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R. Agerer et al. (eds.). *Descriptions of ectomycorrhiza 5*. (Einhorn Verlag, P.O. Box 1280, D-73502 Schwäbisch Gmünd. 2001). ISSN 1431-4819. Pp. 225, numerous line-drawings. Price: DM 280.-.

In the fifth issue of this series, 33 species of ectomycorrhiza are described, including representatives of the genera *Alpova*, *Arcangeliella*, *Boletus*, *Cortinarius*, *Descomyces*, *Lactarius*, *Russula*, *Tomentella* and *Xerocomus*, and in addition some unidentified mycorrhiza. For each species a description is given of the morphological and anatomical characters, colour reactions, and chemical properties, as well as extensive discussions and a list of references. The anatomical characters are illustrated in a very elaborate and accurate way with very clear line-drawings. The series is an invaluable tool for all interested in ectomycorrhiza.

V. Antonín & P. Škubla. *Interesting macromycetes found in the Czech and Slovak Republics*. (Fungi non delineati, pars XI. Libreria Mykoflora, Via Ottone Primo 90, I-17021 Alassio. 2000). Pp. 46, 16 coloured photographs, 15 line-drawings. Price: unknown.

Descriptions of 12 species of agarics and boleti from the Czech and Slovak republics are described and illustrated with line-drawings of the microscopical characters and coloured photographs. Three new taxa are described: *Pluteus favrei*, *Gymnopilus josserandii*, and *Hygrophoropsis aurantiaca* var. *robusta*. In addition one new combination, viz. *Hemimycena delectabilis* var. *bispora* is proposed. All species are extensively described with their macro- and micromorphology and discussed, and references to useful literature are given.

G. Baiano, D. Garofoli & M. Fillippa. *Ascomycetes interessanti del Nord Italia*. (Fungi non delineati, pars XII. Libreria Mykoflora, Via Ottone Primo 90, I-17021 Alassio. 2000.) Pp. 74, 16 coloured photographs, numerous line-drawings. In Italian. Price: unknown.

Volume twelve of *Fungi non delineati* deals with rare ascomycetes from Italy, which are fully described and illustrated with photographs and line-drawings of the microscopical features. Eleven species of *Peziza* (*P. merdae*, *P. acroornata*, *P. coquandi*, *P. saliciphila*, *P. luteoloflavida*, *P. maximovicii*, *P. azureoides*, *P. phlebospora*, *P. pseudovesiculosa*, *P. brunneoatra* and *P. irina*), two species of *Helvella* (*H. aestivalis*, *H. branzeiana* and *H. confusa*) and *Spooneromyces helveticus* and *Microstoma protracta* are included in the work. *Helvella aestivalis* is neotypified with a collection from France.

A. Bidaud, P. Moëgne-Loccoz & P. Reumaux. *Atlas des Cortinaires. Pars X*. (Editions Fédération Mycologique Dauphiné-Savoie, 70 Rue Edison, F-69330 Meyzieu. 2000.) Pp. 411–526, 62 sheets with descriptions and line-drawings, coloured plates 262–310. In French. Price: FF 580; € 89,-.

Volume ten of this prestigious French series entirely devoted to the large genus *Cortinarius* contains two parts. Pars X(1) is devoted to the subgenus *Myxacium* with 96 taxa described and illustrated, including an impressive number of new species, varieties and forms. The second part (Pars X(2)) is devoted to subgenus *Hydrocybe*, sect. *Castanei* with 24 taxa. Besides the loose-leafed plates and descriptions, each part contains a booklet with taxonomic and nomenclatural comments, and as the authors call 'attempts to dichotomous keys'. Again this publication illustrates the rather big variety encountered in the notoriously difficult genus *Cortinarius*, and an attempt to solve the problems involved with this variability.

A. Bidaud, P. Moëgne-Loccoz & P. Reumaux. *Atlas des Cortinaires. Pars XI*. (Editions Fédération Mycologique Dauphiné-Savoie, 70 Rue Edison, F-69330 Meyzieu. 2001.) Pp. 527–626, 60 sheets with descriptions and line-drawings, coloured plates 311–357. In French. Price: FF 580; € 89,-.

The eleventh part treats subgenus *Hydrocybe*, sect. *Hydrocybe* (Pars XI(1)) and of subgenus *Phlegmacium* sect. *Calochroi* (Pars X(2)). This part follows the concept of the previous parts of this series, and is equally well got-up. Again many new taxa are proposed.

