

S T U D I E S   I N   T H E  
S O U T H   A F R I C A N  
B U L B O U S   L I L I A C E A E

by

JOHN PETER JESSOP

FIGURES



FIG. 1  
Plant of Ledebouria revoluta  
showing apparently terminal  
and axillary inflorescences.

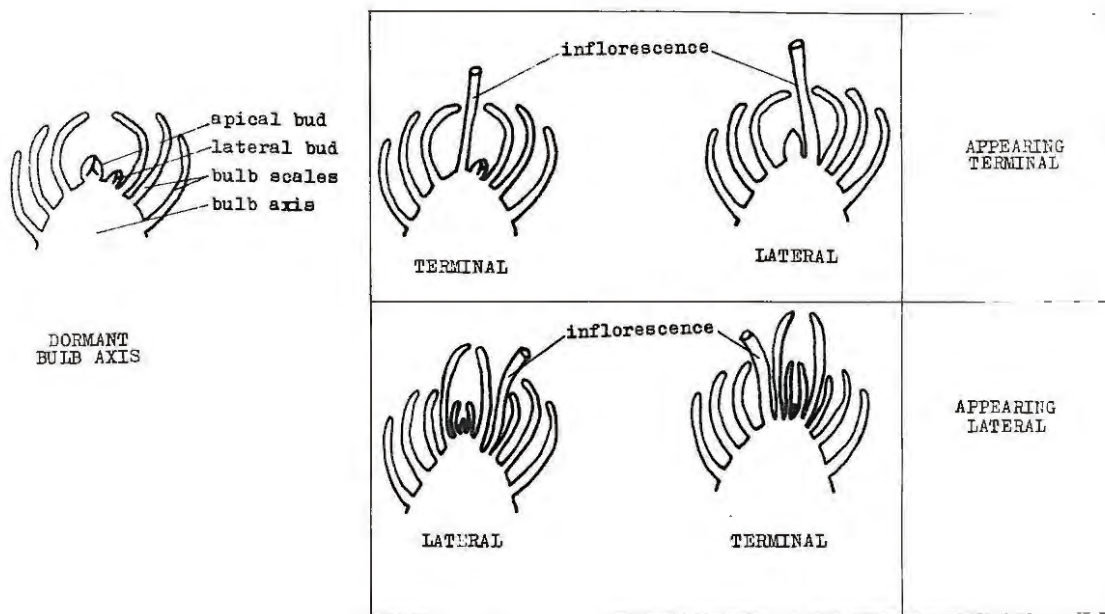


FIG. 2

Longitudinal sections through bulb apex to indicate errors in interpretation of origin of inflorescence if based on external observation only.

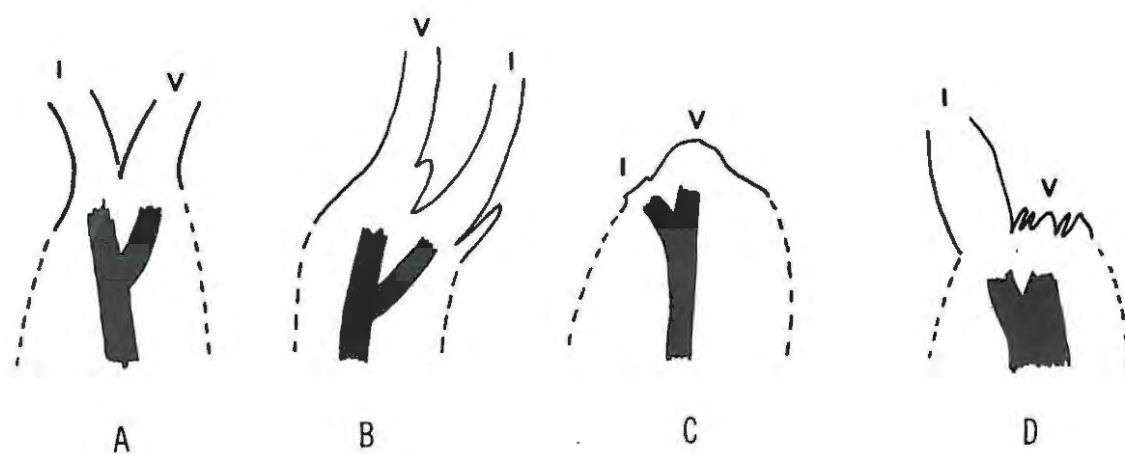


FIG. 3

Longitudinal sections through bulb apices  
of:-

- a) Scilla nervosa; (b) Scilla  
revoluta; (c) Drimiopsis maculata;  
d) Lachenalia glaucina.

I-Inflorescence axis.

V-Vegetative axis.

Broken lines indicate region of bulb  
where scales and portions of the  
bulb axis have been cut away.

(Not drawn to scale.)

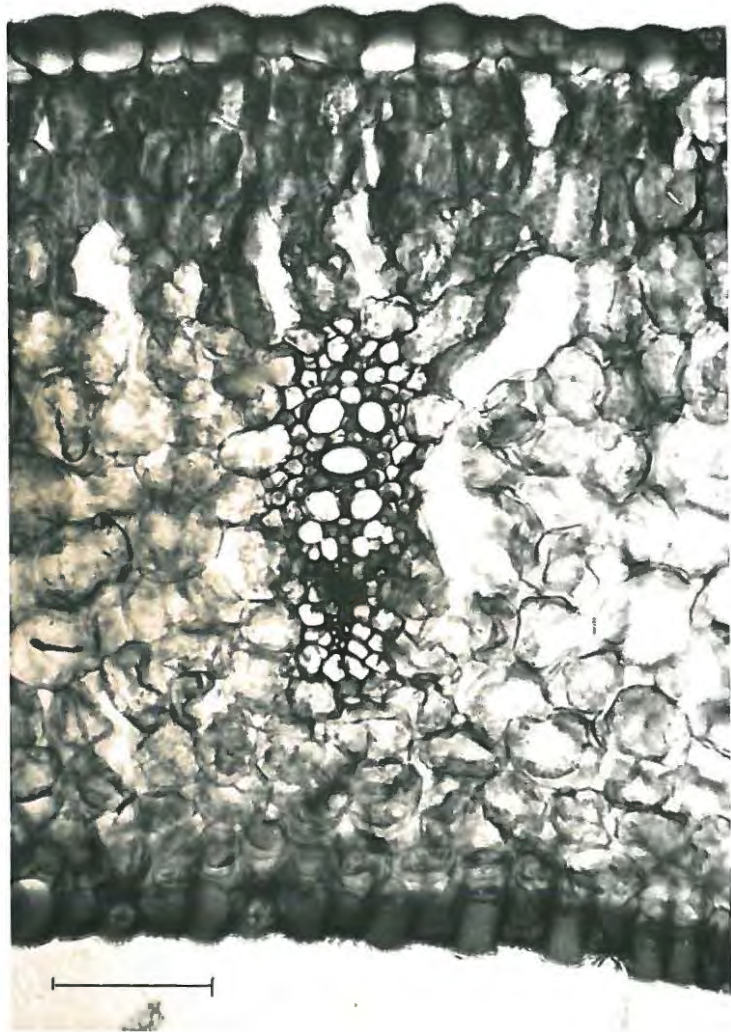


FIG. 4  
T.S. of leaf of Scilla  
revoluta. Scale-0,1 mm.

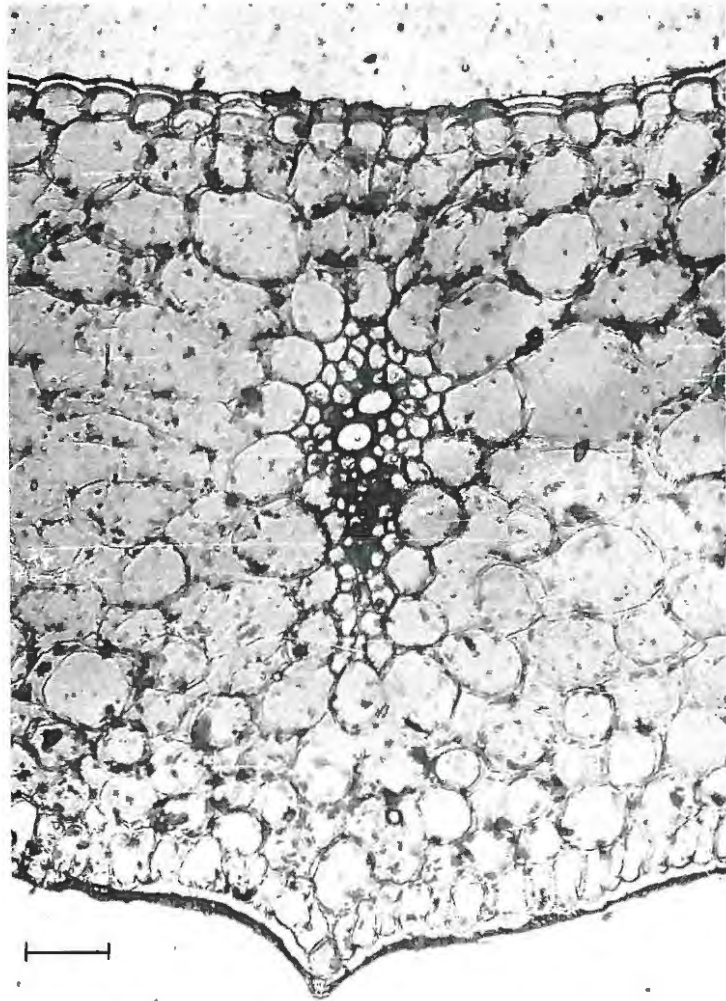


FIG. 5

T.S. of leaf of Drimiopsis  
maculata. Scale-0,1 mm.

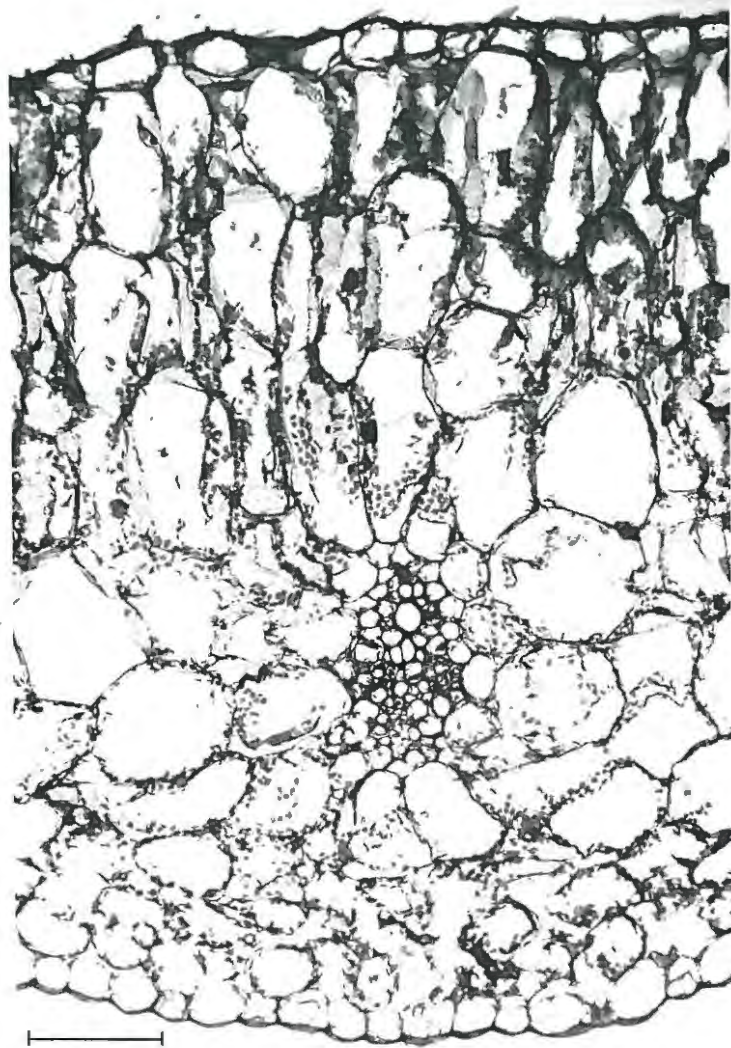


FIG. 6

T.S. of leaf of *Massonia*  
*depressa*. Scale-0,1 mm.

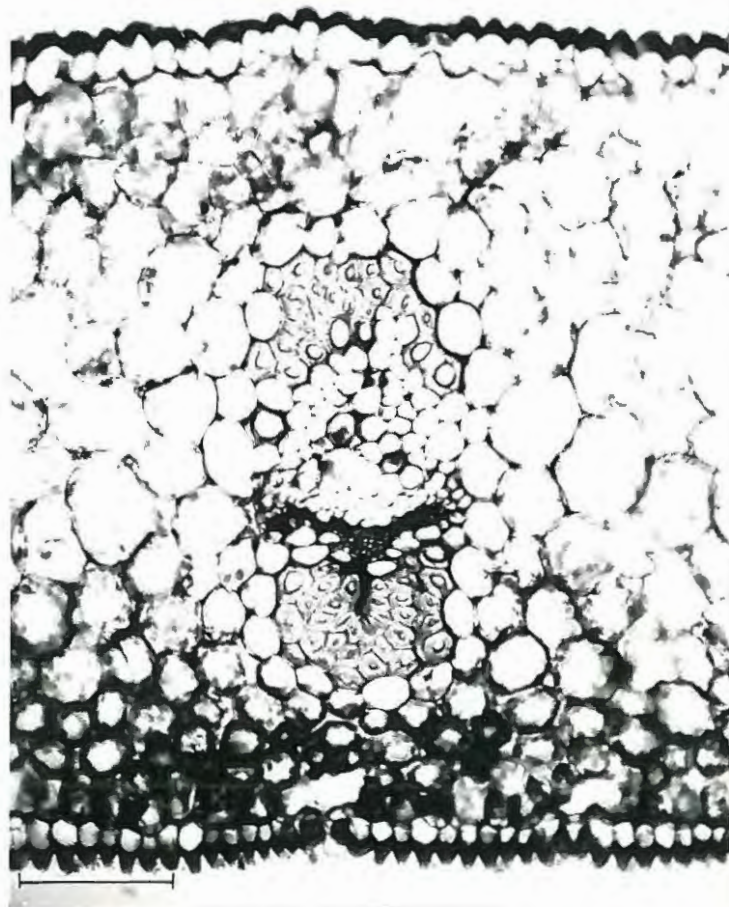
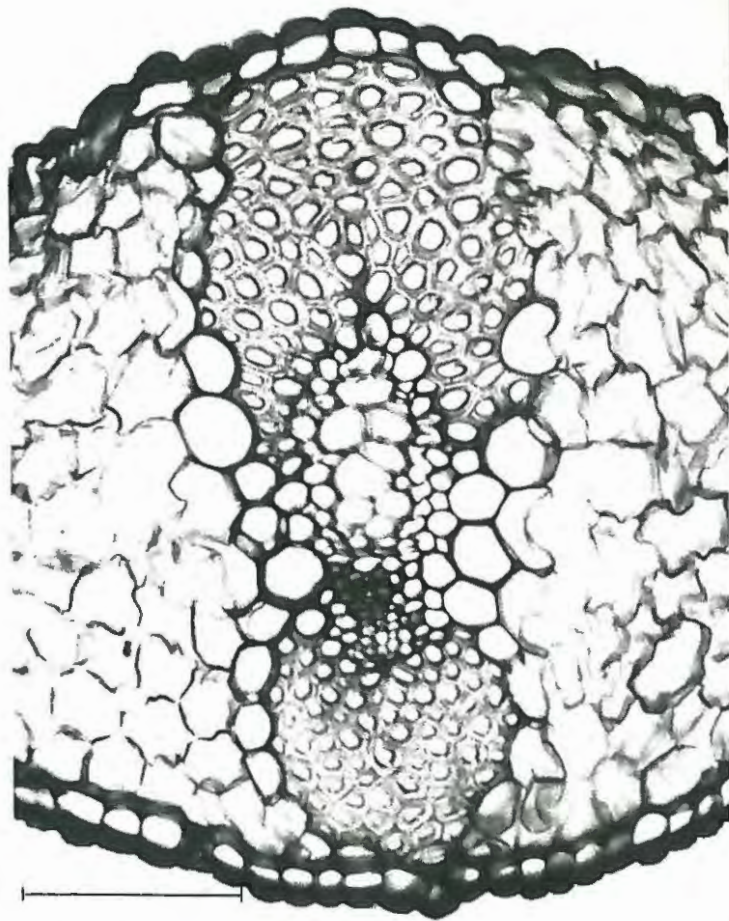


FIG. 7

T.S. of leaves of:-

a) Scilla nervosa;

b) Scilla firmifolia.

Scale-0,1 mm.

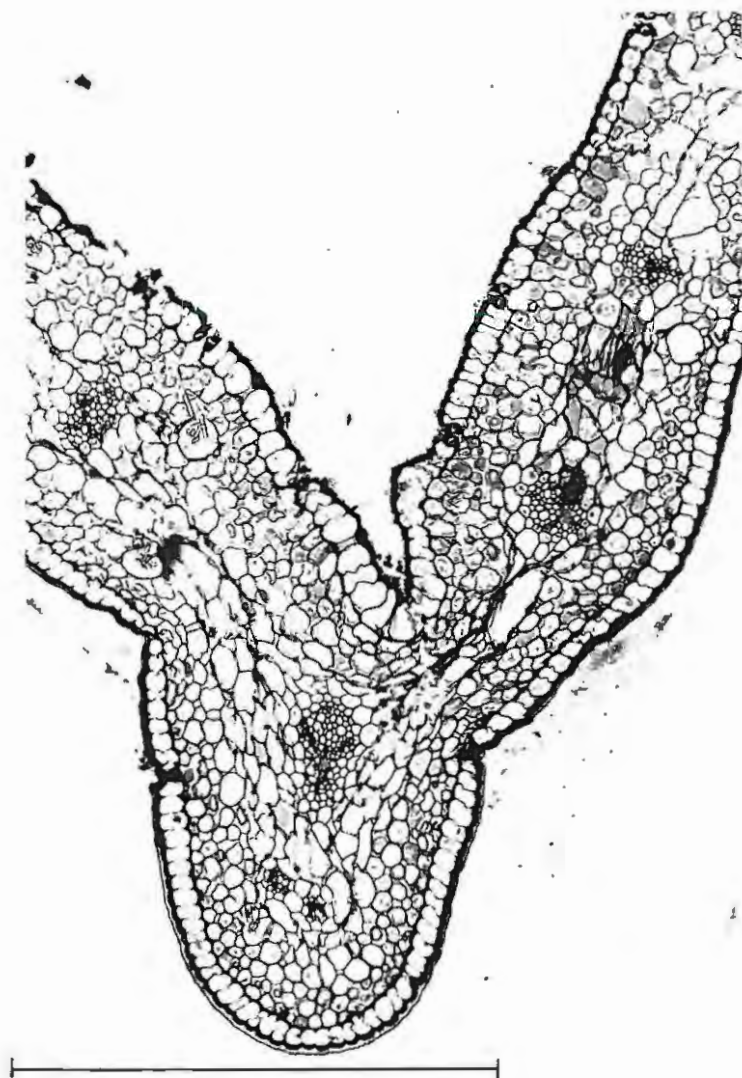


FIG. 8

T.S. of leaf (near  
middle of lamina) of  
Drimia elata.

Scale-0,1 mm.

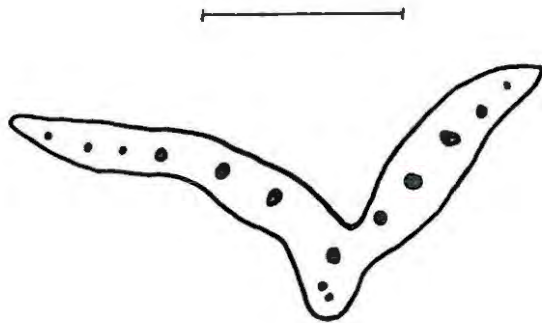


FIG. 9  
T.S. of leaf (near  
middle of lamina) of  
Drimia elata.-  
Scale-1 mm.

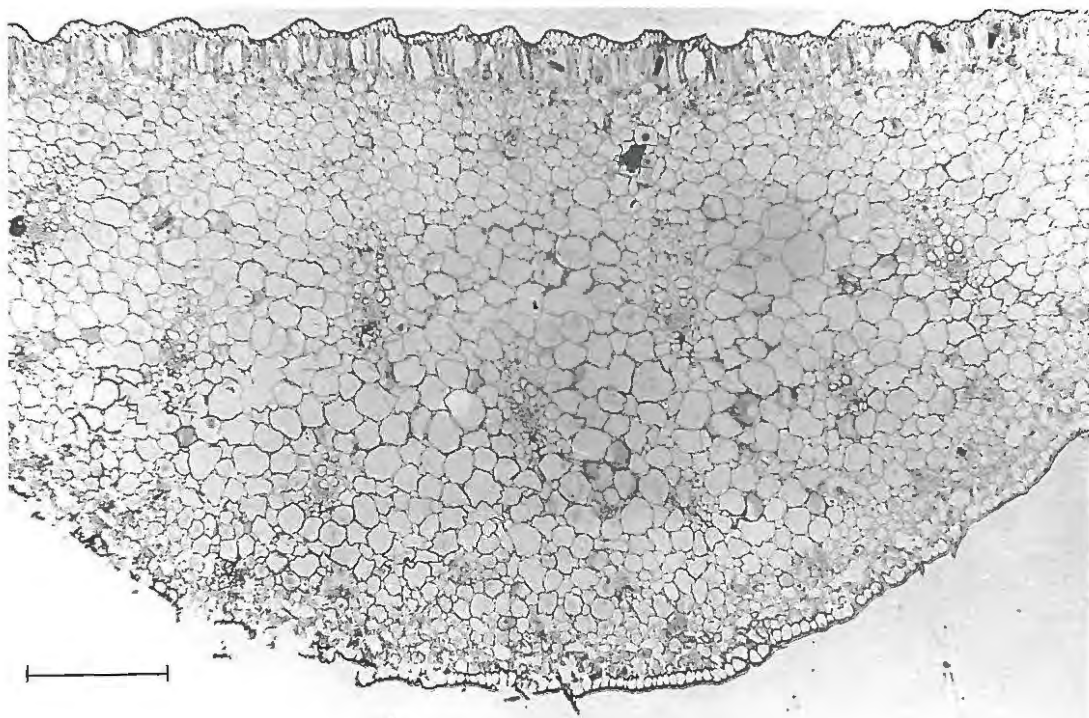
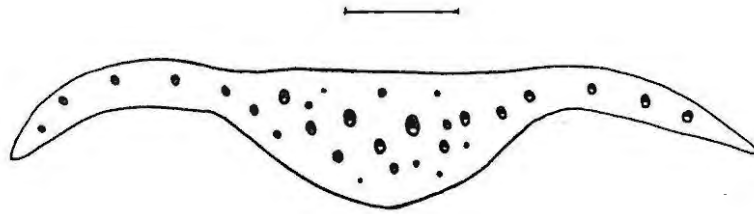


FIG. 10

T.S. of leaf of Urginea  
altissima:

a) Scale-1 mm.

b) Scale-0,25 mm.

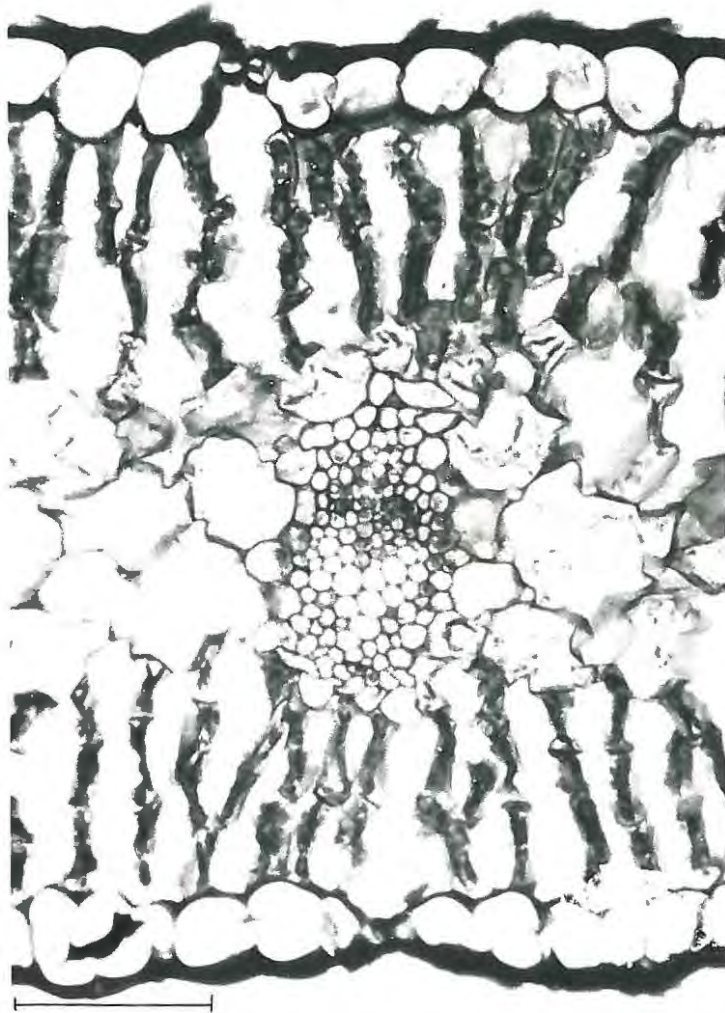


FIG. 11  
T.S. of leaf of Urginea  
pusilla. Scale-0,1 mm.

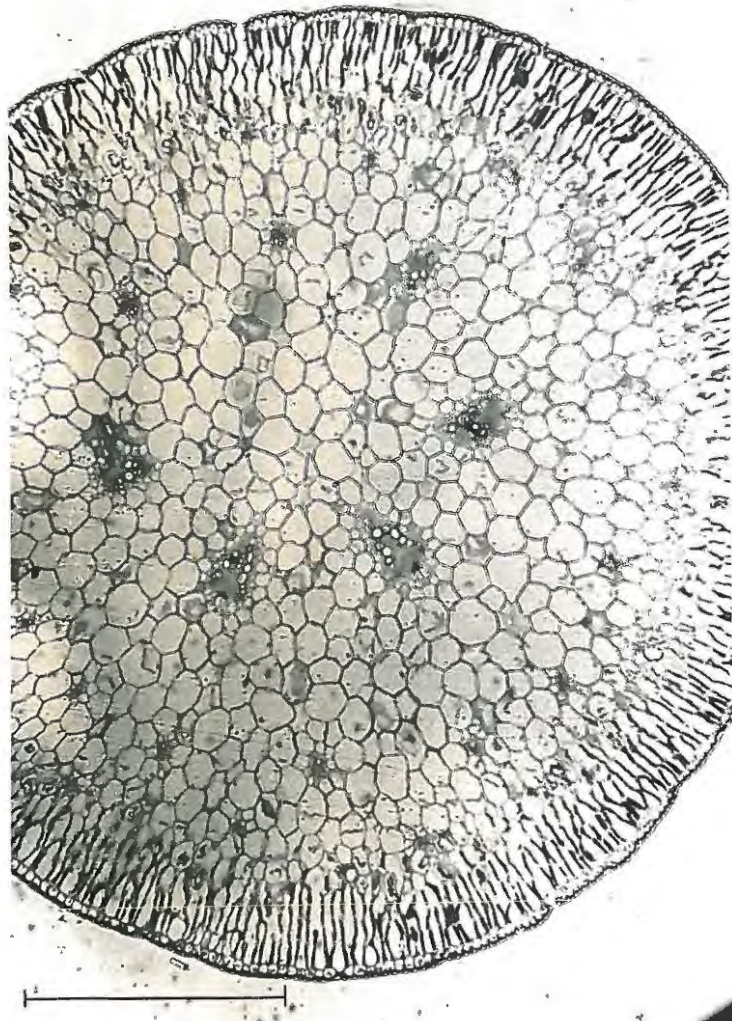


FIG. 12  
T.S. of leaf of Drimia  
anomala. Scale-1 mm.

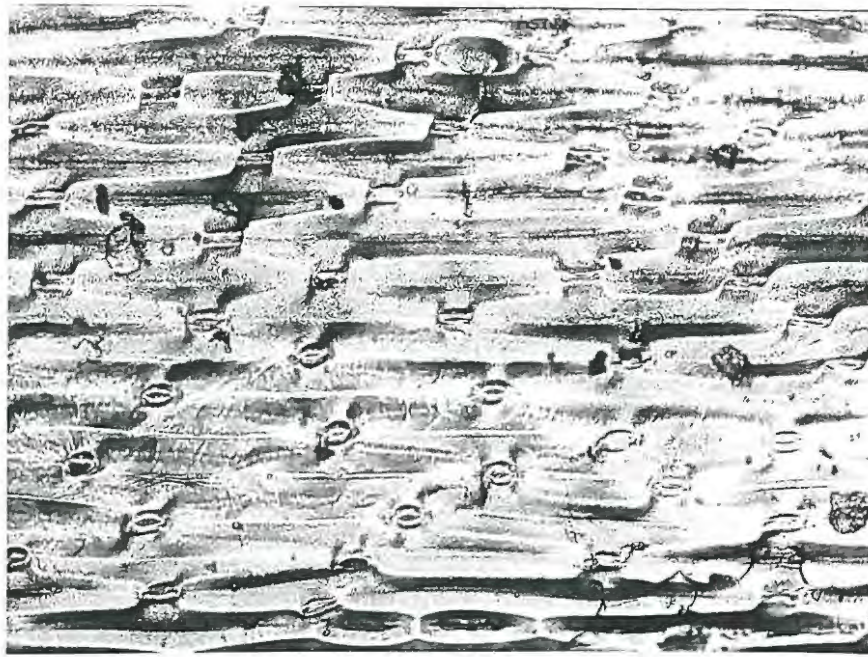


FIG. 13  
Adaxial leaf surface of Trachyandra sp. x160.

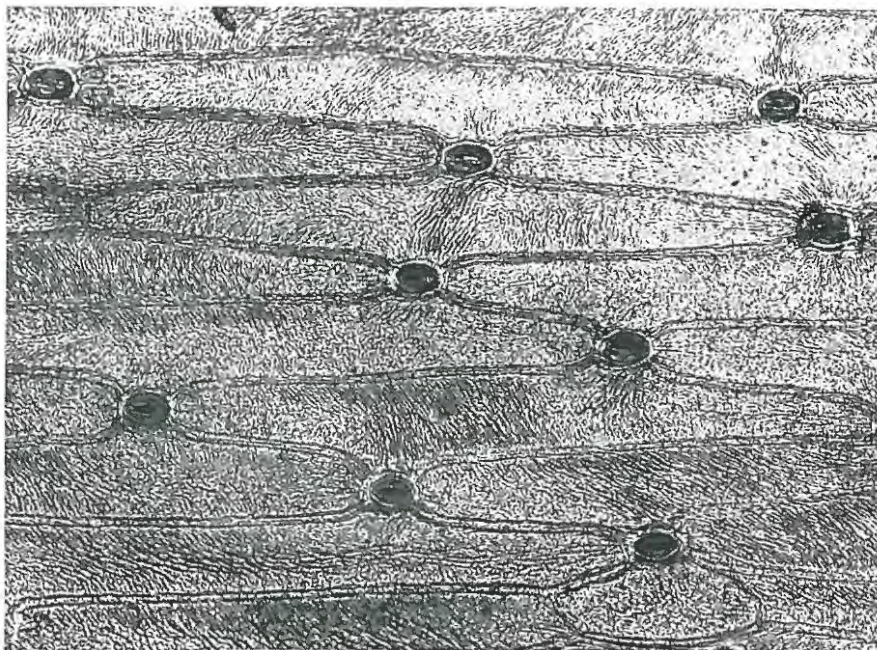


FIG. 14  
Adaxial leaf surface of Bulbine asphodeloides. x160.

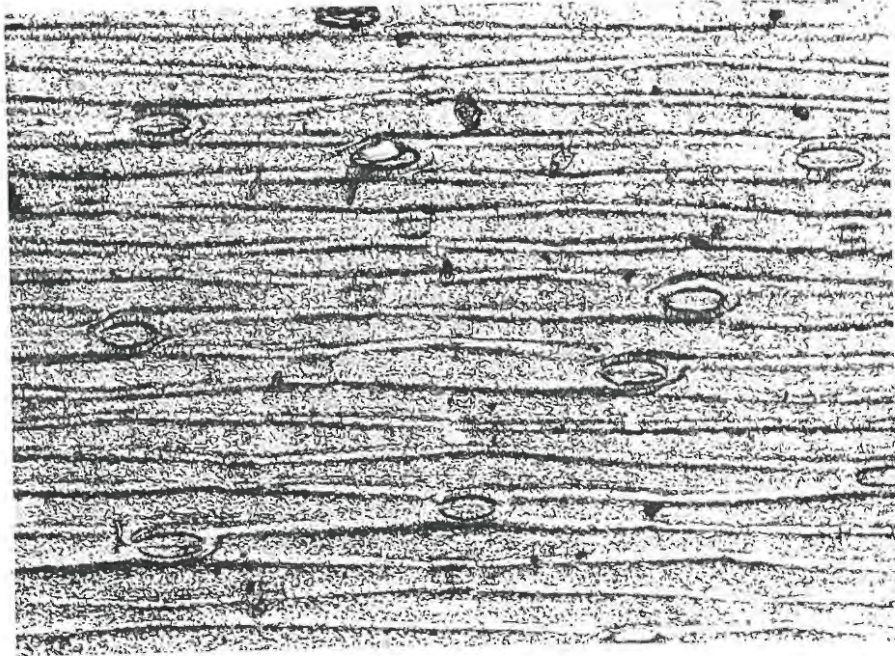


Fig. 15  
Adaxial leaf surface of  
Albuca setosa. x160.

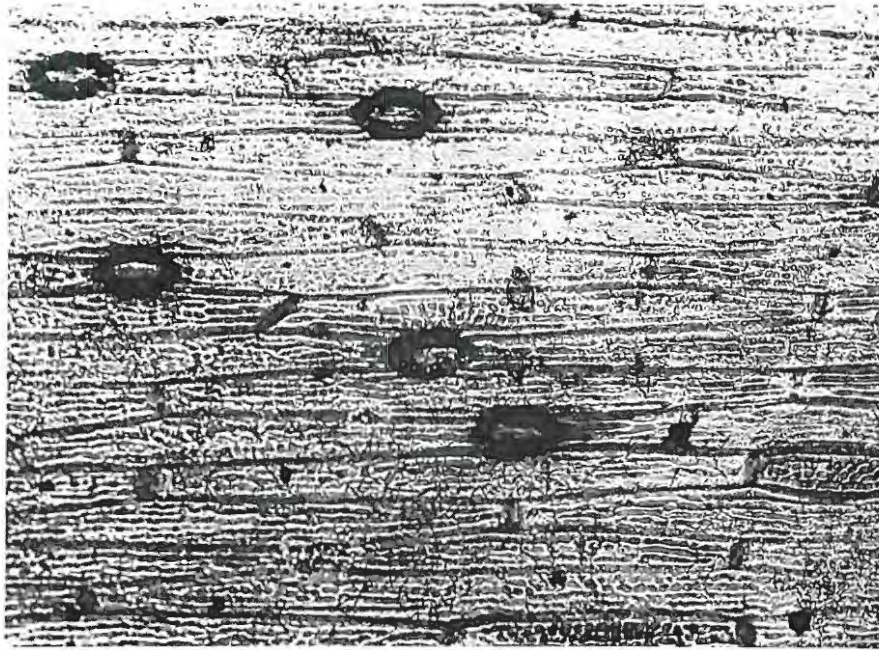


FIG. 16  
Adaxial leaf surface of Drimia elata.  $\times 160$ .

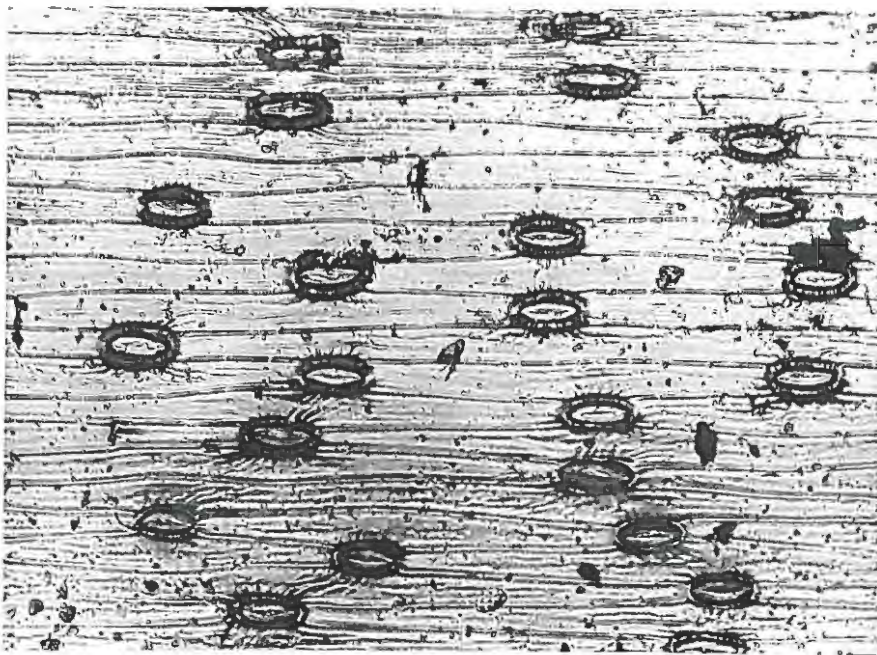


FIG. 17  
Adaxial leaf surface of Drimia elata.  $\times 160$ .

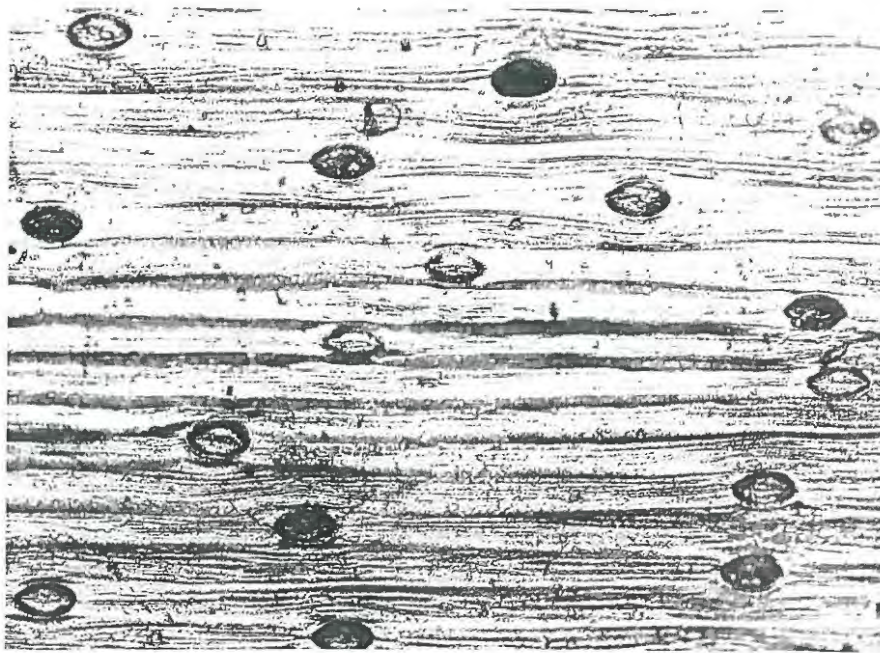


FIG. 18  
Adaxial leaf surface of *Drimia elata*. xl60.

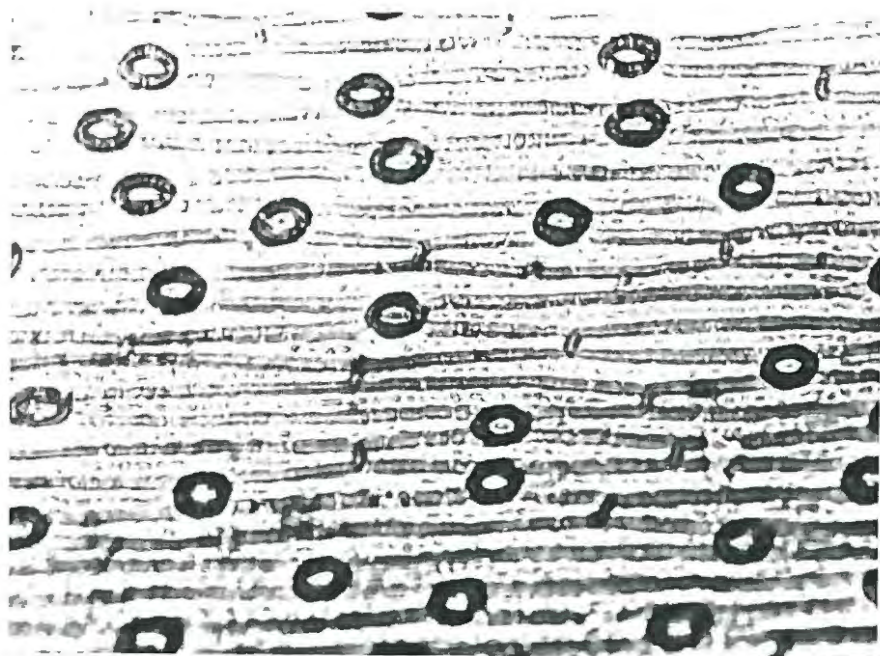


FIG. 19  
Adaxial leaf surface of *Urginea altissima*. xl60.

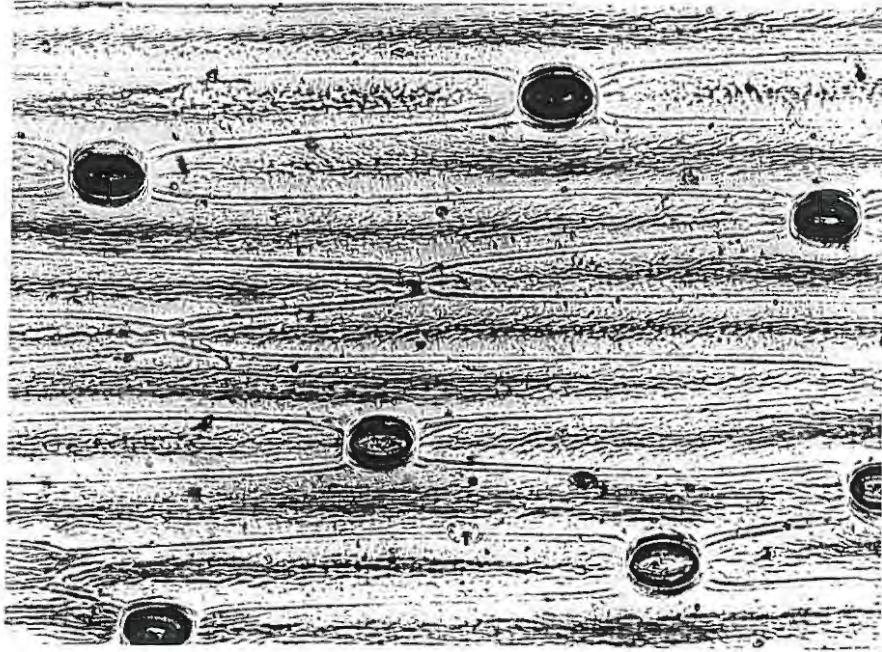


FIG. 20  
Adaxial leaf surface of  
?Rhadamanthus sp. x160.

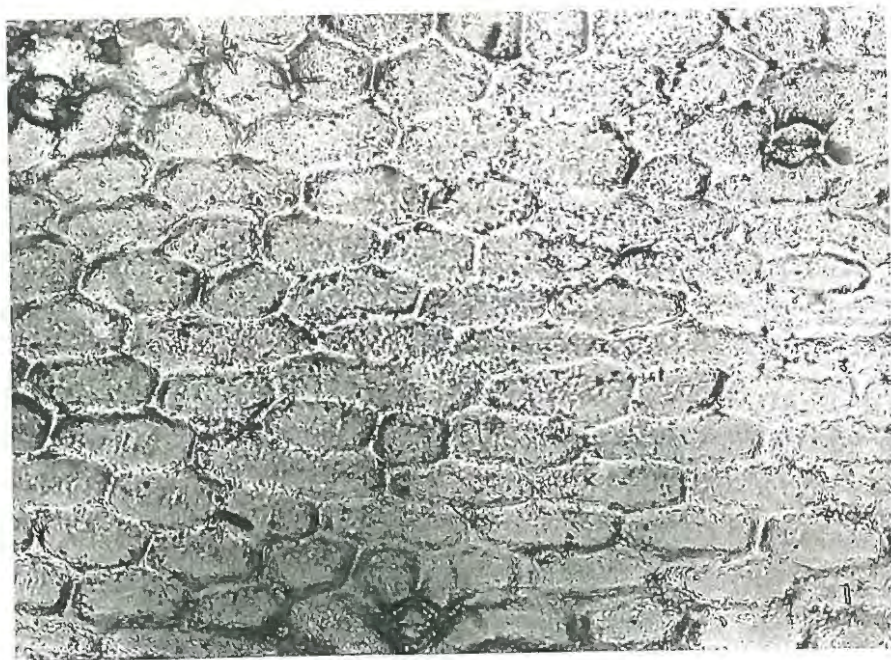


FIG. 21  
Adaxial leaf surface of Scilla natalensis. x160.

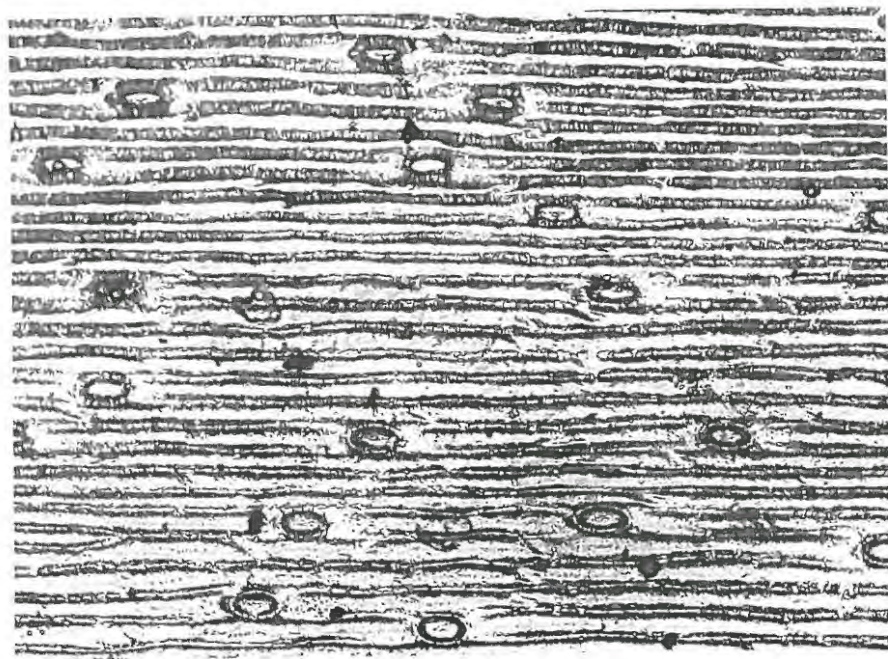


FIG. 22  
Adaxial leaf surface of Scilla firmifolia. x160.

