

Zeitschrift: Cryptogamica Helvetica
Herausgeber: Schweizerische Vereinigung für Bryologie und Lichenologie Bryolich
Band: 16 (1985)

Artikel: Brandpilze Mitteleuropas unter besonderer Berücksichtigung der Schweiz
Autor: Zogg, H.
Kapitel: Bildteil
DOI: <https://doi.org/10.5169/seals-821149>

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 06.08.2025

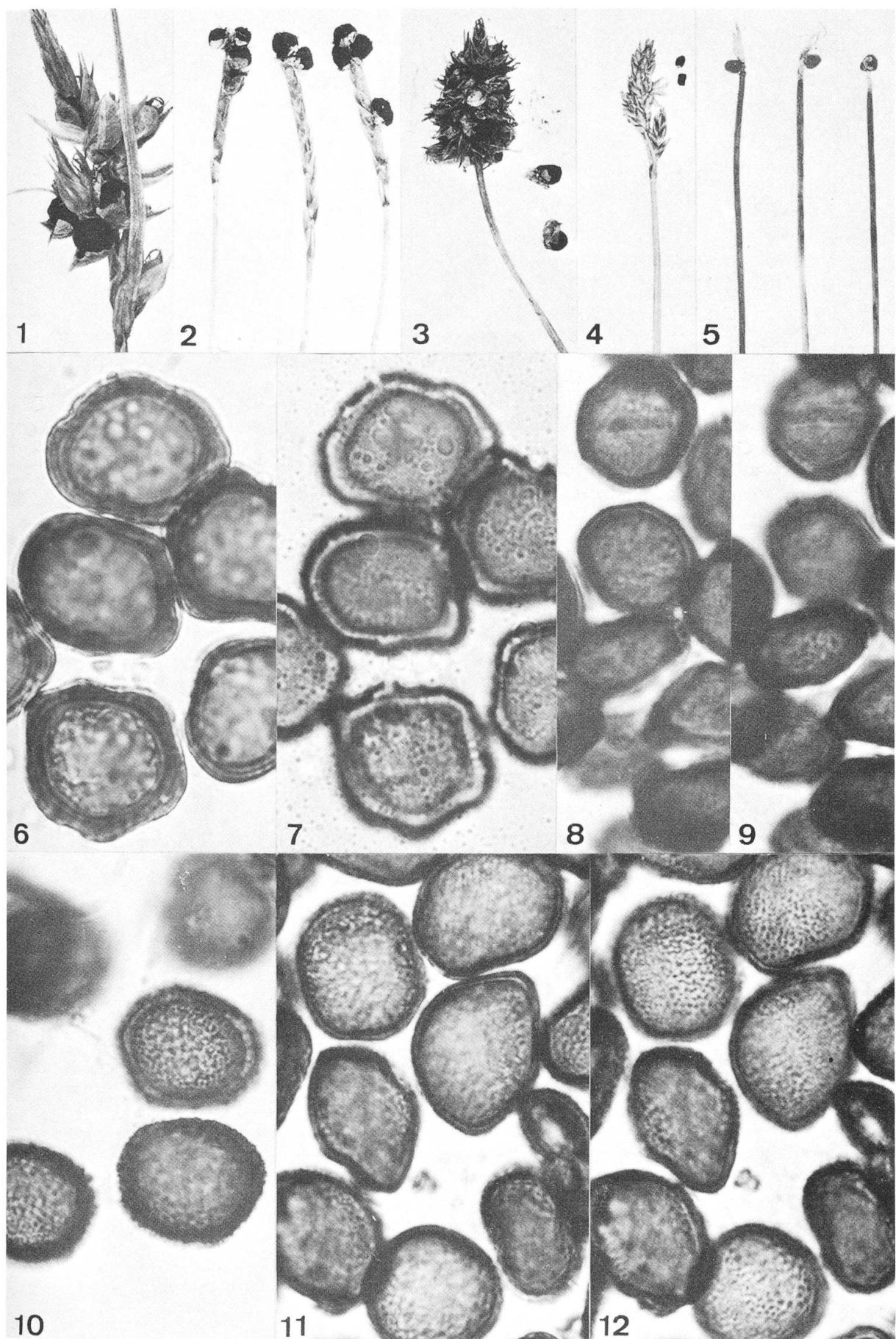
ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

