



Alkaloids: Chemical and Biological Perspectives

S. William Pelletier

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Volume 7 of Alkaloids: Chemical and Biological Perspectives appears under the aegis of a new publisher: the distinguished firm of Springer Verlag New York, Inc. This volume presents three timely reviews on alkaloids: Chapter 1 reviews the homoerythrina and related alkaloids, a group of compounds occurring in seventeen species that are native to countries bordering the western Pacific. Since the last review in 1981, the number of these alkaloids has doubled. Chapter 2 is a comprehensive review of the carbon-13 NMR spectra of steroid alkaloids. Because more than 350 plant species have yielded steroid alkaloids and these alkaloids exhibit a wide spectrum of biological activities, including teratogenicity, this catalog of spectral and physical data should prove very useful to workers in this field. Chapter 3 presents a detailed review of proton and carbon-13 NMR shift assignments and physical constants of norditerpenoid alkaloids. This chapter is an extensive supplement to the review that appeared in Volume 2 of this series. In addition to the catalog of spectral and physical data, this chapter includes tables of proton and carbon shift assignments, a table of the occurrence of alkaloids in plant species, an index of all X-ray crystal structure determinations of norditerpenoid alkaloids, and tables containing molecular formulas versus calculated high-resolution mass values and calculated high-resolution mass values versus molecular formulas of nor diterpenoid alkaloids. Each chapter in this volume has been reviewed by an expert in the field. Indexes for both subjects and organisms are provided.



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