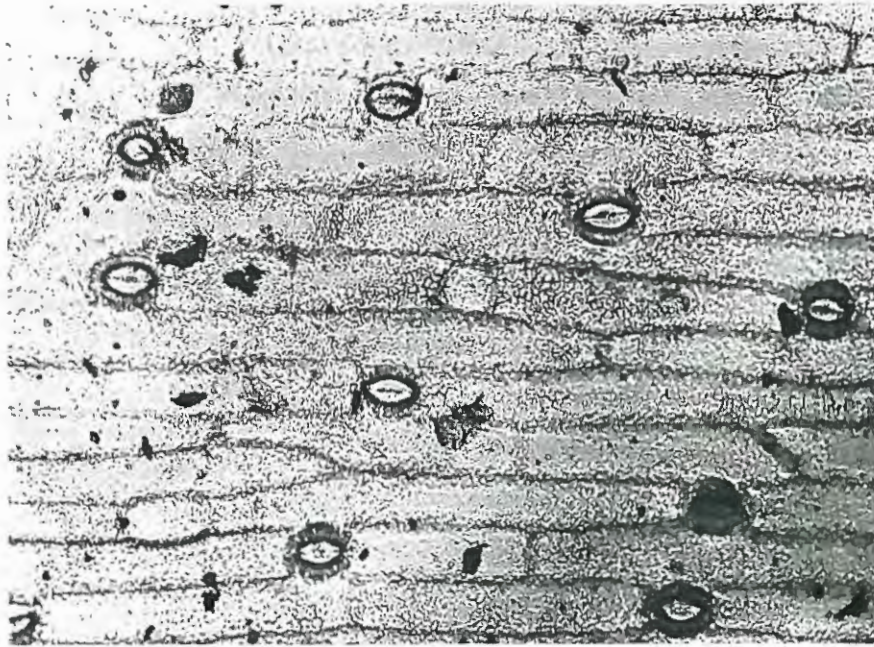


FIG. 23

Adaxial leaf surface (near margin) of  
Scilla megaphylla. xl60.

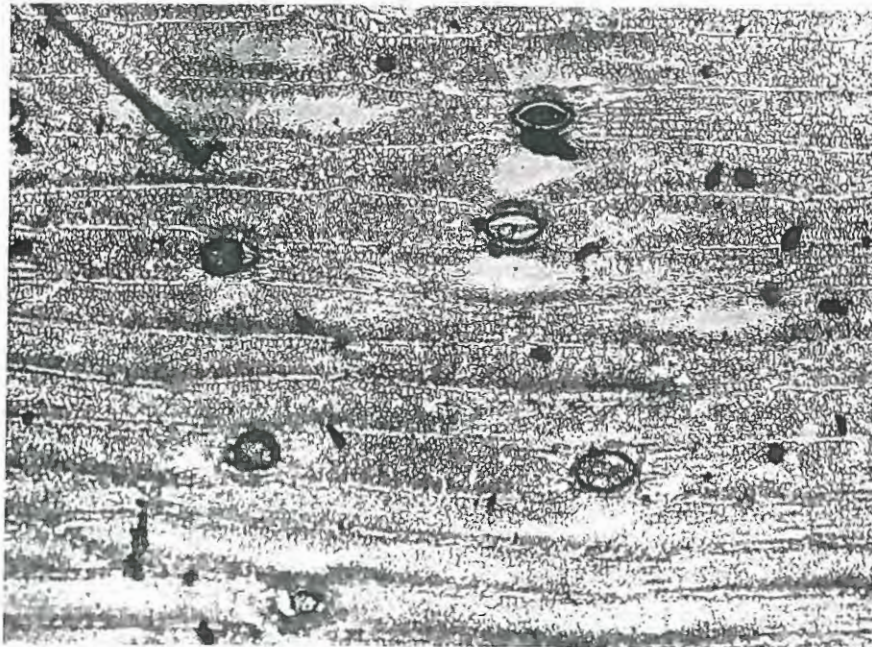


FIG. 24

Adaxial leaf surface (near midrib) of  
Scilla megaphylla. xl60.

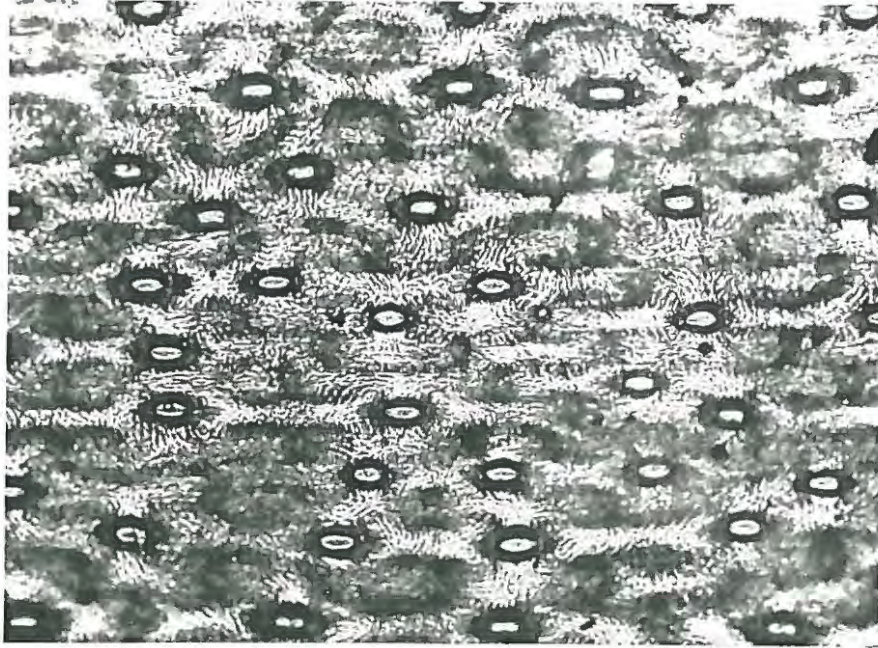


FIG. 25

Adaxial leaf surface of Scilla lanceaefolia. xl60.

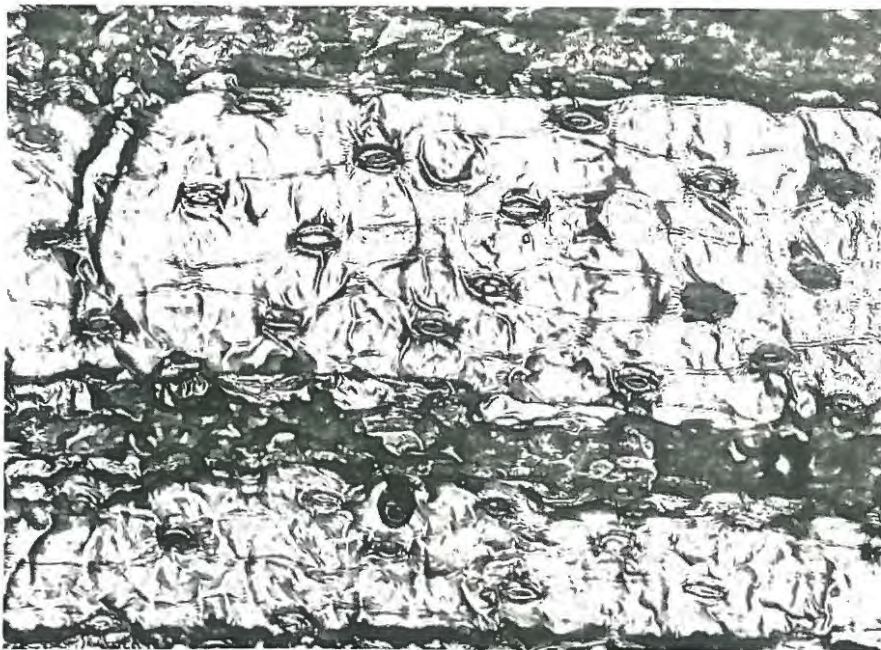


FIG. 26

Adaxial leaf surface of Scilla ovatifolia. xl60.



FIG. 27  
Adaxial leaf surface of  
Scilla socialis. x160.

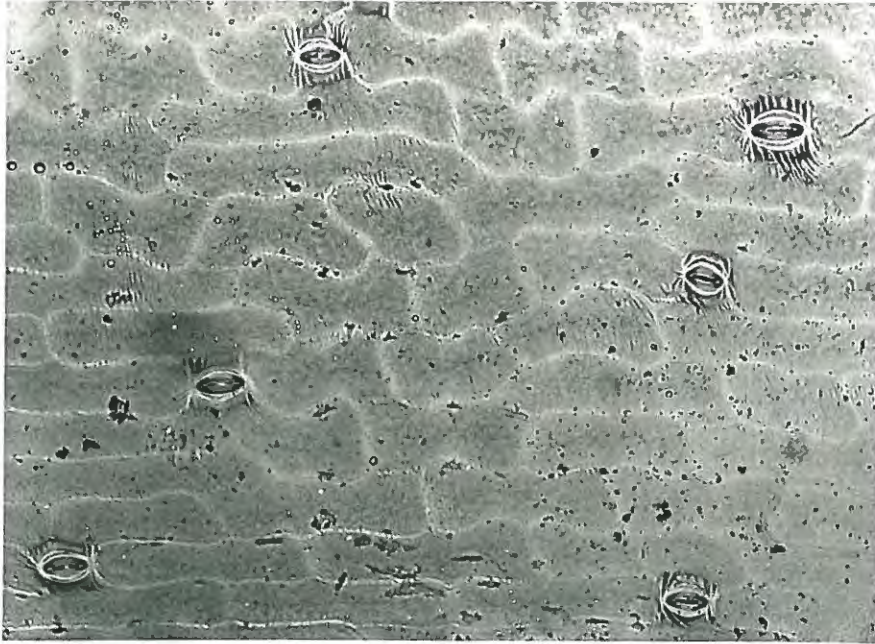


FIG. 28

Adaxial leaf surface of Drimiopsis maculata. xl60.

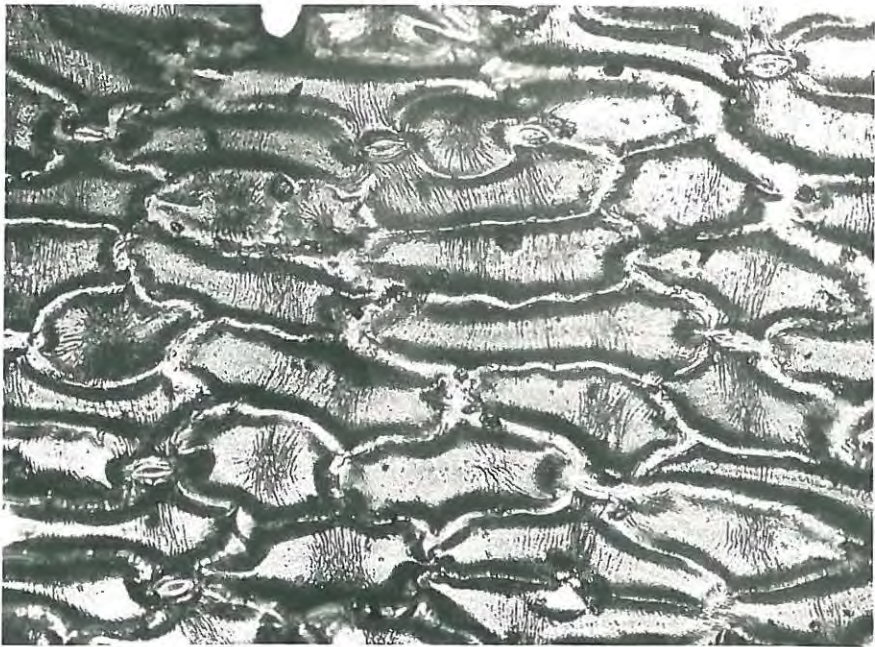


FIG. 29

Adaxial leaf surface of Drimiopsis maculata. xl60.

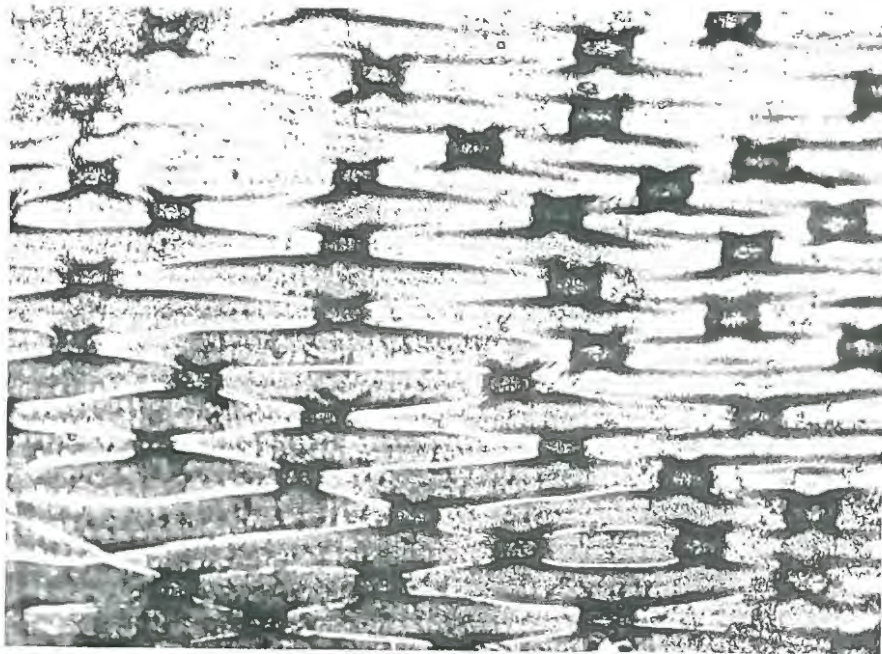


FIG. 30  
Adaxial leaf surface of Ornithogalum maculatum. x160.

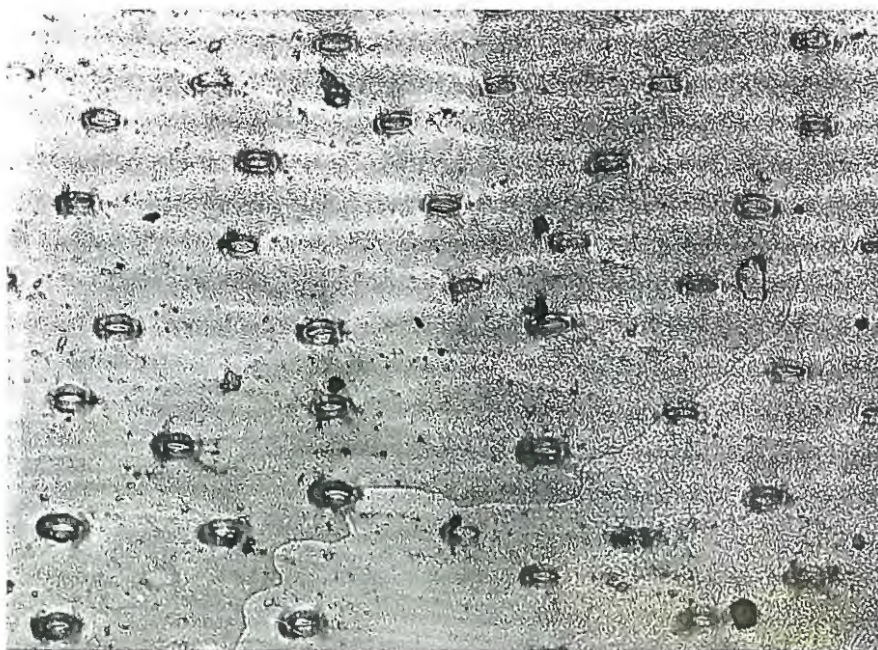


FIG. 31  
Adaxial leaf surface of Ornithogalum  
sp. nr. fimbri-marginatum. x160.

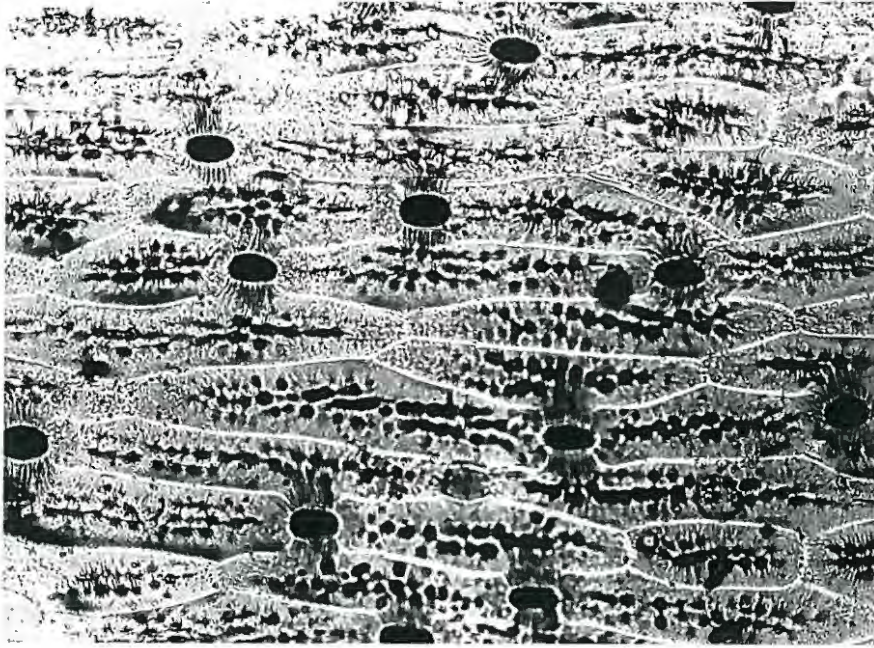


FIG. 32

Adaxial leaf surface of Ornithogalum  
longibracteatum. x160.

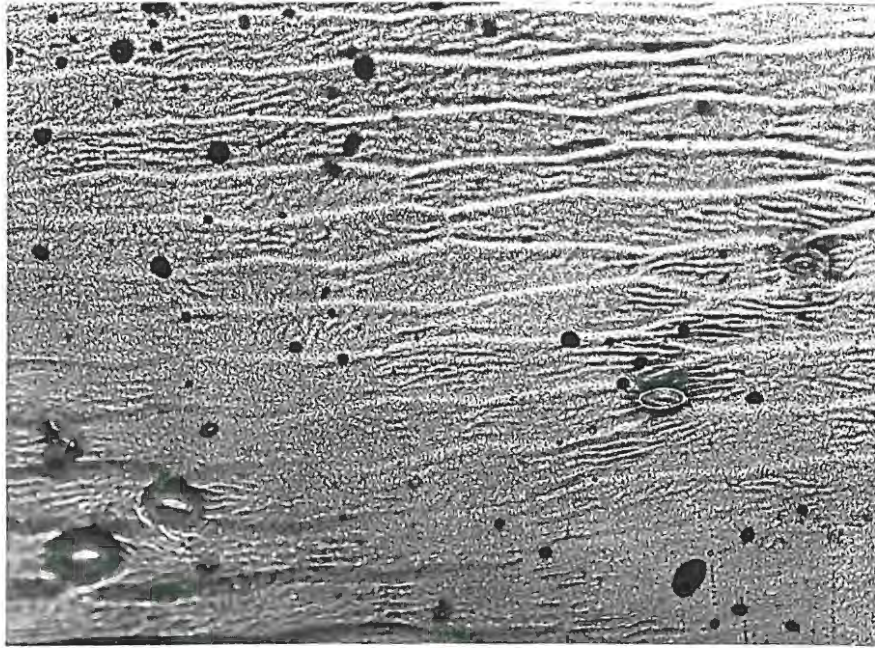


FIG. 33  
Adaxial leaf surface of Veltheimia  
viridifolia. x160.

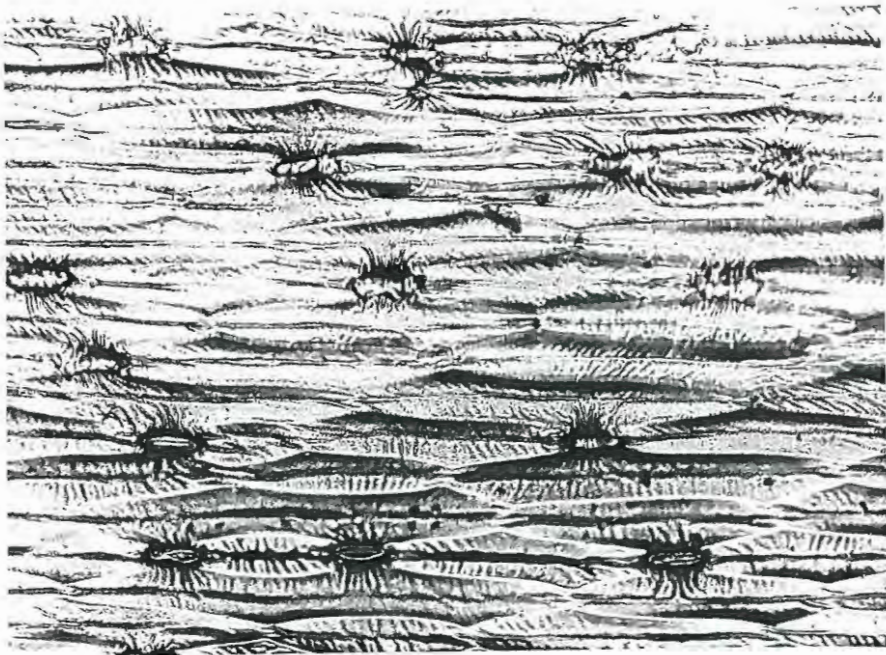


FIG. 34  
Adaxial leaf surface of Lachenalia pendula. x160.

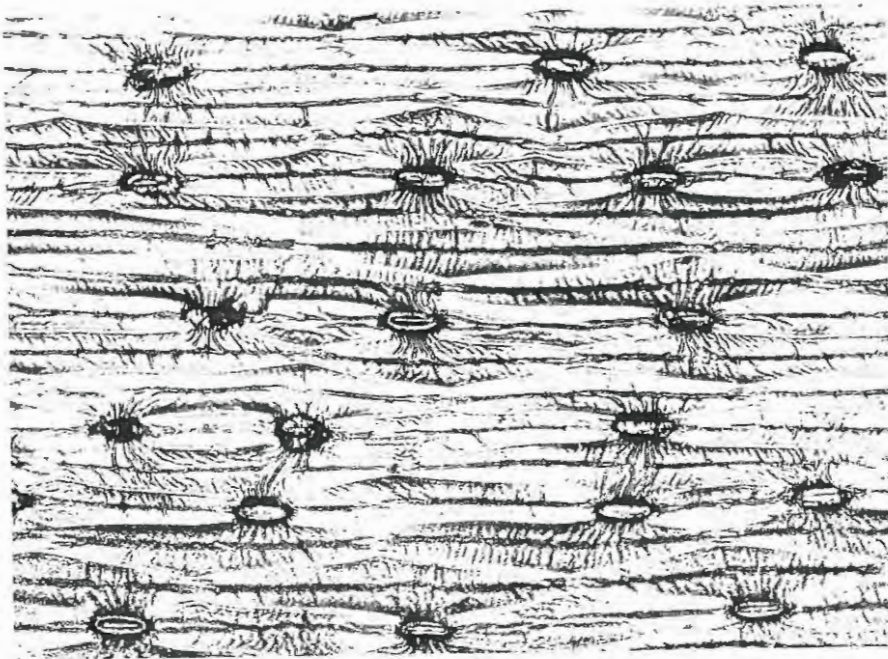


FIG. 35  
Adaxial leaf surface of Lachenalia pendula. x160.

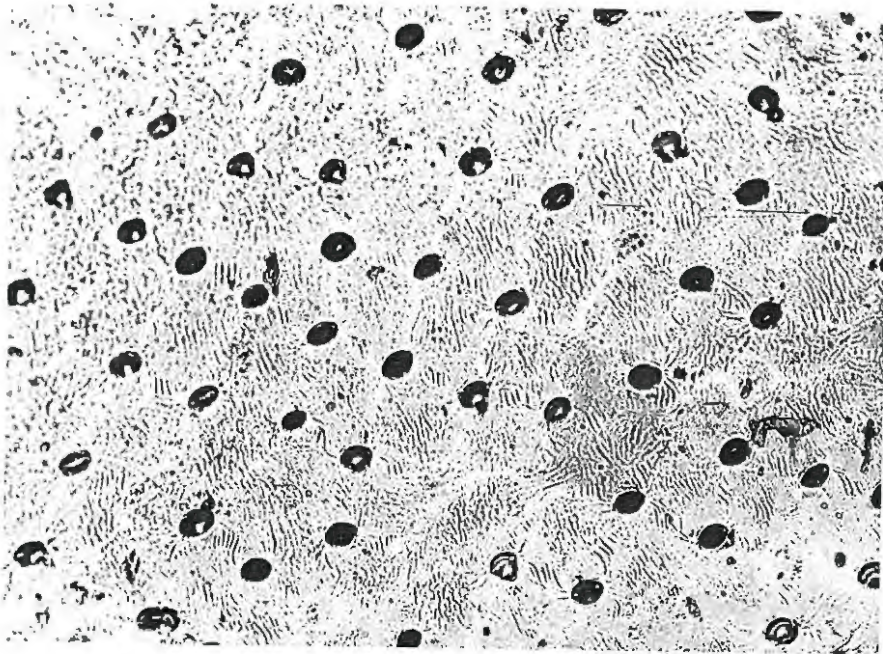


FIG. 36

Adaxial leaf surface of Massonia depressa. x160.

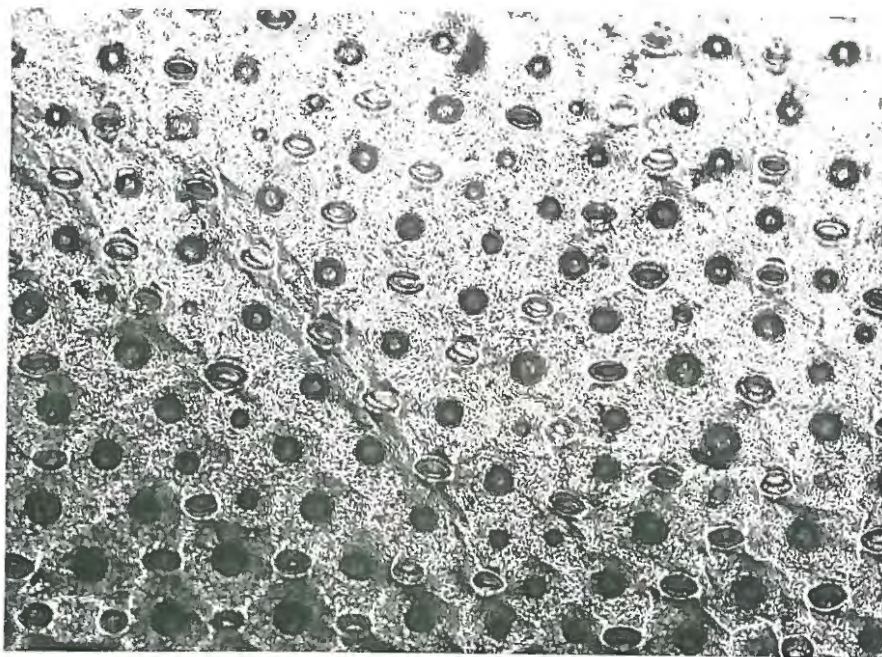


FIG. 37

Adaxial leaf surface of Massonia depressa. x160.

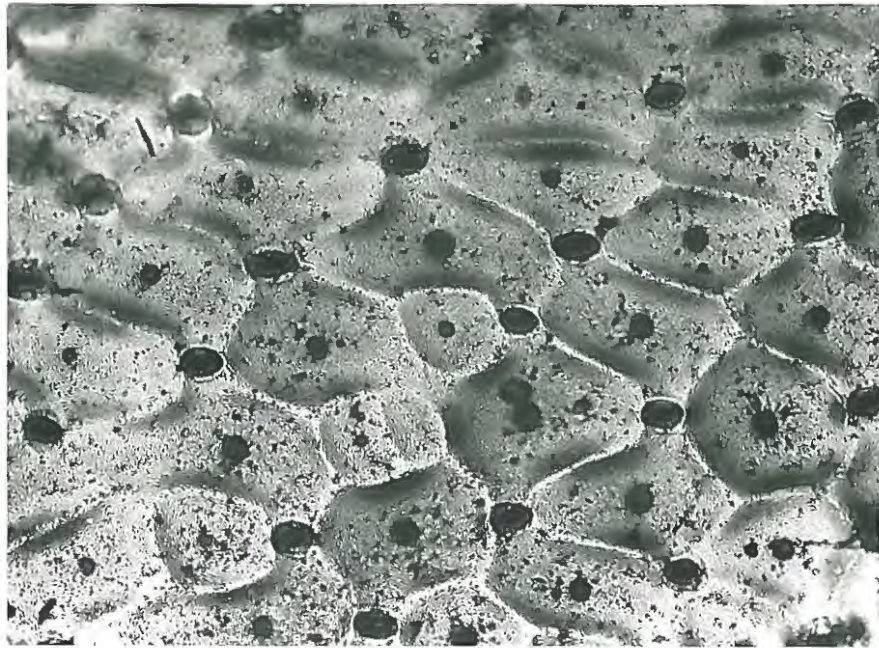


FIG. 38  
Adaxial leaf surface of Massonia echinata. x160.



FIG. 39  
Adaxial leaf surface of Massonia pustulata x160.

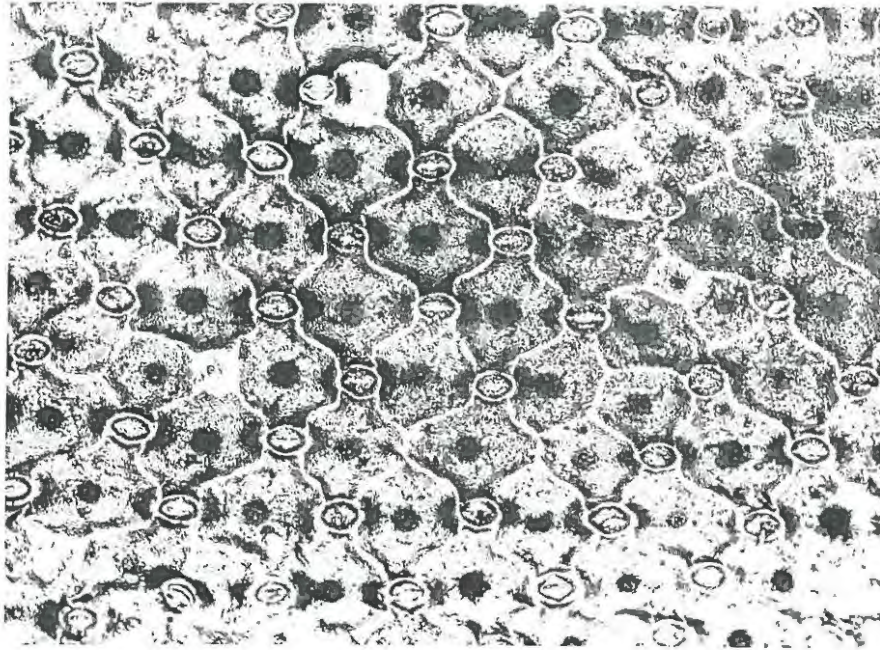


FIG. 40

Adaxial leaf surface of Massonia jasminiflora. x160.

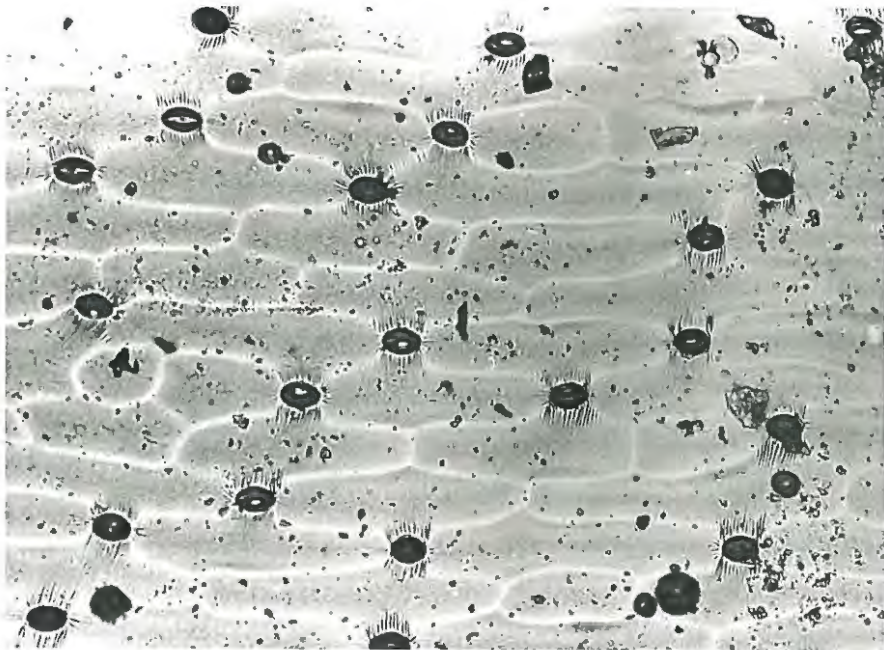


FIG. 41

Adaxial leaf surface of Neobakeria sp. x160.



FIG. 42  
Pollen of Massonia echinata. x2000

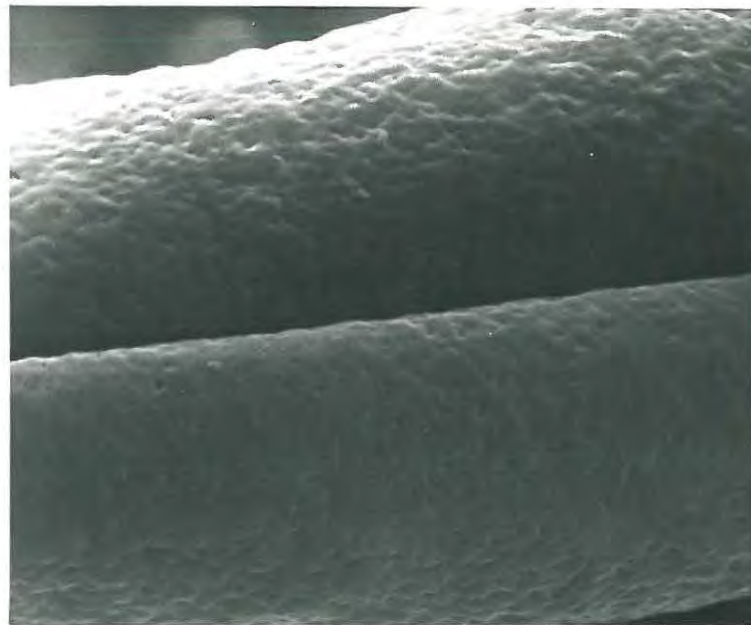


FIG. 43  
Pollen of Massonia echinata. x6000

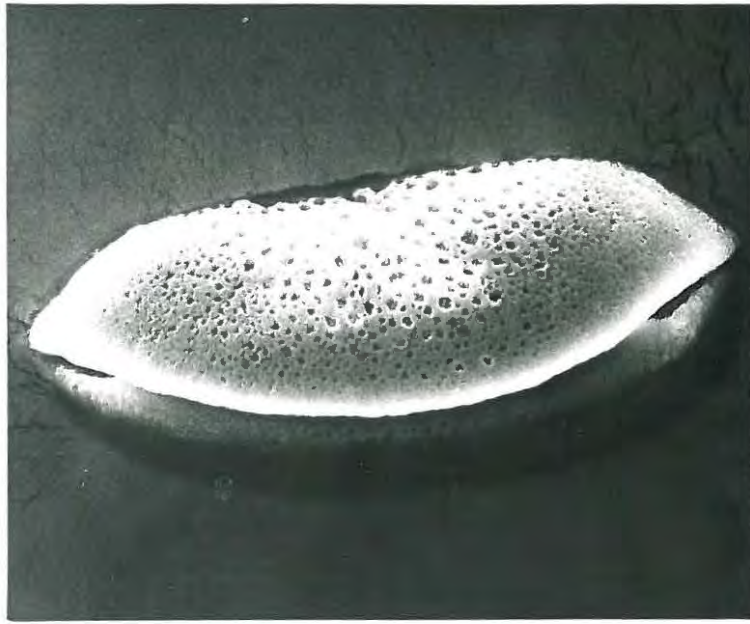


FIG. 44  
Pollen of Massonia angustifolia. x1800.



FIG. 45  
Pollen of Massonia angustifolia. x5000.

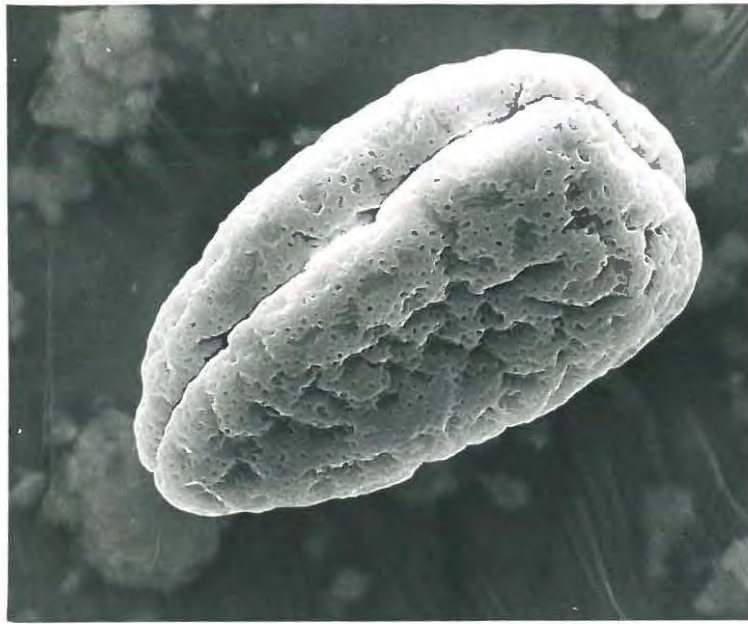


FIG. 46  
Pollen of Massonia depressa. x2000.

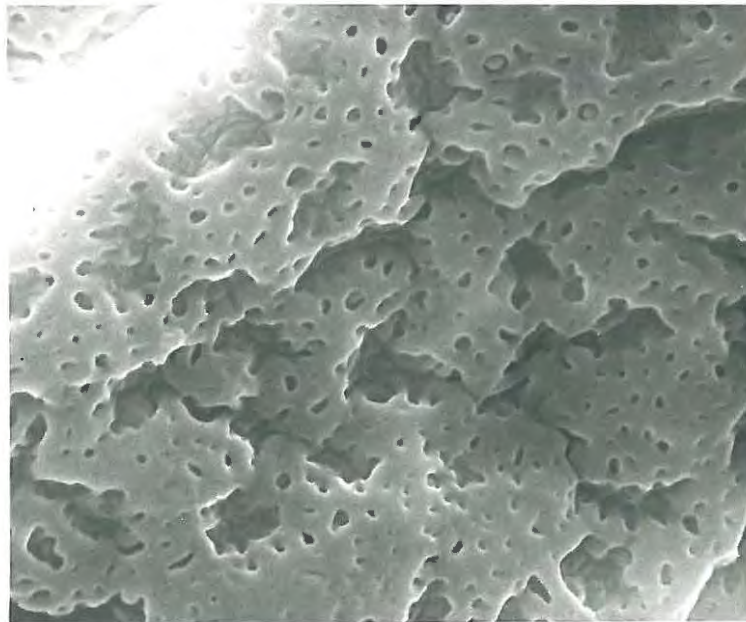


FIG. 47  
Pollen of Massonia depressa. x6000.

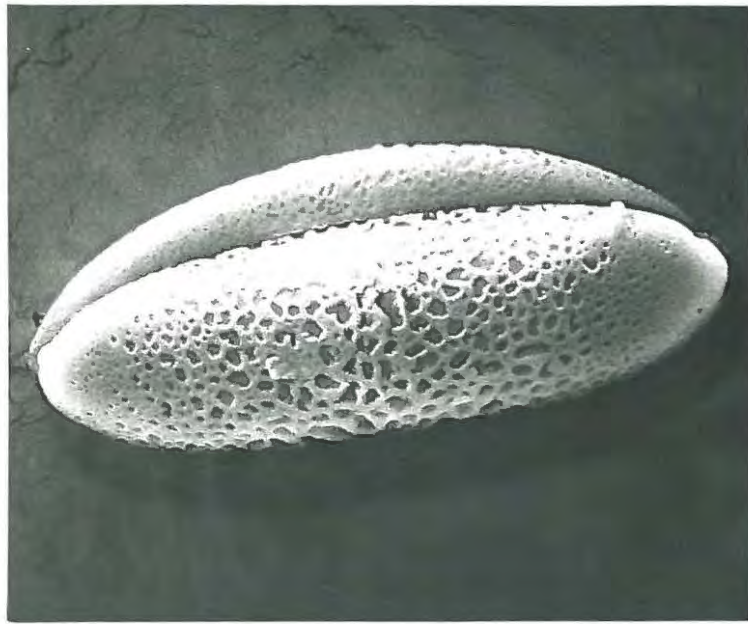


FIG. 48  
Pollen of Daubenyia aurea. x1800.

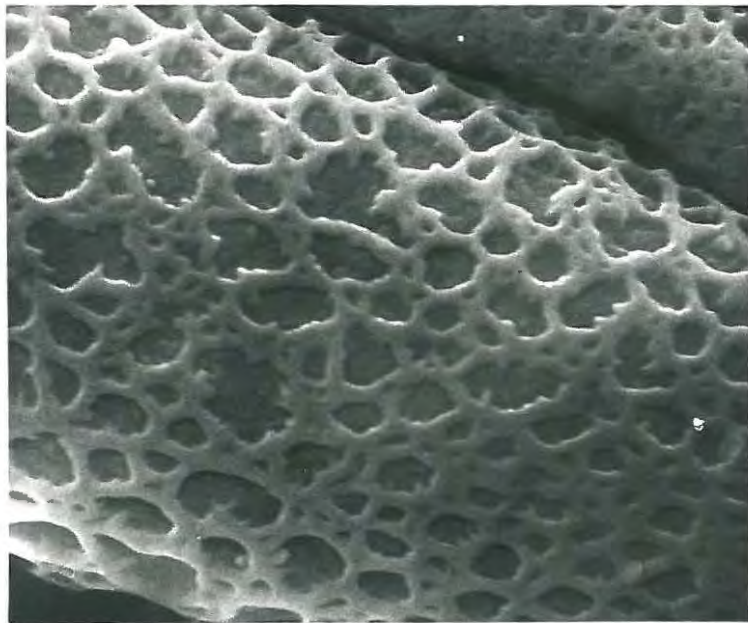


FIG. 49  
Pollen of Daubenyia aurea. x5000.

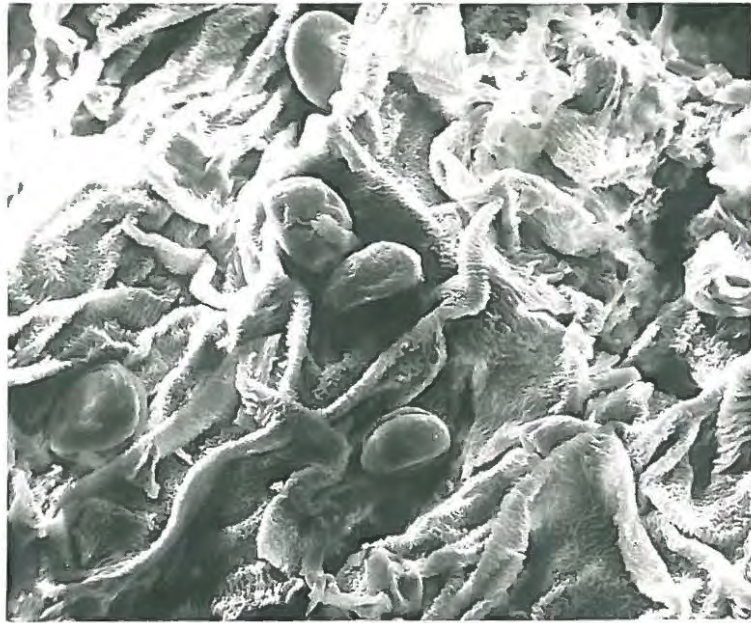


FIG. 50  
Pollen of Whiteheadia bifolia. x500.



FIGS 51 & 52  
Pollen of Whiteheadia bifolia. x3000.

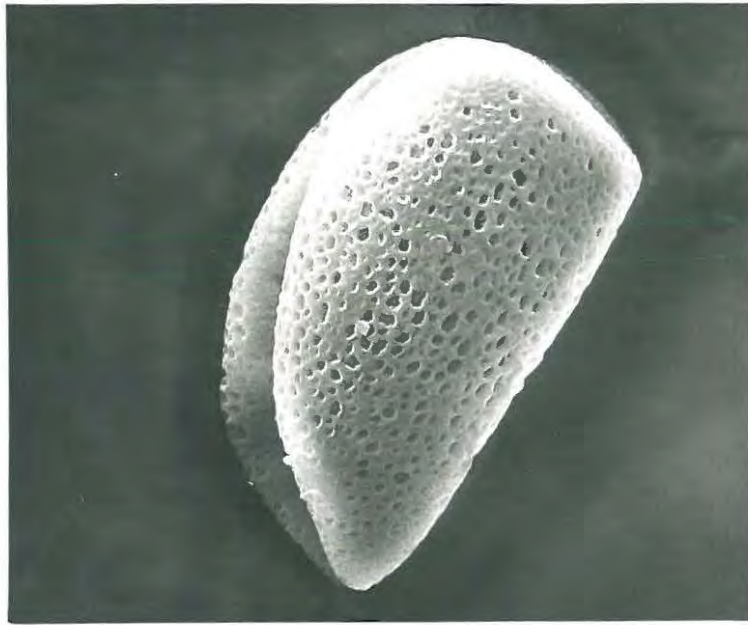


FIG. 53  
Pollen of Lachenalia sp. (Jessop s.n.). x2000.

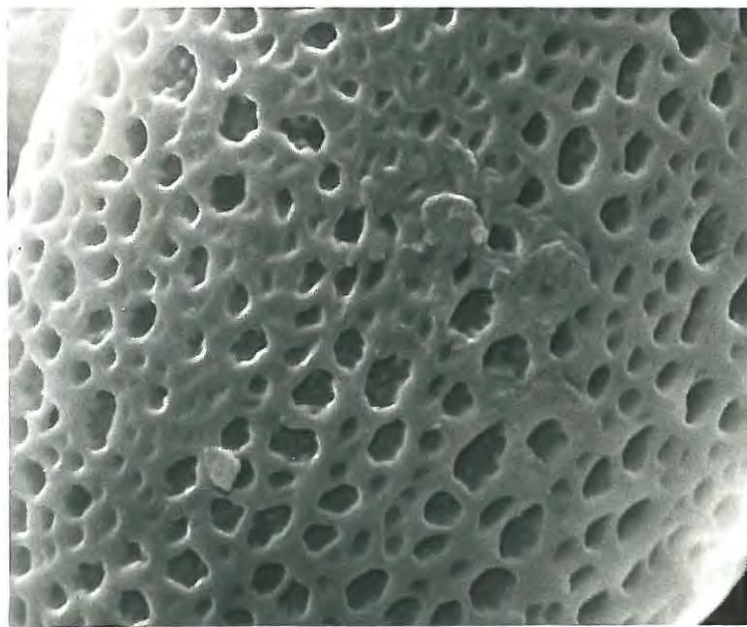


FIG. 53  
Pollen of Lachenalia sp. (Jessop s.n.). x2000.