BILDTEIL

Tafel 1

ANTHRACOIDEA, Cyperaceae

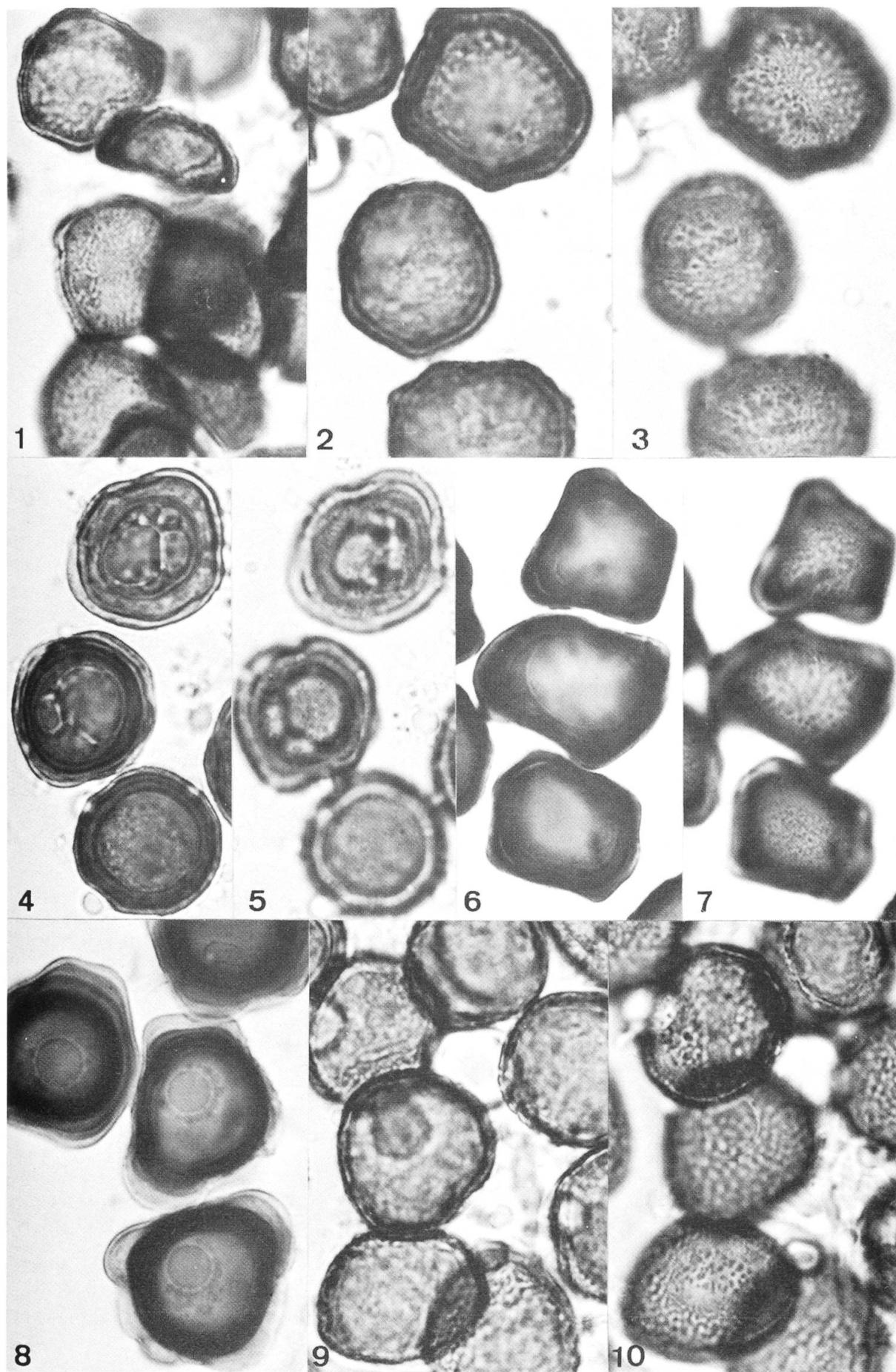
1. A. caricis, *Carex pilulifera* (Hab. 3.5 ×)
2. A. elynae, *Elyna myosuroides* (Hab. 1.3 ×)
3. A. foetidae, *Carex foetida* (Hab. 1.8 ×)
4. A. lindebergiae, *Cobresia bipartita* (Hab. 1.2 ×)
5. A. scirpi, *Trichophorum caespitosum* (Hab. 1.2 ×)
- 6.-7. A. angulata, *Carex hirta* (Sp. 1000 × ; Sp. 1000 ×)
- 8.-9. A. arenaria, *Carex arenaria* (Sp. 1000 × ; Sp. 1000 ×)
10. A. aspera, *Carex chordorrhiza* (Sp. 1000 ×)
- 11.-12. A. atratae, *Carex atrata* (Sp. 1000 × ; 1000 ×)



