New Pyridine Alkaloids from Rove Beetles of the Genus Stenus (Coleoptera: Staphylinidae)

Inka Lusebrink^a, Konrad Dettner^a, Andreas Schierling^a, Tobias Müller^b, Cristina Daolio^c, Bernd Schneider^c, Jürgen Schmidt^d, and Karlheinz Seifert^{b,*}

Department of Animal Ecology II, University of Bayreuth, D-95440 Bayreuth, Germany b Department of Organic Chemistry, NW II, University of Bayreuth, D-95440 Bayreuth,

Germany. Fax: 49–921–555358. E-mail: karlheinz.seifert@uni-bayreuth.de ^c Max Planck Institute for Chemical Ecology, Hans-Knöll-Str. 8, D-07745 Jena, Germany ^d Leibniz Institute of Plant Biochemistry, Weinberg 3, D-06120 Halle, Germany

* Author for correspondence and reprint requests

investigated.

Z. Naturforsch. **64c**, 271 – 278 (2009); received November 20/December 29, 2008 Three new pyridine alkaloids were detected in the pygidial glands of some Stenus species. The chemotaxonomic significance of the occurrence of these alkaloids and stenusine in different Stenus species is discussed. The antimicrobial properties of (Z)- and (E)-3-(2methyl-1-butenyl)-pyridine and the deterrent activities of stenusine and norstenusine were

Key words: Rove Beetles, Stenus, Stenusine, Pyridine Alkaloids