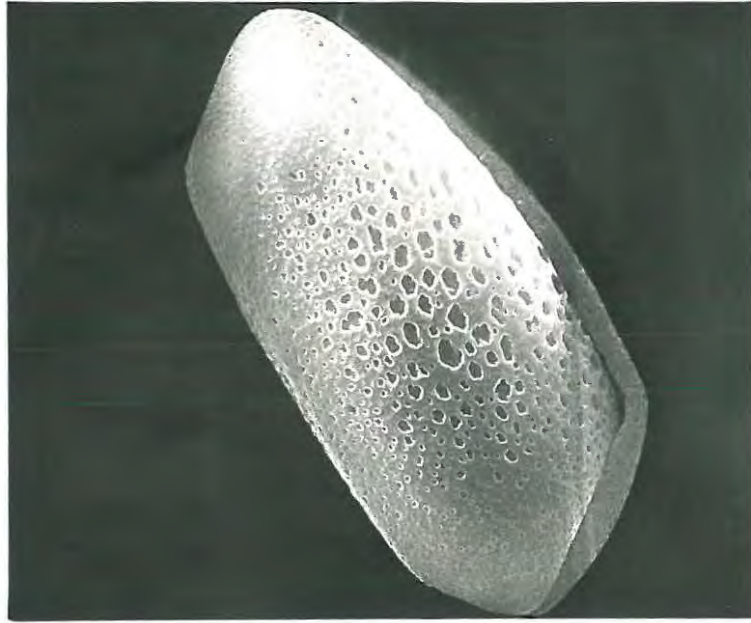


FIG. 55  
Pollen of Lachenalia pendula. x2000.

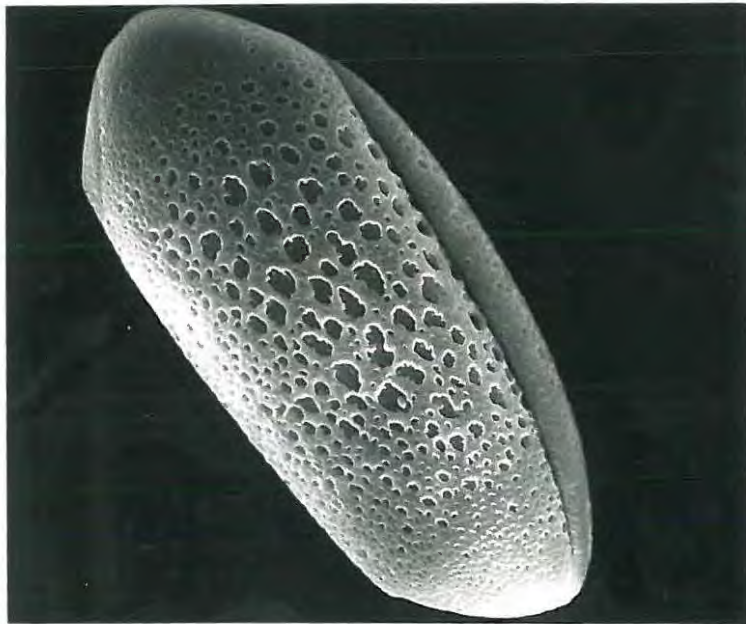


FIG. 56  
Pollen of Lachenalia sp. (Barker 10228). x2000.

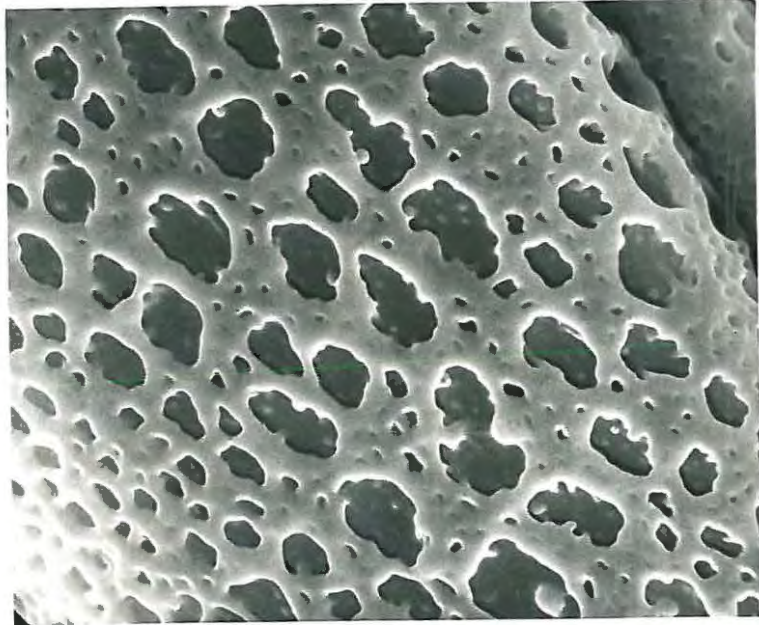


FIG. 57

Pollen of Lachenalia sp. (Barker 10228). x6000.

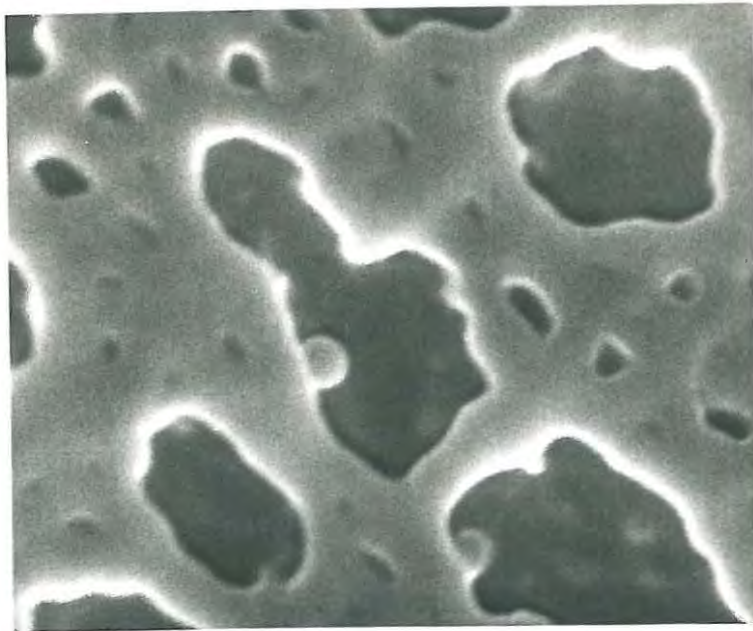


FIG. 58

Pollen of Lachenalia sp. (Barker 10228). x20 000.

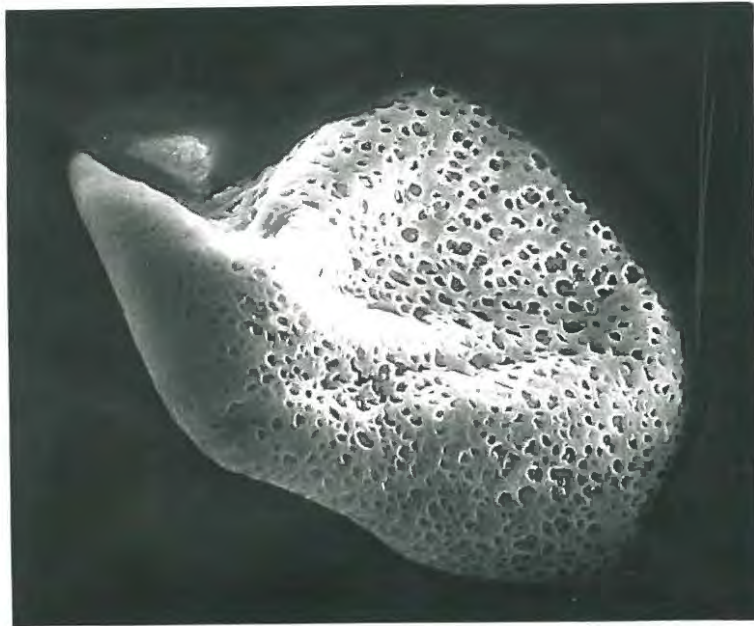


FIG. 59  
Pollen of Lachenalia aloides var quadricolor.  
x2000.

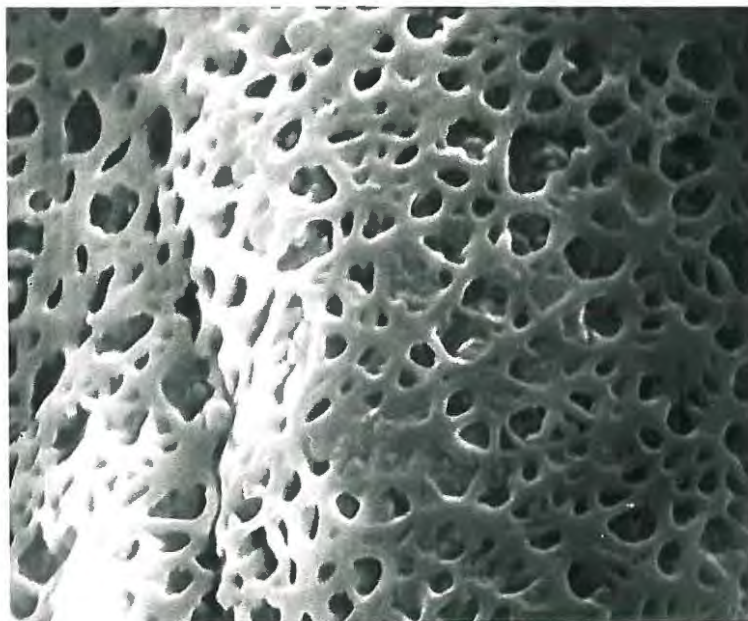


FIG. 60  
Pollen of Lachenalia aloides var quadricolor.  
x6000.

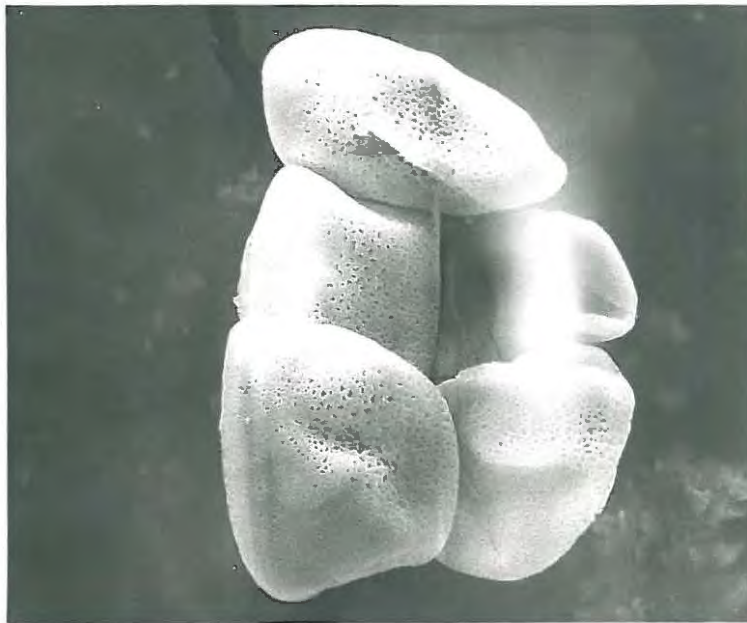


FIG. 61  
Pollen of Eucomis autumnalis var clavata.  
x1000.

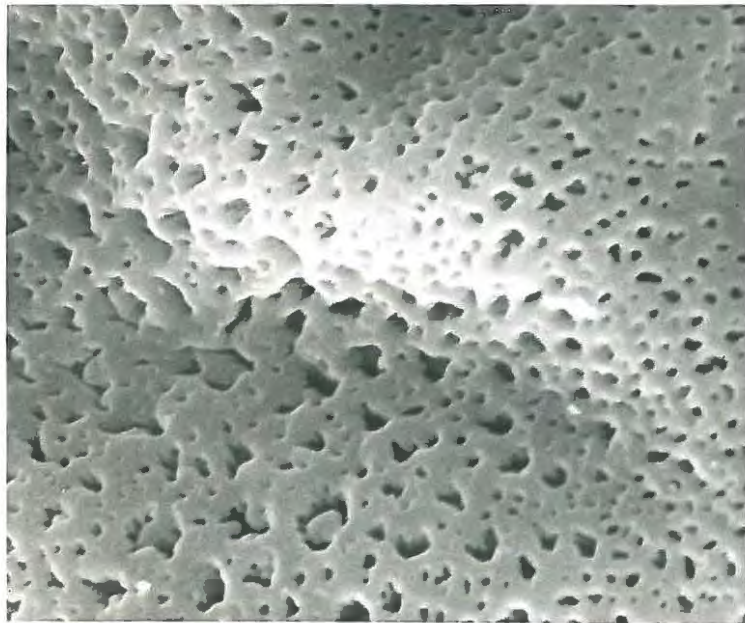


Fig. 62  
Pollen of Eucomis autumnalis var clavata.  
x6000.

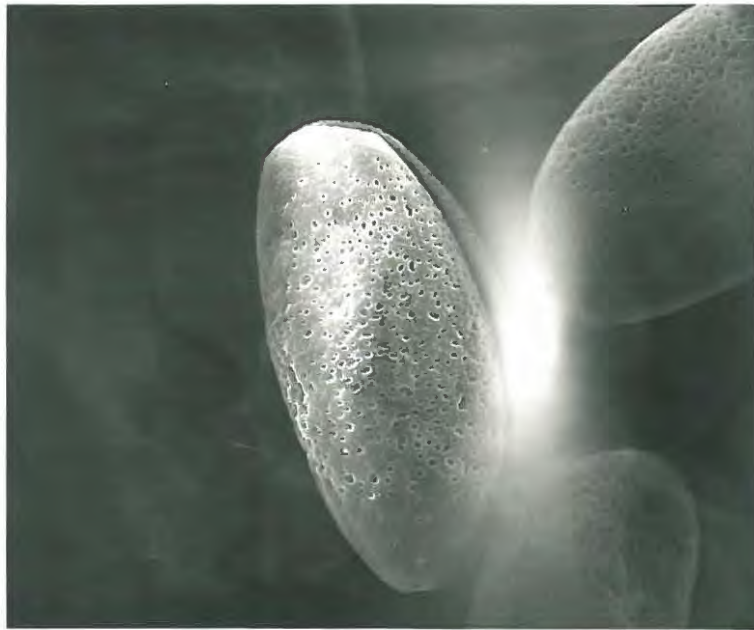


FIG. 63  
Pollen of Veltheimia viridifolia. x1000.

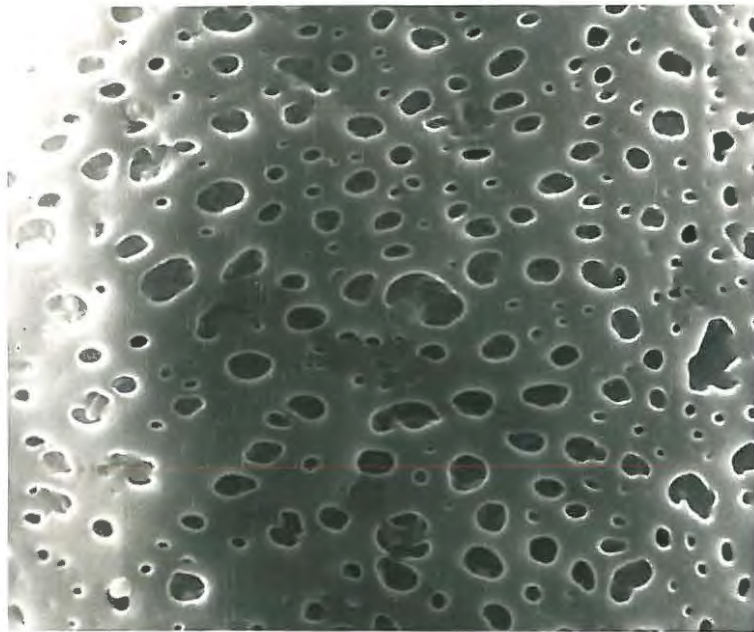


FIG. 64  
Pollen of Veltheimia viridifolia. x5000.

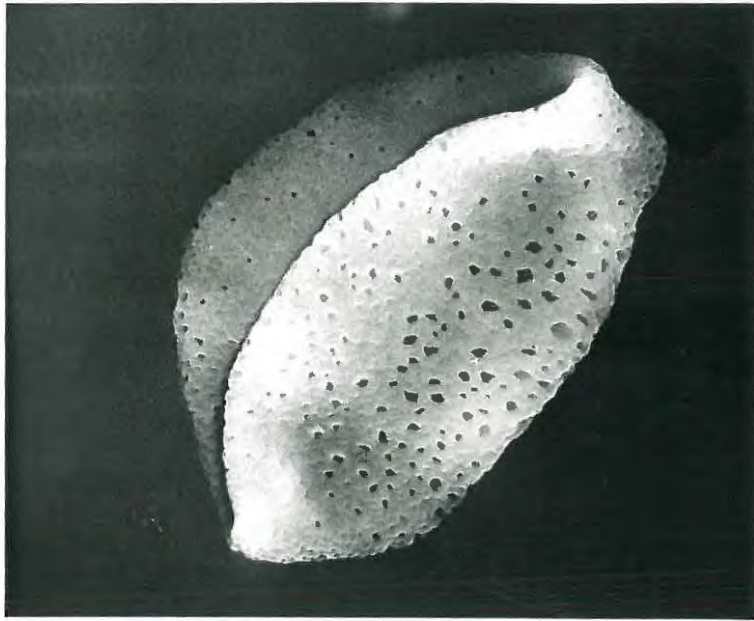


FIG. 65  
Pollen of Urginea altissima. x2000.

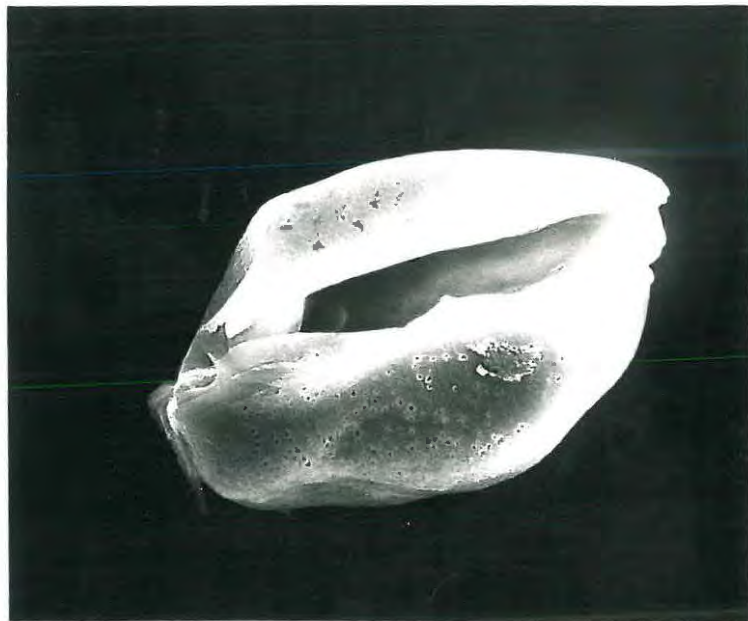


FIG. 66  
Pollen of Urginea capitata. x1000.



FIG. 67  
Pollen of Urginea capitata. x6000.

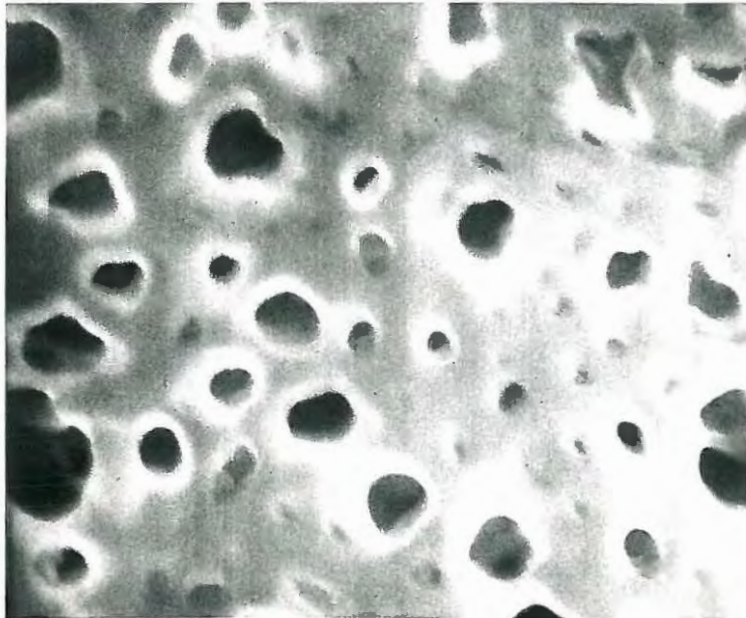


FIG. 68  
Pollen of Urginea capitata. x15 000.



FIG. 69  
Pollen of Urginea delagoensis. x1000.



FIG. 70  
Pollen of Urginea delagoensis. x2000.



FIG. 71  
Pollen of Urginea fragrans. x1000.



FIG. 72  
Pollen of Urginea fragrans. x1000.



FIGS 73 & 74

Pollen of Drimia hyacinthoides. x1000.



FIG. 75

Pollen of Drimia hyacinthoides. x3000.

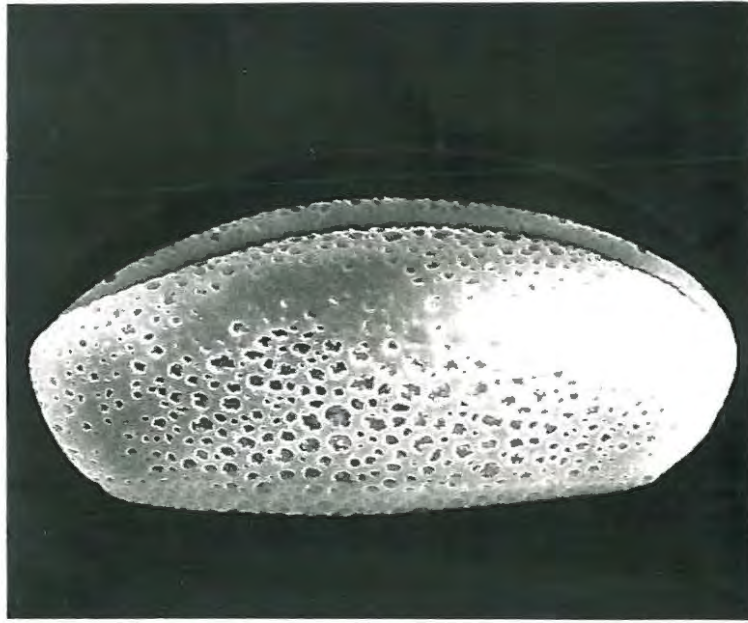


FIG. 76  
Pollen of Scilla natalensis. x2000.

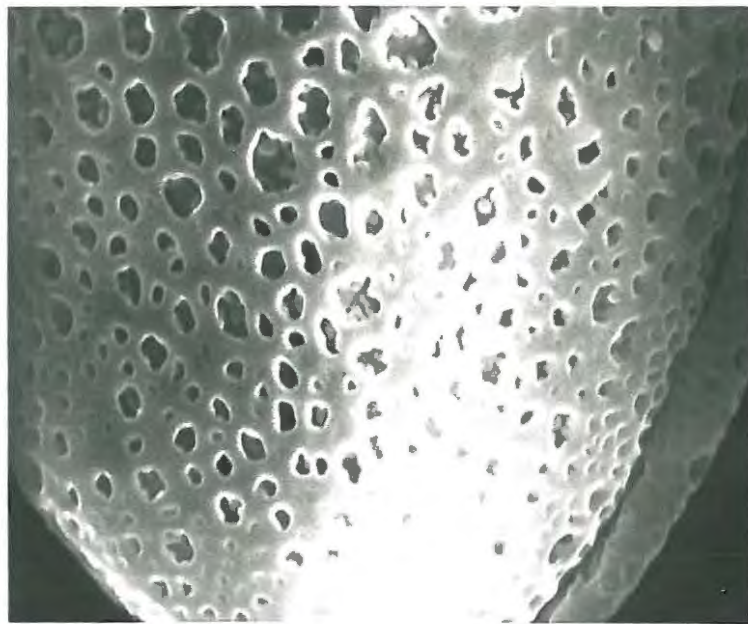


FIG. 77  
Pollen of Scilla natalensis. x6000.

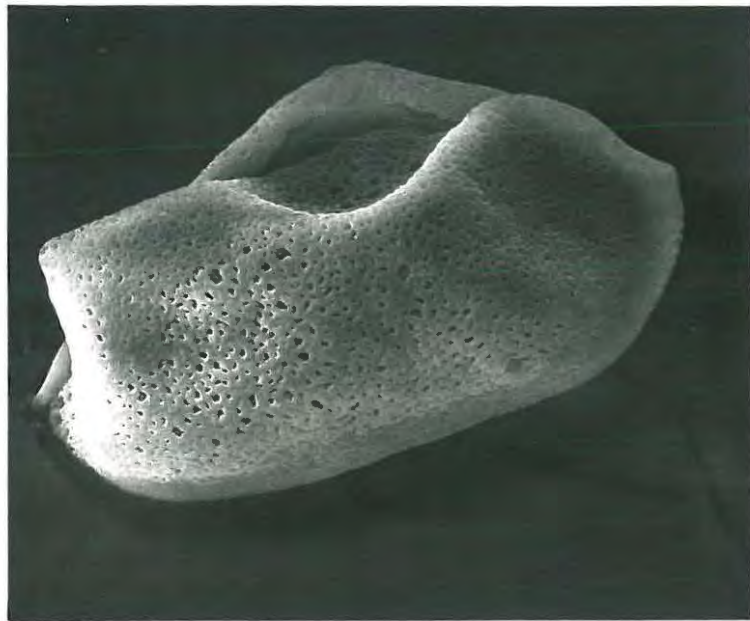


FIG. 78  
Pollen of Scilla nervosa. x1800.

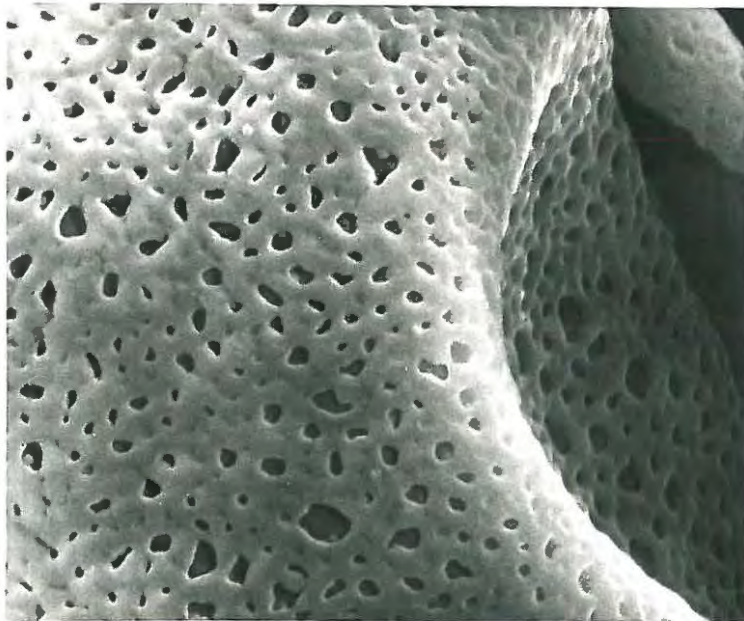


FIG. 79  
Pollen of Scilla nervosa. x5000.

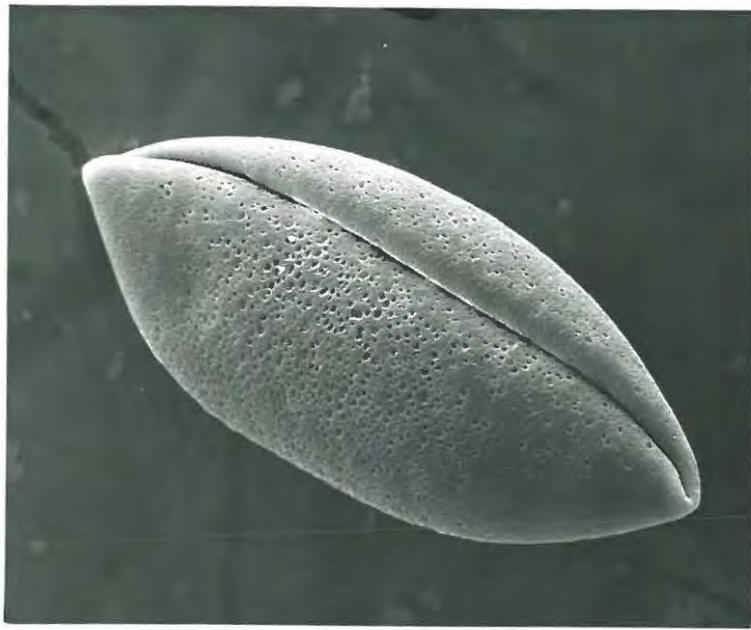


FIG. 80  
Pollen of Ornithogalum longibracteatum. x1000.

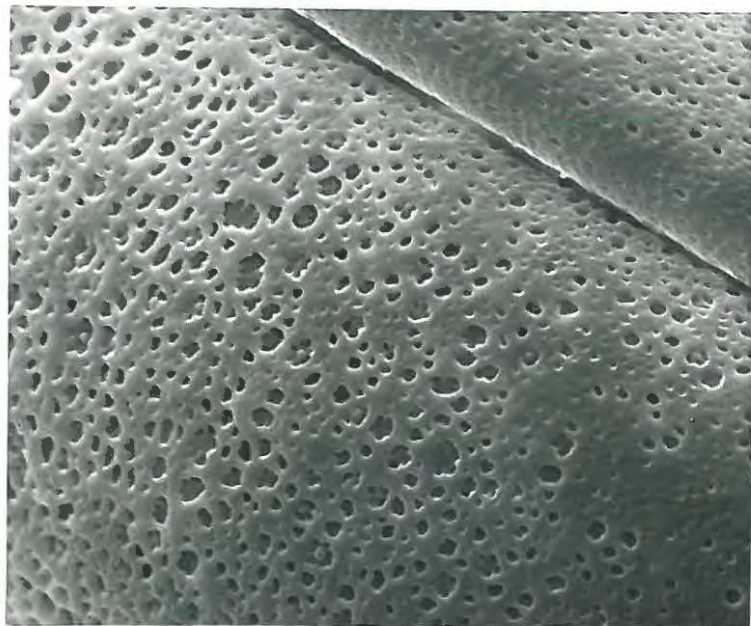


FIG. 81  
Pollen of Ornithogalum longibracteatum. x3000.



FIG. 82  
Pollen of Bulbine frutescens. x300.

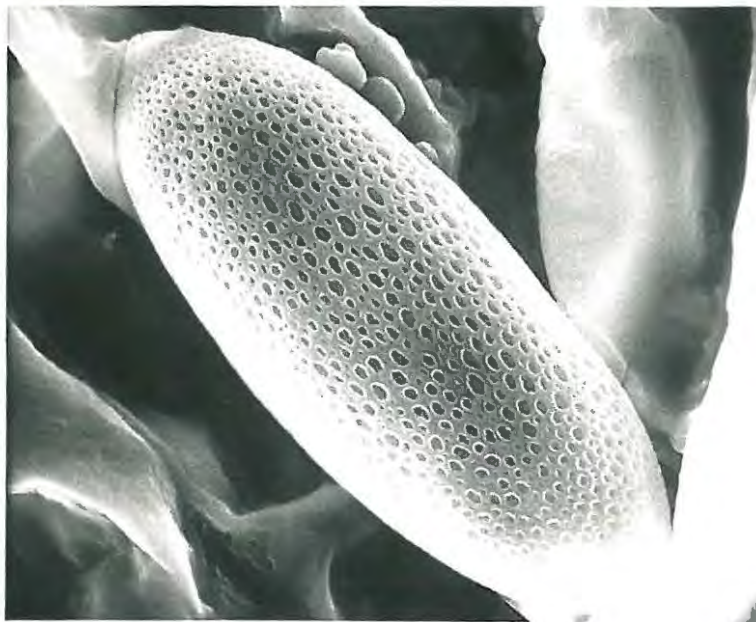


FIG. 83  
Pollen of Bulbine frutescens. x2000.



FIGS 84 & 85  
Pollen of Chlorophytum comosum. x2000.

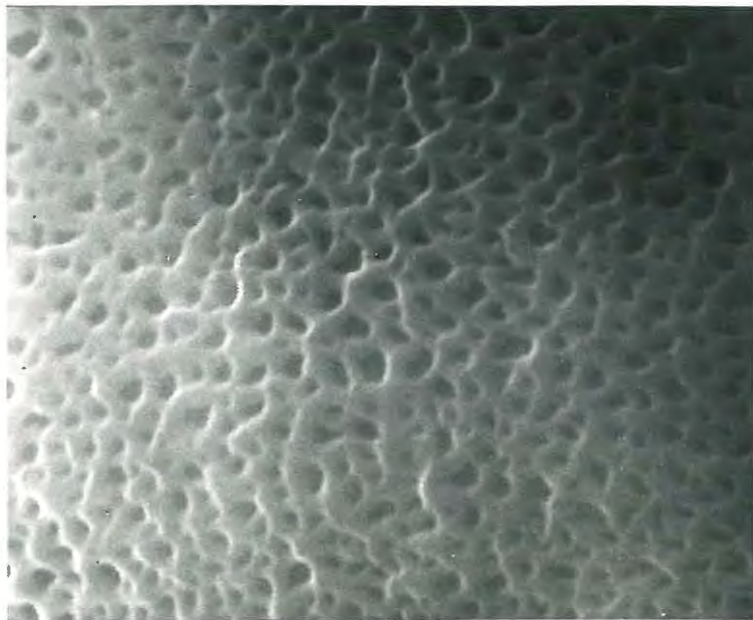


FIG. 86  
Pollen of Chlorophytum comosum. x10 000.

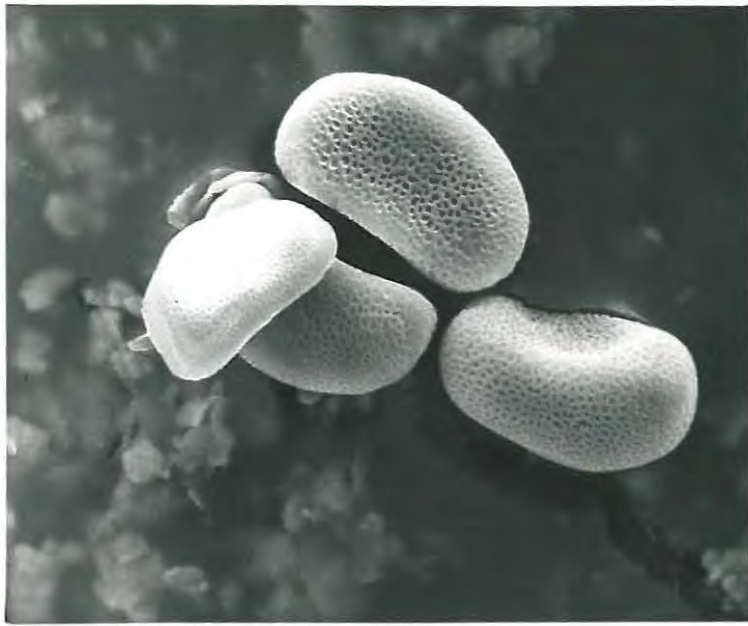


FIG. 87

Pollen of Androcymbium sp. x2000

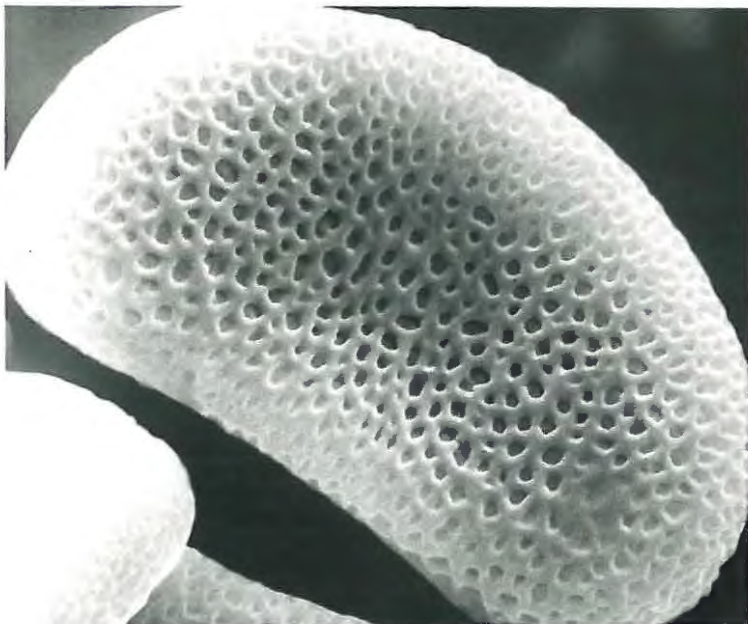


FIG. 88

Pollen of Androcymbium sp. x6000.



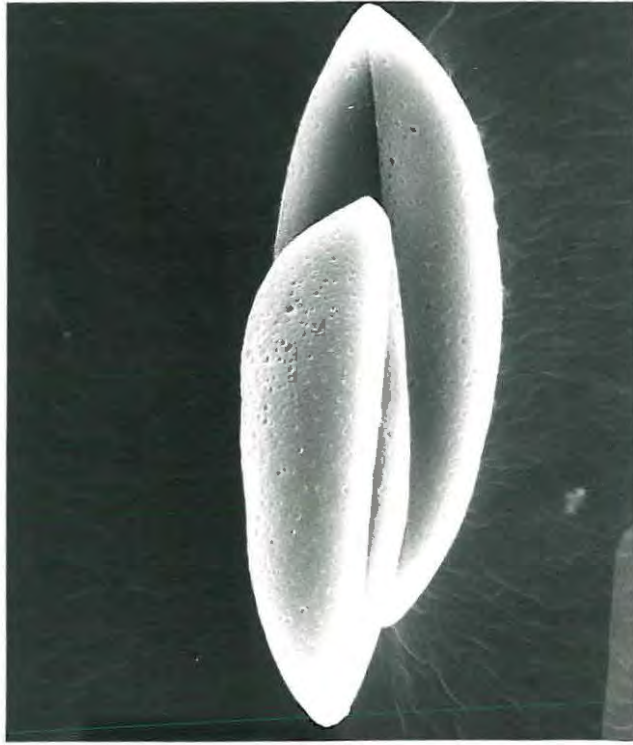


FIG. 89

Pollen of Asparagus asparagoides, x1400.

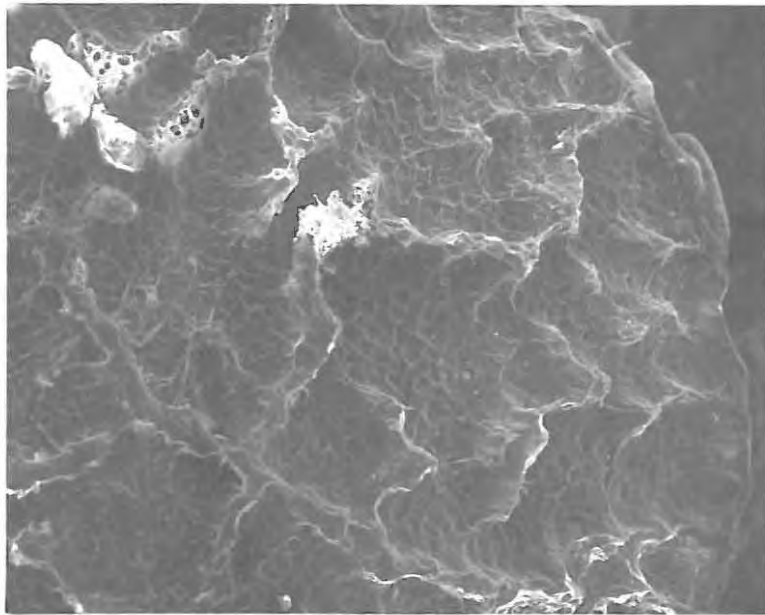


FIG. 90  
Seed of Bulbine frutescens. x100.

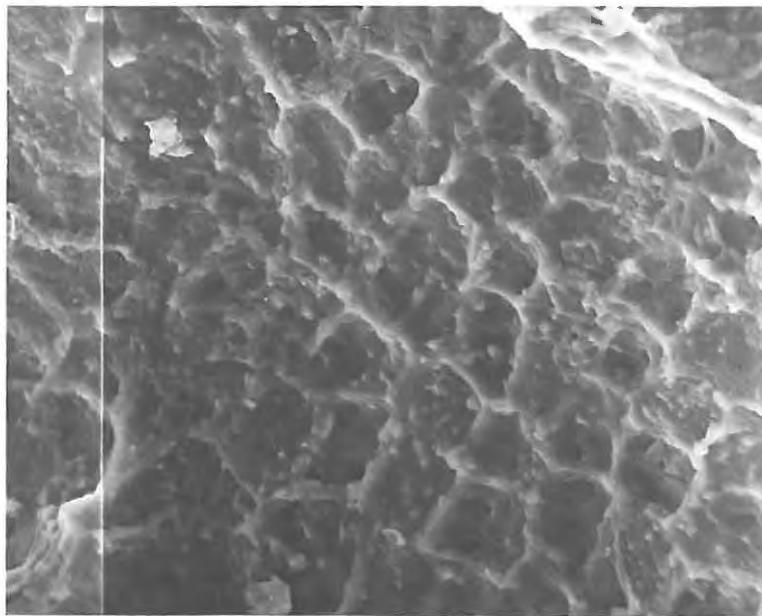


FIG. 91  
Seed of Bulbine frutescens. x500.



FIG. 92  
Seed of Schizobasis intricata. x100.

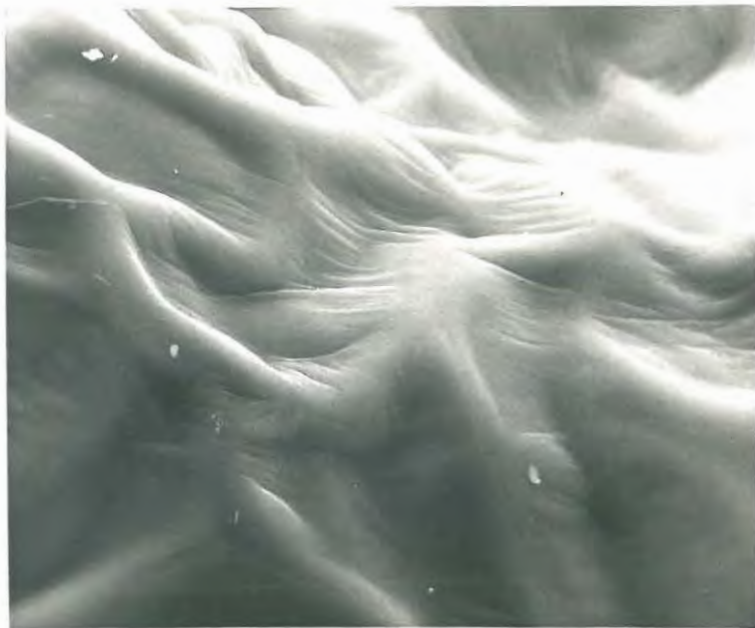


FIG. 93  
Seed of Schizobasis intricata. x1000.

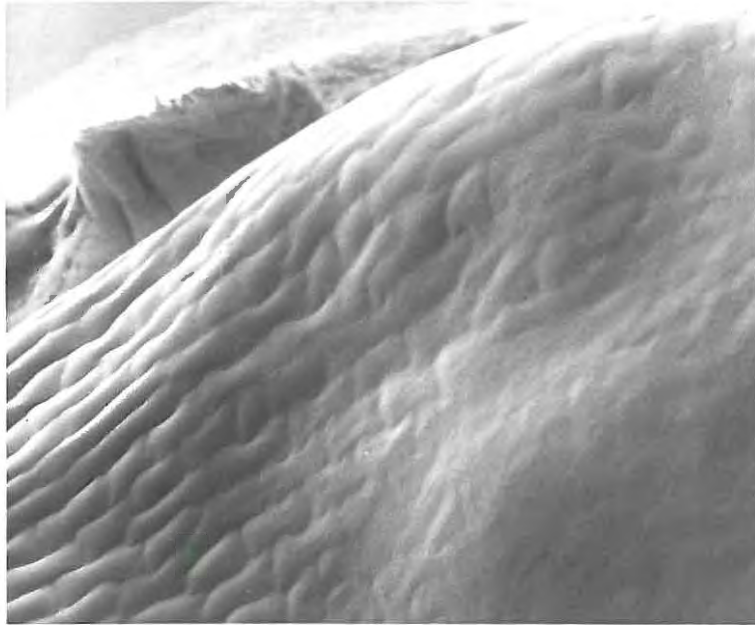


FIG. 94  
Seed of Bowiea volubilis. x100.

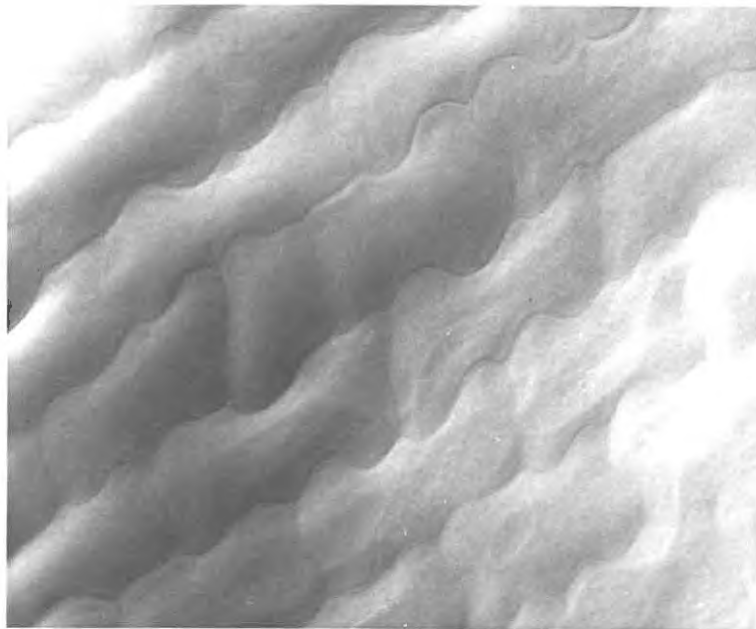


FIG. 95  
Seed of Bowiea volubilis. x300.

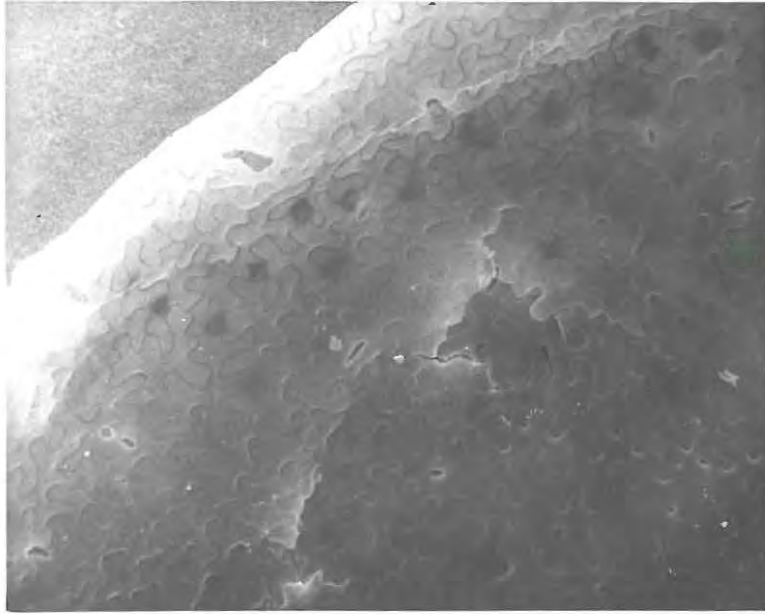


FIG. 96  
Seed of Albuca canadensis. x100.