Tafel 2

ANTHRACOIDEA, Cyperaceae

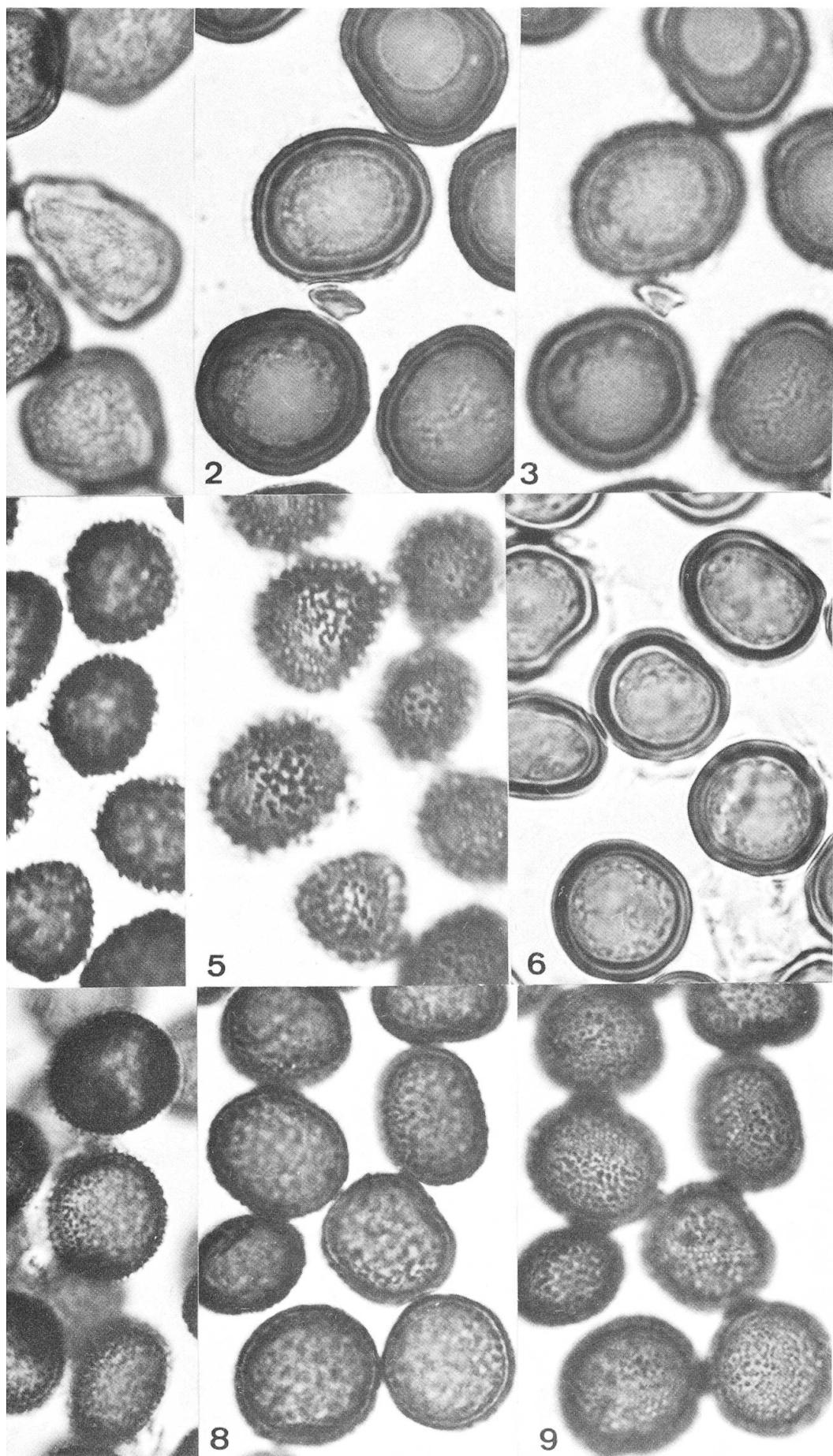
1. A. baldensis, *Carex baldensis* (Sp. 1000 ×)
- 2.-3. A. buxbaumii, *Carex buxbaumii* (Sp. 1000 × ; Sp. 1000 ×)
- 4.-5. A. capillaris, *Carex capillaris* (Sp. 1000 × ; Sp. 1000 ×)
- 6.-7. A. caricis, *Carex pilulifera* (Sp. 1000 × ; Sp. 1000 ×)
8. A. caricis-albae, *Carex alba* (Sp. 1000 ×)
- 9.-10. A. caricis-pauciflorae, *Carex pauciflora* (Sp. 1000 × ; Sp. 1000 ×)



Tafel 3

ANTHRACOIDEA, Cyperaceae

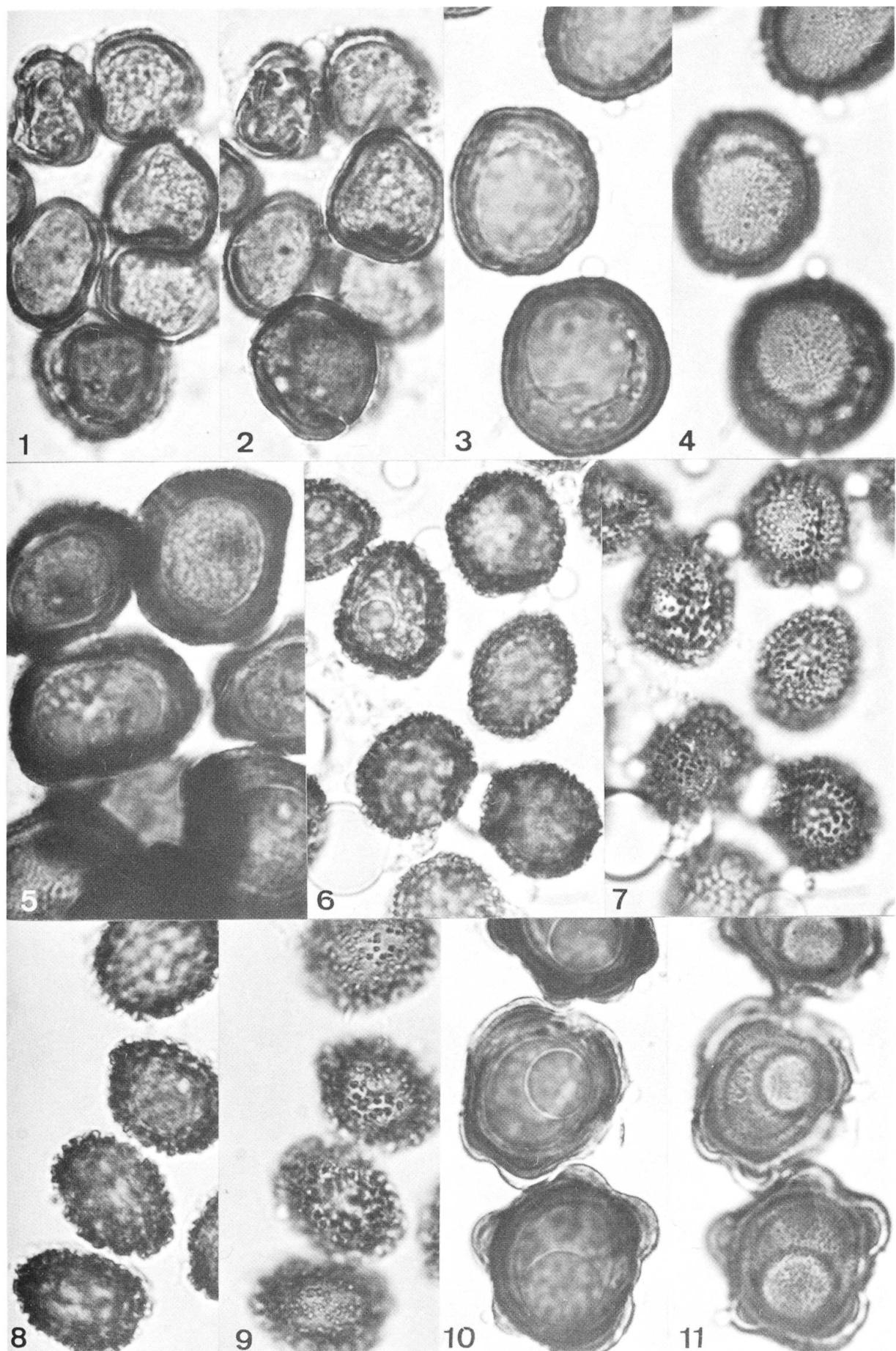
1. A. caryphylleae, *Carex verna* (Sp. 1000 ×)
- 2.-3. A. curvulae, *Carex curvula* (Sp. 1000 × ; Sp. 1000 ×)
- 4.-5. A. echinospora, *Carex gracilis* (Sp. 1000 × ; Sp. 1000 ×)
6. A. elynae, *Elyna myosuroides* (Sp. 1000 ×)
7. A. fischeri, *Carex canescens* (Sp. 1000 ×)
- 8.-9. A. foetidae, *Carex foetida* (Sp. 1000 × ; Sp. 1000 ×)



