Ananda M Chakrabarty, J Bacteriol Parasitol 2014, 5:4
http://dx.doi.org/10.4172/2155-9597.S1.008

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Congress on
Bacteriology & Infectious Diseases
November 17-19, 2014 DoubleTree by Hilton Hotel Chicago-North Shore, USA

# Microbial pathogenesis and cancer: New approaches to bacterial anticancer drug development

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Many pathogenic bacteria are known to cause diseases, old and new, such as plague, tuberculosis, cholera, pneumonia, typhoid and others. So, bacterial pathogenesis is synonymous with disease causation and not disease treatment or prevention. Yet, if one goes back in time more than 120 years, a well-known cancer surgeon in Memorial Hospital in New York City, now known as Sloan-Kettering Memorial Cancer Center, Dr. William Coley, published papers in 1890s and in fact came up with a bacterial concoction, known as Coley's toxin, that could allow cancer regression in his patients. Today, use of live or disabled bacteria, including their products, is gaining ground for the treatment of cancer and other diseases including HIV/AIDS. This talk will illustrate how live bacteria or bacterial proteins and peptides are undergoing various laboratory and clinical trials in our efforts to develop a new strategy for cancer therapy and prevention.

## Biography

Ananda M Chakrabarty is a Distinguished University Professor at the University of Illinois at Chicago. He is the co-founder of two start-up companies, CDG Therapeutics Inc. in Chicago and Amrita Therapeutics in India. He is one of the authors of a fictional book Bugging Cancer that deals on this topic.

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