F.S. Dobson. *Lichens: An illustrated Guide to the British and Irish Species. 4th ed.* (Richmond Publishing Co., P.O. Box 963, Slough, SL2 3RS, England. 2001.) ISBN 0-85546-094-6 (Paperback); 0-85546-093-8 (Hardcover). Pp. 431, with numerous coloured photographs, line-drawings and distribution maps. In English. Price: £ 45 (Hardback), £ 30 (Paperback).

This is the fourth, fully revised edition of the well-known Lichen guide by Dobson. The text has been updated with respect to nomenclature and data on occurrence, distribution and ecology. The book covers the common species in Great-Britain and Ireland and a selection of rarer species. Clear keys and tables to the genera and species are given, as well as elaborate line drawings of microscopic and other diagnostic structures. The c. 450 species are treated alphabetically according to genus.

New in this edition are the full-colour photographs that have been included, which greatly improves the attraction of this book, and facilitates identification. This book certainly will find its way to lichenologists and naturalists in general.

R.T.V. Fox (ed.). *Armillaria Root Rot: Biology and control of Honey Fungus*. (Intercept Ltd., P.O. Box 716, Andover, Hampshire SP10 1YG, United Kingdom. 2000.) Pp. 222, 10 coloured photographs, numerous illustrations. Price: £ 47.50.

This book is entirely devoted to *Armillaria*, the Honey Fungus, and deals with various aspects. The book is written by a collective of 10 authors from the United Kingdom, the Netherlands, and Pakistan. It is divided into five sections. Section one deals with the biology of *Armillaria* with three contributions on biology and life-cycle (R.T. Fox), ecology and epidemiology (A. Termorshuizen), and quantitative aspects of the epidemiology (A. Lamour & M. Jeger). Section two deals with diversity, with chapters on taxonomy and nomenclature (D.N. Pegler), and molecular methods to detect and identify *Armillaria* (A. Pérez-Sierra, D. Whitehead and M. Whitehead). Section three deals with pathogenicity (R.T. Fox). Part four handles with control, with contributions on the extent of losses and aims for managing

Armillaria (R.T. Fox), culturing methods (R.T. Fox), chemical control (J.S. West), and biological and integrated control (F. Raziq). The final section tries to answer all the questions about *Armillaria* (R.T. Fox). And index facilitates the use of the book. This well-edited and printed book on this important pathogenic fungus will give an up-to-date overview of the state of affairs in *Armillaria*, valuable to all pathologists and ecologists confronted with this fungus, as well as teachers and other people intrigued by this organism.

J.C. Frisvad, P.D. Bridge & D.K. Arora (eds.). *Chemical fungal taxonomy*. (Marcel Dekker AG, Hutgasse 4, Postfach 812, CH-4001 Basel. 1998.) ISBN 0-8247-0069-4. Pp. 398, several text-figs. Price: US \$ 195,-.

Recent developments in molecular biology have enabled the use of new techniques, with many implications for fungal taxonomy. However, chemical and molecular approaches have often been applied independently. In this book these approaches have been brought together for the first time. The main instruction for the authors was, according to the editors, to give information on used molecular techniques and their application in systematic mycology. This has resulted in 14 chapters, written by 24 authors. Various subjects are covered in this book: PCR, RFLP, proteins, isozymes, polysaccharides, unsaponifiable lipids, fatty acids, carbohydrates, volatiles, secondary metabolites, all in their relation to fungal taxonomy. Each contribution provides an extensive list of useful references. A cumulative index concludes the book.

A. Gennari. *401 Funghi* (Associazione Micologica Bresadola, Via A. Volta 46, I-38100 Trento. 2001.) Pp. 544, 439 coloured plates, several line-drawings. In Italian. Price: Lit. 57.000 ; € 29.44.

This book presents coloured photographs of excellent quality and descriptions of about 400 fungi to be found in the Italian forests. Emphasis is laid on gilled mushrooms and boletes, especially the edible and poisonous ones. Introductory chapters are quite extensive and deal with general anatomical and ecological characters of fungi. In an appendix the reader is informed how to deal with dangerous vipers which can be encountered during a mushroom collecting trip. The book is recommended for the good quality of its illustrations.

