



## **Catharanthus roseus: Current Research and Future Prospects**

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This book studies the production of indole alkaloids in the important medicinal plant *Catharanthus roseus* (L.) G. Don, commonly known as periwinkle. The anticancer alkaloids, viz. vinblastine and vincristine, are mainly present in the leaves of *C. roseus* and inhibit the growth of cancer cells by hindering the formation of mitotic apparatus during cell division. Further, vinblastine helps increase the chance of surviving childhood leukemia while vincristine is used to treat Hodgkin's disease. Great efforts have been made to produce these alkaloids at a large scale by the culture of plant cells. In view of this worldwide demand for commercial use, this book explores how to maximize the production of anticancer alkaloids from *C. roseus*. This reference book will be helpful for research students, teachers, ethnobotanists, pharmacologists and herbal growers who have a strong interest in this anticancer medicinal plant of paramount importance.

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