Tafel 4

ANTHRACOIDEA, Cyperaceae

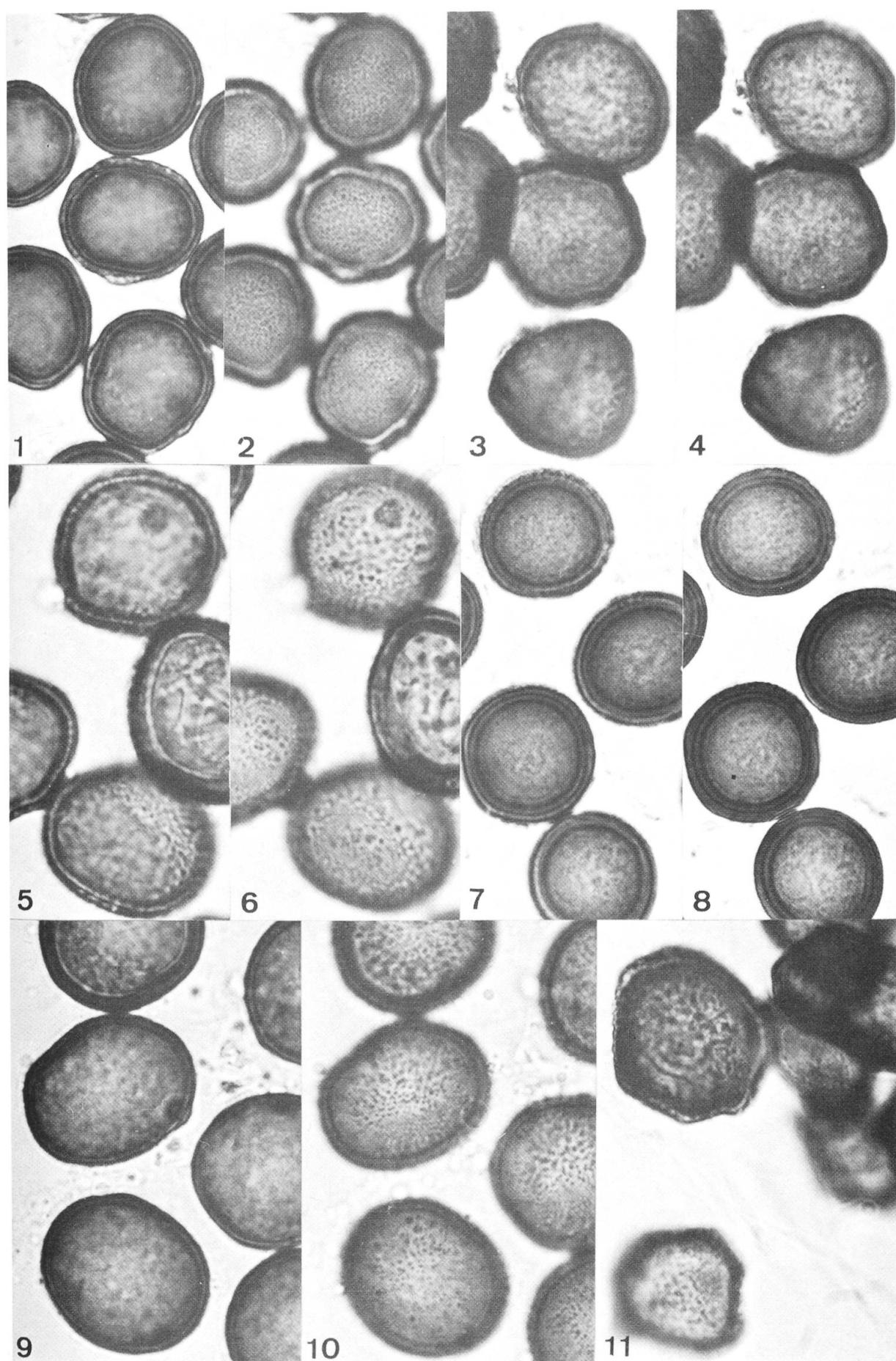
- 1.-2. A. heterospora, *Carex fusca* (Sp. 1000× ; Sp. 1000×)
- 3.-4. A. hostiana, *Carex hostiana* (Sp. 1000× ; Sp. 1000×)
5. A. humilis, *Carex humilis* (Sp. 1000×)
- 6.-7. A. inclusa, *Carex rostrata* (Sp. 1000× ; Sp. 1000×)
- 8.-9. A. intercedens, *Carex lasiocarpa* (Sp. 1000× ; Sp. 1000×)
- 10.-11. A. irregularis, *Carex digitata* (Sp. 1000× ; Sp. 1000×)



