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5 Naturwissenschaften — Sciences naturelles — Natural Sciences

576.8 Mikrobiologie. Bakteriologie. Parasitologie — Microbiologie. Bactériologie. Parasitologie — Microbiology. Bacteriology. Parasitology

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Rezensionen — Analyses — Reviews.

Watt, John Mitchell and Breyer-Brandwijk, Maria Gerdina: The Medicinal and Poisonous Plants of Southern and Eastern Africa. 2nd Edition. 1457 pp. ill. — Edinburgh: E. & S. Livingstone 1962. £ 12.12 s.

Dieses bekannte Werk über die Medizinalpflanzen Südafrikas ist nach dreißig Jahren in stark erweitertem Umfang in zweiter Auflage erschienen. Sein Titel ist von den Autoren leicht abgeändert worden, da es jetzt auch viele Angaben über Eingeborenen-Heilpflanzen enthält, die ihr Verbreitungsgebiet in Ostafrika haben. Die Mehrzahl der aufgeführten Daten betrifft aber weiterhin südafrikanische Spezien.

Dem Aufbau der zweiten Auflage dieses Werkes liegt nicht mehr ein botanisch-phylogenetisches System zugrunde, sondern Familien, Genera und Spezien werden in alphabetischer Reihenfolge präsentiert, wobei die Phanerogamen den Kryptogamen vorangestellt werden. Diese einfache Grundkonzeption hat bei der Fülle der verarbeiteten Literaturangaben und dem sich daraus ergebenden Buchumfange seine volle Berechtigung. Bei jeder Species werden womöglich Angaben über technische und/oder medizinische Verwendungsweisen dem betreffenden Abschnitt vorausgeschickt. Handelt es sich bei einer Pflanzenart um eine eingeführte oder um eine solche mit weitem Verbreitungsgebiet, so sind auch außerafrikanische Fakten verzeichnet. Doch auch viele ethnologisch interessante Angaben und magische Verwendungsarten der Eingeborenen werden aufgeführt. Wie alle Angaben sind auch diese mit dem entsprechenden Bibliographievermerk versehen.

Einen sehr breiten Raum nehmen vielfach die Ausführungen über die chemische Zusammensetzung einer Species ein. Zusammenfassende, übersichtliche Tabellen der chemisch-physikalischen Daten sind mancherorts dieser Aufzählung chemischer Inhaltsstoffe und ihrer Summenformeln, Schmelzpunkte und Prozentzahlen beigegeben. Spezielle chemische Fragenkomplexe werden am Anfang einer Familie gesamthaft behandelt (so z. B. die Pfeilgifte eingangs Apocynaceen oder die Frage des Vorkommens von Blausäure bei den Gramineen). Eine große Fülle von Angaben betreffend Pharmakologie und Toxikologie runden das Bild der bis jetzt bekannten Tatsachen ab. Vor allem veterinär-toxikologische Fragen südafrikanischer Spezien beleuchten die Autoren in all ihren Aspekten.

Die sehr ausführliche Bibliographie mit mehr als 6000 Eintragungen im Anhang des Werkes umfaßt sowohl die ältere wie neuere Literatur (bis 1960). Bei