CONTENTS

Comprising selected papers presented at the Fourth International Association of Lichenology Symposium September 3–8, 2000, Barcelona, Spain

| Preface by P.L. Nimis (Trieste, Italy)Photolability of secondary compounds in some lichen species | |
|---|----|
| by M. BeGora and D. Fahselt (London, Ont., Canada) | 3 |
| lichen mycobionts | |
| by N. Hamada, T. Tanahashi, H. Miyagawa, | |
| and H. Miyawaki (Osaka, Kobe, Kyoto, and Saga, Japan) | 23 |
| Effects of H ₂ S on CO ₂ gas exchanges and growth rates of the | |
| epiphytic lichen Parmelia sulcata Taylor | |
| by M. Tretiach and L. Baruffo (Trieste, Italy) | 35 |
| Composite lichen thalli of Sticta sp. from Brazil, with | |
| morphologically similar lobes containing either a | |
| chlorobiont or a cyanobiont layer | 17 |
| by W.B. Sanders (Recife, Brazil and Berkeley, CA, USA) | 4/ |
| Analysis of the photobiont population in lichens using | |
| a single-cell manipulator by A. Beck and HU. Koop (München, Germany) | 57 |
| The influence of microclimate on the composition of lichen | 01 |
| communities along an altitudinal gradient in the | |
| maritime Antarctic | |
| by A. Pintado, L.G. Sancho, and F. Valladares (Madrid, Spain) | 69 |
| Preliminary light microscope observations of fungal and algal | |
| colonization and lichen thallus initiation on glass slides | |
| placed near foliicolous lichen communities within a lowland | |
| tropical forest | |
| by W.B. Sanders (Recife, Brazil and Berkeley, CA, USA) | 85 |
| Evidence for ethanolic fermentation in lichens during periods | |
| of high thallus water content | |
| by B. Wilske, R. Holzinger, and J. Kesselmeier | |
| (Mainz, Germany) | 95 |
| | |

| The effect of desiccation on the activities of antioxidant | |
|---|-----|
| enzymes in lichens from habitats of contrasting water status | |
| by N. Mayaba and R.P. Beckett (Scottsville, South Africa) | 113 |
| Some physiological effects of biocide treatment on the lichen | |
| Pseudevernia furfuracea (L.) Zopf. | |
| by N. Vidergar-Gorjup, H. Sircelj, H. Pfanz, and F. Batic | |
| (Zagorje ob Savi and Ljubljana, Slovenia and Essen, Germany) | 123 |
| Morphological evidence for the symbiotic character of | |
| Turgidosculum complicatulum Kohlm. & Kohlm. | |
| (= Mastodia tesselata Hook.f. & Harvey) | |
| by D. Lud, A.H.L. Huiskes, and S. Ott | |
| (Yerseke, The Netherlands and Düsseldorf, Germany) | 141 |
| Increased rainfall ameliorates the negative effect of | |
| trampling on the growth of High Arctic forage lichens | |
| by E.J. Cooper, F.M. Smith, and P.A. Wookey (Tromsø, | |
| Norway and Uppsala, Sweden) | 153 |
| Field measurements of the growth rates of forage lichens, | |
| and the implications of grazing by Svalbard reindeer | |
| by E.J. Cooper and P.A. Wookey (Tromsø, Norway and | |
| Uppsala, Sweden) | 173 |
| The concentration of nitrogen in nitrophilous and | |
| non-nitrophilous lichen species | |
| by G. Gaio-Oliveira, C. Branquinho, C. Máguas, and | |
| M.A. Martins-Loução (Lisboa and Barcarena, Portugal) | 187 |
| Responses of plastid pigments to desiccation and rehydration | |
| in the desert lichen Ramalina maciformis | |
| by M. Zorn, H.W. Pfeifhofer, D. Grill, and I. Kranner | |
| (Graz, Austria) | 201 |
| Review article. Use of RAPD-PCR DNA fingerprinting and | |
| vegetative incompatibility tests to investigate genetic | |
| variation within lichen-forming fungi | |
| by P.S. Dyer, G.J. Murtagh, and P.D. Crittenden | |
| (Nottingham, United Kingdom) | 213 |
| Forthcoming Events | 231 |
| Announcements | |