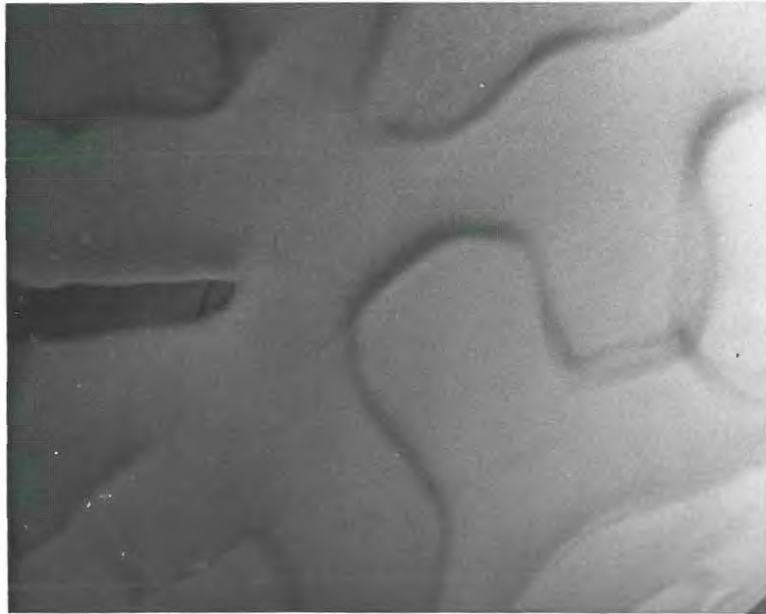


FIG. 97  
Seed of Albuca canadensis. x1000.

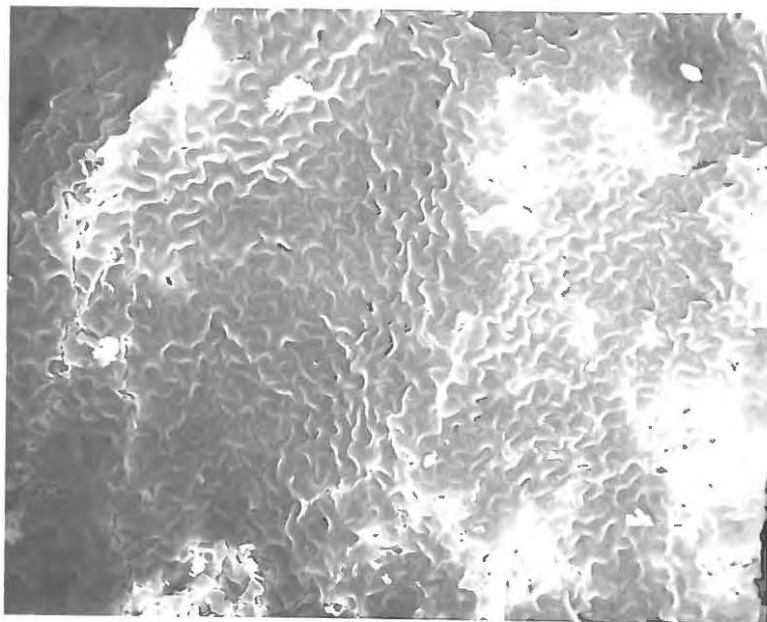


FIG. 98  
Seed of Albuca patersonii. x100.

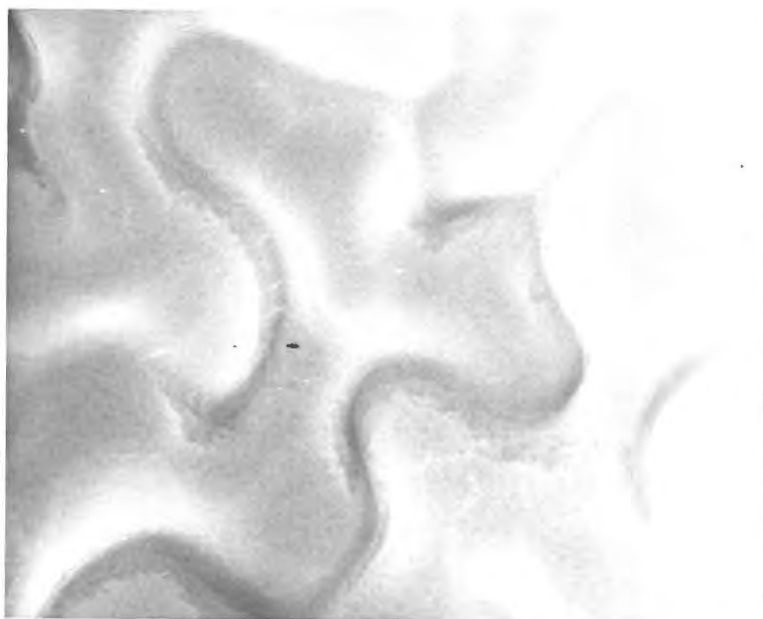


FIG. 99  
Seed of Albuca patersonii. x1000.

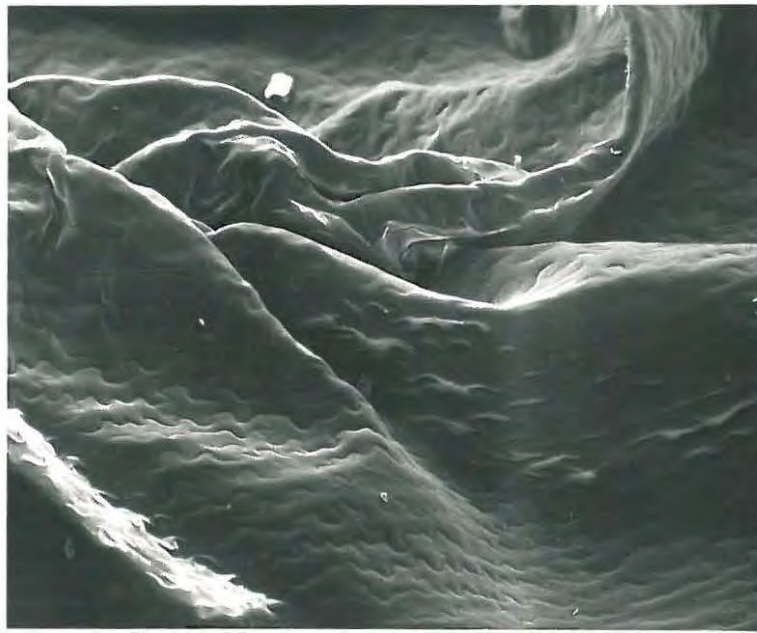


FIG. 100  
Seed of Galtonia princeps. x100.

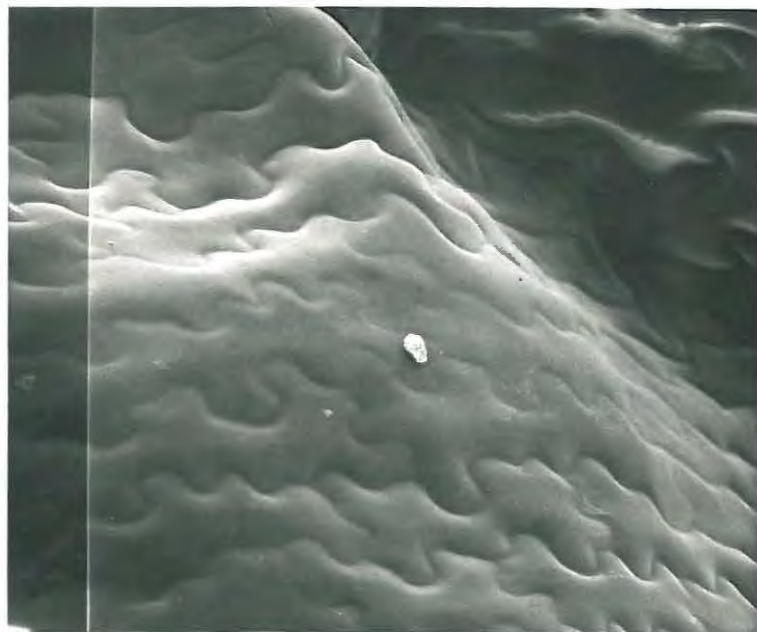


FIG. 101  
Seed of Galtonia princeps. x300.

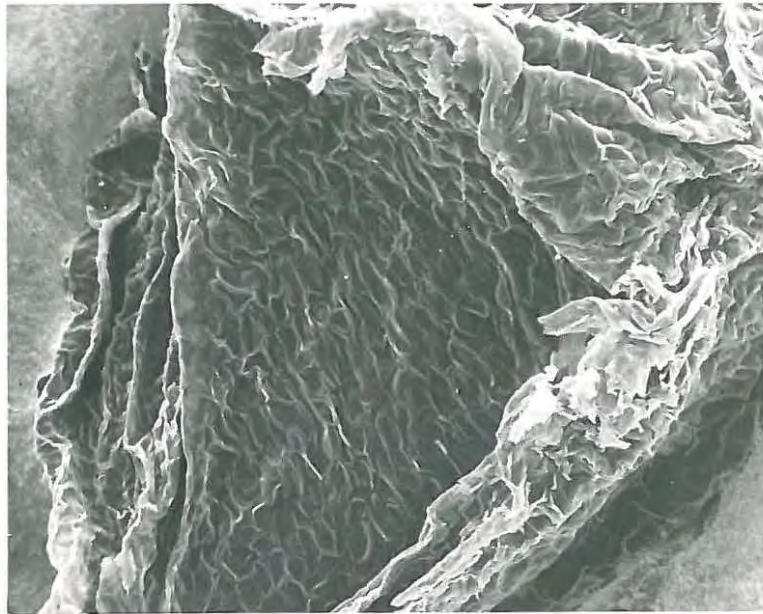


FIG. 102  
Seed of Drimia anomala. x100.



FIG. 103  
Seed of Drimia anomala. x1000.



FIG. 104  
Seed of Urginea delagoensis. x100.

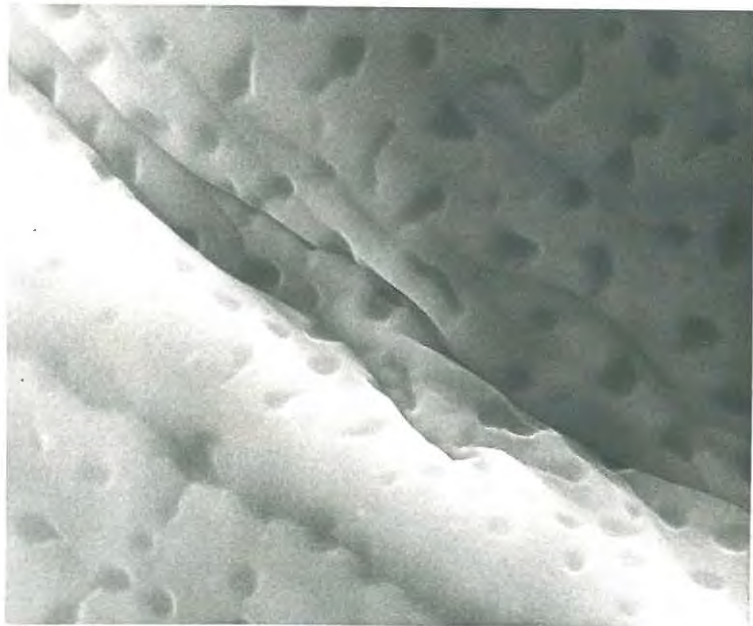


FIG. 105  
Seed of Urginea delagoensis. x3000.



FIG. 106  
Seed of Urginea basutica. x100.

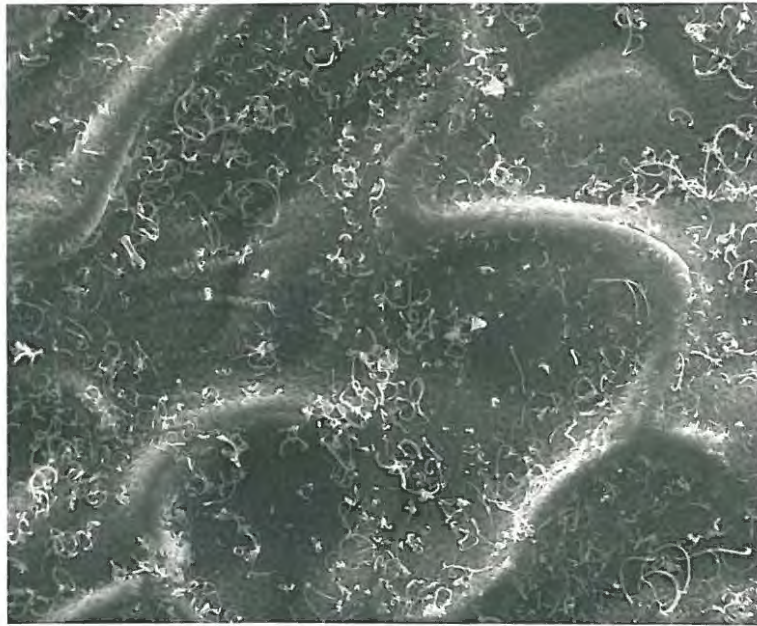


FIG. 107  
Seed of Urginea basutica. x300.



FIG. 108  
Seed of Urginea fragrans. x100.

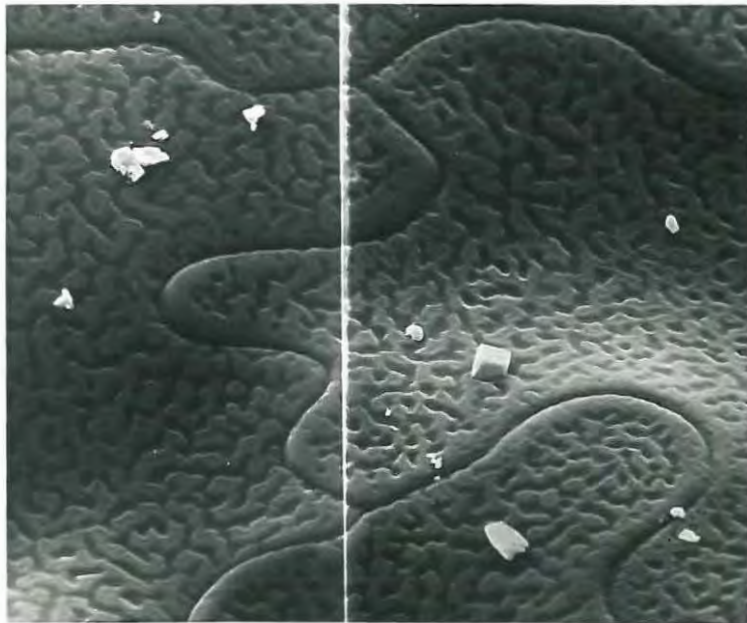


FIG. 109  
Seed of Urginea fragrans. x1000.

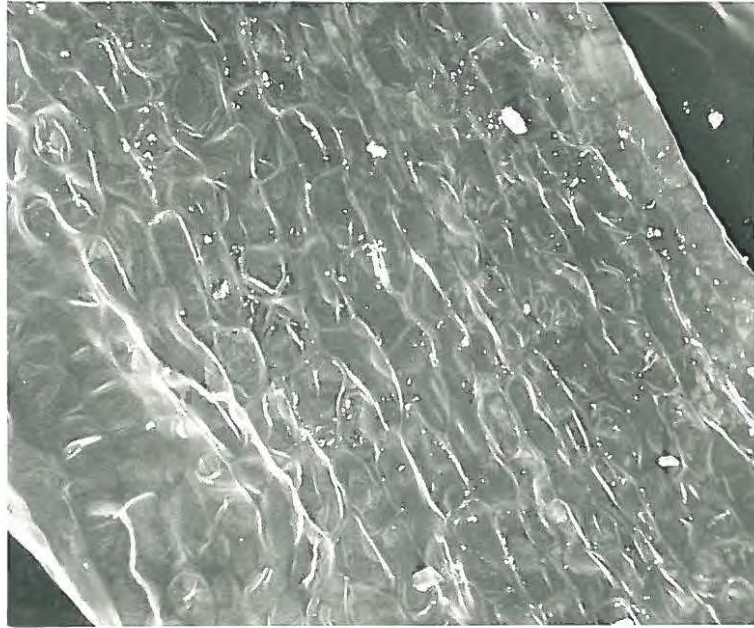


FIG. 110  
Seed of Drimia media. x100.

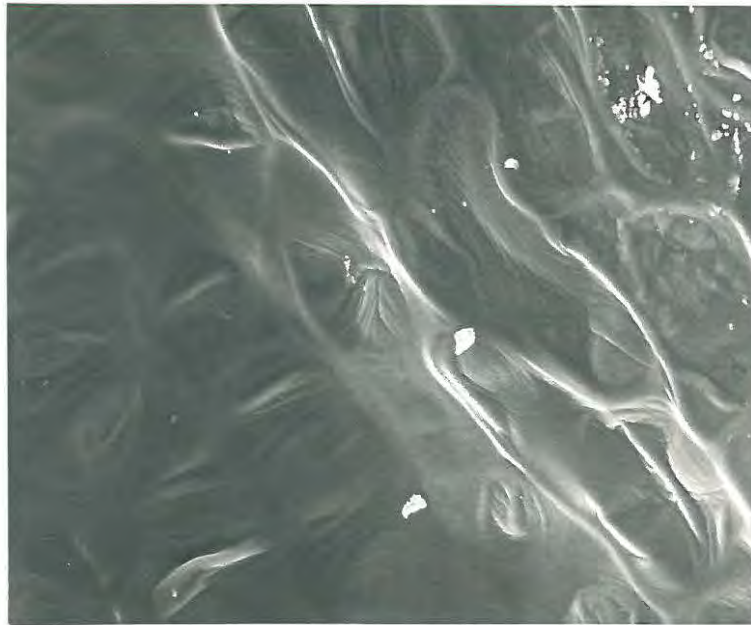


FIG. 111  
Seed of Drimia media. x300.

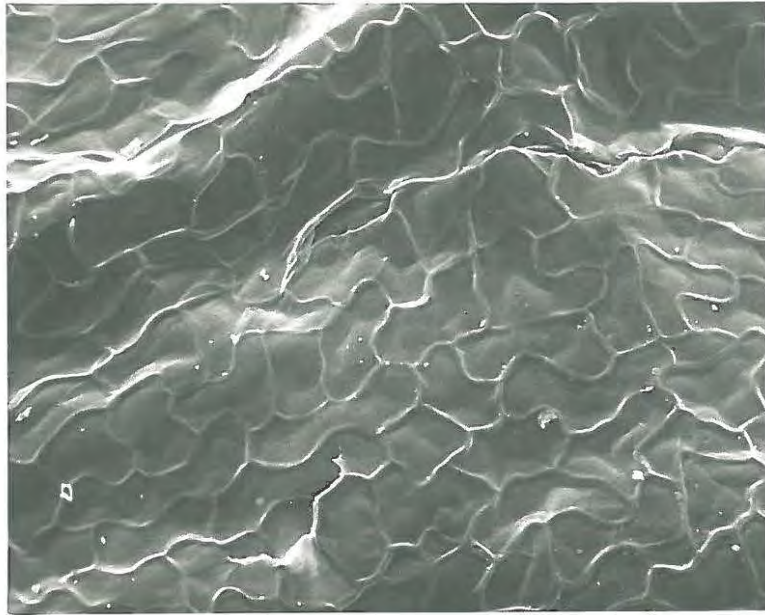


FIG. 112  
Seed of Urginea pusilla. x100.

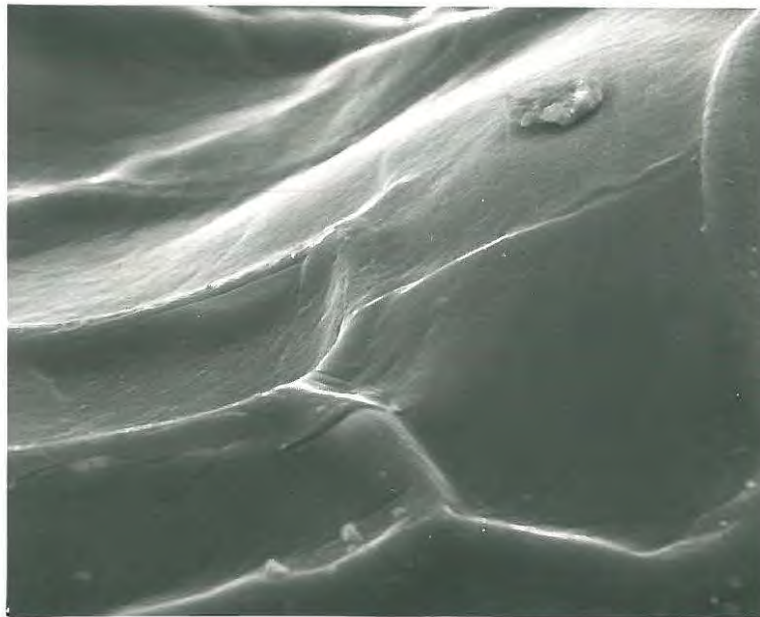


FIG. 113  
Seed of Urginea pusilla. x1000.

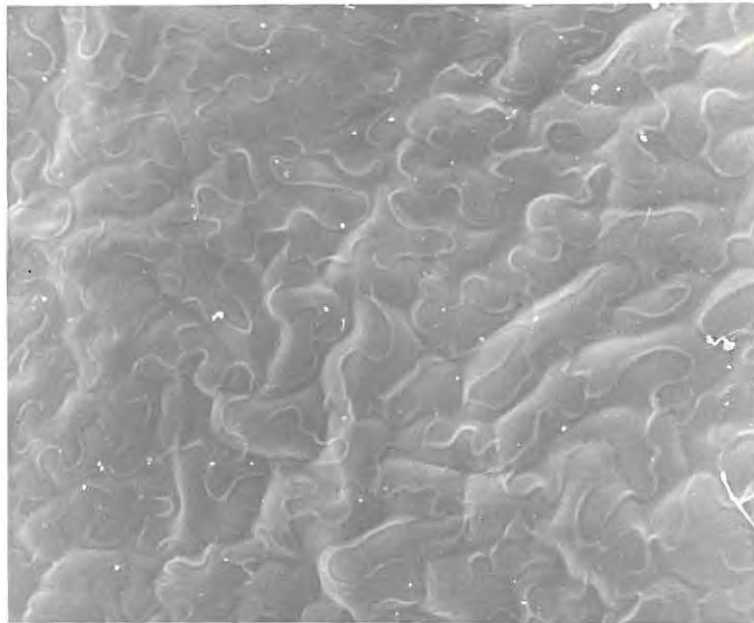


FIG. 114  
Seed of Urginea sanguinea. x100.

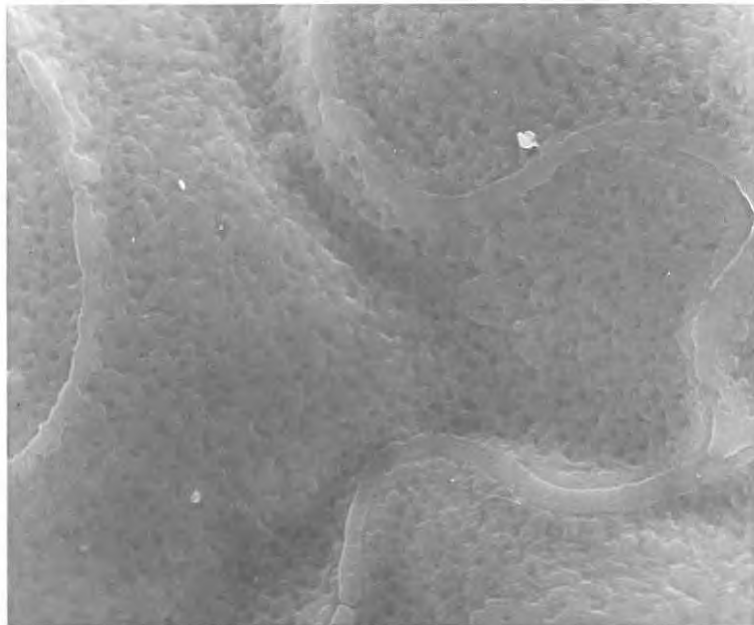


FIG. 115  
Seed of Urginea sanguinea. x1000.

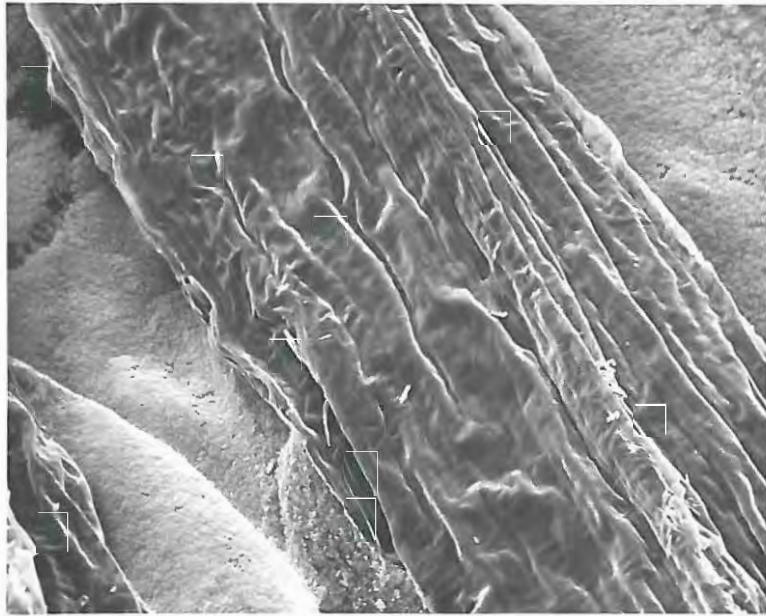


FIG. 116  
Seed of Urginea modesta (Tvl. Mus 32493). x100.

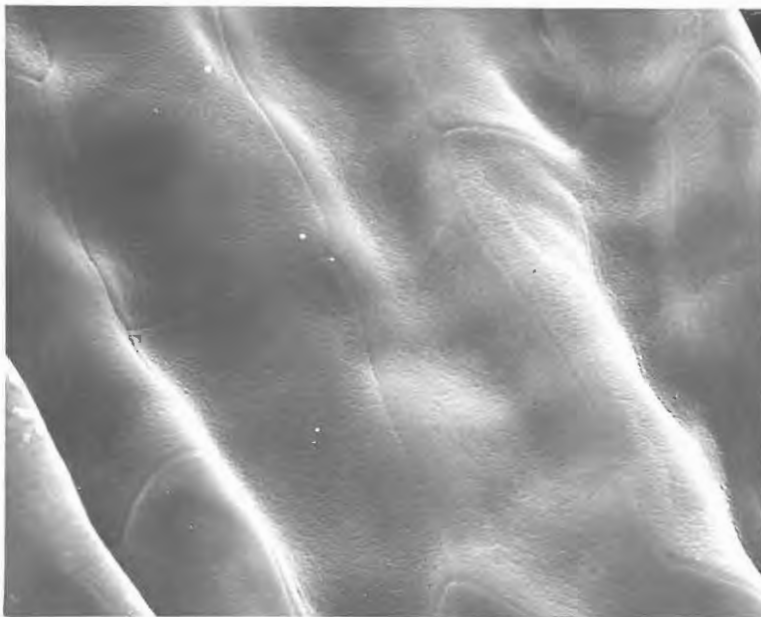


FIG. 117  
Seed of Urginea modesta (Tvl. Mus 32493). x1000.



FIG. 118  
Seed of Urginea modesta (Jessop 853). x100.

FIGS 119 & 120  
Seed of Urginea modesta (Jessop 853). x1000.



FIG. 121

Seed of Urginea multisetosa (Strey 3054). x100.

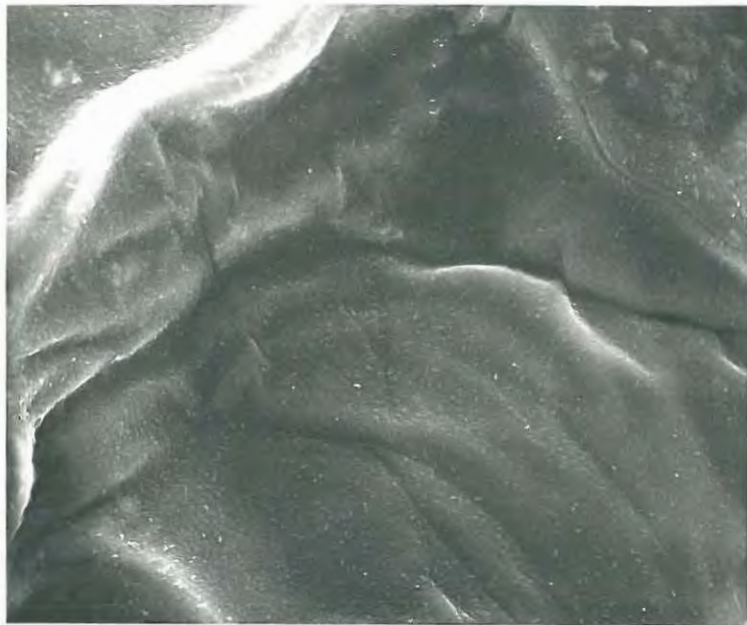


FIG. 122

Seed of Urginea multisetosa, (Strey 3054). x1000.



FIG. 123

Seed of Urginea multisetosa (Scheepers 686). x100.

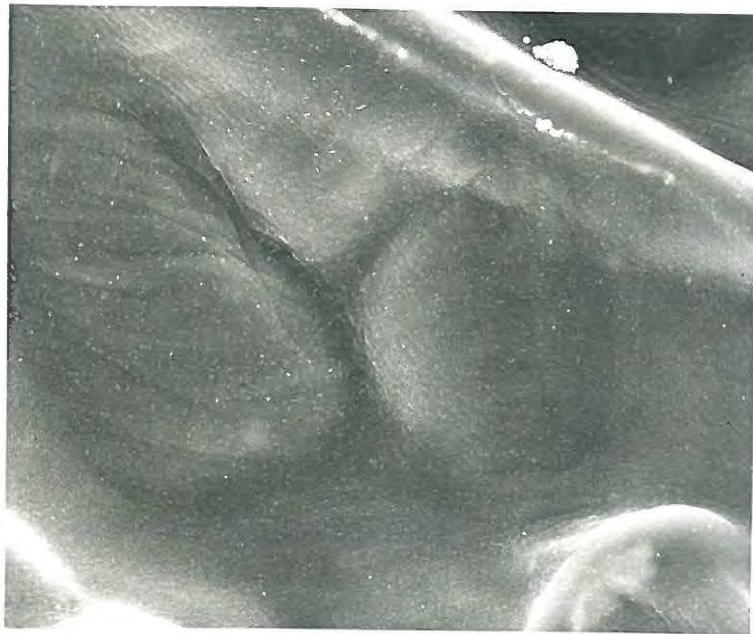


FIG. 124

Seed of Urginea multisetosa (Scheepers 686). x1000.

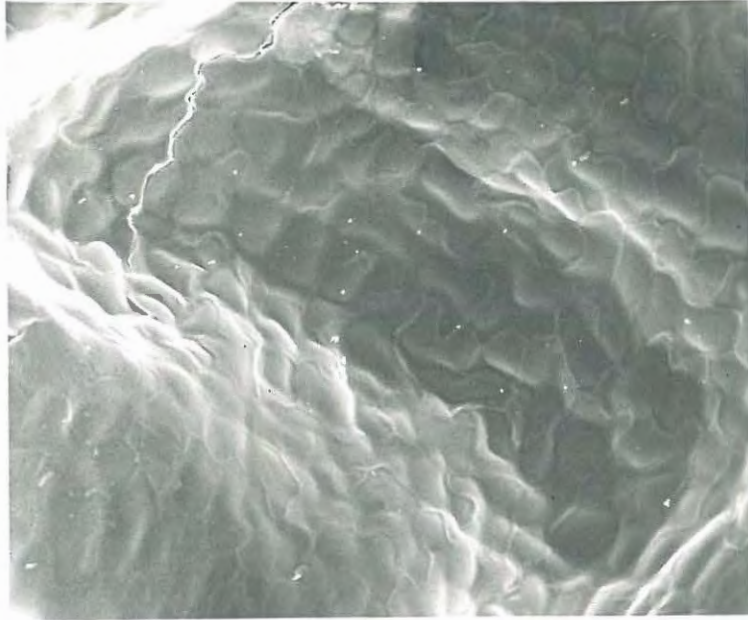


FIG. 125

Seed of Urginea marginata. x100.



FIG. 126

Seed of Urginea marginata. x1000.



FIG. 127  
Seed of Litanthus pusillus. x100.



FIG. 128  
Seed of Litanthus  
pusillus. x1000.

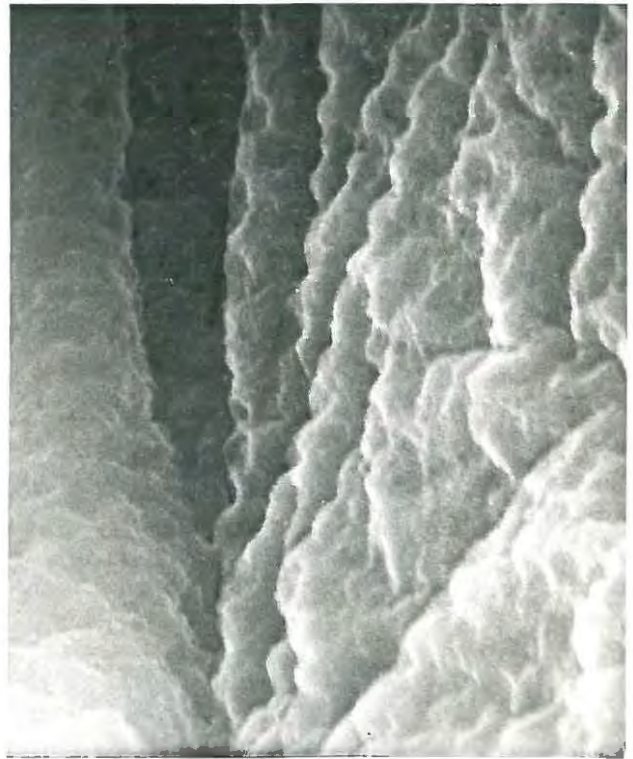


FIG. 129  
Seed of Litanthus  
pusillus. x10 000.

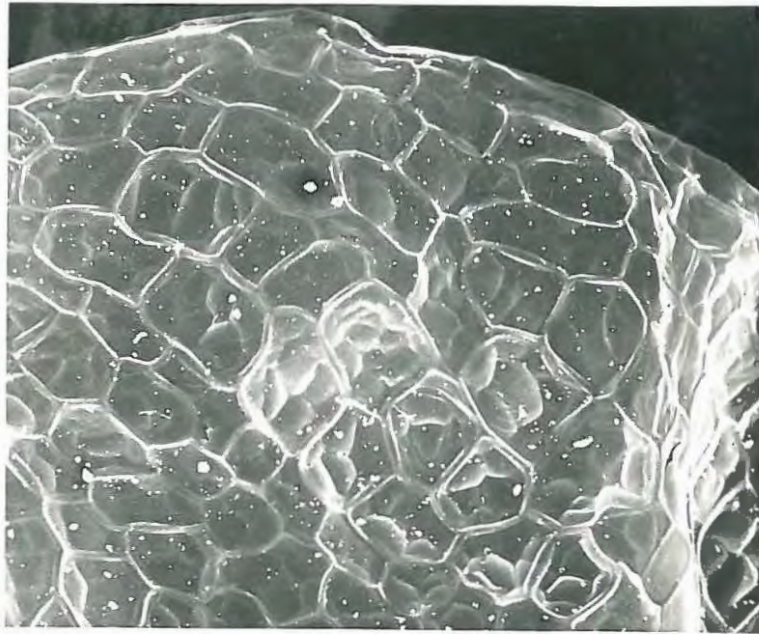


FIG. 130  
Seed of Rhadamanthus platyphyllus. x100.

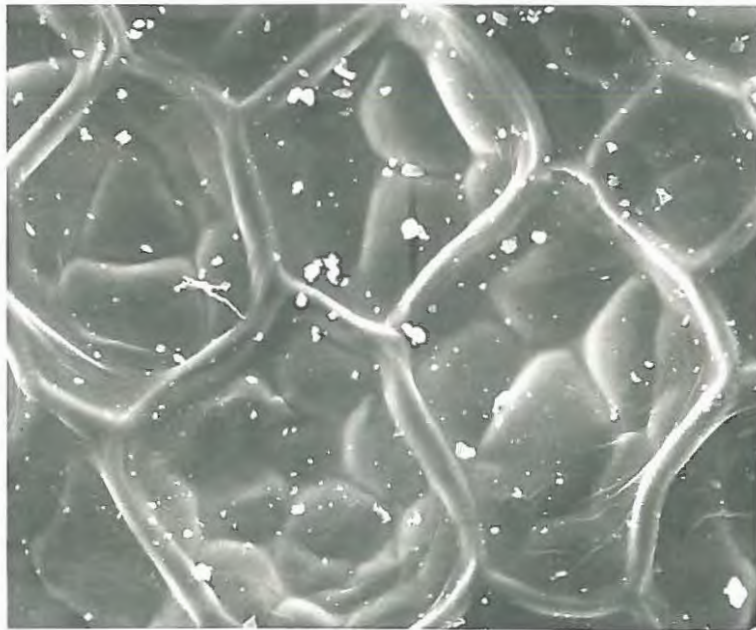


FIG. 131  
Seed of Rhadamanthus platyphyllus. x300.

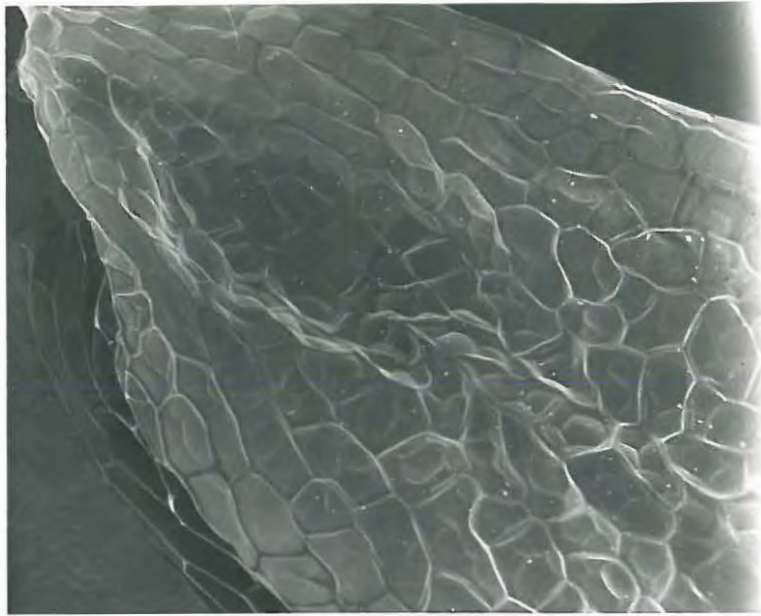


FIG. 132

Seed of Rhadamanthus sp. x100.

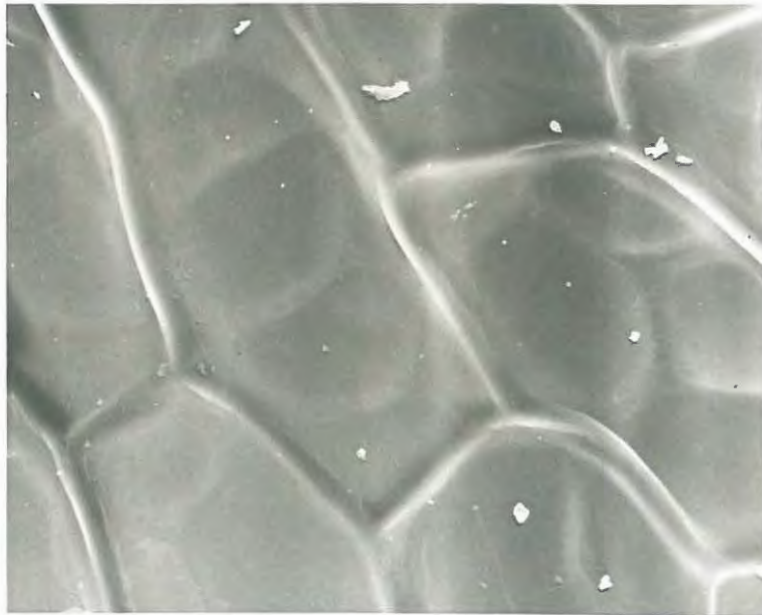


FIG. 133

Seed of Rhadamanthus sp. x500.

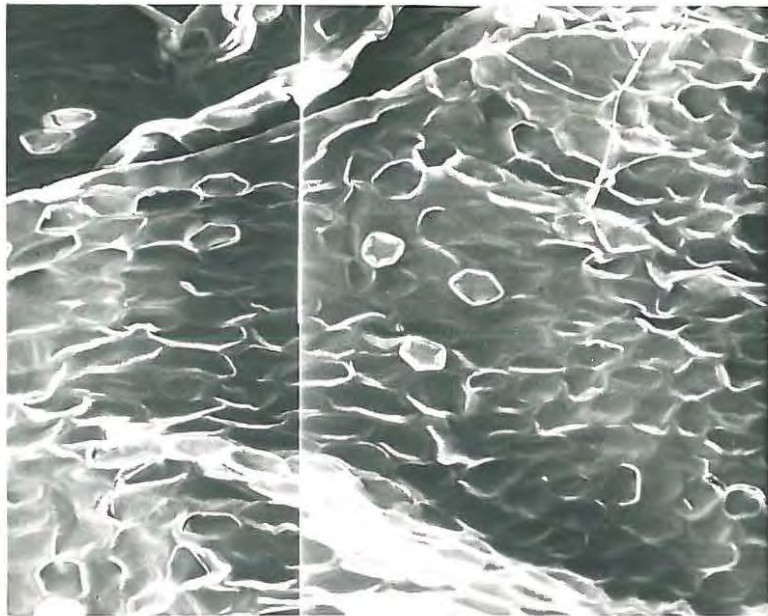


FIG. 134  
Seed of Dipcadi ciliare. x100.

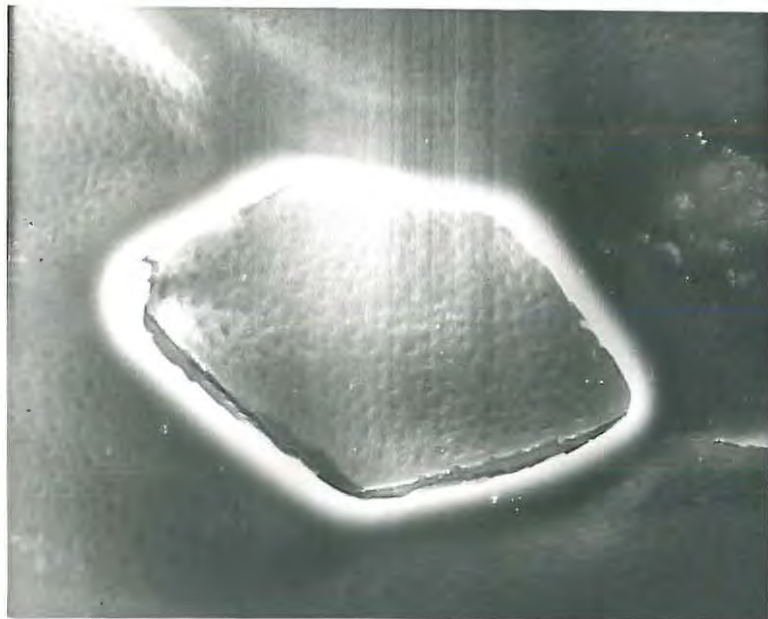


FIG. 135  
Seed of Dipcadi ciliare. x1000.

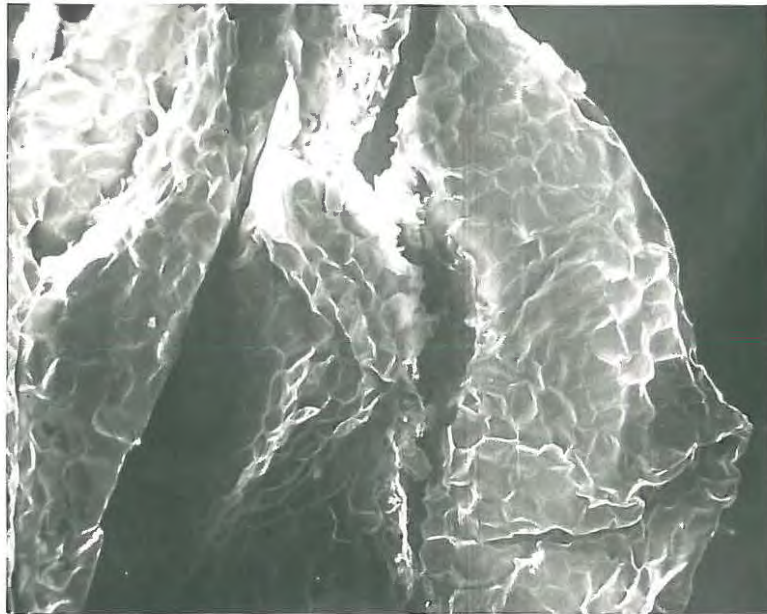


FIG. 136  
Seed of Dipcadi viride. x100.



FIG. 137  
Seed of Dipcadi viride. x1000.

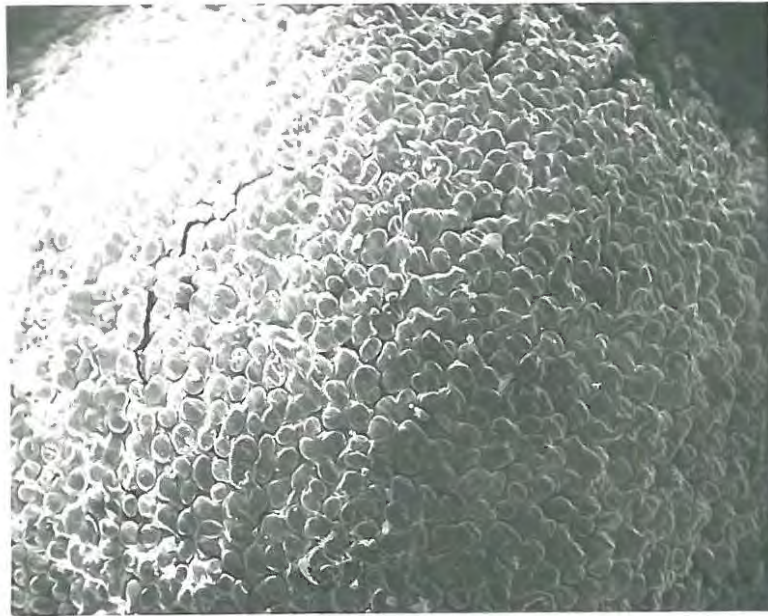


FIG. 138  
Seed of Scilla firmifolia. x100.

