

Therapeutics from Cyanobacteria: A Review of Cyanobacteria-Derived Compounds as Anti-cancer Drug Leads

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ABSTRACT

Cancer is a group of illness that collectively are the second highest cause of death globally after cardiac disease. They can also affect the social, psychological, physical and economic well-being of individuals, families and societies. Novel drug discovery for new cancer chemotherapeutics is a lengthy, complex, and costly process. Cancer drugs that are currently in clinical use have several drawbacks, including serious undesirable side-effects and the development of resistance to anticancer drugs. Thus, the development of novel effective and low toxicity cancer drugs is a priority for medical science. In recent decades, natural products-derived cancer drug discovery has become a promising avenue for drug development and an increasing number of studies have been published. Cyanobacteria have potential as a source for novel drug discovery. Cyanobacterial bioactive metabolites have a large diversity of chemical structures, modes of action and therapeutic targets. Multiple cyanobacteria-derived compounds have successfully reached clinical trials, and some have already been approved by regulatory authorities including the FDA as anticancer drugs. This review highlights the therapeutic potential of cyanobacteria in cancer drug discovery and summarizes the cyanobacterial compounds already used as cancer chemotherapies. The review aims to highlight cyanobacteria as sources of potential new drugs and focus future research on this field.

Keywords: Cyanobacteria, Bioactive compounds, Drug discovery, Anti-cancer compounds, Apoptosis, Clinical trials.

INTRODUCTION

Cancer is one of the most widespread and highest mortality diseases worldwide.^[1-2] Approximately 18 million new cases of cancer were recorded globally in 2018, resulting in approximately 10 million deaths.^[3-5] The prevalence of cancer has been increasing significantly over the past decades due to risks associated with increased age, environmental factors and changes in lifestyle.^[2-6] Non-Melanoma Skin Cancer (NMSC) is the most reported cancer in North America, Australia and New Zealand, each of which have amongst the highest incidence rates globally.^[6] As well as being amongst the most diagnosed types of cancer, lung and breast cancer are major causes for cancer-related death in both males and females.^[6] The causes of cancer are numerous and vary widely. Cancers may develop due to both external (e.g., tobacco,

chemicals, radiation, and infectious organisms) and internal factors (e.g., genetic weaknesses, immune conditions).^[2-6]

Chemotherapy is one of the most frequently practiced and most effective treatments for many types of cancer as it halts the growth and proliferation of cancer cells, and may also preferentially kill them.^[7] Chemotherapeutic agents vary on the basis of their therapeutic efficacy and side effects. Certain chemotherapeutics have potent cytotoxic effects, yet many also have serious side effects including nausea, vomiting, hair loss, fatigue, hearing impairment, decreased immune function and susceptibility to infection, low blood platelet levels, decreased red and white blood cells count, loss of appetite and bowel problems.^[2-6] Moreover, chemotherapeutic agents are generally expensive due to limited supply. The process of cancer drug development is costly and time consuming. Notably, some tumour cells develop resistance against cancer chemotherapeutics, including the vinca alkaloids and taxanes, which is a major reason for the failure of chemotherapeutic treatments against some cancers.^[2-6] Furthermore, new varieties of cancer, such as glioblastoma are continually arising and increasing in prevalence, making cancer one of the leading causes for human death and one of the most

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