



Screening

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- Projekte
- Mitarbeiter
- Publikationen
- Kooperationen

Aktive Filter

Journal / Verlag: Phytochemistry Alle Filter entfernen

Suchfilter

- Typ der Publikation
 - Publikation (1)
- Erscheinungsjahr
 - 2004 (1)
- Journal / Verlag
 - Inorganica Chimica Acta (1)
 - Polyhedron (1)
 - World J Pharmaceutical Res (1)
 - Afr. J. Tradit. Complem (1)
 - Biochem. Bioph. Res. Commun (1)
 - Biochem. Syst. Ecol (1)
 - Biol. Chem (1)
 - Bioorg. Med. Chem (1)
 - Chem. Commun (1)
 - Dalton Trans (1)
 - Eur J Med Chem (1)
 - Fitoterapia (1)
 - J Ethnopharmacol (1)
 - J Mass Spectrom. (1)
 - J Plant Physiol (1)
 - J. Agric. Food Chem (1)
 - J. Am. Chem. Soc (1)
 - J. Ethnopharmacol (1)
 - J. Exp. Bot. (1)
 - J. Neuroimmunol (1)
 - J. Plant Growth Regul (1)
 - J. Serb. Chem. Soc. (1)
 - Lat. Am. J. Pharm (1)

- Mar. Drugs (1)
 - Oncogene (1)
 - Phytochemistry (1)
 - Planta Med (1)
 - Revista Brasileira de Farmacognosia (1)
 - Z Naturforsch B J Chem Sci (1)
 - Zeitschrift für Mykologie (1)
- **Autor** Nach Häufigkeit alphabetisch sortiert
 - Arnold, N. (1)
 - Lübken, T. (1)
 - Porzel, A. (1)
 - Schmidt, J. (1)
 - Wessjohann, L.A. (1)

- Ergebnisse als:
- Druckansicht
- Endnote (RIS)
- BibTeX
- Tabelle: CSV | HTML

Sortieren nach: Erscheinungsjahr Typ der Publikation

Zeige Ergebnisse 1 bis 1 von 1.

Publikation

Lübken, T., Schmidt, J., Porzel, A., Arnold, N. & Wessjohann, L.A. Hygrophorones AG: fungicidal cyclopentenones from *Hygrophorus* species (Basidiomycetes) *Phytochemistry* **65**, 1061-1071, (2004) DOI: 10.1016/j.phytochem.2004.01.023

- Abstract
- Internet
- RIS
- BibTeX

Twenty new 5-(hydroxyalkyl)-2-cyclopentenone derivatives (hygrophorones) could be isolated from *Hygrophorus latitabundus*, *H. olivaceoalbus*, *H. persoonii*, and *H. pustulatus*. Their fungicidal activity was exemplarily tested. The hygrophorones have structural similarities to the antibiotic pentenomycin. Chemically, hygrophorones are 2-cyclopentenones with hydroxy or acetoxy substituents at C-4 and/or C-5. An odd-numbered 1' oxidized alkyl chain (C11, C13, C15, or C17) is attached at C-5. In addition, from *H. persoonii* the new γ -butyrolactone derivative [5-(E)-2-hydroxytetradexylidene-5H-furan-2-one] could be isolated. Some hygrophorones are responsible for the color reaction of the stipes of these fungi upon treatment with potassium hydroxide solution. Structural elucidations are based on 1D (¹H, ¹³C) and 2D (COSY, NOESY, HSQC, HMBC) NMR spectroscopic analyses as well as HR-FT-ICR-MS investigations.