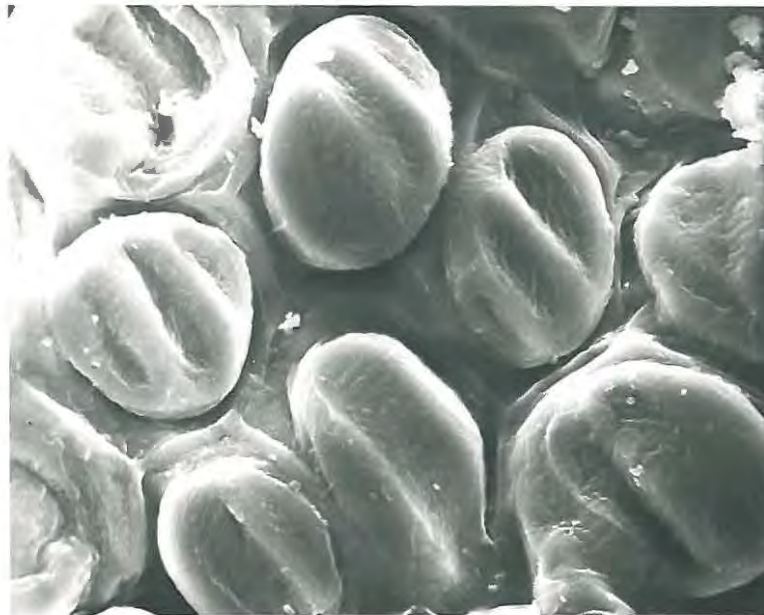


FIG. 139  
Seed of Scilla firmifolia. x1000.

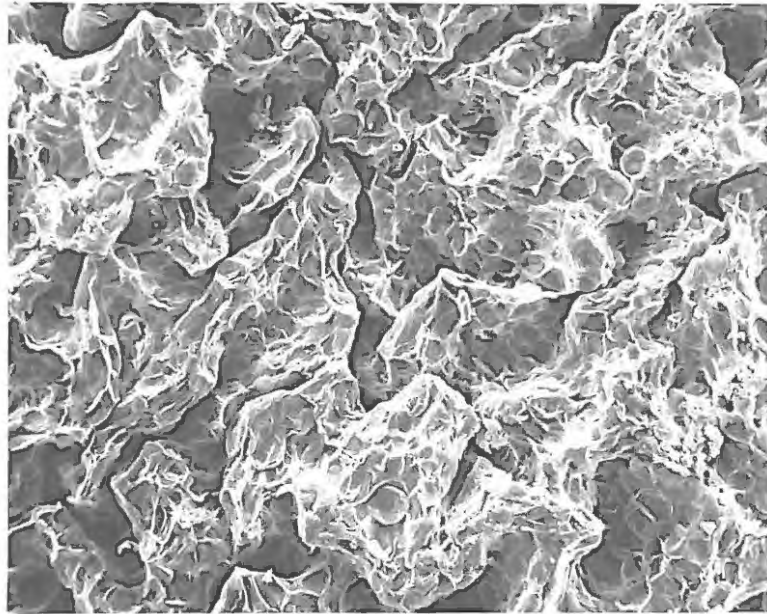


FIG. 140  
Seed of Scilla nervosa. x100.

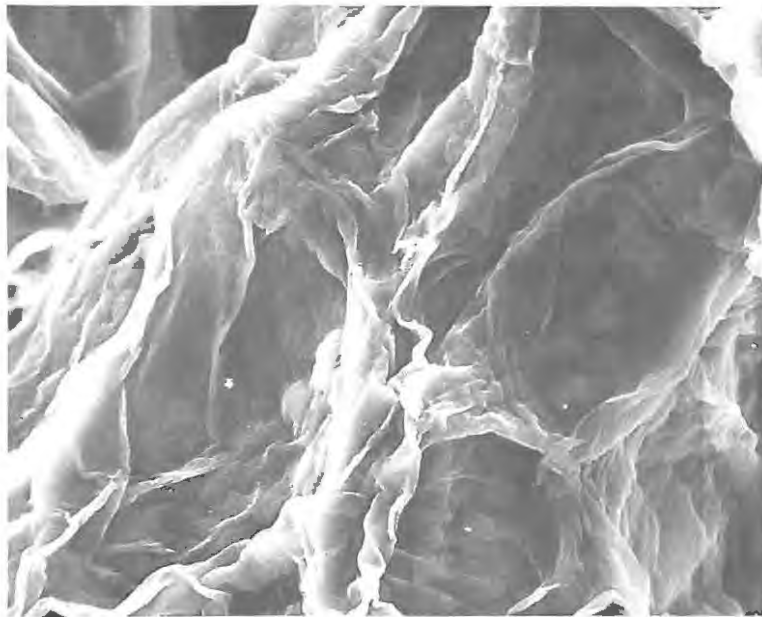


FIG. 141  
Seed of Scilla nervosa. x1000.

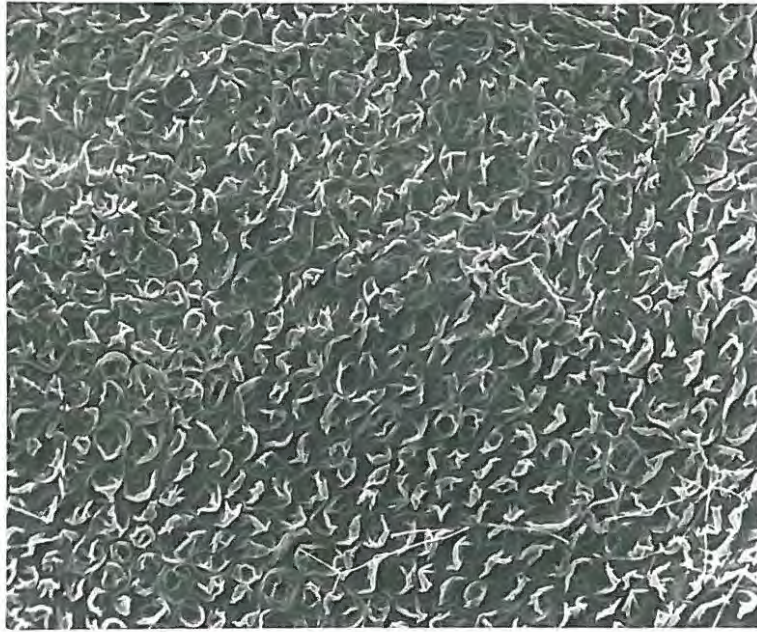


FIG. 142  
Seed of Scilla natalensis. x100.

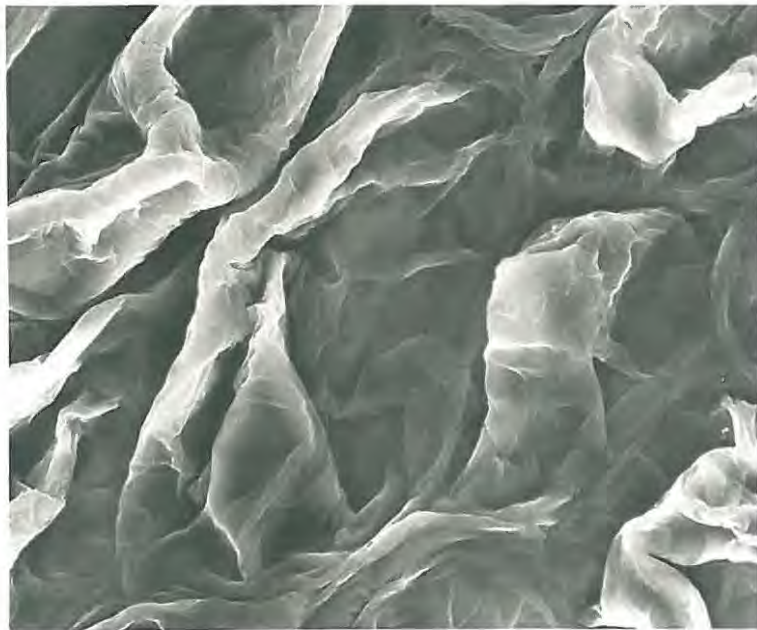


FIG. 143  
Seed of Scilla natalensis. x1000.

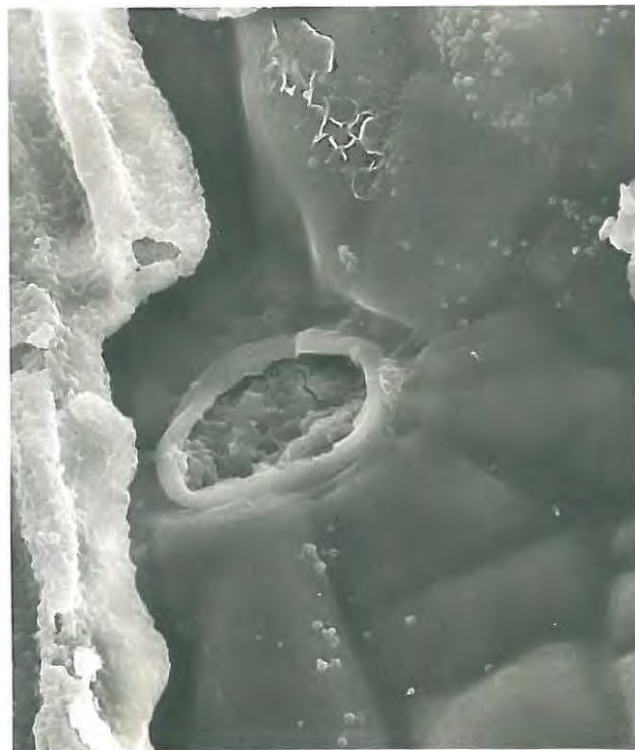
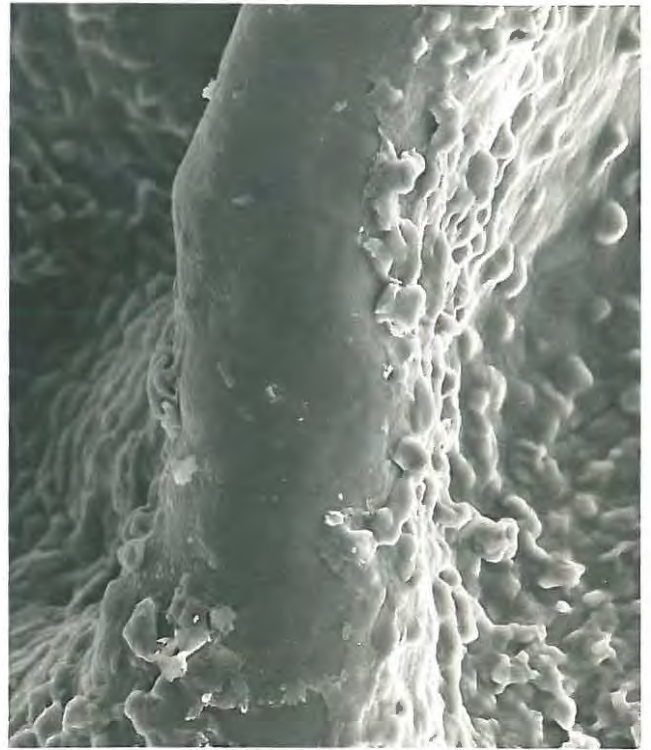
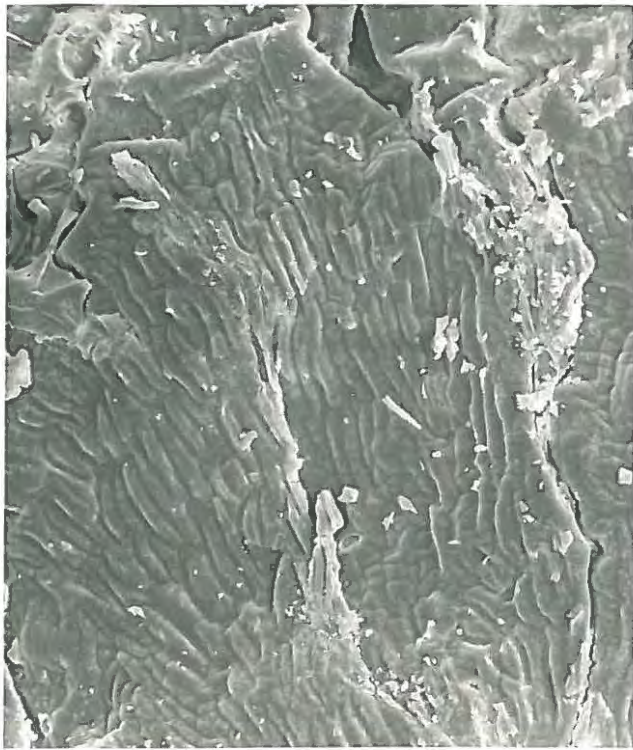


FIG. 144  
Seed of Scilla megaphylla.  
x100.

FIG. 145  
Seed of Scilla megaphylla.  
x300.

FIG. 146  
Seed of Scilla megaphylla. x1000.

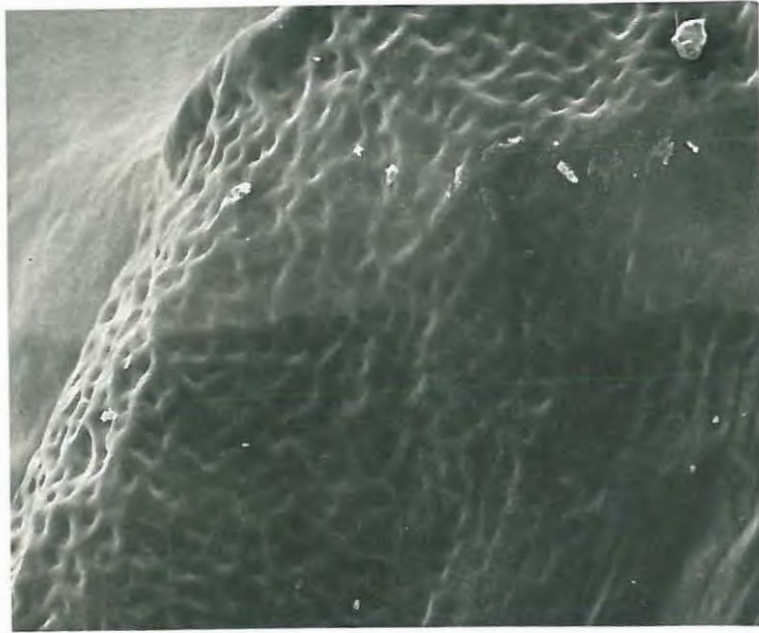


FIG. 147

Seed of Eucomis autumnalis var clavata. x100.

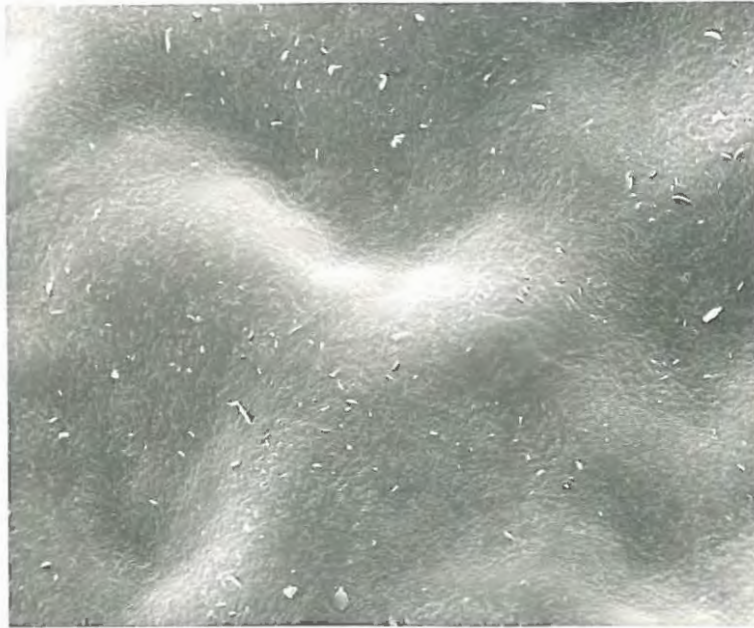


FIG. 148

Seed of Eucomis autumnalis var clavata. x1000.

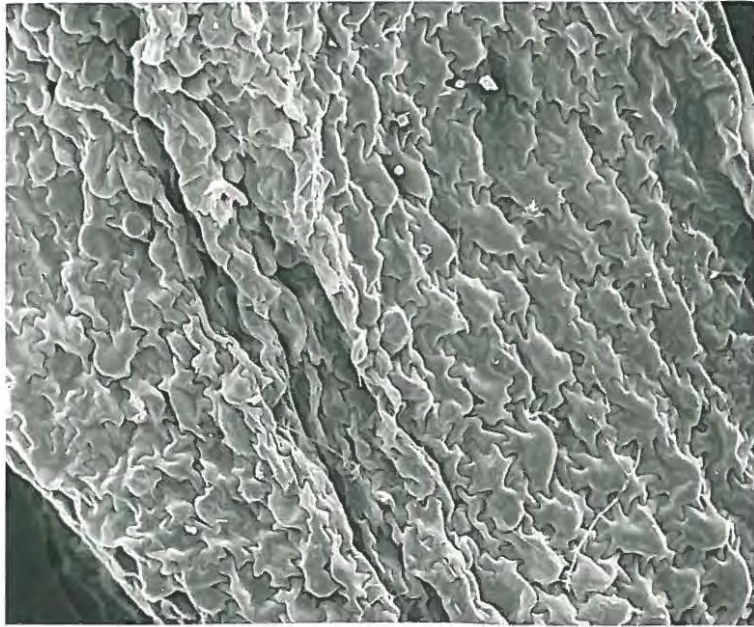


FIG. 149

Seed of Ornithogalum thyrsoides (Bolus 4919). x100.



FIG. 150

Seed of Ornithogalum thyrsoides (Bolus 4919). x1000.

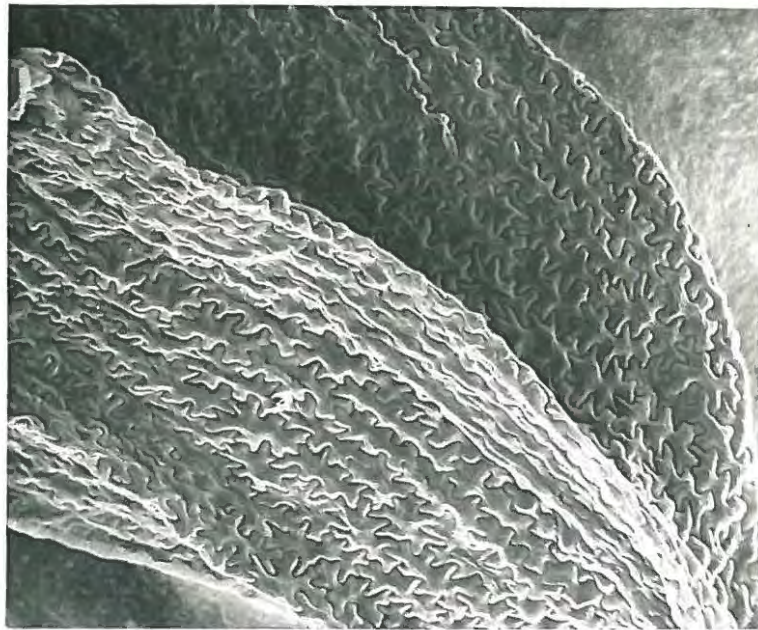


FIG. 151  
Seed of Ornithogalum thyrsoides (Houtbay). x100.



FIG. 152  
Seed of Ornithogalum thyrsoides (Houtbay). x1000.

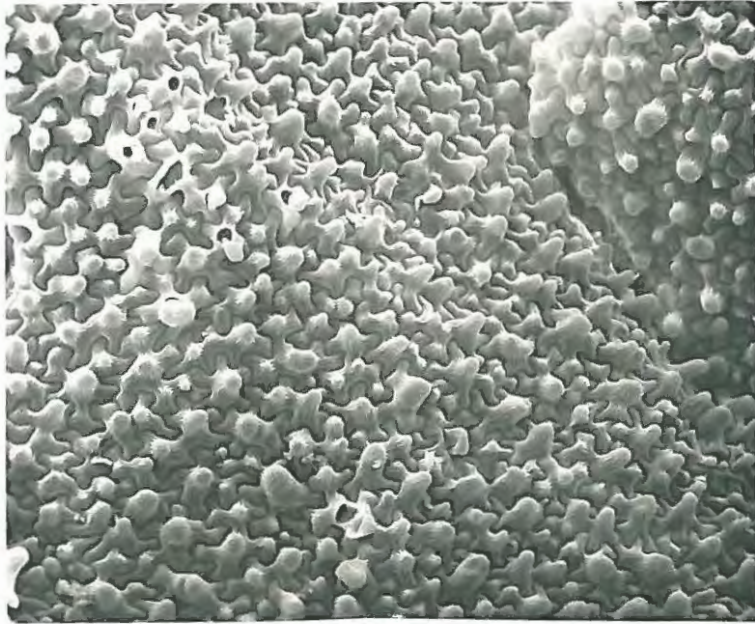


FIG. 153  
Seed of Ornithogalum conicum. x100.

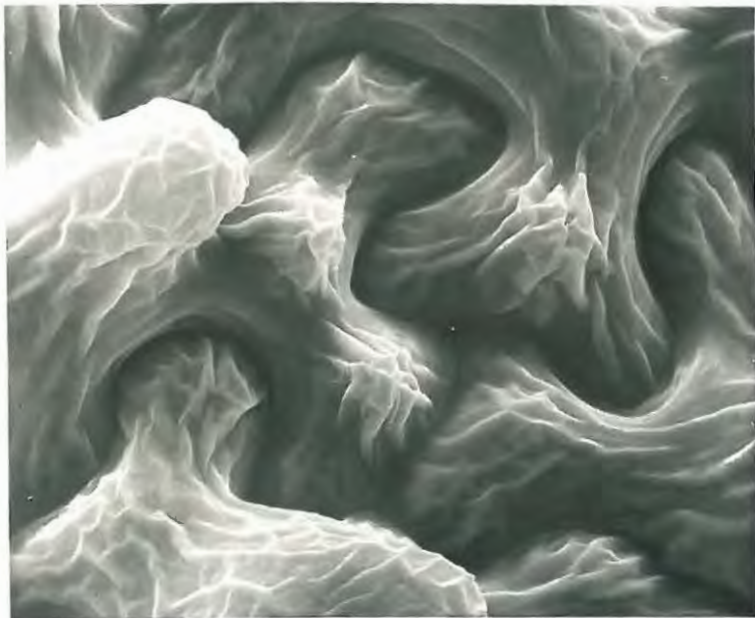


FIG. 154  
Seed of Ornithogalum conicum. x1000.

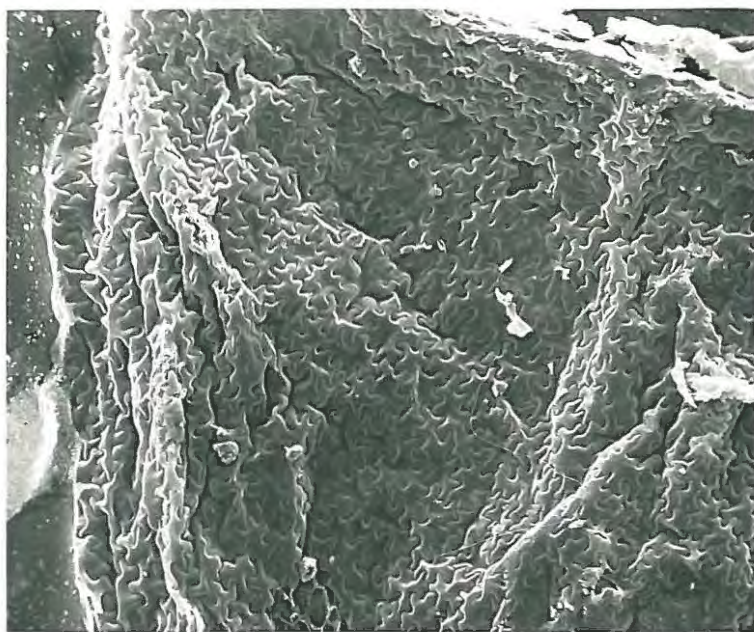


FIG. 155  
Seed of Ornithogalum ceresianum. x100.



FIG. 156  
Seed of Ornithogalum ceresianum. x1000.

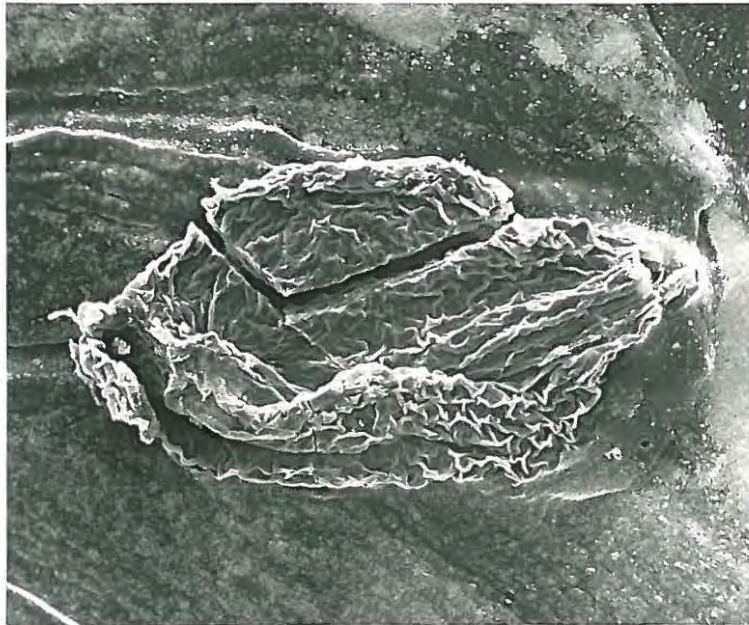


FIG. 157  
Seed of Ornithogalum maculatum. x100.

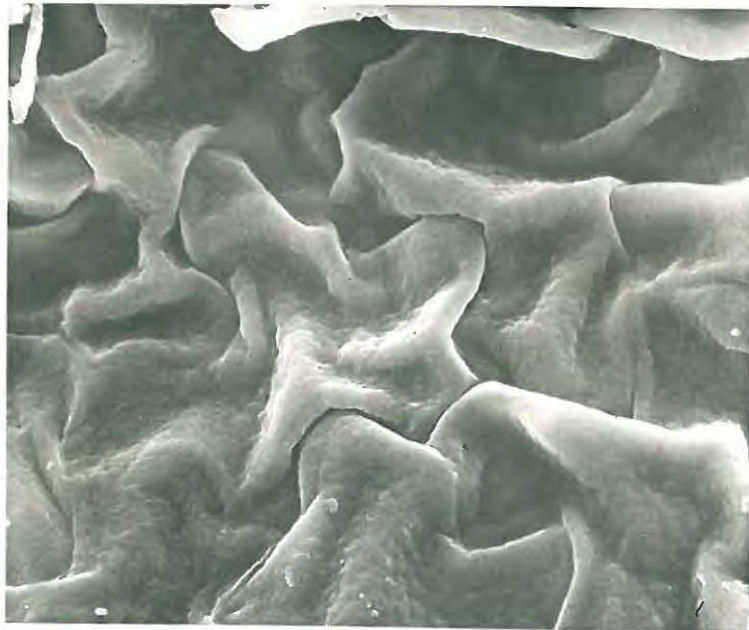


FIG. 158  
Seed of Ornithogalum maculatum. x1000.

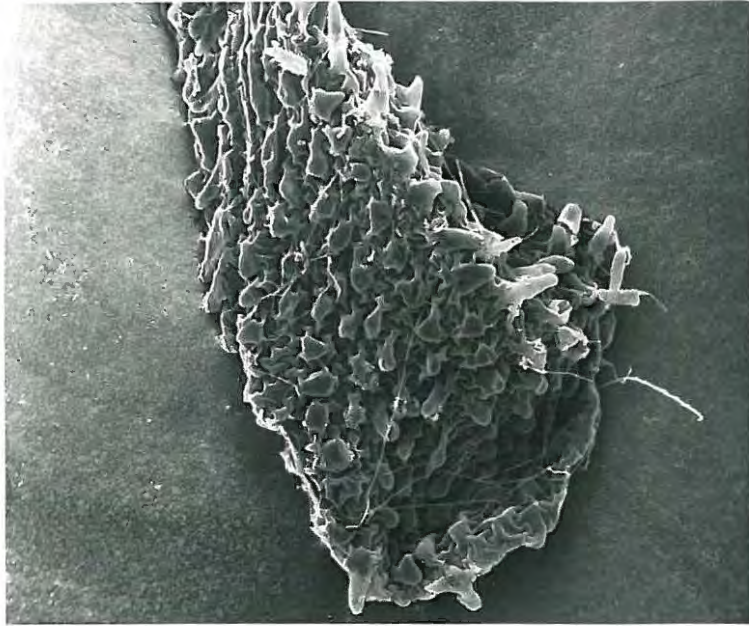


FIG. 159  
Seed of Ornithogalum miniatum (Muir 2988). x100.

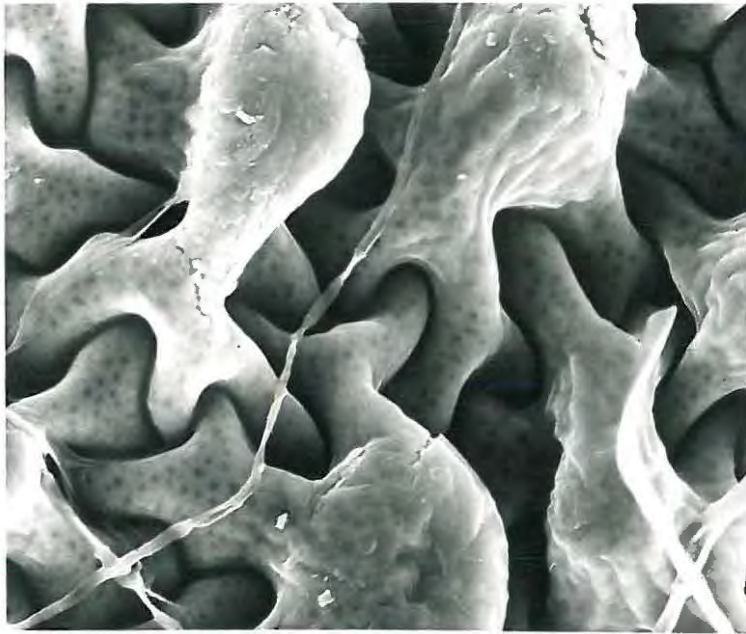


FIG. 160  
Seed of Ornithogalum miniatum (Muir 2988). x1000.

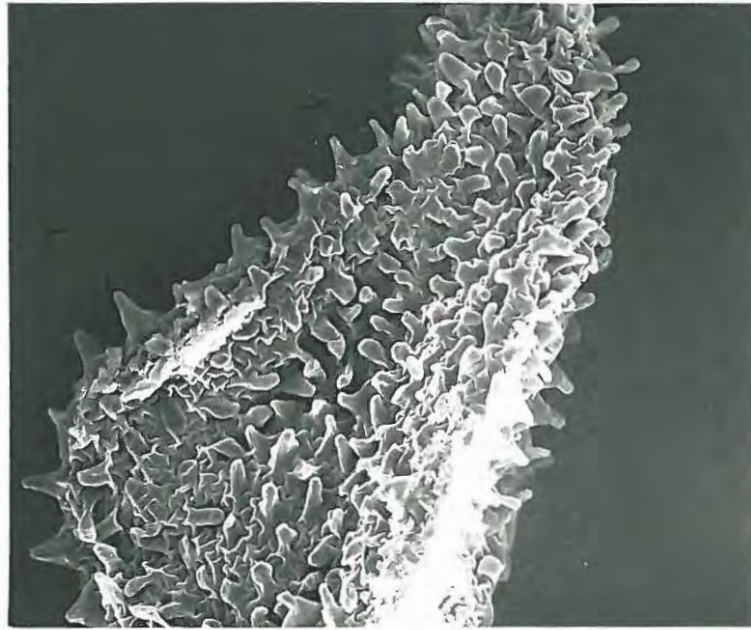


FIG. 161

Seed of Ornithogalum miniatum (STE Hort. 3983). x100.

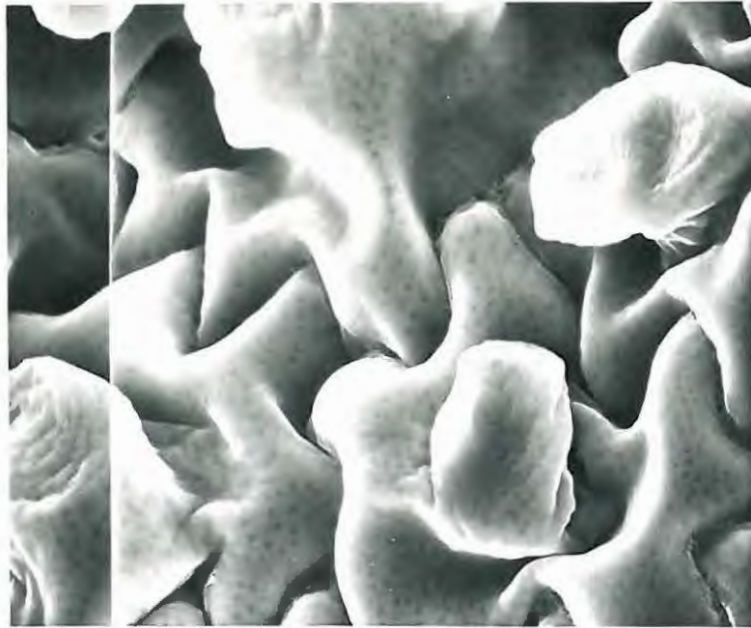


FIG. 162

Seed of Ornithogalum miniatum (STE Hort. 3983). x1000.

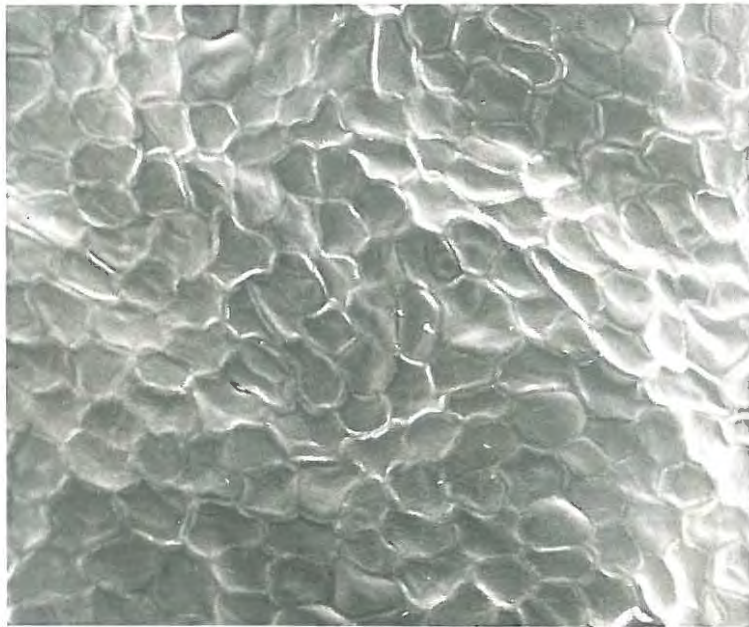


FIG. 163  
Seed of Pseudogaltonia clavata. x100.

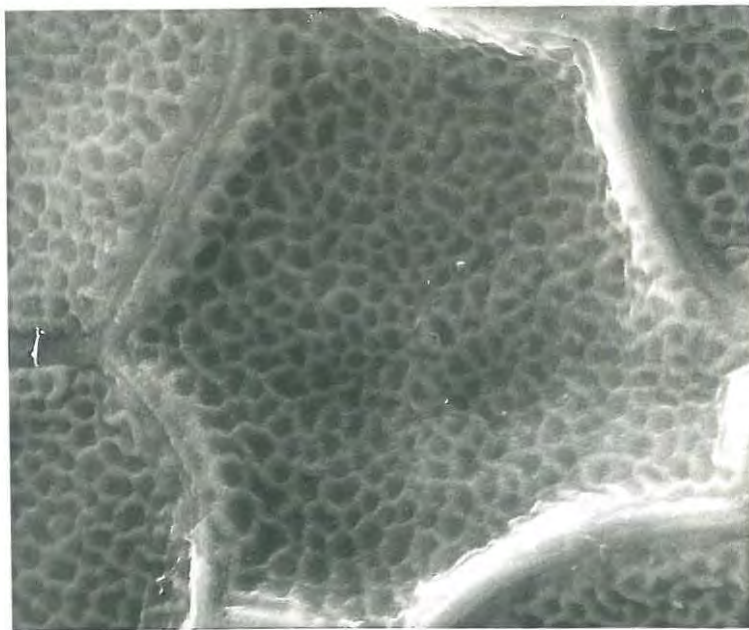


FIG. 164  
Seed of Pseudogaltonia clavata. x1000.

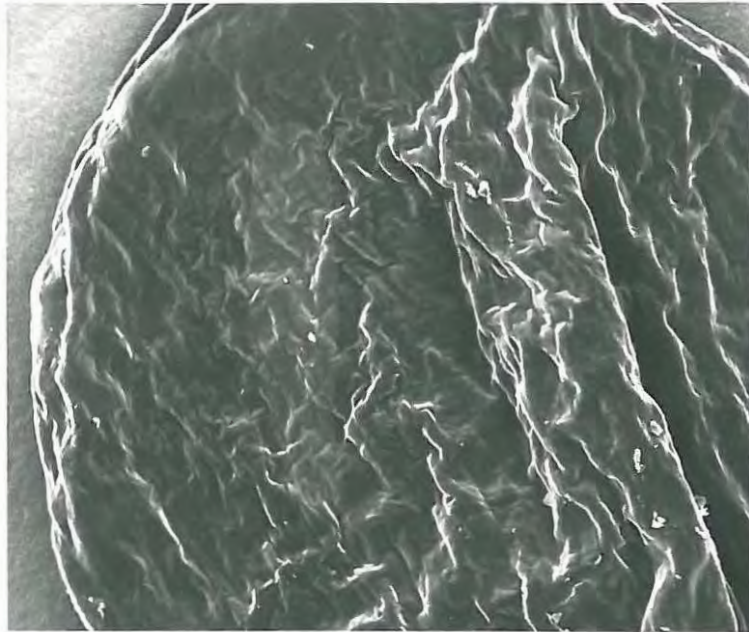


FIG. 165

Seed of Lachenalia monophylla. x100.



FIG. 166

Seed of Lachenalia monophylla. x1000.

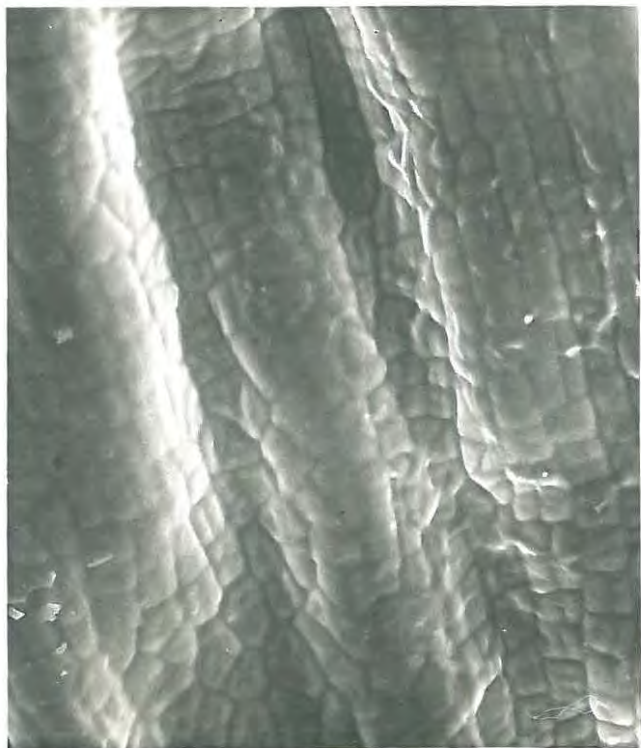
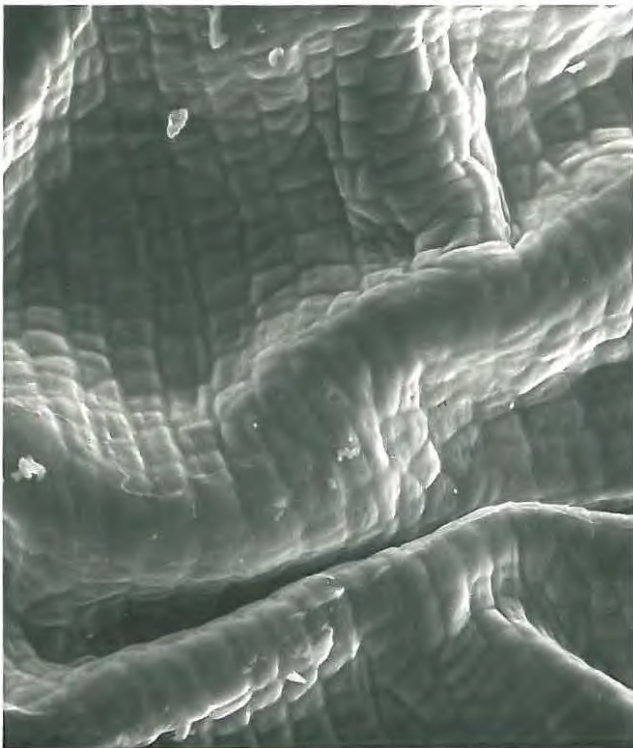


FIG. 167  
Seed of Whiteheadia bifolia. x100.

FIGS 168 & 169  
Seed of Whiteheadia bifolia. x300.

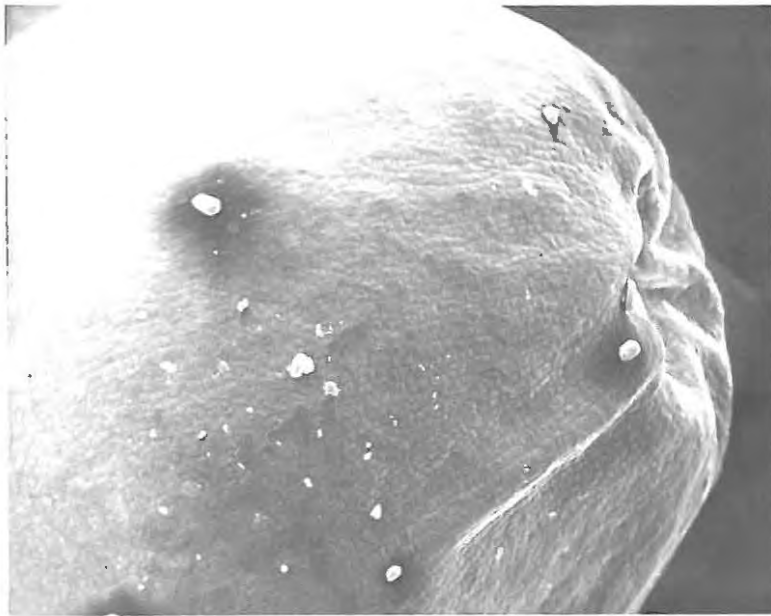


FIG. 170  
Seed of Massonia depressa. x100.

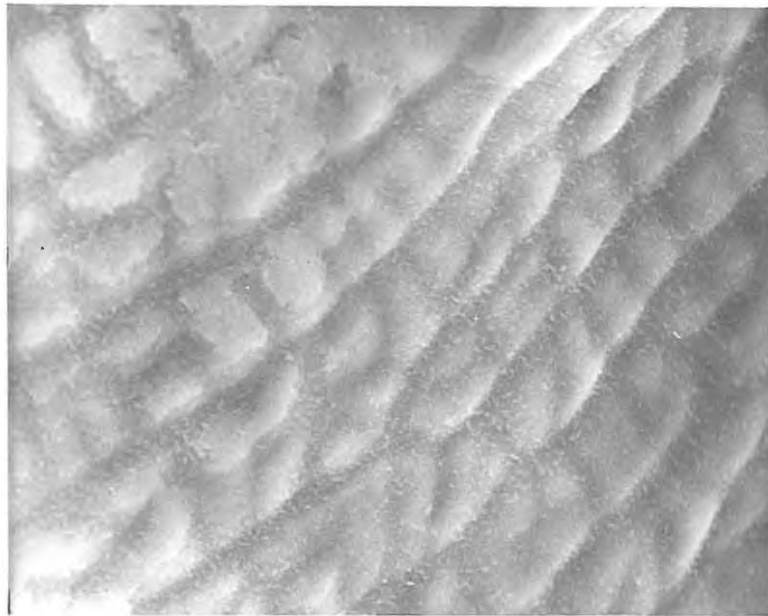


FIG. 171  
Seed of Massonia depressa. x1000.



FIG. 172  
Seed of Massonia echinata. x100.



FIG. 173  
Seed of Massonia echinata  
(Bayliss 4868). x5000.

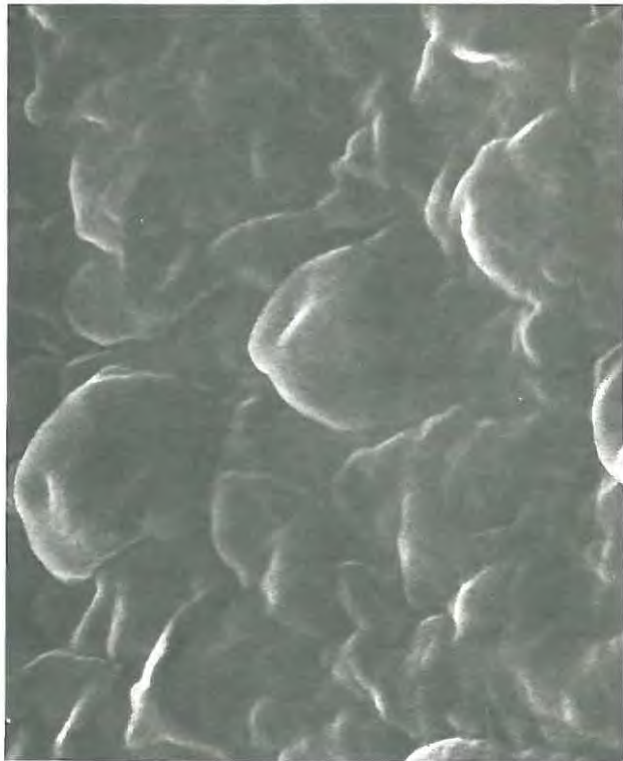


FIG. 174  
Seed of Massonia echinata  
(Bayliss 4868). x18 500.

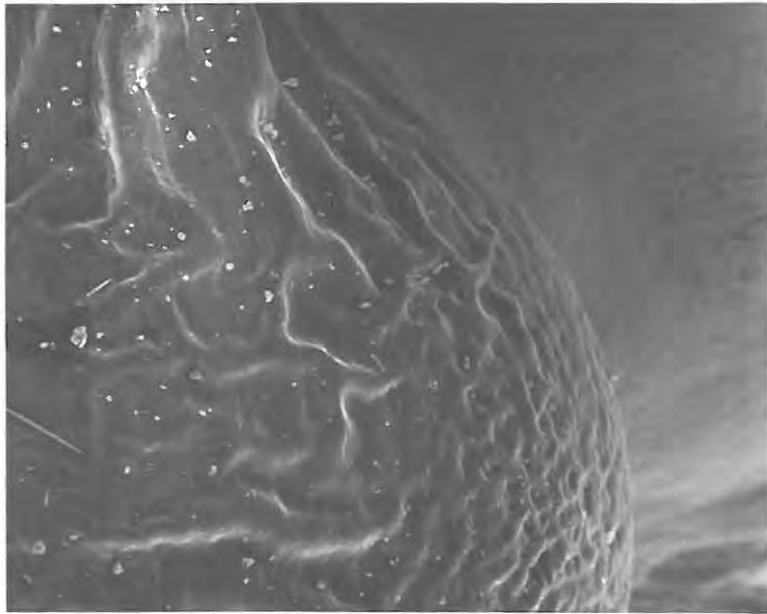


FIG. 175

Seed of Massonia echinata (Bayliss 4890). x100.