L.J.L.D. van Griensven (ed.). *Science and cultivation of edible Fungi. Proceedings of the 15th International Congress, Maastricht, Netherlands, 15–19 May 2000*. (A.A. Balkema, P.O. Box 1675, NL-3000 BR Rotterdam. 2000.) ISBN 90-5809-143-0. Pp. 1020, many text-figs., 2 vols. Price: US \$ 160; € 160.

These two volumes of congress proceedings cover a wide range of subjects by numerous authors. The contributions are arranged according to various themes. Three keynote lectures on use of agricultural waste materials in the cultivation of fungi, genetics and breeding of *Agaricus bisporus* and medicinally important fungi, are followed by various contributions in the following fields of research:

Physiology of edible fungi
Development and morphogenesis
Genetics and breeding
Substrates

Crop management
 Pests and diseases
 Quality Control
 Medically and industrially important edible fungi
 Environmental aspects of mushroom cultivation
 Economics of the industry and market research
 Mushroom cultivation: teaching and extension

The last part of the book contains the proceedings of technical sessions on

Cultivation technique of *Agaricus*
 Equipment-Agricultural waste as substrate for the cultivation of edible fungi
 Spawn, substrate, casing and cultivation
 Cultivation technique

The two volumes contain the most up-to-date record on the subject, and should be required reading for all interested in the subject.

G.J. Krieglsteiner (ed.). *Die Großpilze Baden-Württembergs. Band 1: Allgemeiner Teil, Ständerpilze: Gallert-, Rinden-, Stachel- und Porenpilze.* (Eugen Ulmer Verlag, Wollgrasweg 41, D-70599 Stuttgart. 2000.) ISBN 3-8001-3528-0. Pp. 629, numerous coloured photographs, line-drawings and distributions maps. In German. Price: DM 98,-; € 50.11.

Ditto. *Band II: Ständerpilze: Leisten-, Keulen-, Korallen-, und Stoppelpilze, Bauchpilze, Röhrlings- und Tüblingsartige.* (2000.) ISBN 3-8001-3531-0. Pp. 620, numerous coloured photographs, line-drawings and distributions maps. In German. Price: DM 98,-; € 50.11.

Two volumes have appeared of this work, which eventually will count four volumes covering all macromycetes found in Baden-Württemberg State, Germany. The first two volumes are devoted to Basidiomycetes. In volume 1 all Heterobasidiomycetidae are treated and of the Homobasidiomycetidae: Aphyllophorales in part (Corticaceae, Coniophoraceae, Lachnocladiaceae, Thelephoraceae, Schizophyllaceae, Ganodermataceae, Hymenochaetaceae and Polyporaceae). Volume 2 includes all other Aphyllophorales, Gasteromycetes, Boletales and Russulales. For each family keys to the genera are given. With each genus, a genus diagnosis is given, followed by a key to the species, and descriptions of the species, often accompanied by a coloured photograph and/or line-drawings of diagnostic characters, and/or a distribution map in Baden-Württemberg. The photographs are often of good quality. Species concepts, however, are sometimes rather wide. The authors brought together a wealth of knowledge on these groups of fungi occurring in their home state, which clearly has a wider interest than for inhabitants of this large German state. We look forward to the forthcoming volumes of this series.

M. Mata. *Macrohongos de Costa Rica Mushrooms.* (Instituto Nacional de Biodiversidad, Costa Rica. 1999.) ISBN 9968-702-30-7. Pp. 253, numerous coloured photographs. In Spanish and English. Price: unknown.

This bilingual fieldguide offers a very nice introduction into the world of macrofungi in Costa Rica, an area which is renowned for its rich biodiversity. After about 50 pages introductory chapters, the author presents descriptions and notes on distribution and ecology of a

selection of species, all provided with a coloured photograph, which generally is of good quality. It is an interesting mixture of European and North American taxa. Recommended for everyone interested in the mushrooms of this unique part of the world.

J.A. Muñoz. *El género Leccinum S.F. Gray en el Norte de España* (Fungi non delineati, pars XIII. Libreria Mykoflora, Via Ottone Primo 90, I-17021 Alassio. 2000.) Pp. 47, 19 coloured photographs, 6 coloured plates, numerous line-drawings. In Spanish. Price: Lit. 16.000; € 8,26.