Tafel 5

ANTHRACOIDEA, Cyperaceae

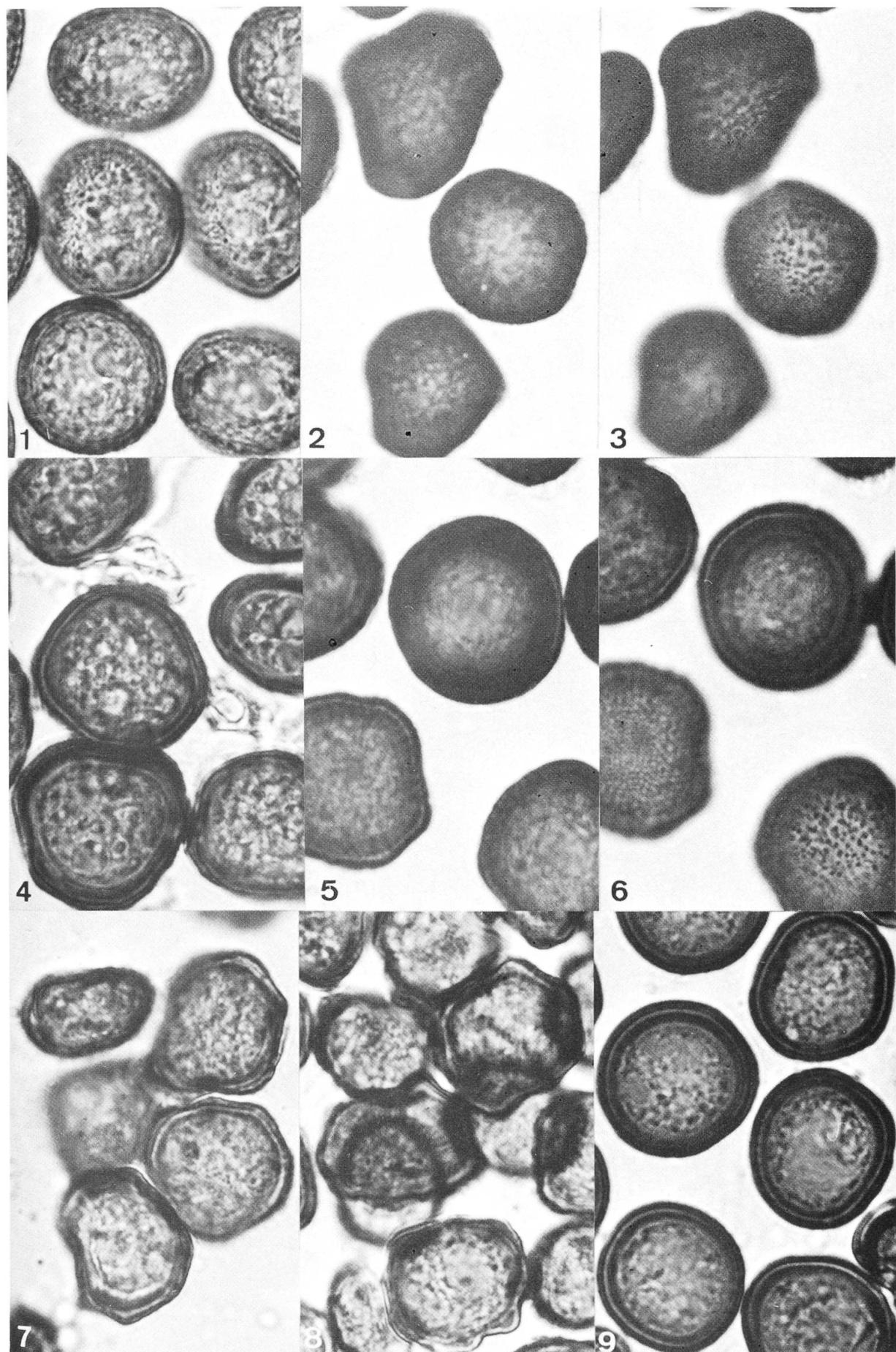
- 1.-2. A. karii, *Carex brunneoscens* (Sp. 1000 × ; Sp. 1000 ×)
- 3.-4. A. lasiocarpae, *Carex lasiocarpa* (Sp. 1000 × ; Sp. 1000 ×)
- 5.-6. A. limosa, *Carex limosa* (Sp. 1000 × ; Sp. 1000 ×)
- 7.-8. A. lindebergiae, *Cobresia bipartita* (Sp. 1000 × ; Sp. 1000 ×)
- 9.-10. A. liroi, *Carex fusca* (Sp. 1000 × ; Sp. 1000 ×)
11. A. michelii, *Carex michelii* (Sp. 1000 ×)