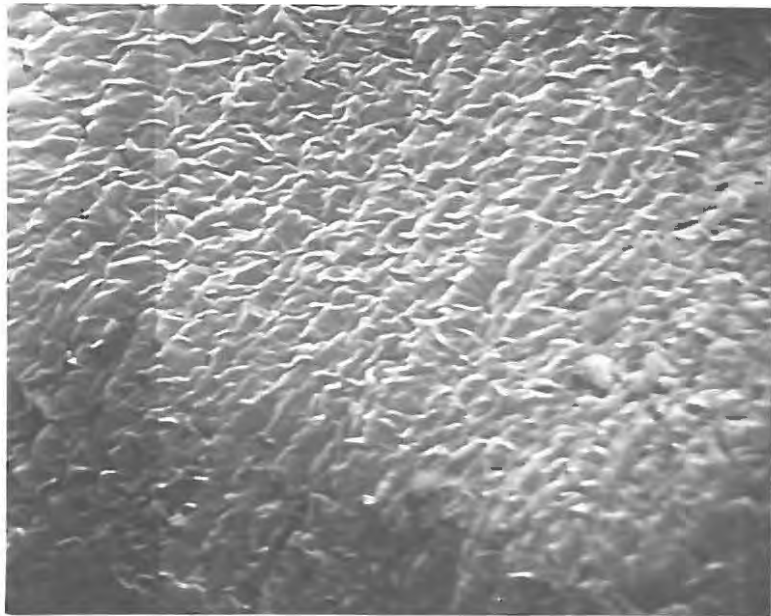


FIG. 176

Seed of Massonia echinata (Bayliss 4890). x5000.

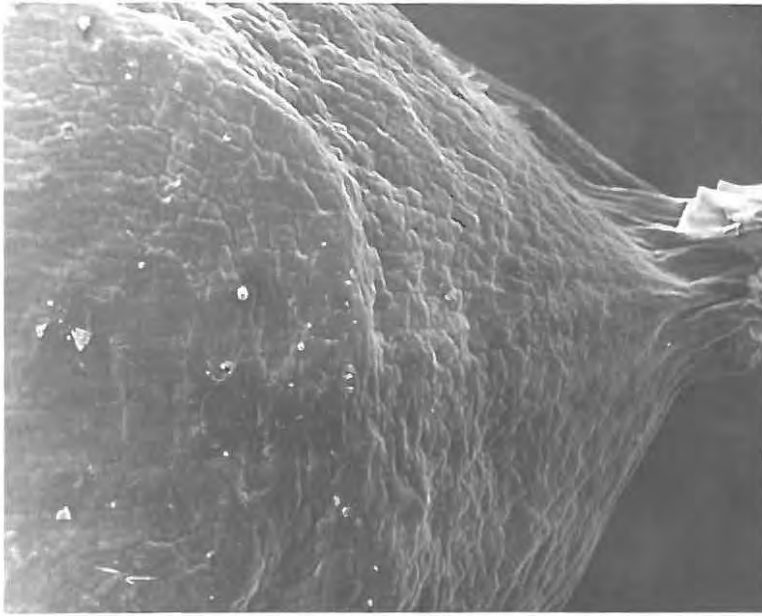


FIG. 177

Seed of Massonia pustulata. x100.

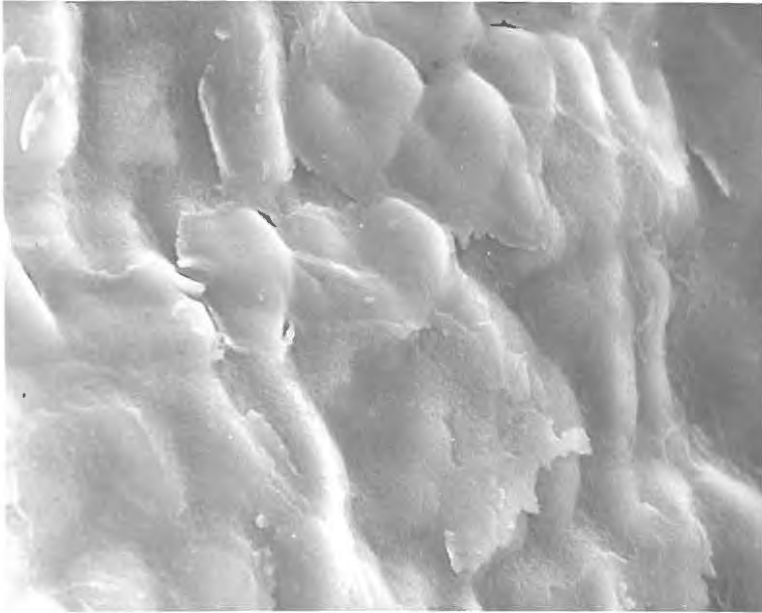


FIG. 178

Seed of Massonia pustulata. x1000.



FIG. 179  
Seed of Massonia angustifolia. x100.



FIG. 180  
Seed of Massonia angustifolia. x1000.

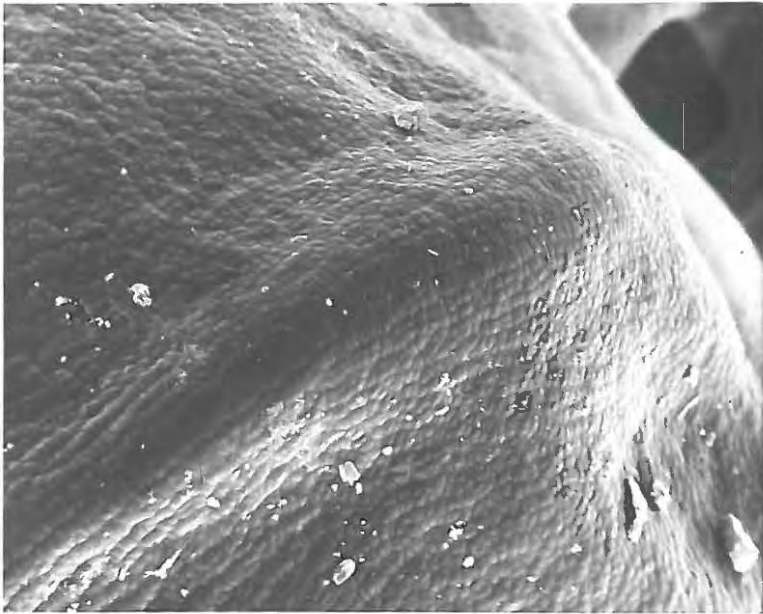


FIG. 181

Seed of Daubenya aurea. x100.

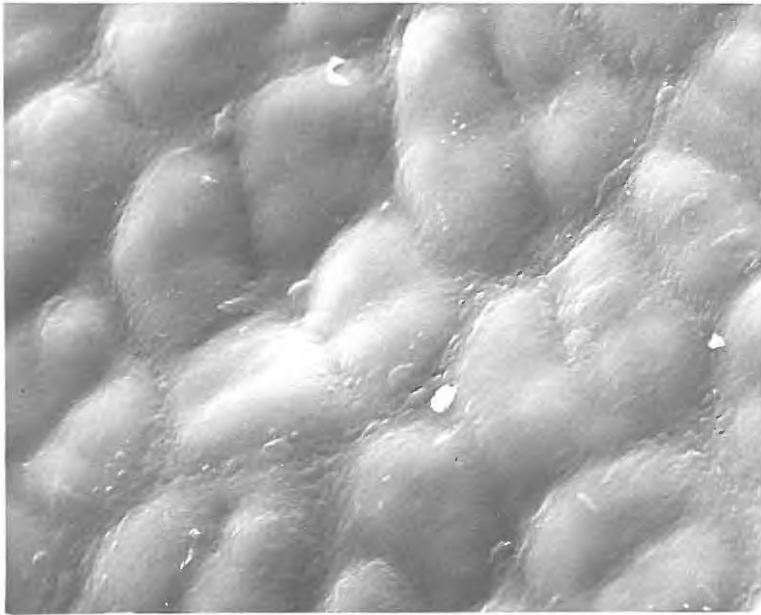


FIG. 182

Seed of Daubenya aurea. x1000.



FIG. 183

Seed of Androsiphon capense. x100.

FIG. 184

Seed of Androsiphon capense  
x1000.

FIG. 185

Seed of Androsiphon capense.  
x3000.

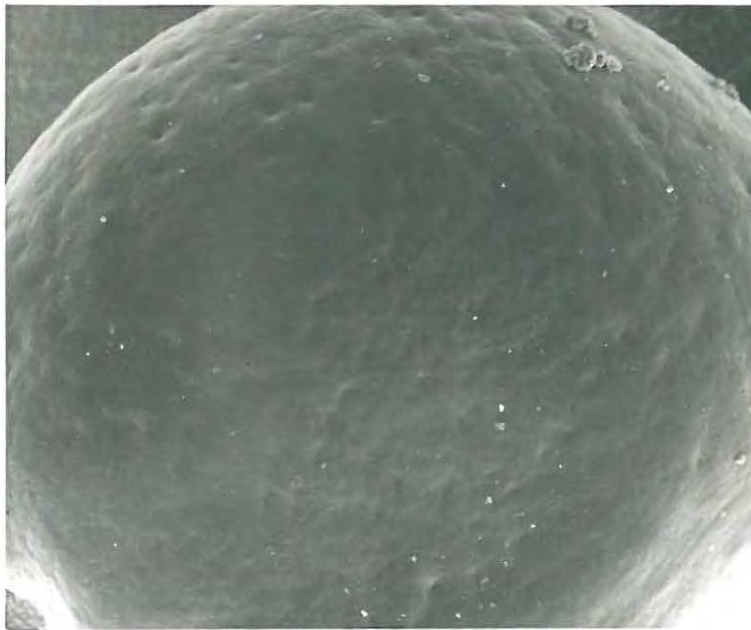


FIG. 186  
Seed of Polyxena ensifolia. x100.

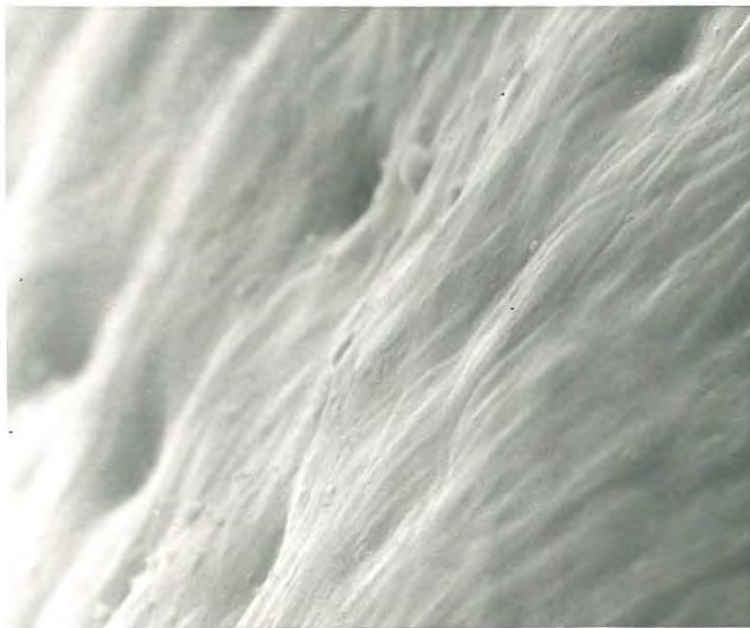


FIG. 187  
Seed of Polyxena ensifolia. x1000.

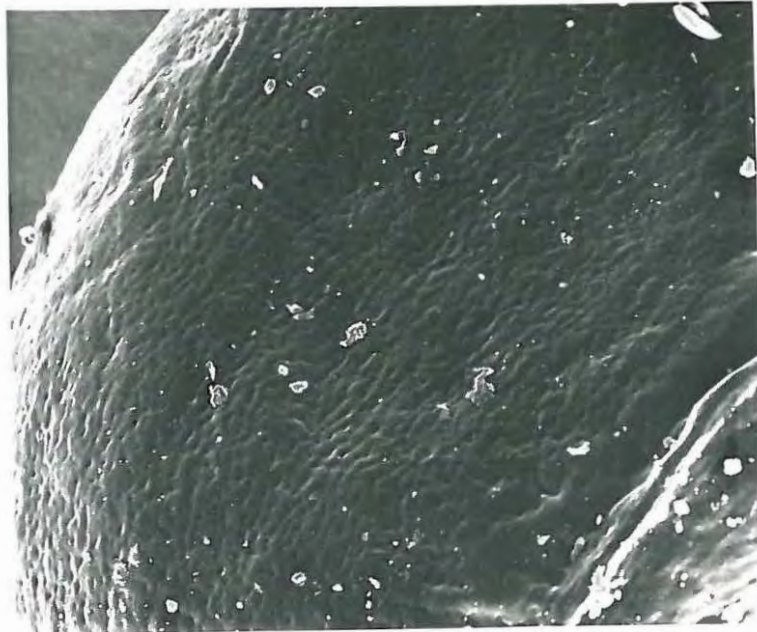


FIG. 188

Seed of Polyxena corymbosa. x100.

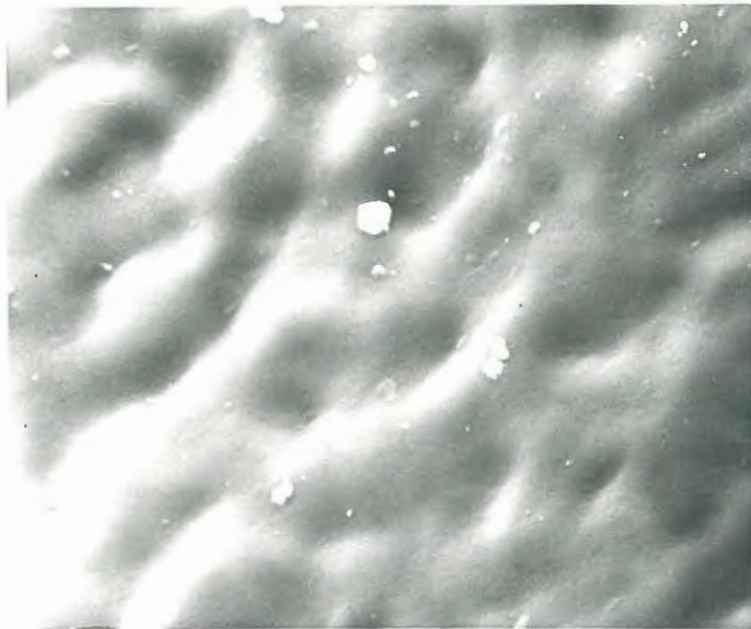


FIG. 189

Seed of Polyxena corymbosa. x1000.

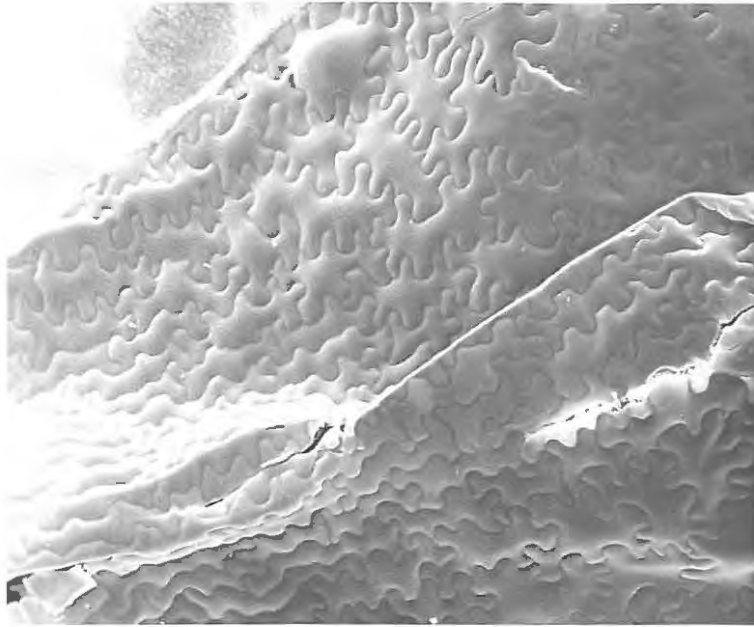


FIG. 190  
Seed of Neopaterersonia uitehagensis. x100.

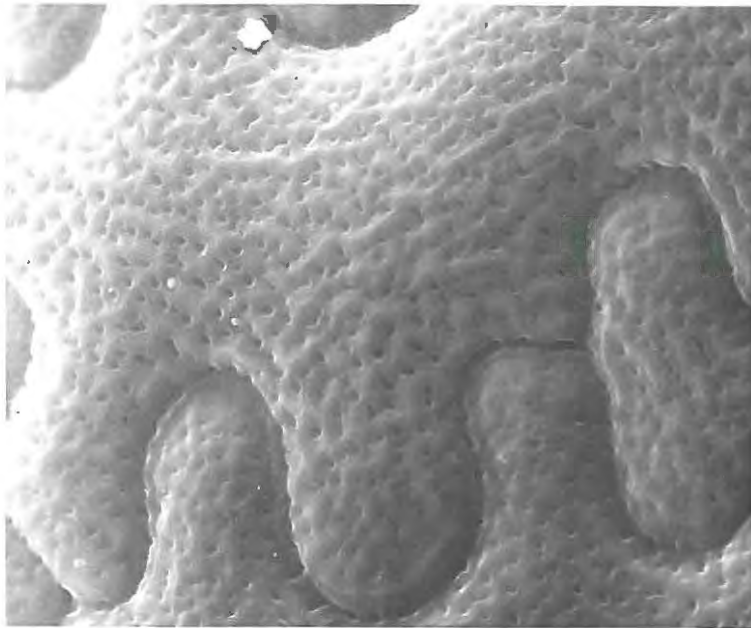


FIG. 191  
Seed of Neopaterersonia uitehagensis. x1000.

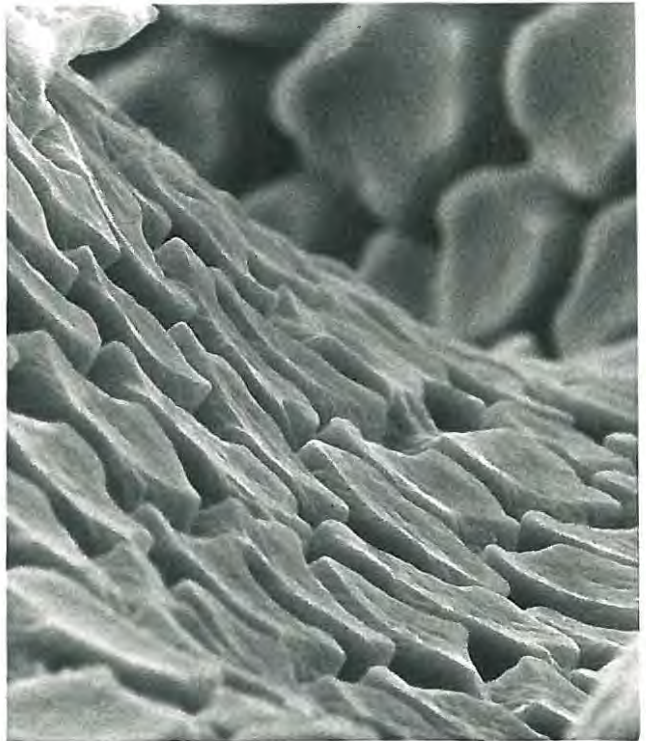
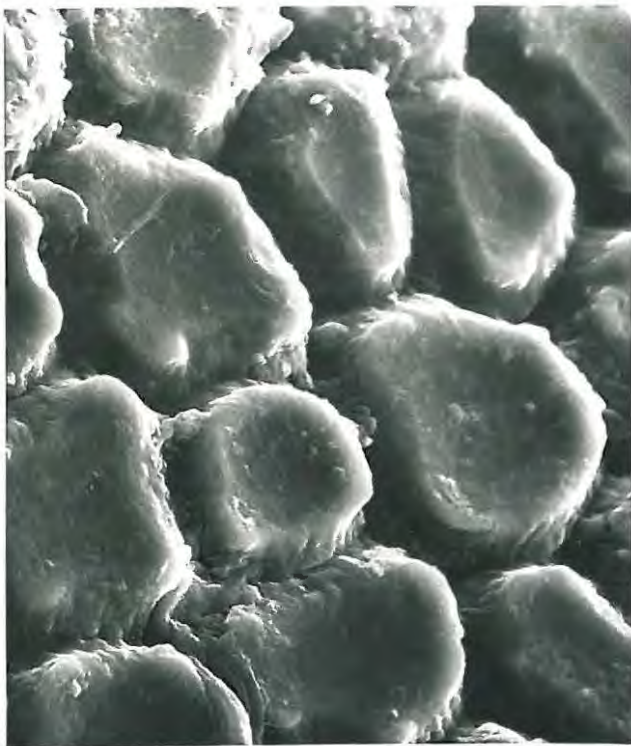
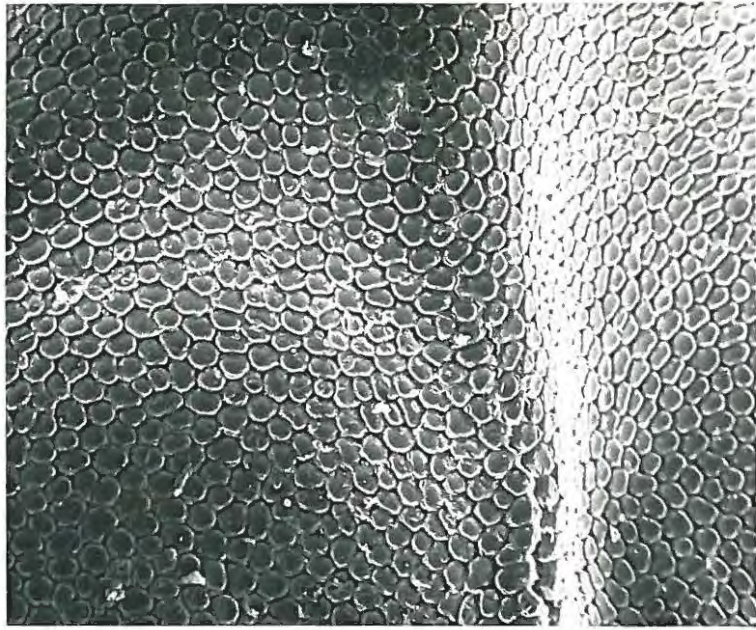


FIG. 192  
Seed of Asparagus virgatus. x100.

FIGS 193 & 194  
Seed of Asparagus virgatus. x1000.

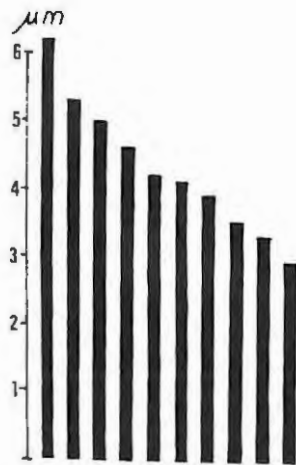
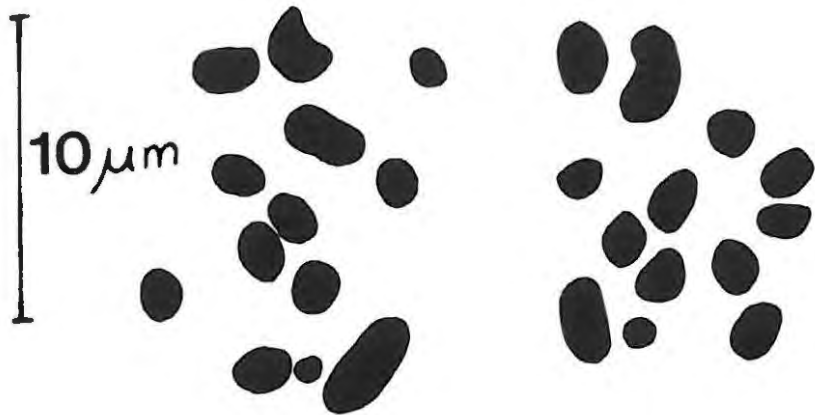
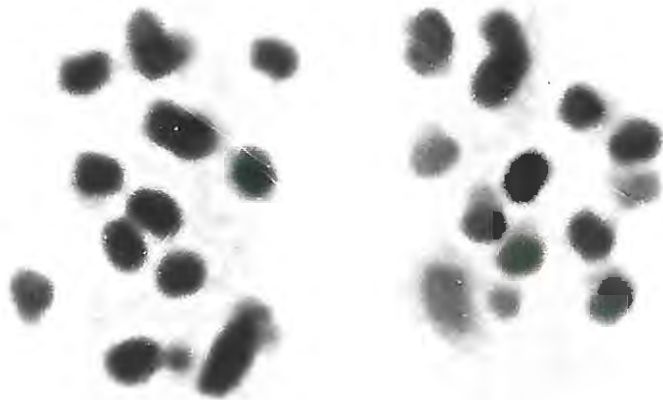
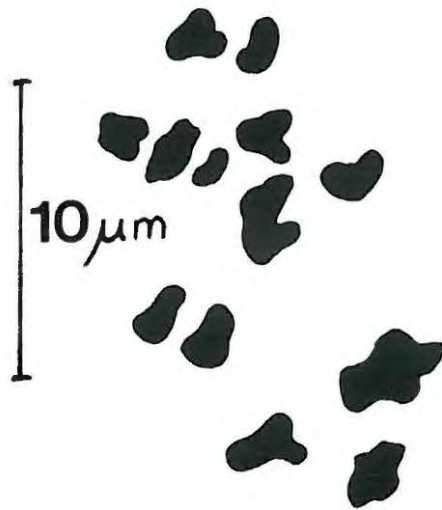
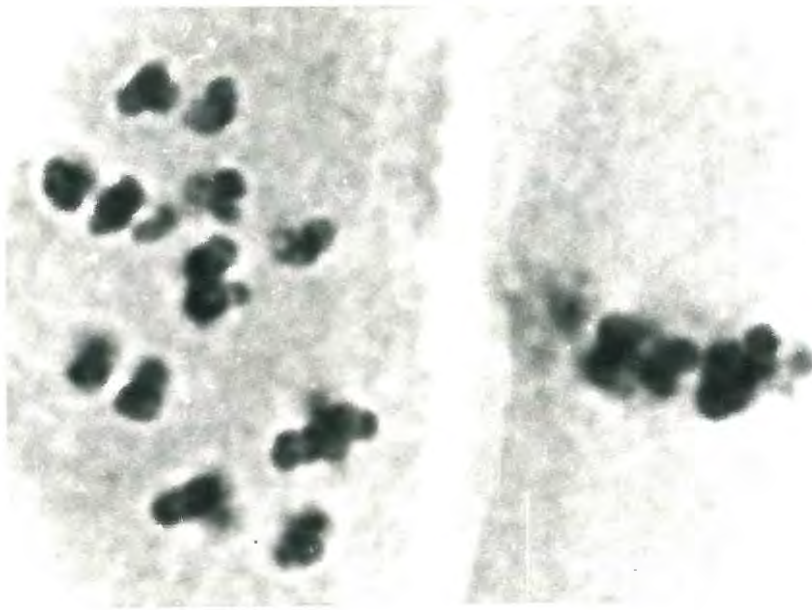


FIG. 196

Idiogram of meiotic chromosomes of Scilla cooperi  
(Jessop 1061).



FIGS 197 (above) & 198  
Meiotic chromosomes of Scilla cooperi (Strey 9291).



FIGS 199 (above) & 199a  
Meiotic chromosomes of Scilla cooperi (Strey 9291).

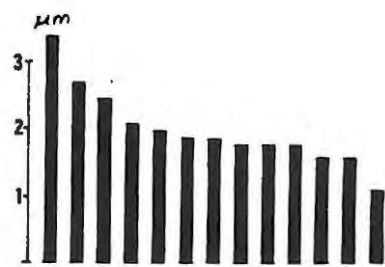
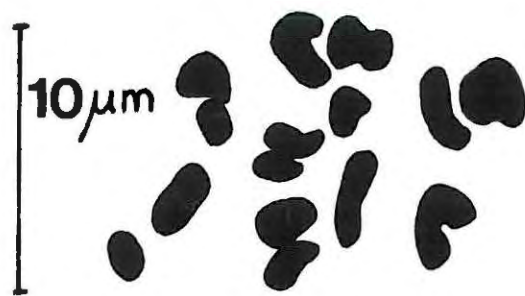
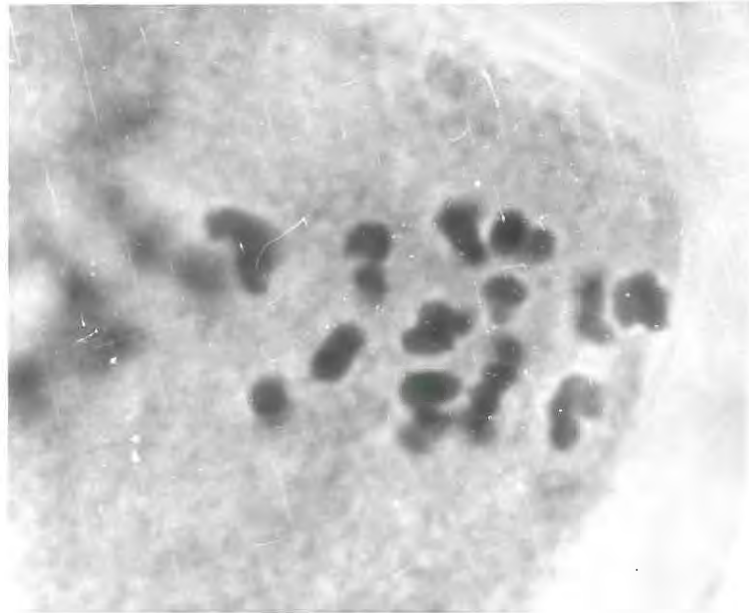


FIG. 200

Idiogram of meiotic chromosomes of Scilla cooperi  
(Strey 9291).



FIGS 201 (above) & 202  
Meiotic chromosomes of Scilla cooperi (Strey 9203).

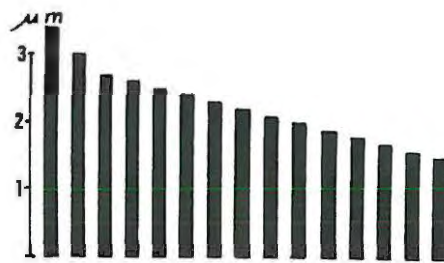


FIG. 203

Idiogram of meiotic chromosomes of Scilla cooperi  
(Strey 9203).

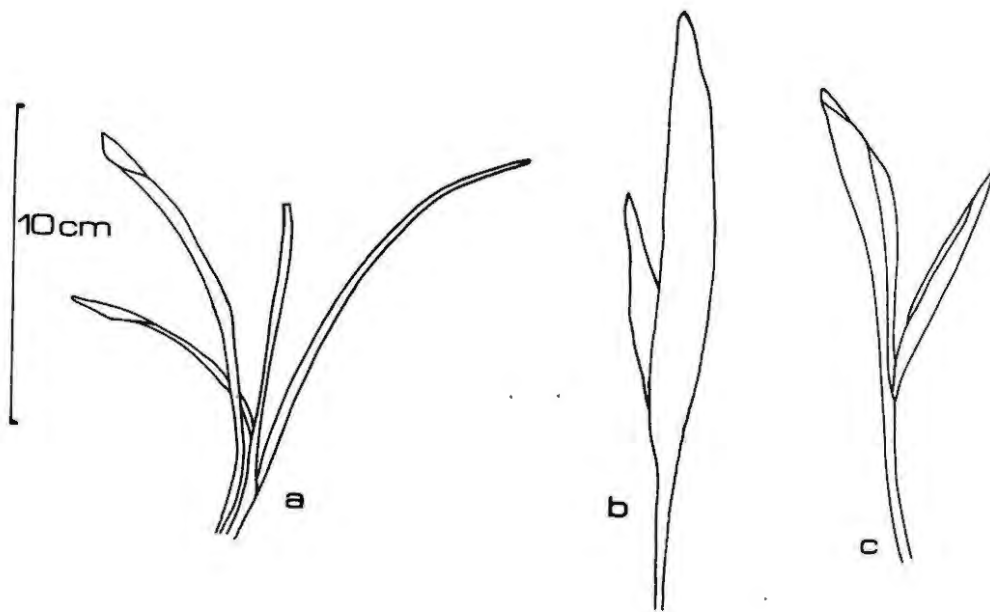


FIG. 204  
Leaves of Scilla cooperi - (a) Jessop 1061;  
(b) Strey 9291; (c) Strey 9203.

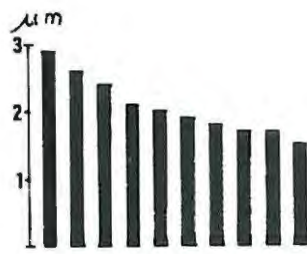


FIG. 205  
 Idiogram of meiotic chromosomes of Scilla floribunda  
 (Bayliss BS/3920).

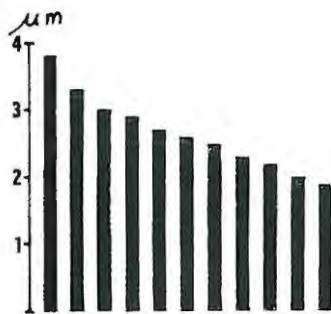


FIG. 206  
 Idiogram of meiotic chromosomes of Scilla floribunda  
 (Jessop 1062).

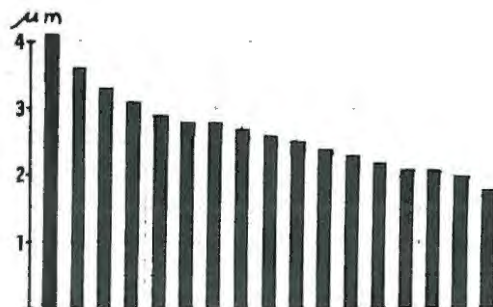
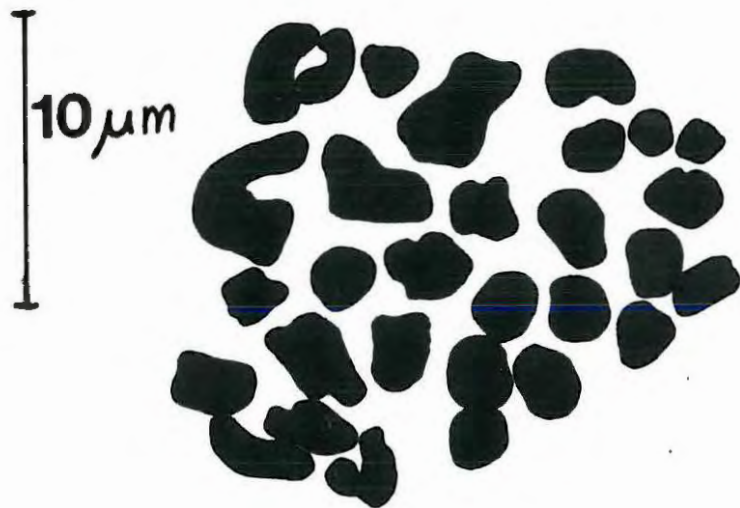
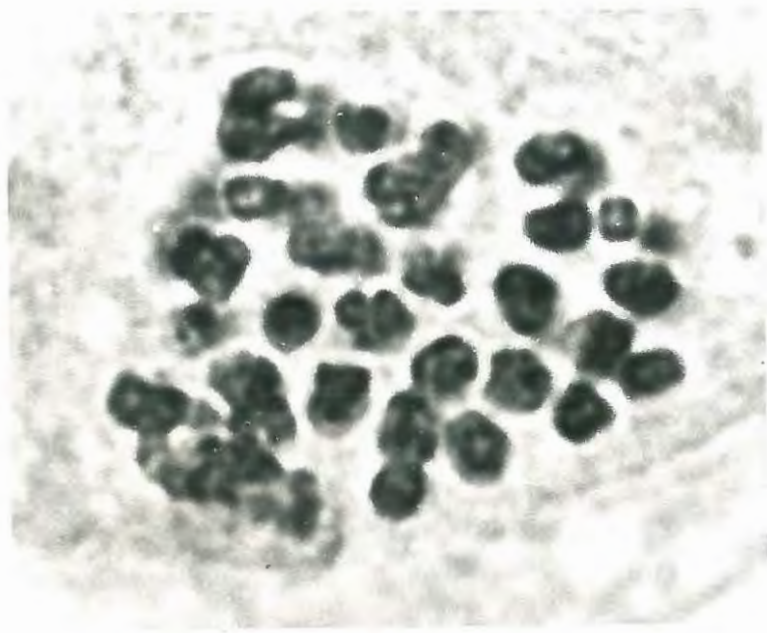


FIG. 207  
 Idiogram of meiotic chromosomes of Scilla floribunda  
 (Jessop 1063).



FIGS 208 (above) & 209  
Meiotic chromosomes of Scilla floribunda (Strey 9234).

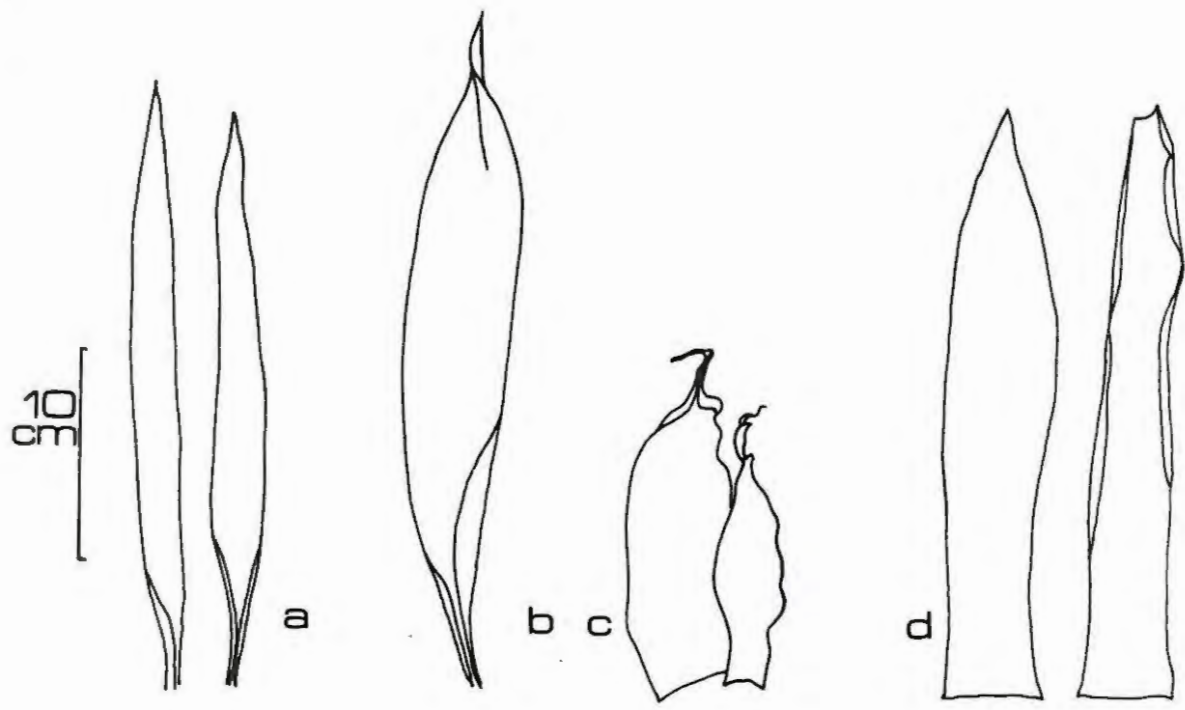
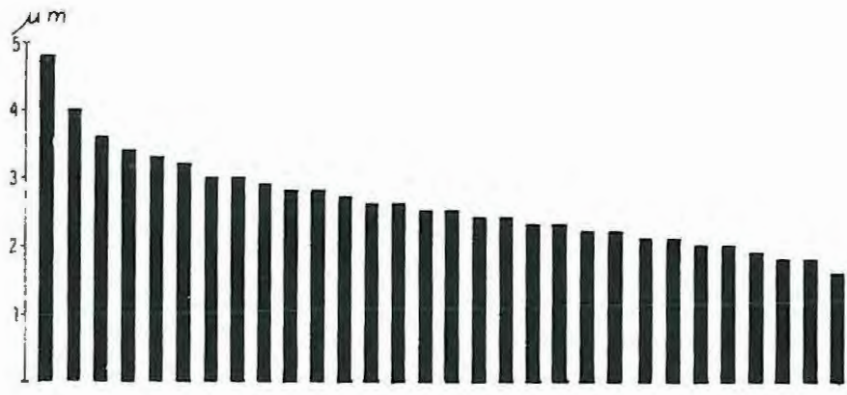
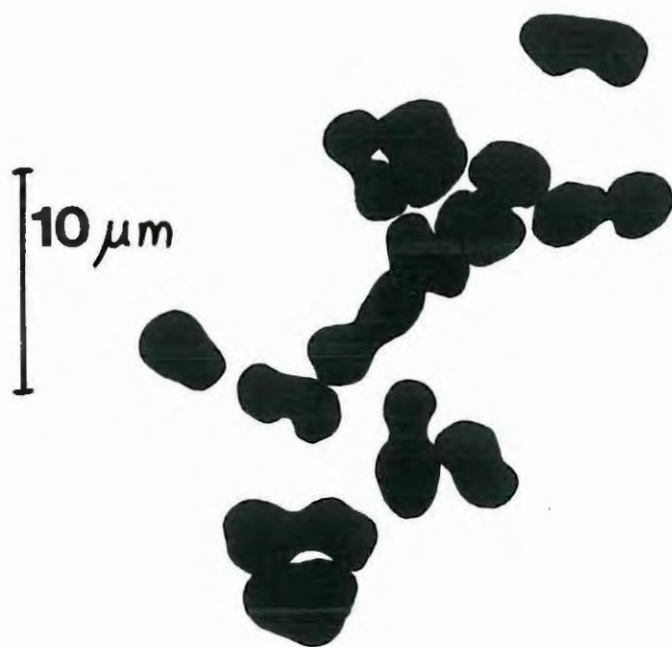
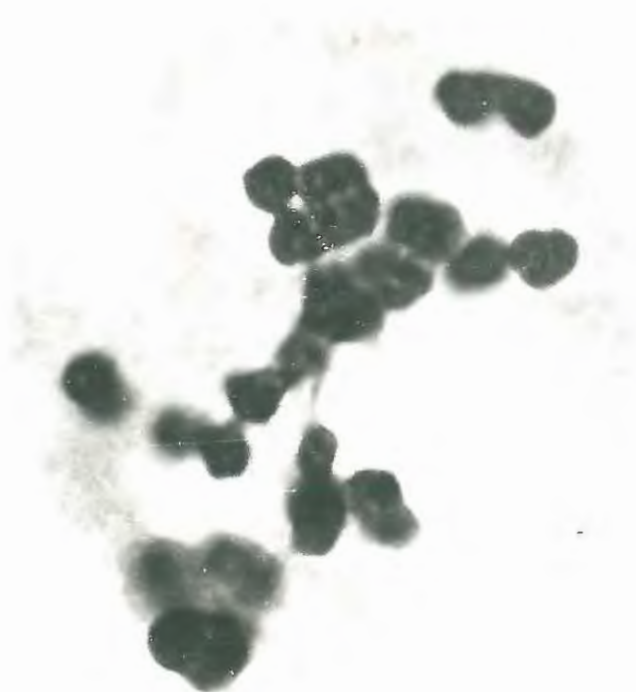


FIG. 210

Idiogram of meiotic chromosomes of Scilla floribunda (Strey 9234).

FIG. 211

Leaves of Scilla floribunda - (a) Bayliss BS/3920; (b) Jessop 1062; (c) Jessop 1063 (d) Strey 9234.



FIGS 212 (above) & 213  
Meiotic chromosomes of Scilla socialis (Tim s.n.).

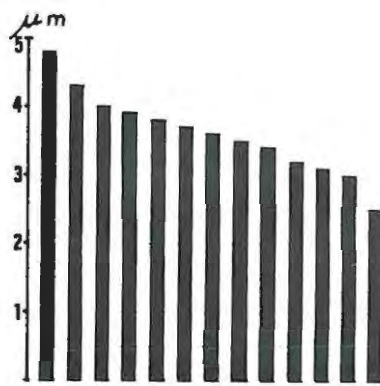
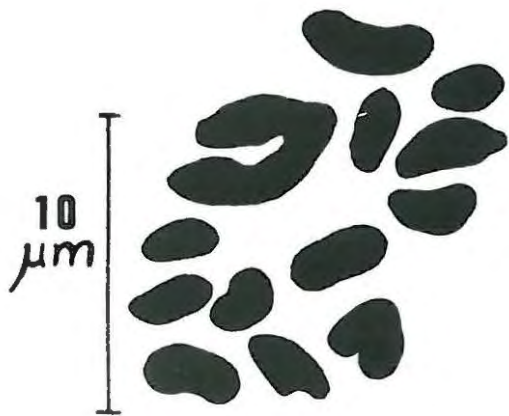
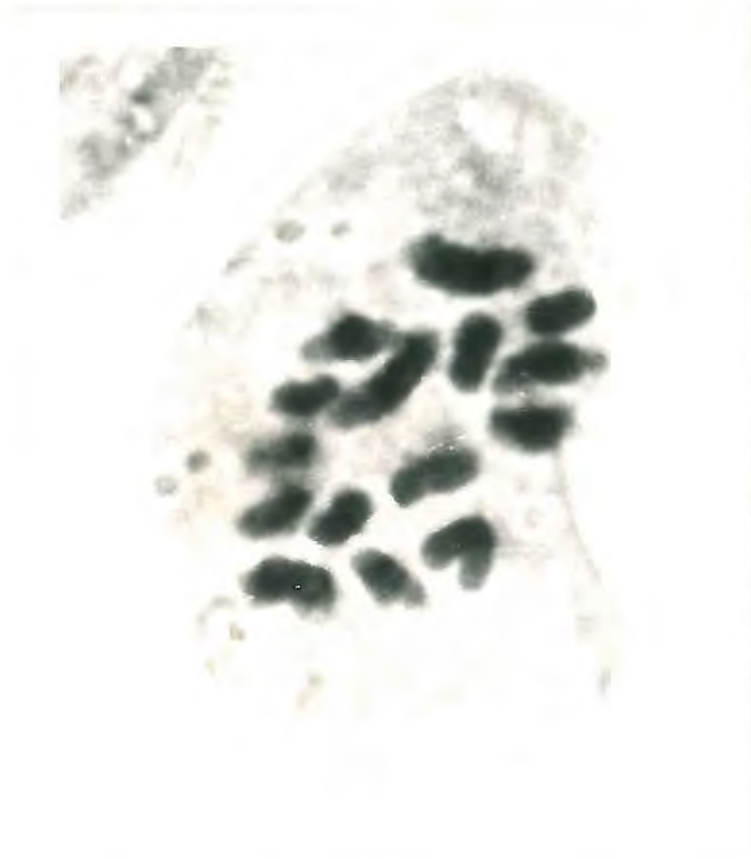


FIG. 214

Idiogram of meiotic chromosomes of Scilla socialis  
(Tim s.n.).



FIGS 215 (above) & 216

Meiotic chromosomes of Scilla socialis (Bayliss BS/3806).

