CHAPTER 8

FUTURE SCOPE OF STUDY

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Recent scientific approaches and development of new methods suggest exciting promises for probiotic and prebiotic research and its application in human well-being. Novel tools and techniques allowing studies on human being and with existing gut microflora along with the development of systems that quantify the stages of health benefits, will definitely motivate the probiotic research field forward. The host-probiotic interactions and the impact of the different environmental factors such as, drugs, nutrients etc. should be standardized in the future. People in developing and developed countries could benefit from different probiotic products which act on several infectious diseases but the lack of reasonable and standard probiotic strains is a limitation. Research on certain beneficial microbes could suggest a prominent decision to decrease the level of heavy metals, absorbed from food. Future research should take action to implement different programmes to identify new strains from fermented foods and other possible sources that can diminish the danger of crucial diseases such as, malnutrition, infections and more precisely diabetes. Most of the innovative researches in cancer prevention utilizing probiotic bacteria have been carried on animal models only. So, clinical trials in humans are necessary to promote these bacteria as a suitable drug delivery system for non-invasive cancer treatment. Eventually, a collaborative approach is necessary which will aid the formulation of personalized medicine to create dose-response affairs for treatment with probiotics.