Volume thirteen of this series is entirely devoted to the genus *Leccinum* (Boletales) in Spain. A dichotomic key to the species is given, followed by extensive descriptions and notes on chorology and taxonomic position of the taxa. Reference is also given to authoritative icons in other publications. Diagnostic microscopical characters, such as spores, cystidia and pileipellis structures are illustrated in the form of line drawings. Coloured plates of good quality with photographs and water-colour paintings illustrate this treatment of *Leccinum*.

C. Papetti et al. (eds.). *Micologia 2000*. (Associazione Micologica Bresadola, Via. A. Volta 46. I-38100 Trento. 2000). Pp. 712, numerous illustrations and coloured pls. In English, Italian, French and Spanish. Price: Lit. 125.000; € 64.56.

On the occasion of the new millennium, the Foundation Centro Studi Micologici of the Associazione Micologica Bresadola took the initiative to invite mycologists from all over the world to contribute a paper to a special publication devoted to recent developments in (taxonomic) mycology. As a result 712 pages are published, containing 56 papers by 90 mycologists, in various languages. Most contributions are on the taxonomy of macromycetes and fimicolous pyrenomycetes, but also articles dealing with ecology and computer-aided tools are included. The book is illustrated with numerous coloured photographs and line-drawings. The AMB can be congratulated with this prestigious publication, which enables the reader to get a good impression of present-day taxonomic mycology.

M. Raillere & M. Gannaz. *Les Ramaria Europeennes* (Fédération Mycologique Dauphiné-Savoie, 22 le Praz du Nant, F-73000 Bassens, France, 1999). Pp. 176, without illustrations. Price: FF 120.00; € 18.29.

This book gives an overview of the European species of genus *Ramaria*, with a short introduction on the genus, followed by a dichotomic key to the European species. The main part of the book consists of so-called fishes, of one page each, for all species of *Ramaria* known from Europe. The fishes contain information on macroscopical and microscopical characters, chemical reactions, comments on related species, and a selection of descriptions and illustrations in literature. A brief glossary explains the terms used in the text, and the book ends with a bibliography and an index to all names used in the text.

M. Ulloa & R.T. Hanlin. *Illustrated Dictionary of Mycology*. (APS Press, Europe Branch Office, Broekstraat 47, B-3001 Heverlee. 2000.) Pp. 448, 1322 black-and-white illustrations. Price: US \$ 99.

This dictionary contains about 4000 mycological terms, for which definitions are given and also the etymology of the term. Many terms are illustrated with either black-and-

white photographs or line-drawings. The result is an impressive hard-bound volume in A4-size which is well printed and easy to use. It will be welcomed by all students in mycology.

G.J.M. Verkley. *A monograph of the genus Pezicula and its anamorphs*. (Studies in Mycology 44. Centraalbureau voor Schimmelcultures, Utrecht. 1999.) ISBN 90-70351-40-4. Pp. 180, 50 black-and-white plates, numerous line-drawings. Price: unknown.

This long awaited worldmonograph of the difficult genus *Pezicula* appeared in the end of 1999. After the works of Groves (1938–1941) no thorough study has been published for a long time, although various authors studied the genus in varying depth. This new monograph is the result of four years of study. In this study also collections were made in the areas where Groves worked in the past, teleomorphs and anamorphs on natural substrate as well as in culture were studied, type-specimens were investigated, and some molecular studies were carried out. Also several species of the closely related genera *Ocellaria* and *Dermea* have been studied.

The result is a thorough work, with 28 pages of introduction about the history of the genus, material and methods, discussion on the relation of *Pezicula* and other genera in the Dermateaceae, and a discussion on the molecular characterization of the cultured species with RFLP. The molecular data seem to support the taxa distinguished morphologically. Keys are given to some related genera, to the species of *Pezicula* and *Neofabraea* based on apothecial characters, and to the anamorphs of *Pezicula* and *Neofabraea* based on characters in vivo and in culture. As a result of the studies *Ocellaria* is regarded as a synonym of *Pezicula*, and the genus *Neofabraea* is accepted with four species. Three new taxa are described in *Pezicula*. Seventy-six taxa mentioned in relation to *Pezicula* are discussed, leading to six new combinations in other genera.

Of the 26 accepted species in *Pezicula* an extensive description in vivo and in vitro is given, notes on substrate preference and distribution, and a list of specimens examined, together with a discussion.

Of course, this book is not the final one on *Pezicula* since not all taxa could be evaluated through lack of material. Also, one does not have to agree with all synonyms. But this book is certainly recommended for those interested in the group.