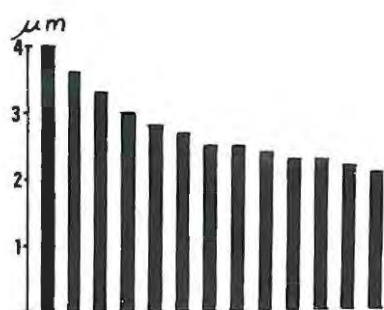
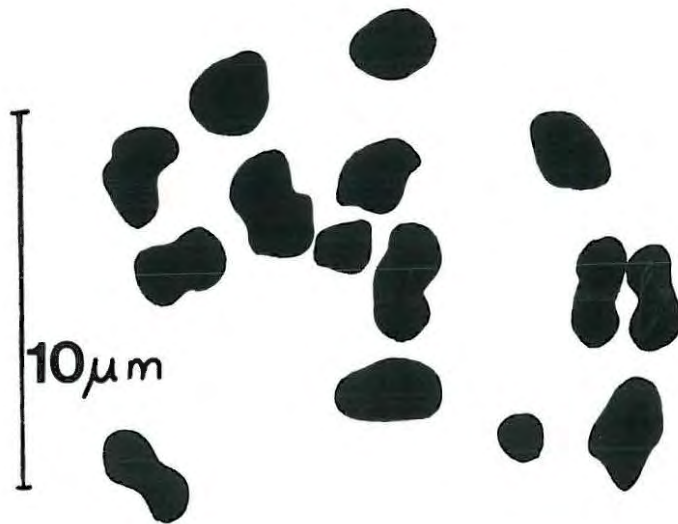
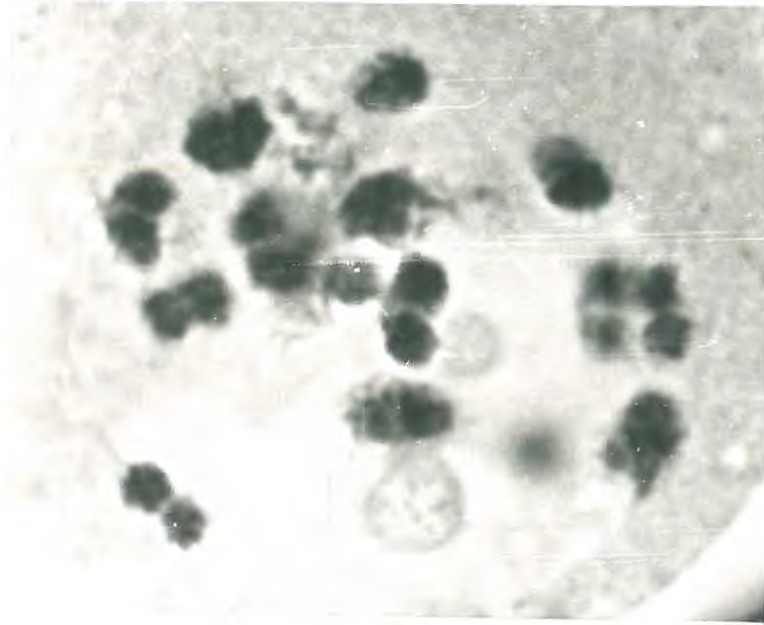


FIG. 217

Idiogram of meiotic chromosomes of Scilla socialis  
(Bayliss BS/3806).



FIGS 218 (above) & 219  
Meiotic chromosomes of *Scilla socialis* (Bayliss BS/3327).

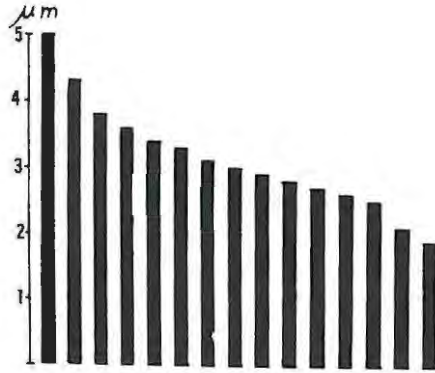


FIG. 220  
 Idiogram of meiotic chromosomes of Scilla socialis  
 (Bayliss BS/3327).

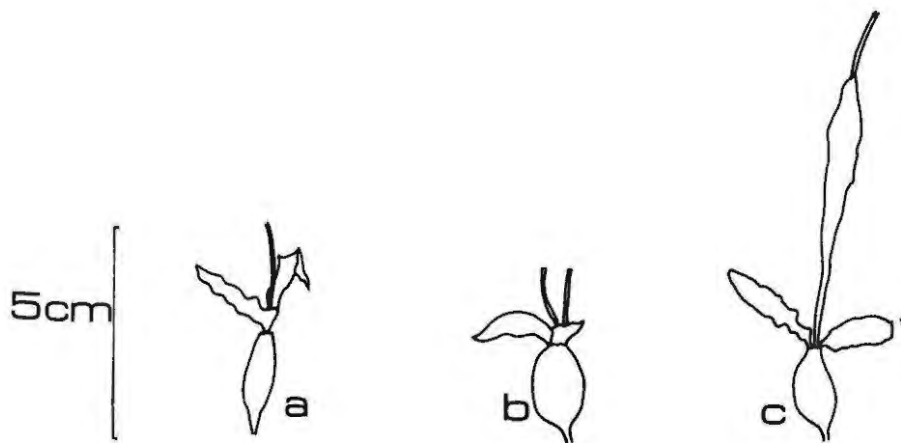


FIG. 221  
 Plants of Scilla socialis - (a) Tim s.n.; (b) Bayliss  
BS/3806; (c) Bayliss BS/3327.

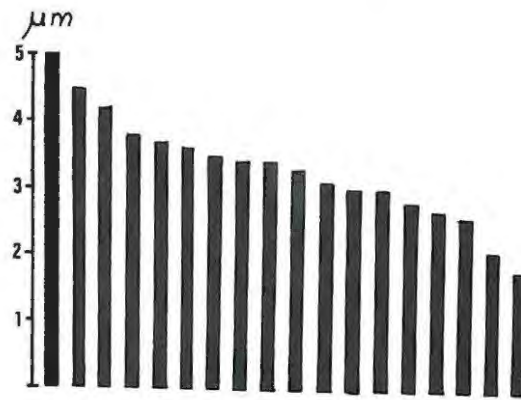


FIG. 222  
 Idiogram of meiotic chromosomes of Scilla concolor.

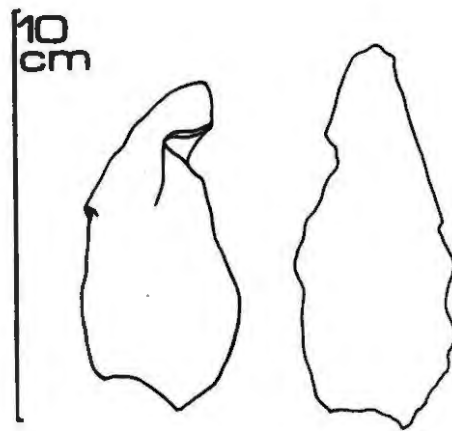


FIG. 223  
 Leaves of Scilla concolor.

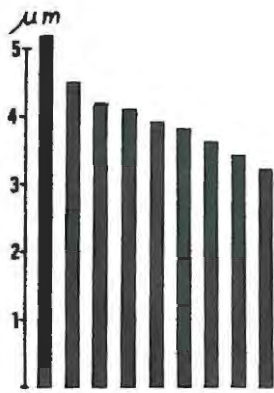


FIG. 224

Idiogram of meiotic chromosomes of Scilla revoluta  
(Jessop 1064).

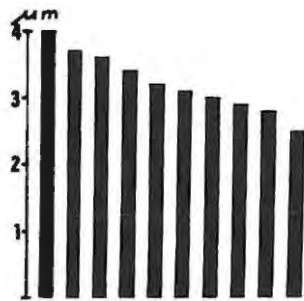


FIG. 225

Idiogram of meiotic chromosomes of Scilla revoluta  
(Jessop 1064).

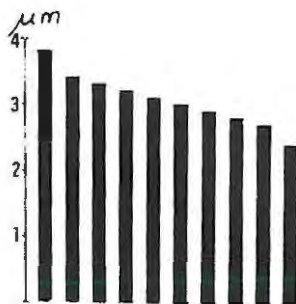


FIG. 226

Idiogram of meiotic chromosomes of Scilla revoluta  
(Jessop 1064).

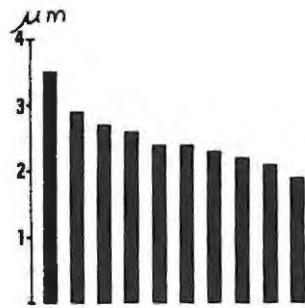


FIG. 227

Idiogram of meiotic chromosomes of Scilla revoluta  
(Bayliss BS/3296).

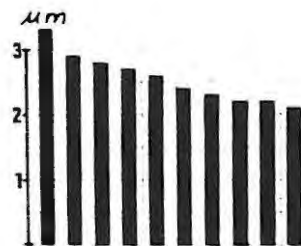


FIG. 228

Idiogram of meiotic chromosomes of Scilla revolta  
(Strey 9292).

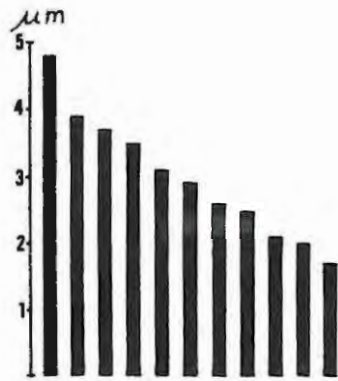


FIG. 229

Idiogram of meiotic chromosomes of Scilla revoluta  
(Jessop 1065).



FIG. 230

Idiogram of meiotic chromosomes of Scilla revoluta  
(Jessop 1065).

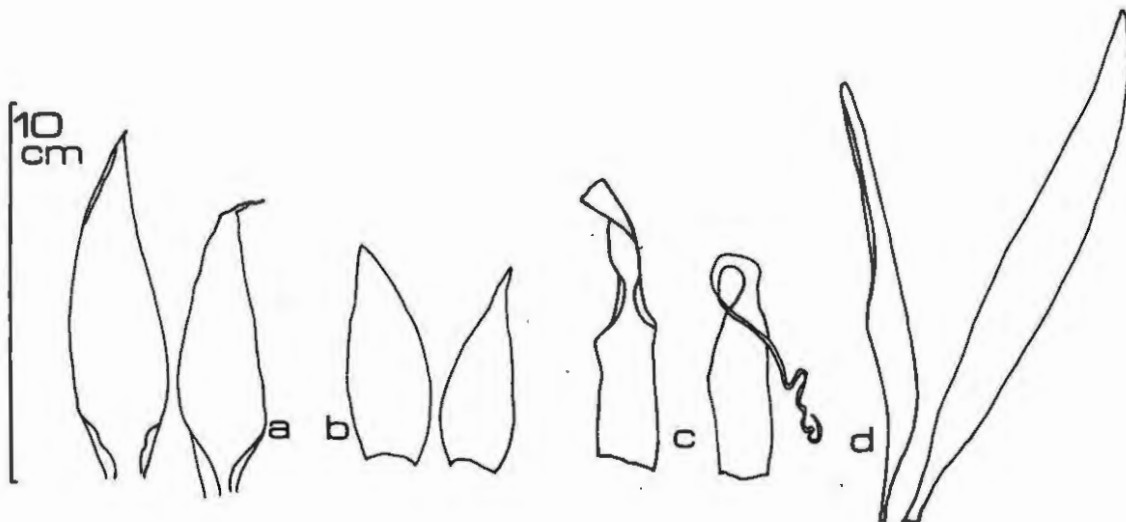


FIG. 231

Leaves of Scilla revoluta - (a) Jessop 1064;  
(b) Bayliss BS/3296; (c) Strey 9292;  
(d) Jessop 1065).

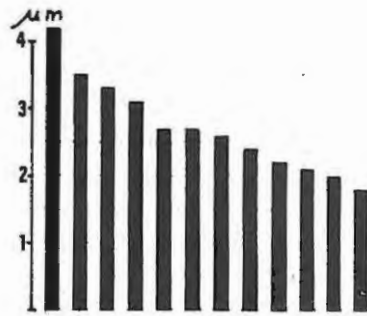


FIG. 232

Idiogram of meiotic chromosomes of Scilla revoluta  
(Jessop 1066).

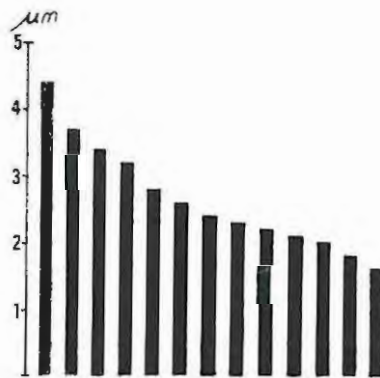


FIG. 233

Idiogram of meiotic chromosomes of Scilla revoluta  
(Jacot Guillarmod s.n.).

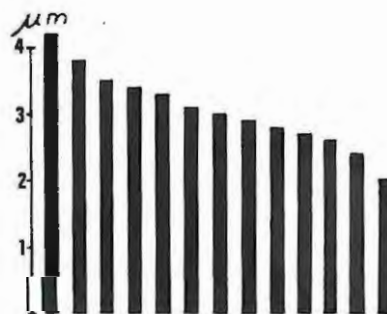


FIG. 234

Idiogram of meiotic chromosomes of Scilla revoluta  
(Jessop 1067).

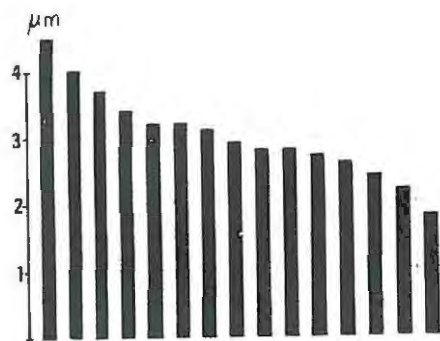


FIG. 235  
 Idiogram of meiotic chromosomes of Scilla revoluta  
 (Easton s.n.).

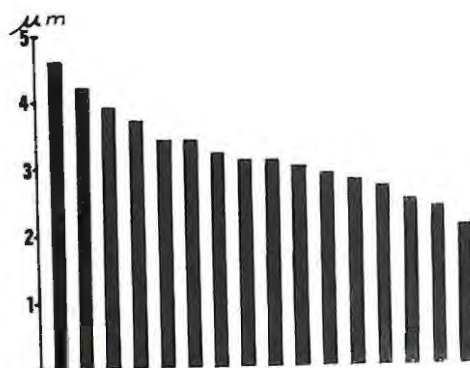


FIG. 236  
 Idiogram of meiotic chromosomes of Scilla revoluta  
 (Bayliss BS/3887).

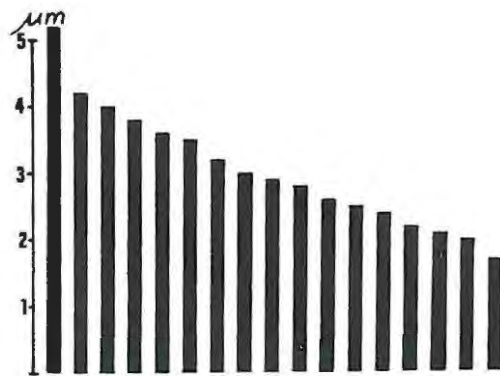


FIG. 237

Idiogram of meiotic chromosomes of Scilla revoluta  
(Bayliss BS/3744).

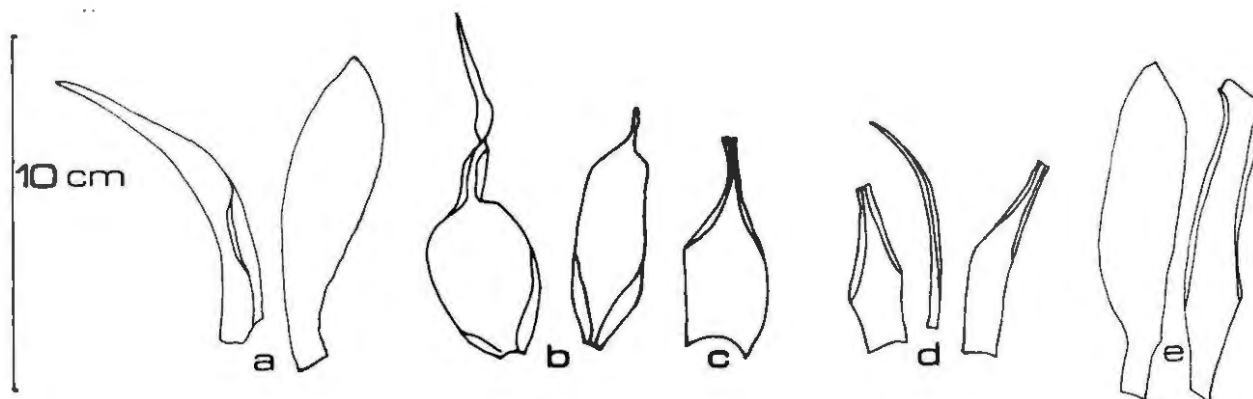


FIG. 238

Leaves of Scilla revoluta: (a) Jacot Guillarmod s.n.;  
(b) Jessop 1067; (c) Easton s.n.; (d) Bayliss BS/3887;  
(e) Bayliss BS/3744.

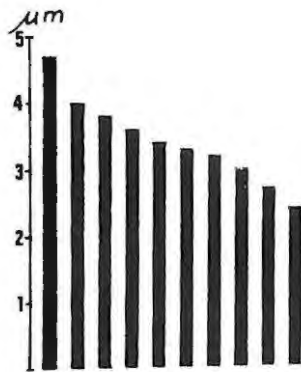


FIG. 239

Idiogram of meiotic chromosomes of Scilla undulata  
(Bayliss BS/3224).

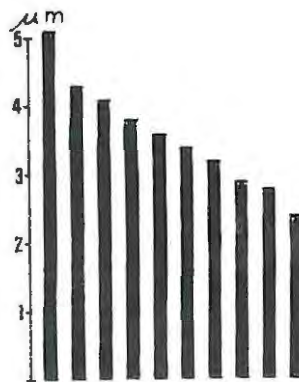
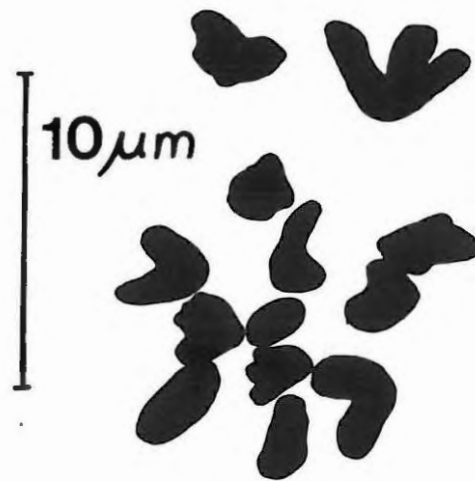


FIG. 240

Idiogram of meiotic chromosomes of Scilla undulata  
(Bayliss BS/3558).



FIGS 241 (above) & 242  
Meiotic chromosomes of Scilla undulata (Jessop 1068).

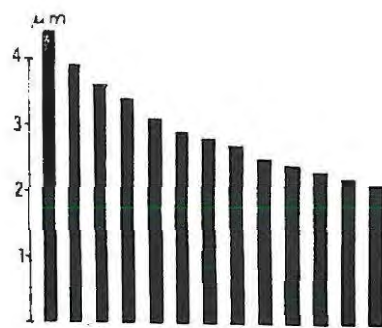
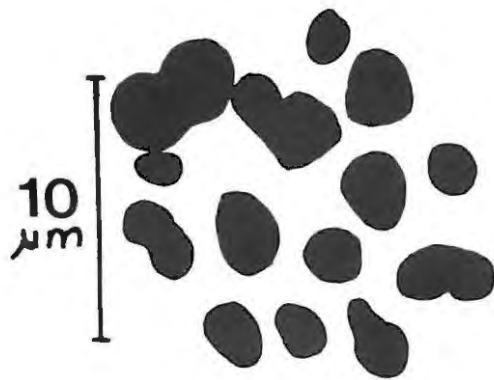
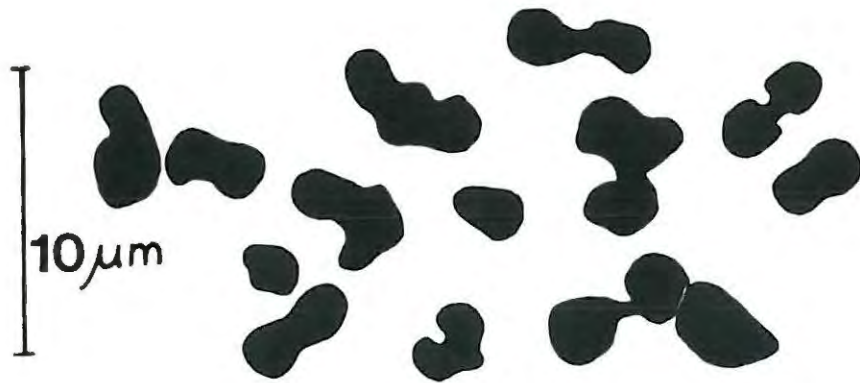


FIG. 243

Idiogram of meiotic chromosomes of Scilla undulata  
(Jessop 1068).



FIGS 244 (above) & 245  
Meiotic chromosomes of Scilla undulata (Bayliss s.n.).



FIGS 246 (above) & 247  
Meiotic chromosomes of Scilla undulata (Bayliss s.n.).

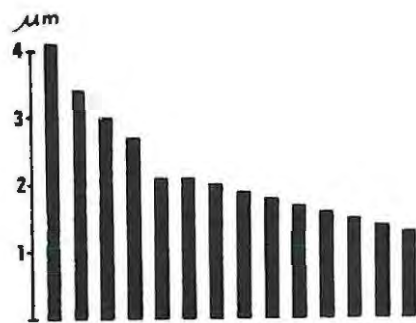


FIG. 248

Idiogram of meiotic chromosomes of Scilla undulata  
(Bayliss s.n.).



FIGS 249 (above) & 250  
Meiotic chromosomes of Scilla undulata (Jessop 1053).

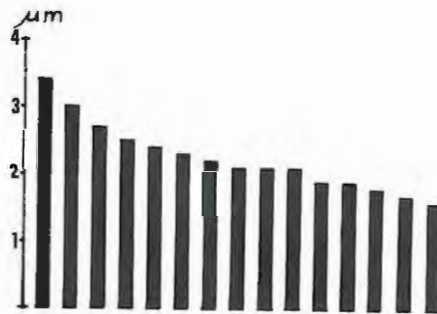


FIG. 251

Idiogram of meiotic chromosomes of Scilla undulata (Jessop 1053).

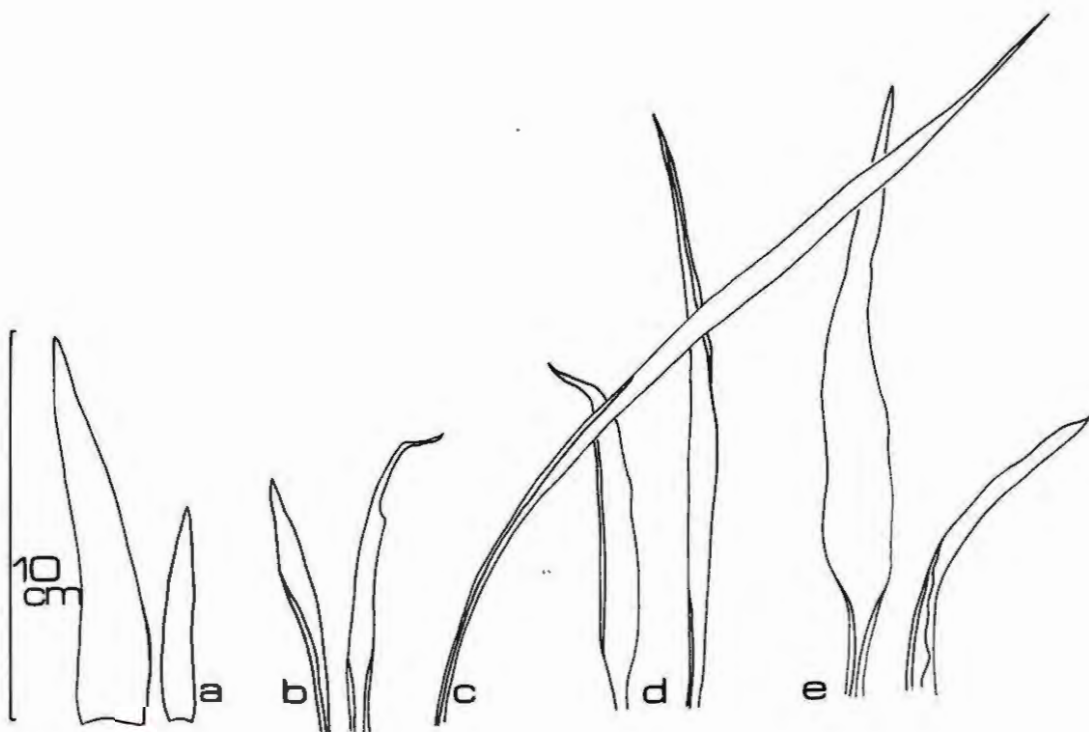
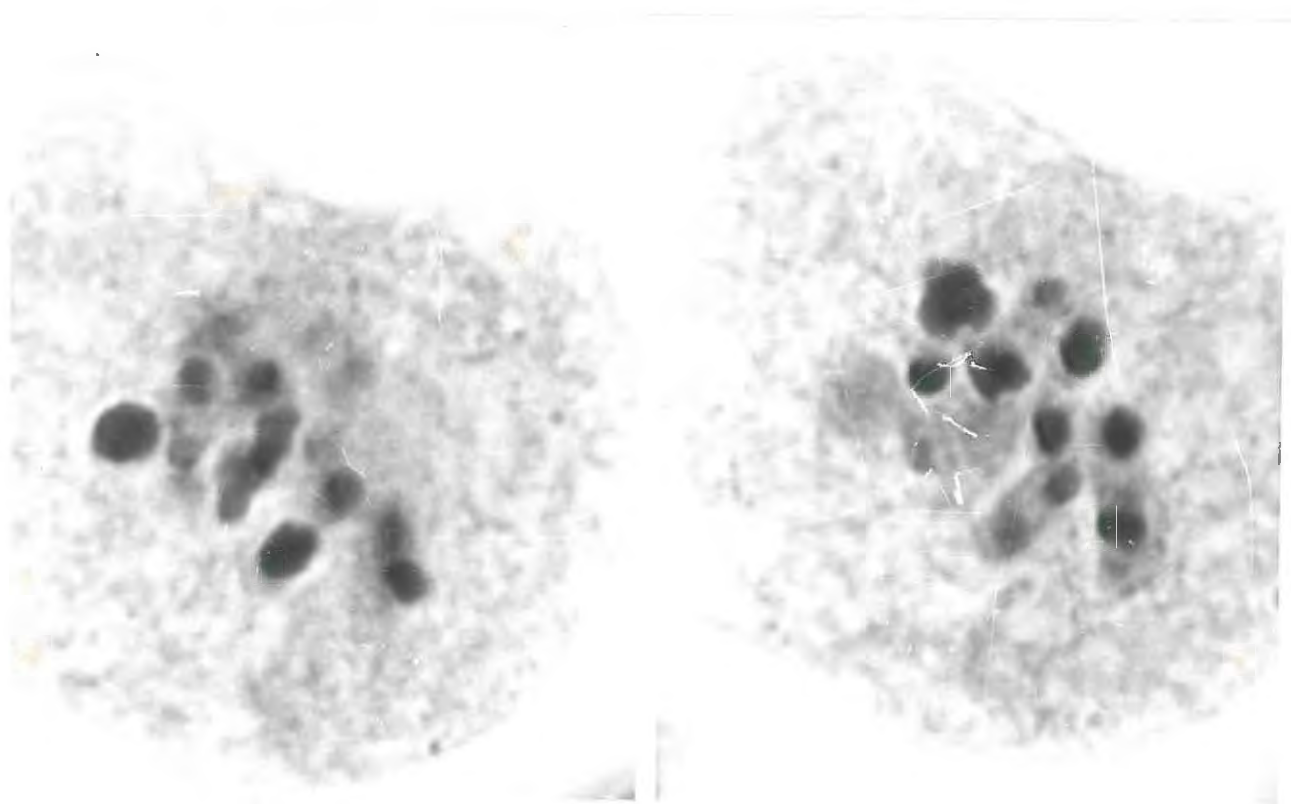


FIG. 252

Leaves of Scilla undulata - (a) Bayliss BS/3224; (b) Bayliss BS/3558; (c) Jessop 1068; (d) Bayliss s.n.; (e) Jessop 1053.



FIGS 253 (above left), 254 (above right) & 255  
Meiotic chromosomes of *Scilla marginata*  
(Bayliss BS/3931).



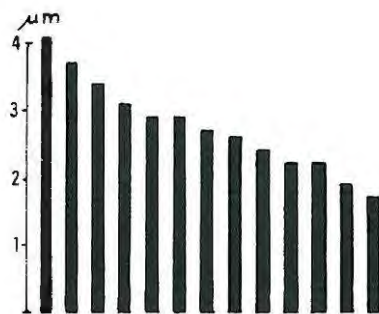


FIG. 256

Idiogram of meiotic chromosomes of Scilla marginata  
(Bayliss BS/3931).

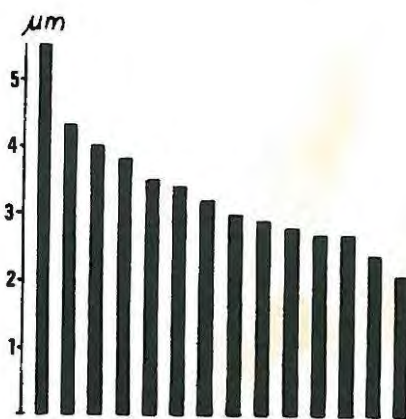


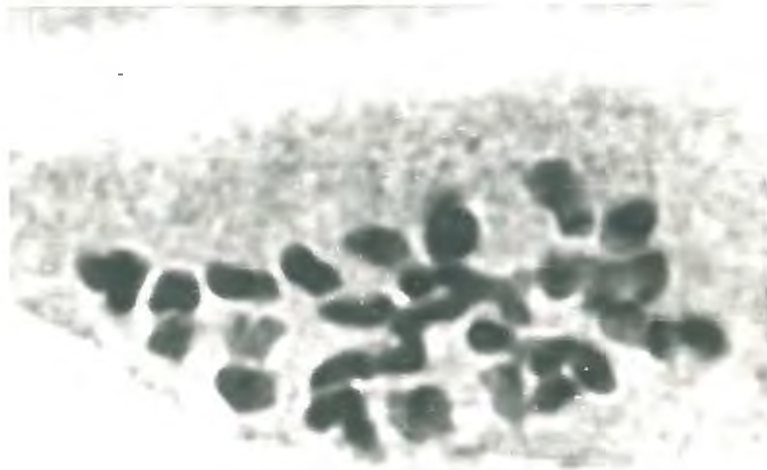
FIG. 257

Idiogram of meiotic chromosomes of Scilla marginata  
(Jessop s.n.).



FIG. 258

Idiogram of meiotic chromosomes of Scilla sp. nov.  
(Jessop 1057).



FIGS 259 (above) & 260  
Meiotic chromosomes of Scilla ovatifolia.

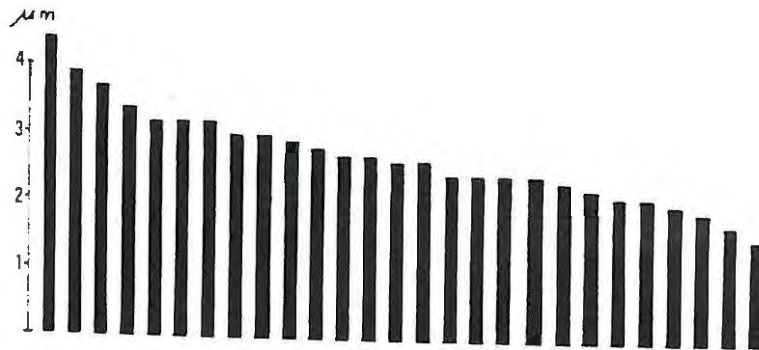


FIG. 261  
Idiogram of meiotic chromosomes of Scilla ovatifolia.

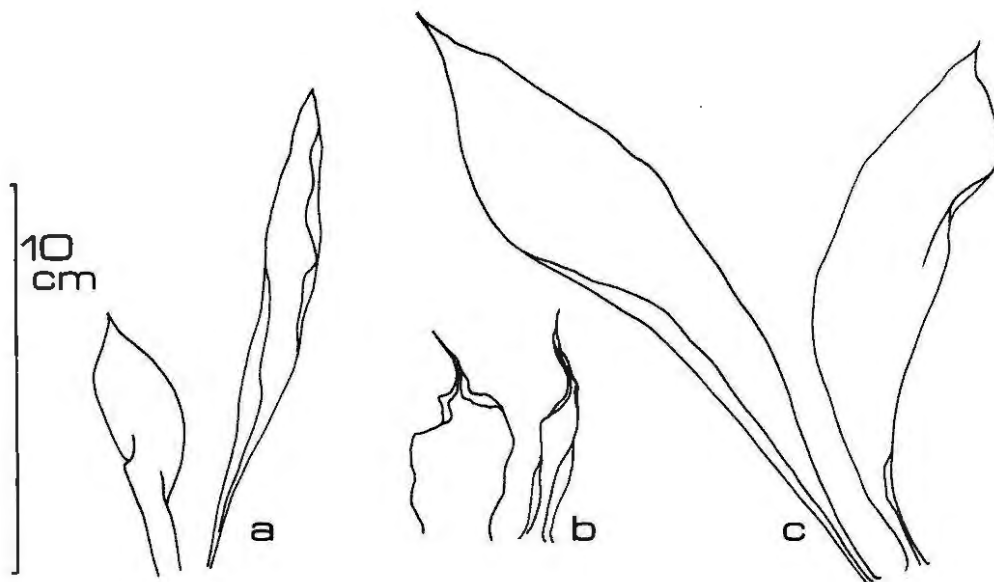


FIG. 262  
Leaves of: (a) Scilla marginata (Bayliss BS/3931);  
(b) Scilla sp. nov. (Ledebouria luteola);  
(c) Scilla ovatifolia.

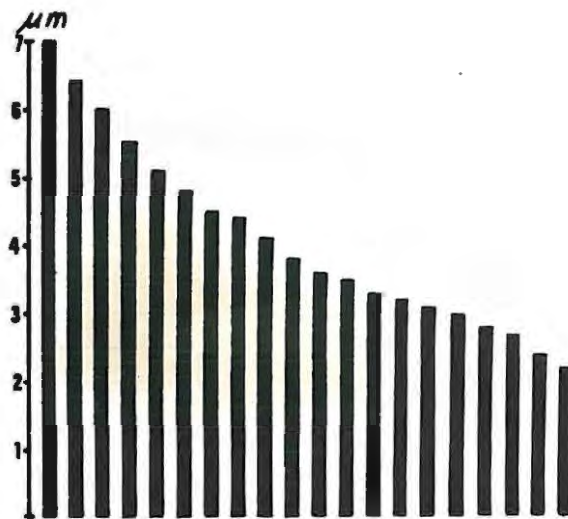
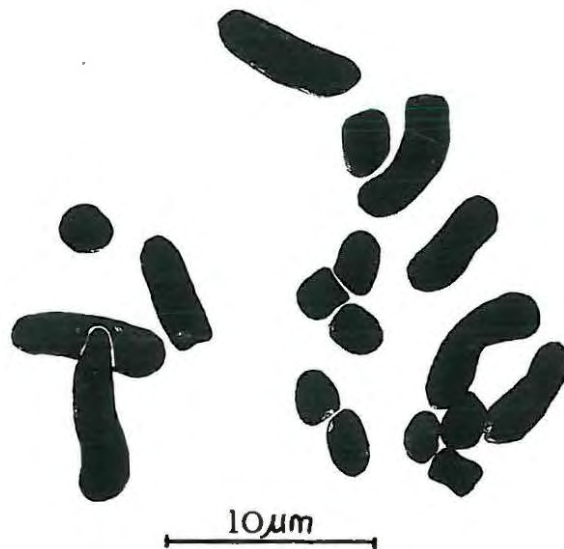
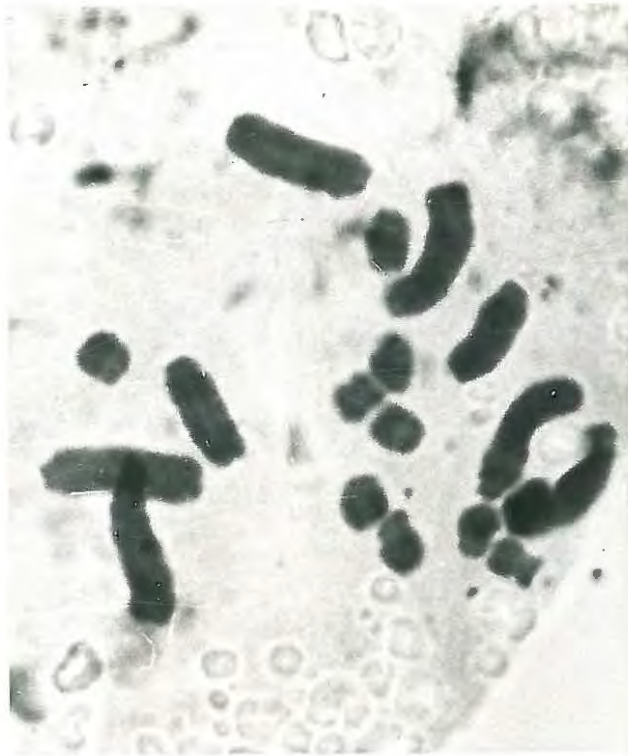


FIG. 263

Idiogram of mitotic chromosomes of Scilla sp. nov.  
(Ledebouria scabrada; Tölken s.n.).



FIGS 264 (above) & 265  
Mitotic chromosomes of Scilla firmifolia.

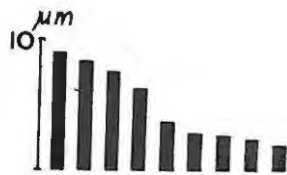
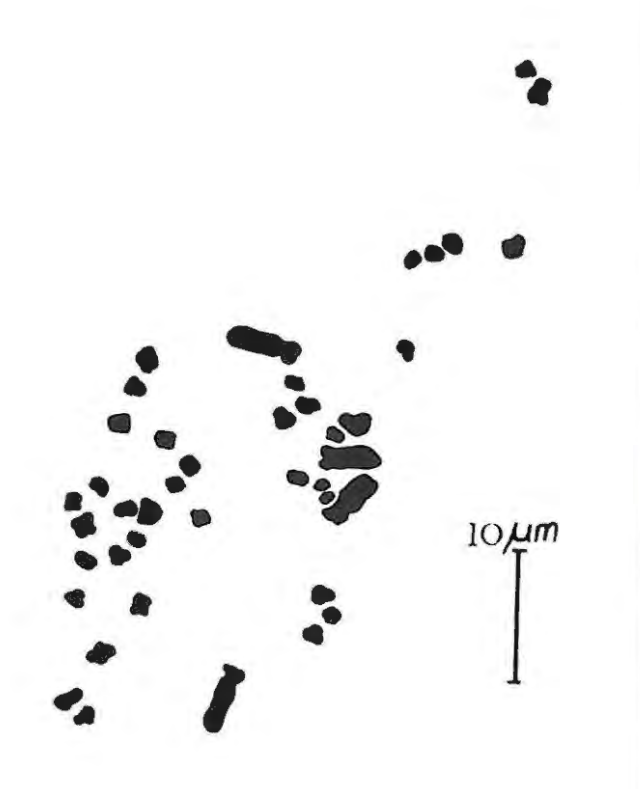
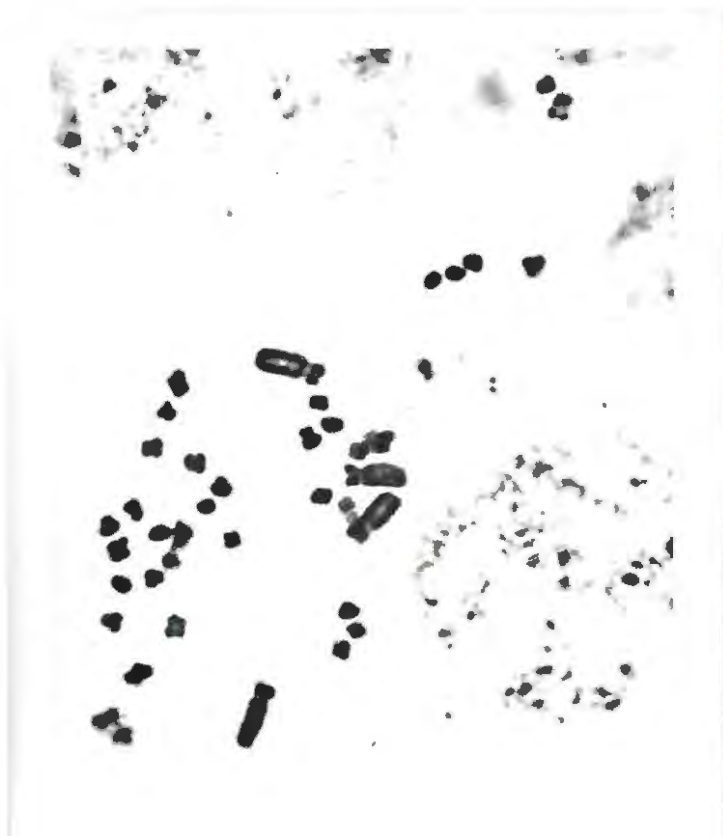


FIG. 266

Idiogram of mitotic chromosomes of Scilla firmifolia.



FIGS 267 (above) & 268  
Mitotic chromosomes of Scilla nervosa.



FIG. 269

Idiogram of mitotic chromosomes of *Scilla nervosa*.

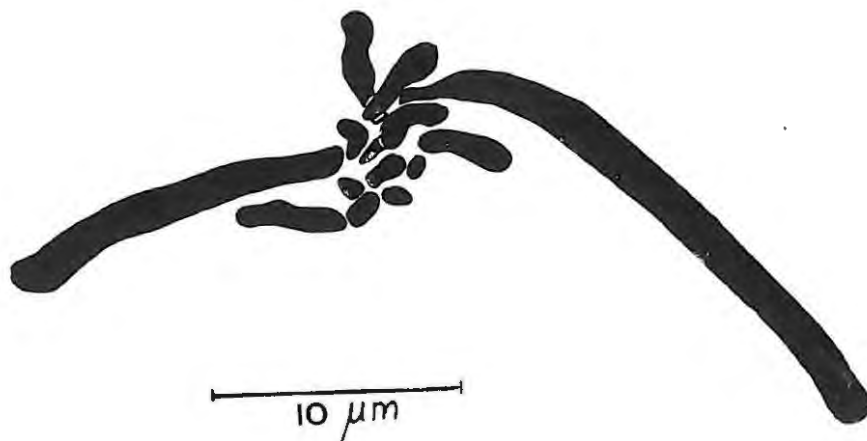


FIG. 270  
Mitotic chromosomes of Scilla plumbea.

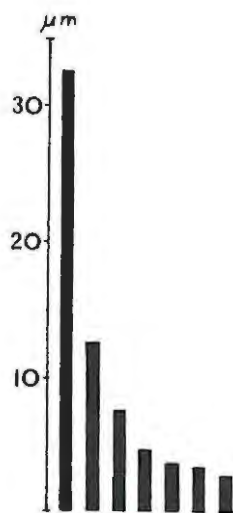
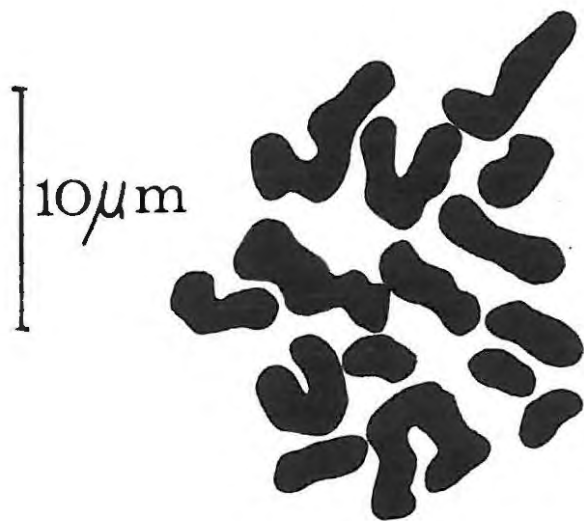
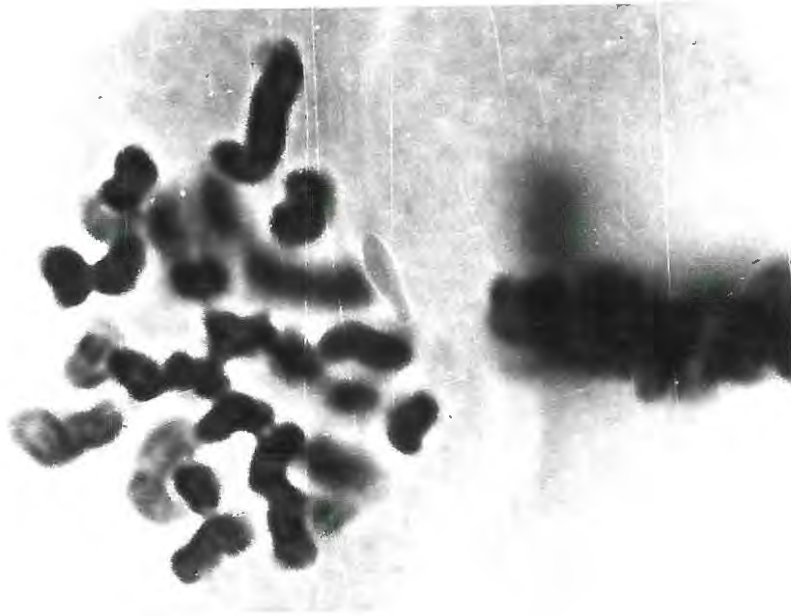
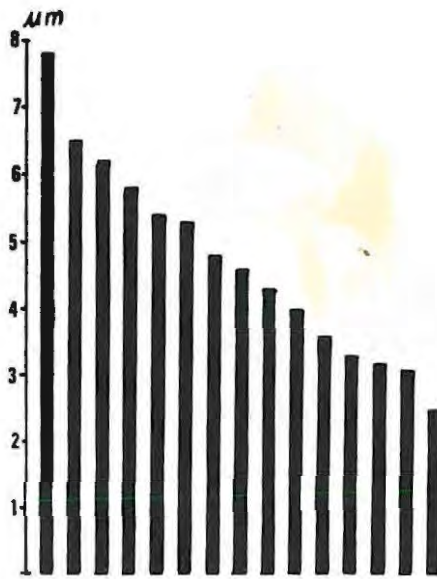


FIG. 271  
Idiogram of mitotic chromosomes of Scilla plumbea.



FIGS 272 (above) & 273

Meiotic chromosomes of Drimiopsis maculata (Strey 9031).



74

m of meiotic chromosomes of Driniopsis maculata  
9031).

