



POTENTIALITY OF ANTICANCERUS AGENTS FROM MICROORGANISMS FOR TREATMENT OF CANCER

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Abstract:

Cancer belongs to the main reason of morbidity and mortality in the world. Despite much progress in the diagnosis and treatment of cancer, it is one of the main reason of death worldwide. Cancerous cells are altered in host cells without the natural mechanism controlling their normal growth. The standard method of treatment often do not lead to the expected effects. Therefore, it is important to find new more effective treatment. One of the most promising research direction is immunotherapy, including the use of specific types of microorganism amongst them are bacterial protein and peptides are promising group of bioactive compounds and potential anticancer drug. Some of them including anticancer antibiotics (Actinomycine-D, bleomycin, Doxorubicin, Mitomycin c) are already used in cancer treatment. This review shows the current literature data regarding the anticancer activity of protein and peptides originated from bacteria. It provides an overview of selected microorganism which are already in use or that are in experiment phase. Nevertheless the kind of treatment can supplement conventional anticancer therapy, giving cancer patient a chance and hope of recovery.

Biography:

D. K. Acharya has completed his PhD at the age of 25 years from Gujarat Vidyapith, Ahmedabad, India. He is Associate Professor, at Department of Medical Technology, B. N. Patel Institute of Paramedical and Science,



Anand, Gujarat, India. He has published more than 15 papers in reputed journals and has been serving as an editorial board member of reputed journals and magazine. He also wrote a book/book chapters. He gave many lead talks and had invited as speaker in various conferences. He has interest in study of antibiotic/anticancer production from actinomycetes, lignocellulolytic fungi and PGPR.

Recent Publications:

1. Optimization for cellulase production by *Aspergillus niger* using saw dust as substrate, African Journal of Biotechnology, Vol. 7 No. 22 (2008)
2. Enzyme profiling of lignocellulolytic fungi, International Journal of Biological and Chemical Sciences, Vol. 4 No. 2 (2010)
3. Optimization for β -amylase production by *Aspergillus oryzae* using submerged fermentation technology, Vol. 1(4) pp. 01-10 January 2014

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