

## CONTENTS

|   |                                      |     |
|---|--------------------------------------|-----|
| Preface .....   | Tatsuro MATSUDA and Takao HOSHIAI... | i   |
| Freshwater algae from Yukidori Zawa, near Syowa Station, Antarctica .....   | Minoru HIRANO...                     | 1   |
| Some ecological and taxonomic observations on the colored snow algae found in Rumpa and Skarvsnes, Antarctica.... | Masaru AKIYAMA...                    | 27  |
| Isolation and culture of Antarctic diatoms from the saline lakes in the Sôya Coast, East Antarctica .....         | Tomohiko WATANUKI...                 | 35  |
| Additional notes on lichens of the Prince Olav Coast, Antarctica .....  | Hiroyuki KASHIWADANI...              | 42  |
| On the variation of leaf characters of an Antarctic moss, <i>Bryum inconnexum</i> .....                           | Satoshi NAKANISHI...                 | 47  |
| Regenerative development in culture of Antarctic plants of <i>Ceratodon purpureus</i> (HEDW.) BRID. ....          | Hiroshi KANDA...                     | 58  |
| A taxonomic review of the genus <i>Bryum</i> , Musci in Antarctica ..   | Harumi OCHI...                       | 70  |
| Ecology of terrestrial plants in the Antarctic with particular reference to bryophytes .....                      | Hisatsugu ANDO...                    | 81  |
| On the microfauna of the Antarctic region III. Microbiota of the terrestrial interstices ..                       | Minoru SUDZUKI...                    | 104 |
| Notes on the free-living mites in the ice-free areas around Syowa Station .....                                   | Yoshikuni OHYAMA...                  | 127 |
| Annual change of individual numbers and nest sites of the marked Adélie penguins in the Ongulkalven rookery ..    | Masahiro AOYANAGI...                 | 130 |
| Adélie penguin rookeries in the Lützow-Holm Bay area and relation of rookery to algal biomass in soil .....       | Takao HOSHIAI and Tatsuro MATSUDA... | 140 |