Tafel 6

ANTHRACOIDEA, Cyperaceae

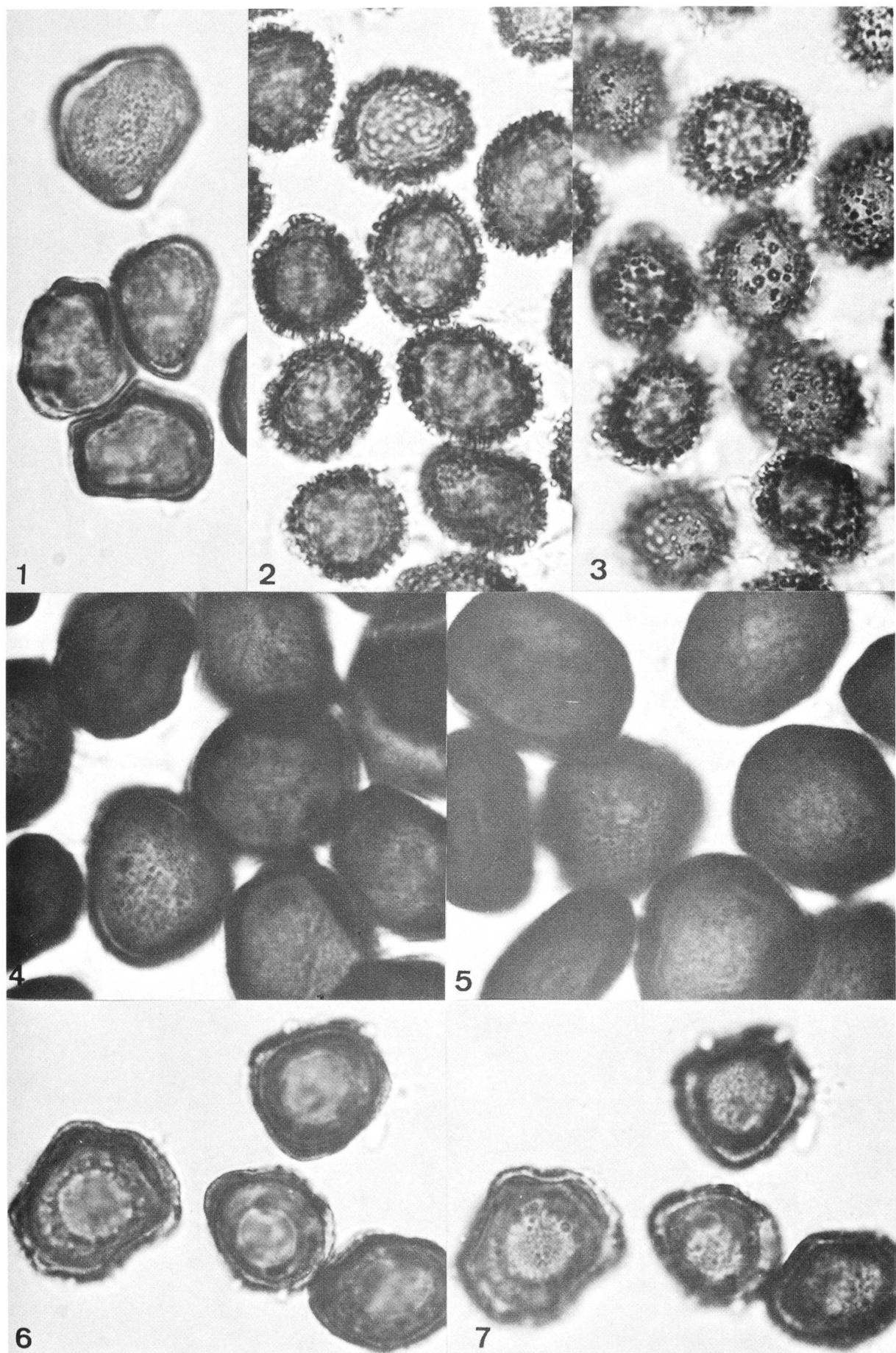
1. A. misandrae, *Carex atrofusca* (Sp. 1000 ×)
- 2.-3. A. paniceae, *Carex panicea* (Sp. 1000 × ; Sp. 1000 ×)
4. A. pilosae, *Carex pilosa* (Sp. 1000 ×)
- 5.-6. A. pratensis, *Carex flacca* (Sp. 1000 × ; Sp. 1000 ×)
7. A. pulicaris, *Carex pulicaris* (Sp. 1000 ×)
8. A. rupestris, *Carex rupestris* (Sp. 1000 ×)
9. A. scirpi, *Trichophorum caespitosum* (Sp. 1000 ×)



Tafel 7

ANTHRACOIDEA, Cyperaceae

1. A. sempervirentis, *Carex sempervirens* (Sp. 1000 ×)
- 2.-3. A. subinclusa, *Carex riparia* (Sp. 1000 × ; Sp. 1000 ×)
4. A. tomentosae, *Carex tomentosa* (Sp. 1000 ×)
5. A. turfosa, *Carex turfosa* (Sp. 1000 ×)
- 6.-7. A. vankyi, *Carex pairaei* (Sp. 1000 × ; Sp. 1000 ×)



Tafel 8

BURRILLIA, CINTRACTIA, ENTORRHIZA

A: BURRILLIA, Alismataceae

- 1.-3. B. echinodori, *Echinodorus cordifolius* (Hab. 0.8 × ; Sp.b. 100 × ;
Sp.b. 500 × [Ausschnitt])
4.-5. B. pustulata, *Sagittaria variabilis* (Sp.b. 100 × ; Sp.b. 500 ×
[Ausschnitt])

