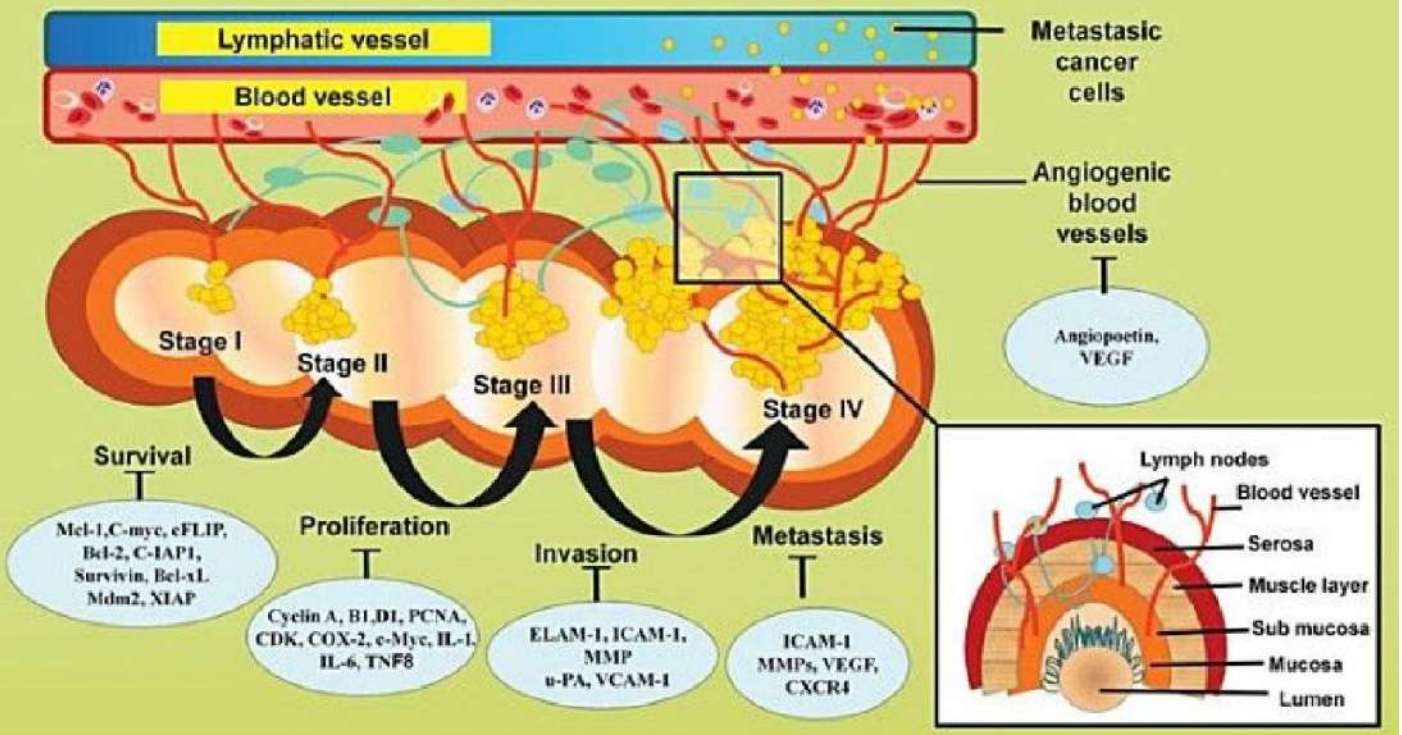
NUTRACEUTICALS Basic Research/Clinical Applications

ADVANCES IN NUTRACEUTICAL APPLICATIONS IN CANCER

RECENT RESEARCH TRENDS AND CLINICAL APPLICATIONS



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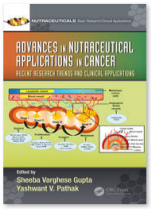

Chapter

Mechanism and Role of Probiotics in Suppressing Bowel Cancer

By Aaishwarya B. Deshmukh, Jayvadan K. Patel, Bharat Mishra

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ABSTRACT

Bowel cancer or Colorectal Cancer (CRC) represents malignancy of the gastrointestinal tract. Diet has an essential function in the pathophysiological mechanism of bowel cancer, as research on migrants has demonstrated that differences in dietary habits and lifestyle are responsible for the occurrence of bowel cancer rather than racial factors. CRC characterizes the foremost community health problem. Chemotherapy and radiotherapy are adjuvant strategies for the treatment of colorectal tumor; however, they differ in their success rates in terms of reappearance and survival after disease. Along with conventional therapy like surgery and chemotherapy, probiotics can be used in combination to improve the chemotherapy-induced secondary effects. Probiotics have the ability to reduce the risk of bowel cancer by amending the intestinal microbiota and immune system by species-strain-dependent mechanisms. Auxiliary studies are required to characterize and standardize few variables before elucidating the mechanism of probiotics-induced protective effects on bowel cancer.

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