# Pyridine Alkaloids from a *Parthenium* Hybrid

Galal T. Maatooq[a,*] and Joseph J. Hoffmann[b]

University of Mansoura[a], Faculty of Pharmacy, Department of Pharmacognosy, Mansoura 35516, Egypt. E-mail: galaltm@mans.edu.eg
University of Arizona[b], College of Agriculture, Office of Arid Lands Studies, Bioresources Research Facility, 250 E. Valencia Road, Tucson, AZ 85706

* Author for correspondence and reprint requests

Z. Naturforsch. **57c,** 211–215 (2002); received November 5/December 21, 2001

*Parthenium hybrid*, Asteraceae, Pyridine Alkaloids

Two pyridine alkaloids were isolated from the derubberized resin of the hybrid *Parthenium argentatum* × *P. tomentosa*. These alkaloids are (±)-N-[4-(1-aminoethyl) phenyl]-4-[3-methyl-butenylidine]-1, 4-dihydropyridine (guayulamine A) and (±)-N-[4-(1-aminoethyl) phenyl]-4-[4-methylpentenylidine]-1, 4-dihydropyridine (guayulamine B). The structures were established by one- and two-dimensional NMR spectroscopy and mass spectrometry.