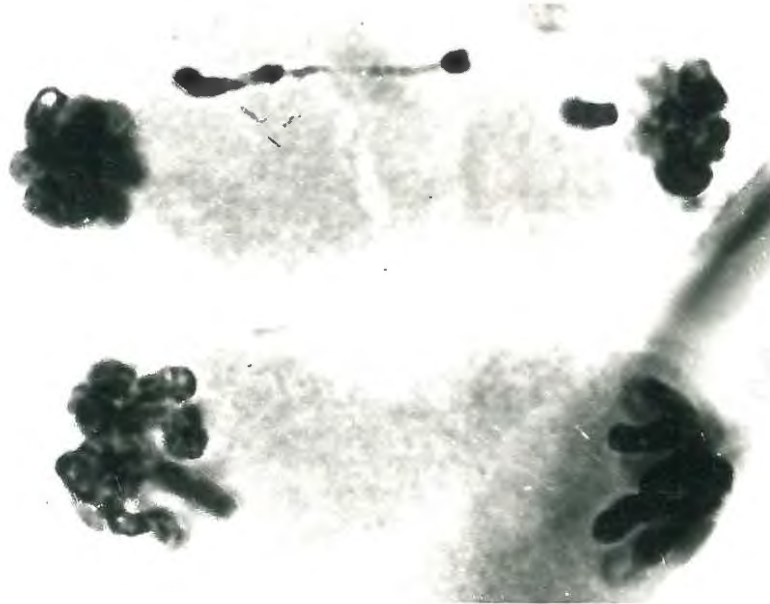


FIG. 275

Meiotic chromosomes of Drimiopsis maculata,  
showing laggards (Jacot Guillarmod s.n.).

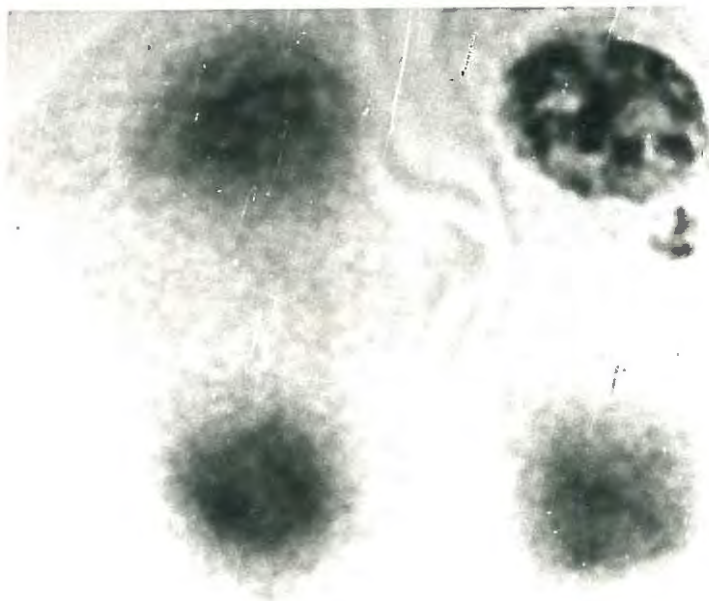


FIG. 276

Meiotic chromosomes of Drimiopsis maculata,  
showing a micronucleus (Jacot Guillarmod s.n.).

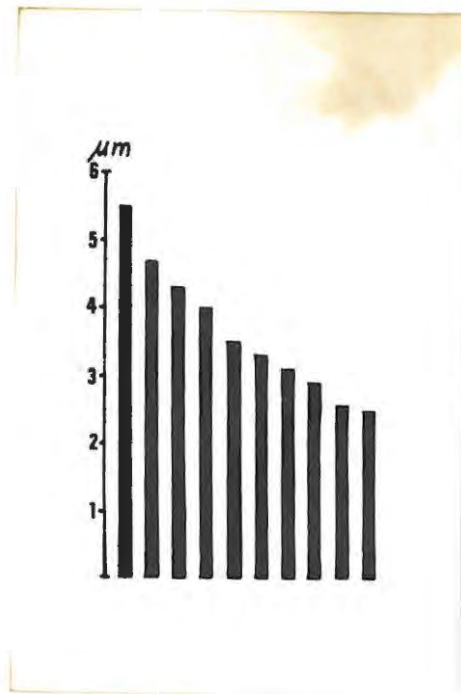


FIG. 277

Idiogram of meiotic chromosomes of Drimiopsis burkei.

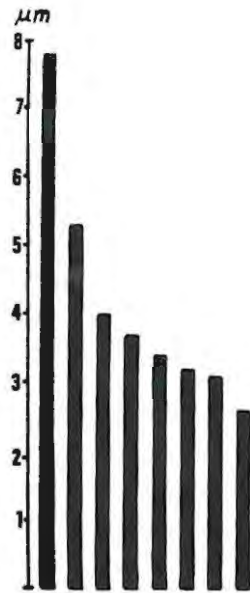


FIG. 278

Idiogram of meiotic chromosomes of Drimia anomala  
(Kaffir Drift).

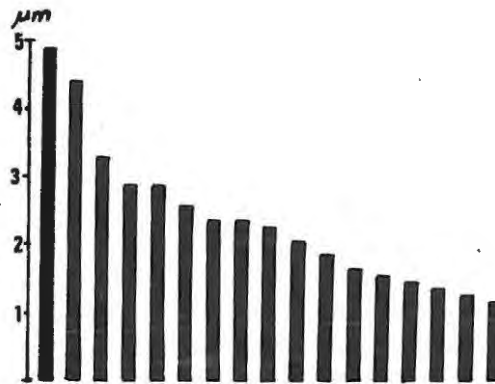


FIG. 279

Idiogram of meiotic chromosomes of Drimia anomala  
(Fort Brown).

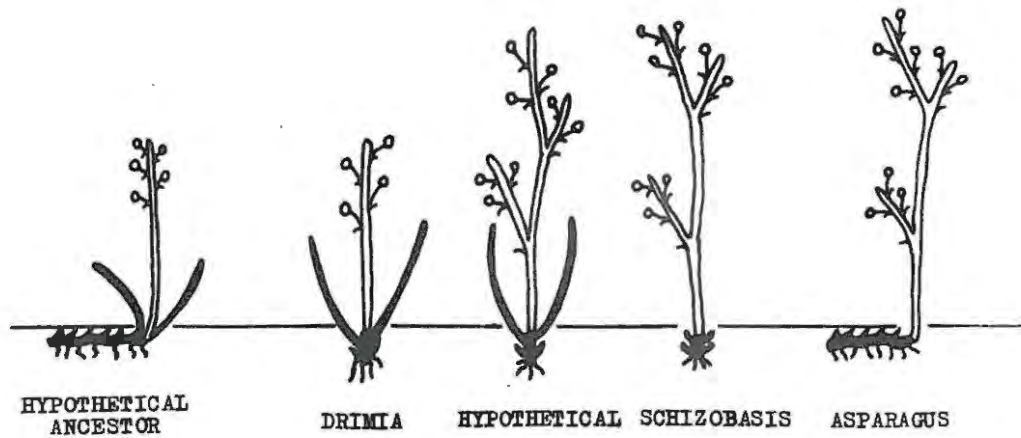


FIG. 280

Diagram indicating evolutionary sequence (from left to right), leading from a hypothetical ancestor through plants morphologically similar to Drimia and Schizobasis to Asparagus.

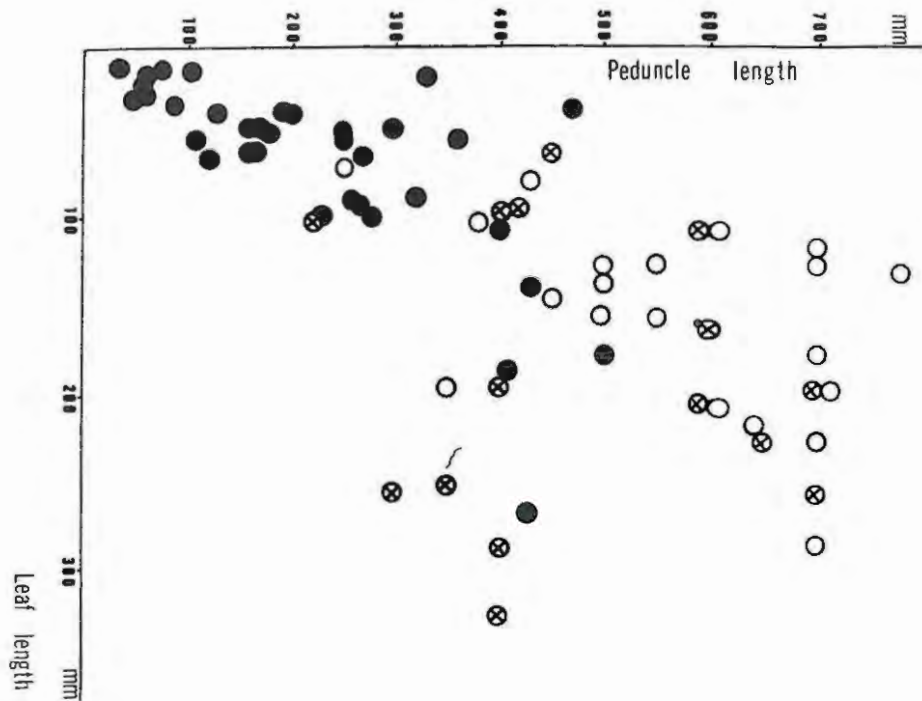


FIG. 281

Diagram to illustrate variation in peduncle and leaf length and leaf hairiness in Scilla natalensis.

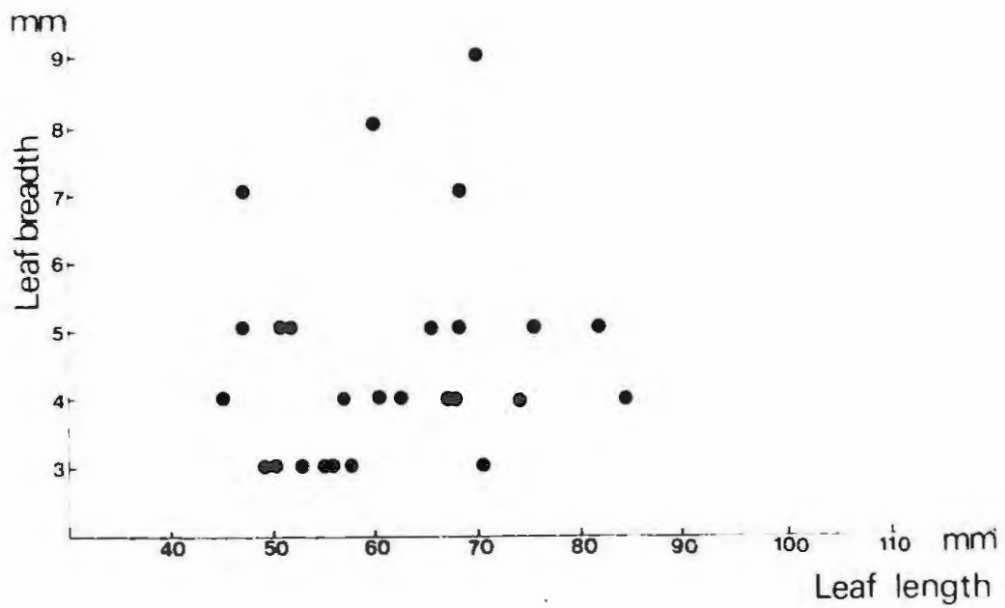


FIG. 282

Diagram to illustrate variation in a small population of *Scilla nervosa*. Population area: 15 miles S.E. of Kamsberg on road to Nottingham Road (2929; Underberg, Natal); 80 m<sup>2</sup>.

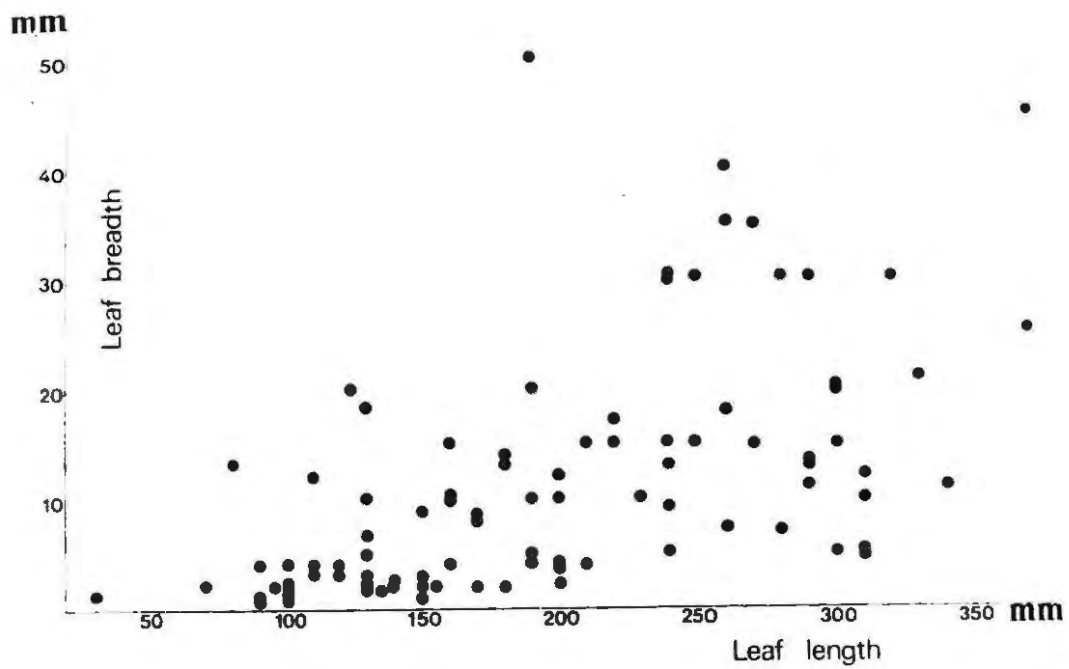


FIG. 283

Diagram to illustrate variation in leaf size in *Scilla nervosa*; based on herbarium specimens.

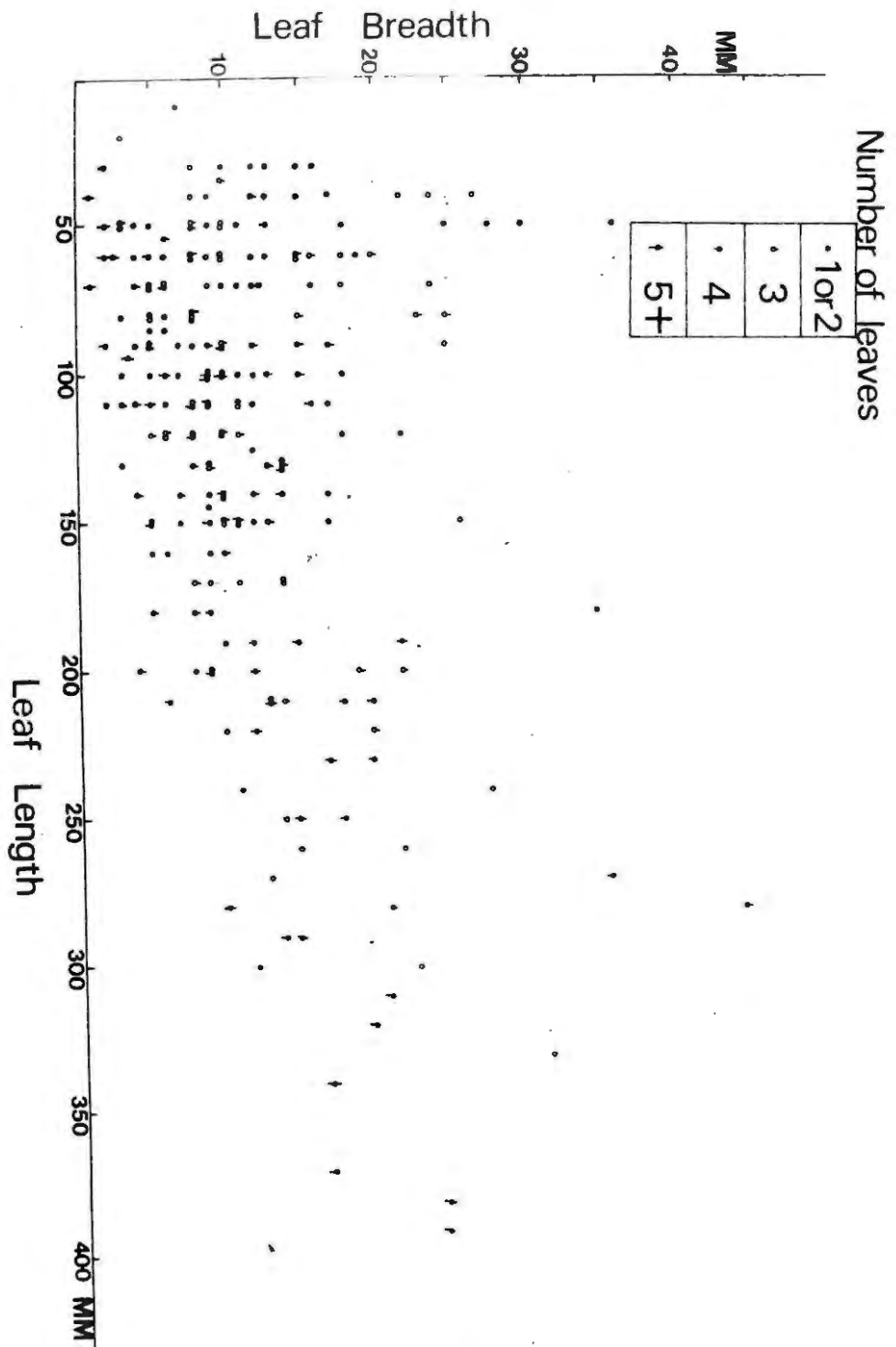


FIG. 284

Diagram to illustrate variation in leaf size and number in the Ledebouria cooperi complex; based on herbarium specimens.

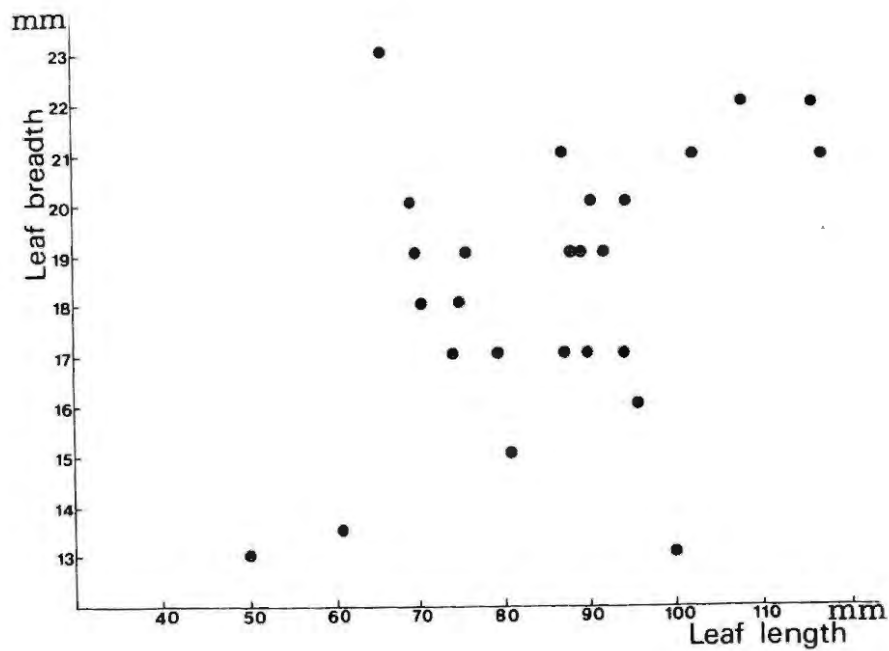


FIG. 285

Diagram to illustrate variation in a small population of Ledebouria marginata. Population area: 12 miles north of Cathcart (3227; Stutterheim, Cape); 2000m<sup>2</sup>.

PLANT. NOV. 1908. 4. CAP. 722

NATIONAL HERBARIUM  
PRETORIA

DISTRICT

Altitude

Date

By

Name

From

Local

Notes

Disposition

No.

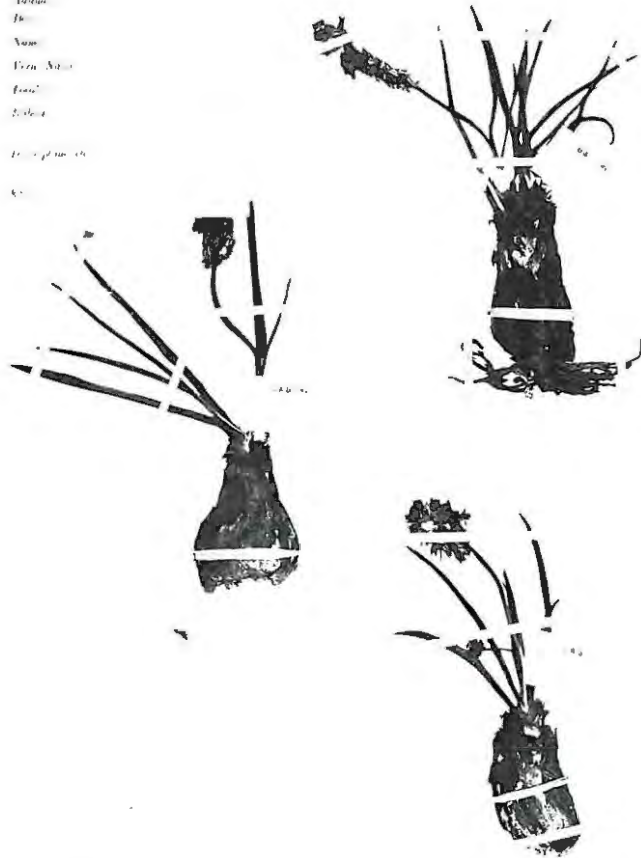


FIG. 286

Holotype of Ledebouria luteola, sp. nov. (Codd  
5625; PRE). x 1/4.



FIG. 287

Holotype of *Ledebouria viscosa*, sp. nov. (Meeuse  
10493; PRE). x 1/4.

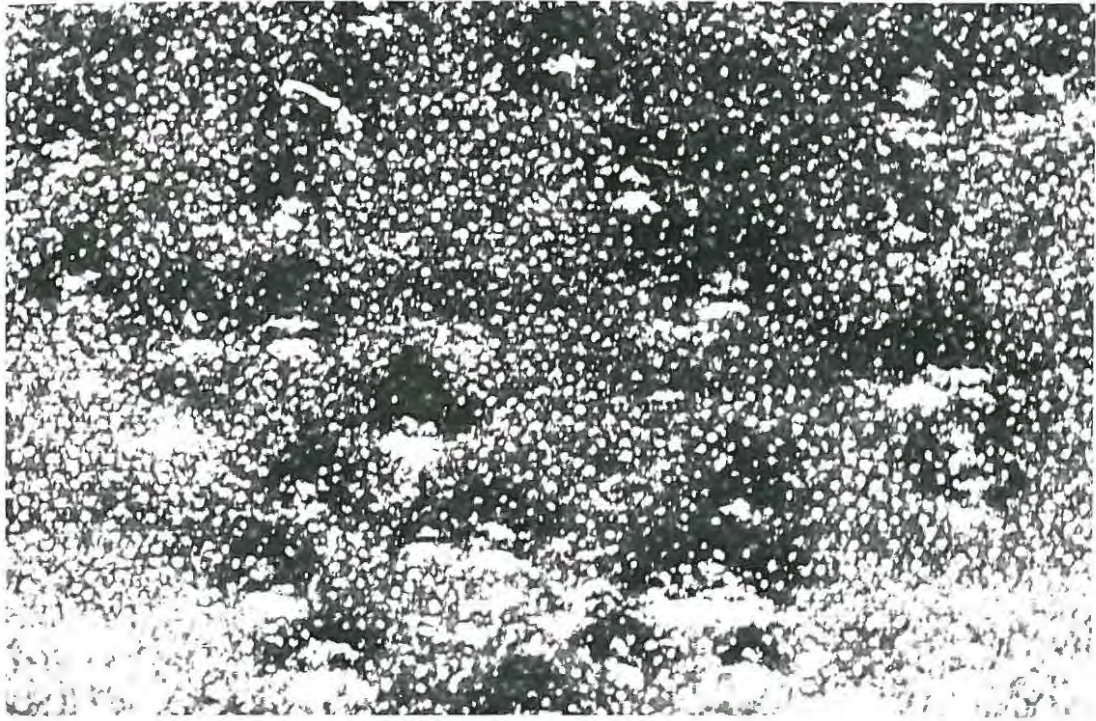


FIG. 288

Dorsal surface of leaf of Ledebouria scabrida.  
x 10.



FIG. 289

Dorsal surface of leaf of Ledebouria hypoxidioides.  
x 10.



FIG. 290

Holotype of Ledebouria scabrida, sp. nov. (Tölken  
s.n.; GRA). Scale-10 mm.

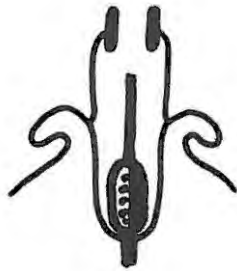


FIG. 291

Half flower of Massonia depressa to show curve in perianth segments.

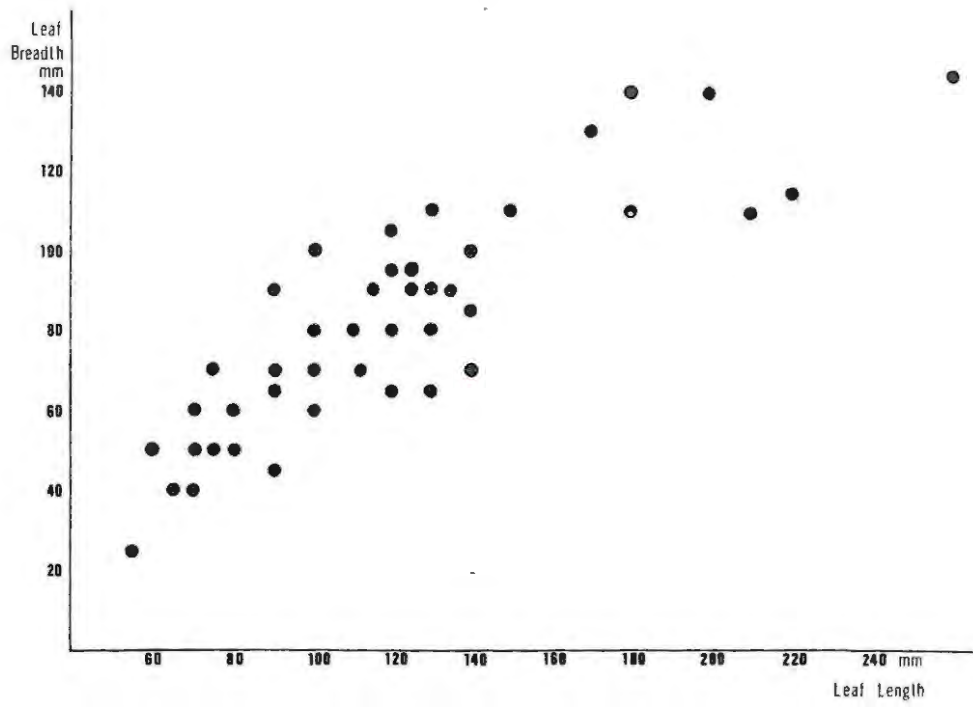


FIG. 292

Diagram to indicate variation in leaf measurements  
in Massonia depressa. From herbarium material.

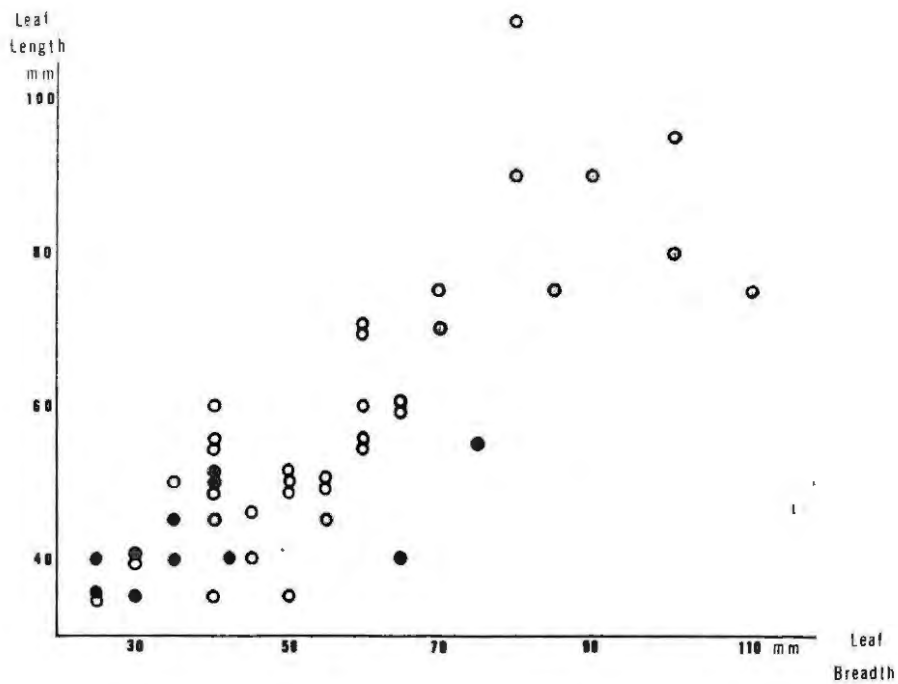


FIG. 293

Diagram to illustrate variation in a population of plants resembling *Massonia depressa* in having anthers at least 2 mm long. Population area: top of Van Rhy'n's Pass (3319; Calvinia, Cape). Solid spots indicate muricate leaves.

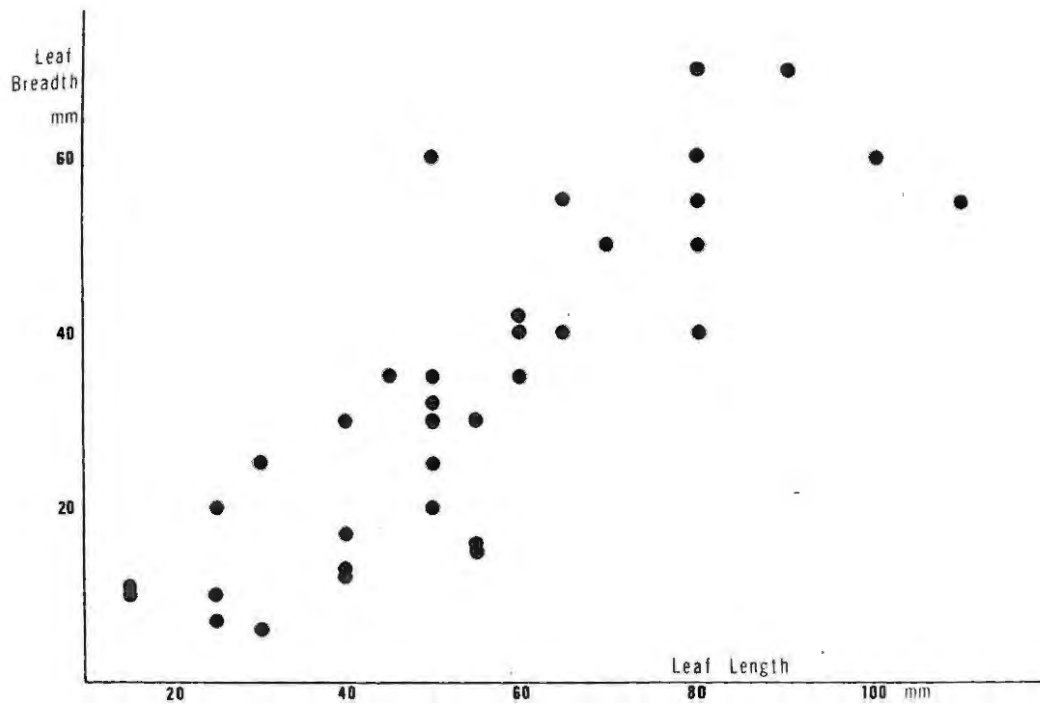


FIG. 294

Diagram to indicate variation in leaf measurements in Massonia echinata. From herbarium material.

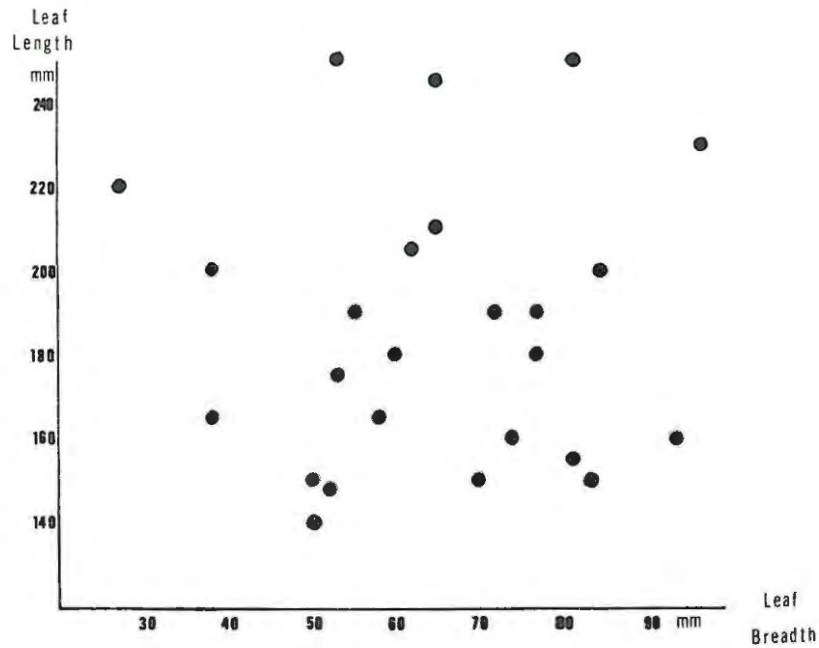


FIG. 295

Diagram to illustrate variation in leaf measurements in Massonia angustifolia in a small population. Population area: Paternoster, behind hotel (3217; Vredenburg, Cape).

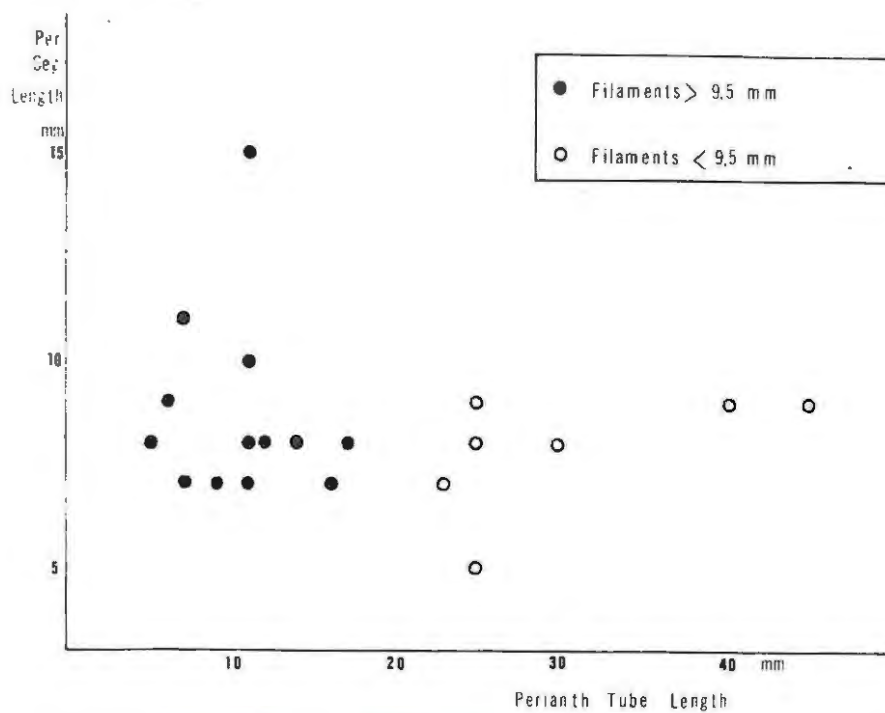


FIG. 296

Diagram to illustrate the separation of Massonia angustifolia from M. comata on filament and perianth tube lengths.

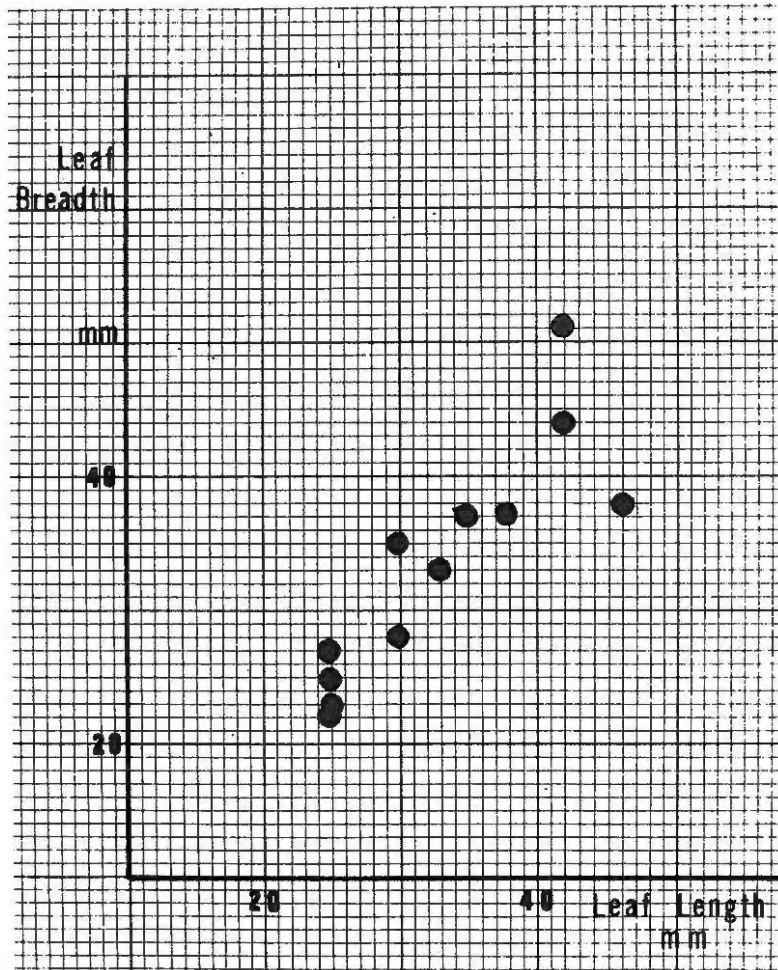


FIG. 297

Diagram to illustrate variation in a small population of Massonia jasminiflora .  
 Population area: "Vierkant" turning, north of Bloemfontein (30 miles S.W. of Winburg) (2827; Senekal, Orange Free State).

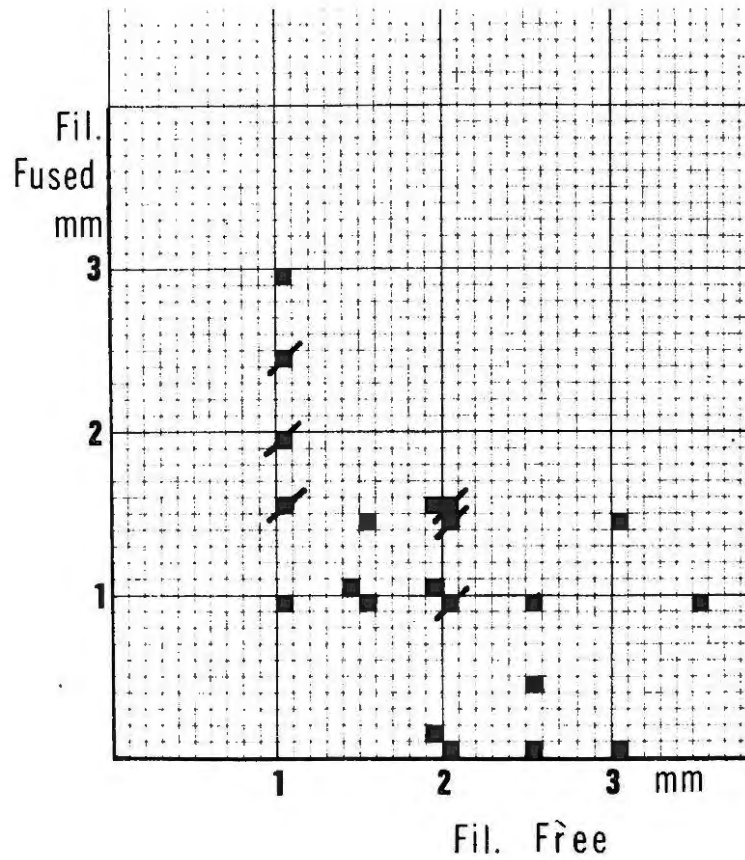


FIG. 298

Diagram to illustrate variation in the lengths of free and fused parts of filaments. Blocks crossed indicate plants with reflexed perianth segments.

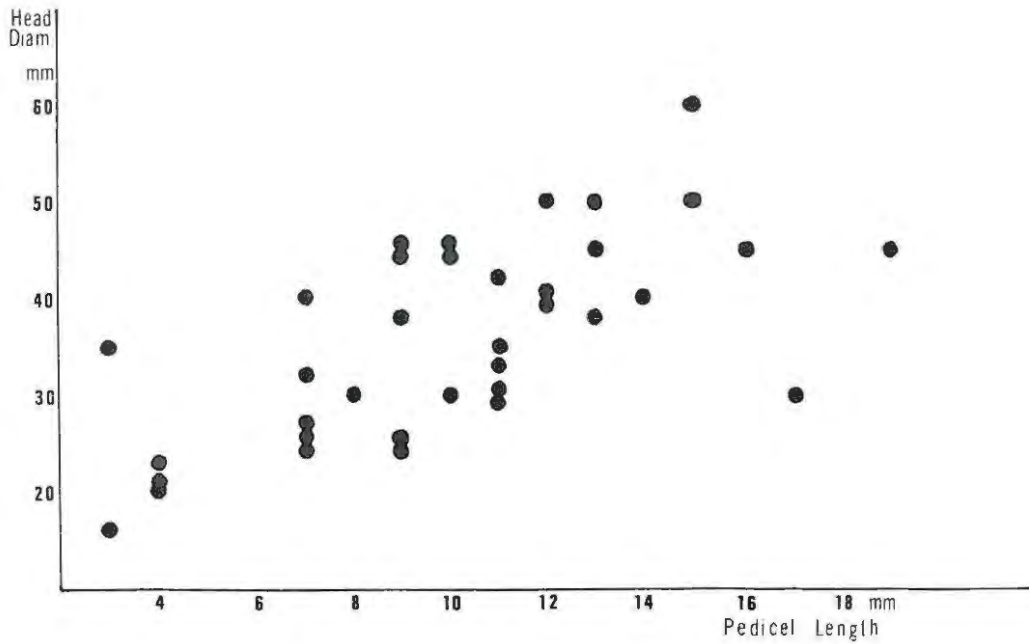


FIG. 299

Diagram to illustrate variation in diameter of flowering head and of pedicel length in Drimia sphaerocephala.

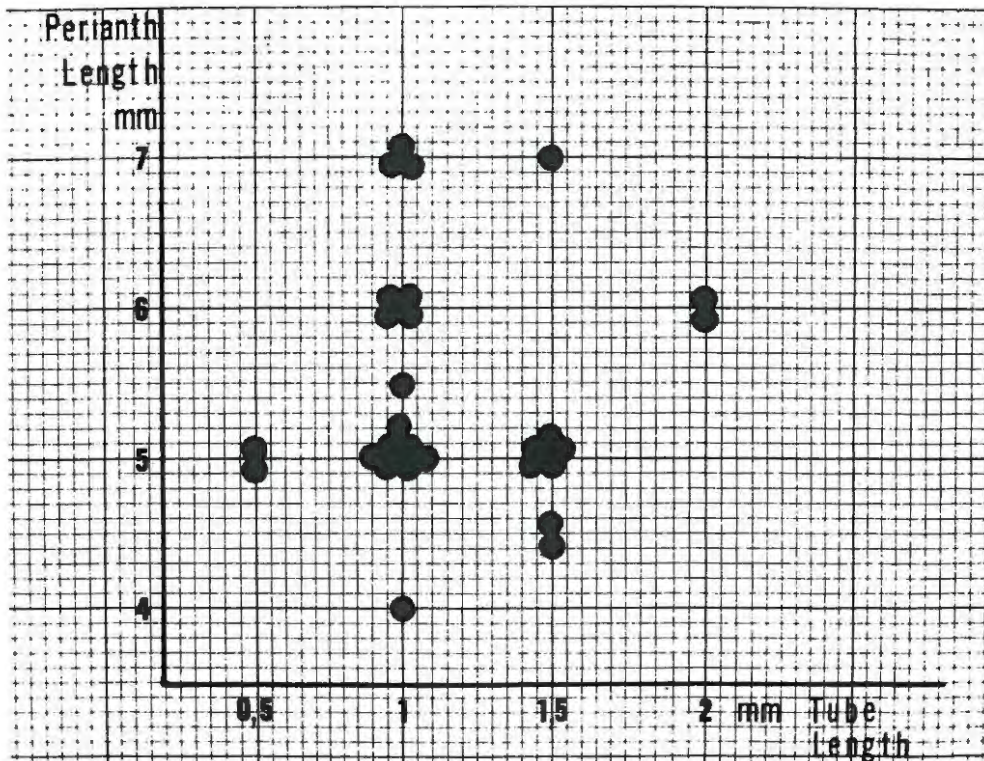


FIG. 300

Diagram to illustrate variation in the lengths of free and fused portions of the perianth of Drimia modesta from the south-western Cape.

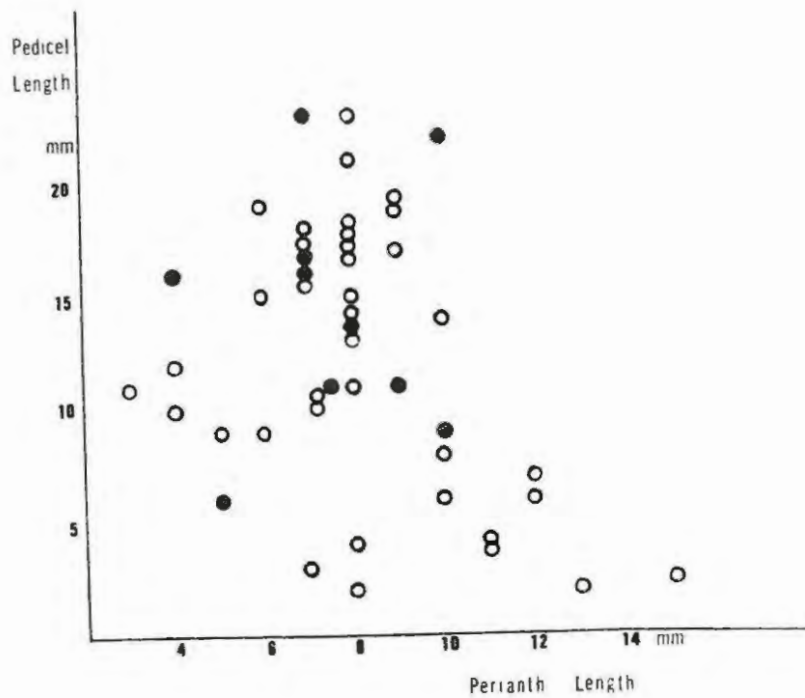


FIG. 301

Diagram to illustrate variation in pedicel and perianth lengths in Drimia altissima. Solid dots indicate plants known to have epigeal bulbs. From herbarium material.