

Biodiversity, Natural Products and Cancer Treatment

Victor Kuete



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This book is the first of its kind in bringing together biodiversity, chemical ecology, phytochemistry and cancer therapy. The highlight of the book is an exhaustive compilation of scientific data on biodiversity of medicinal plants, biodiversity and metagenomics, chemical ecology of medicinal plants, chemical ecology of marine organisms, natural products from terrestrial microbial organisms with activity towards cancer cells, marine organisms, ethnopharmacology and phytotherapy, contribution of African flora in world fight against cancer, natural products derived from terrestrial plants with activity towards cancer cells and established anticancer drugs from natural origin.

The book discusses the state-of-the-art of each topic to serve as reference resource tools for graduate students as well as scientists and scholars in pharmaceutical sciences, pharmacology, organic chemistry and biochemistry, pharmacognosy, phytochemistry, ethnomedicine and ethnopharmacology, complementary and alternative medicine, medical and public health sciences and others. It includes cutting-edge developments in anticancer discovery from both medicinal plants and organisms.

Contents:

- Biodiversity of Medicinal Plants (Kirsten Yacoub, Katharina Cibis and Corinna Risch)
- Biodiversity and Metagenomics (Eva-Maria Surmann and Thomas Efferth)
- Chemical Ecology of Medicinal Plants (Christian Kersten, Stephanie Lenz and Janina Wich)
- Chemical Ecology of Marine Organisms (André Antunes and Thomas Efferth)
- Natural Products from Terrestrial Microbial Organisms with Cytotoxic Cell Cycle Inhibitors (*Theresa Dreis, Caroline Gartner, Julia Krebs and Mathias Schneider*)
- Marine Compounds (Jennifer Honek and Thomas Efferth)
- Ethnopharmacology and Phytotherapy (Ariane Löhnert, Susanne Löhnert, Viktoriya Mogilevskaya and Sandra Schick)
- Contribution of African Flora in a Global Fight Against Cancer (Victor Kuete and Thomas Efferth)
- Natural Products Derived from Terrestrial Plants with Activity Towards Cancer Cells (Sonia Falenska, Ina Kirmes, Stephanie Kletting, Irini Karagianni and Karen Duffy)
- Established Anticancer Drugs from Natural Origin (*Clara Becker, Kerstin Hoffmann, Laura Hoffmann, Tanya King, Franziska Faulstich, Katrin Viertel, Victor Kuete and Thomas Efferth*)

Readership: Graduate students and scientists in pharmaceutical sciences, pharmacology, organic chemistry, biochemistry, pharmacognosy, phytochemistry, ethnomedicine & ethnopharmacology, compementary & alternative medicine, public health.

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