BURRILLIA, Scrophulariaceae

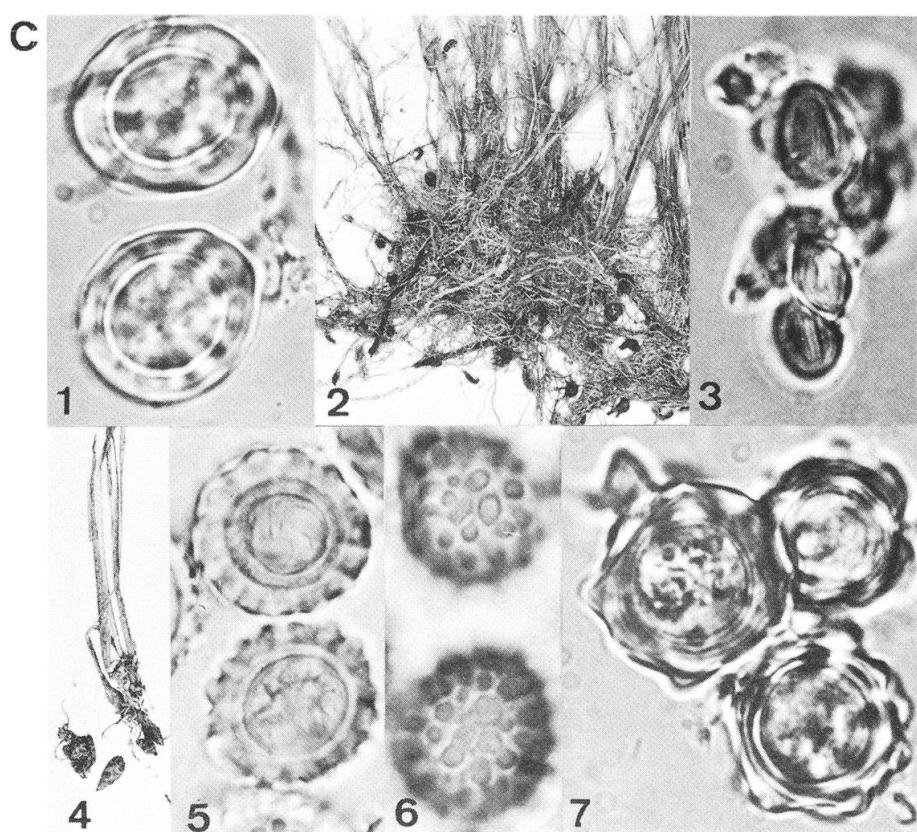
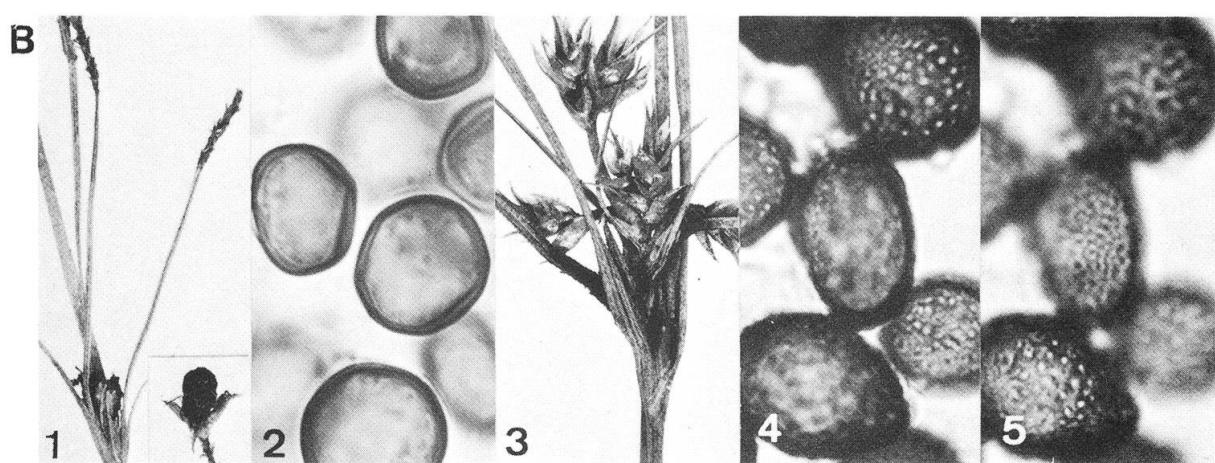
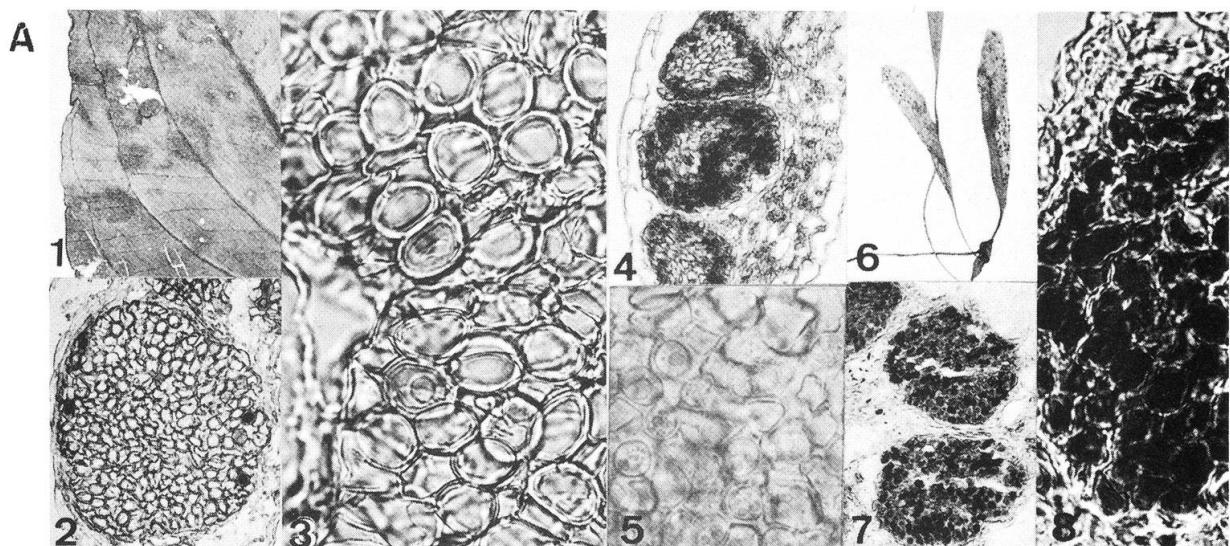
- 6.-8. B. limosellae, *Limosella aquatica* (Hab. 1.2 × ; Sp.b. 100 × ;
Sp.b. 500 × [Ausschnitt])

B: CINTRACTIA, Cyperaceae
CINTRACTIA, Juncaceae

- 1.-2. C. axicola, *Fimbristylis autumnalis* (Hab. 2.7 × ; Sp. 1000 ×)
3.-5. C. junci, *Juncus bufonius* (Hab. 2.3 × ; Sp. 1000 × ; Sp. 1000 ×)

C: ENTORRHIZA, Cyperaceae

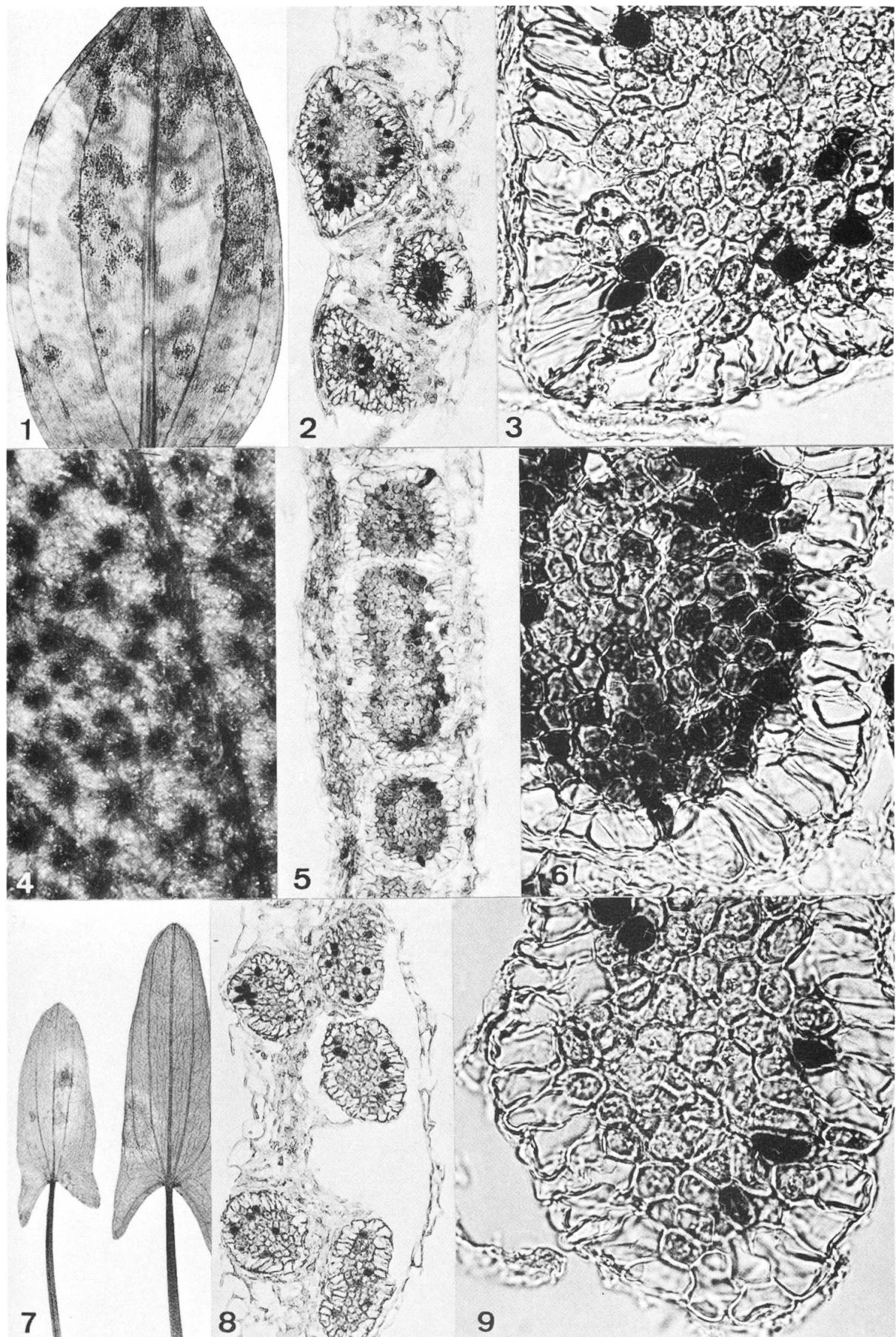
1. E. cypericola, *Cyperus flavescens* (Sp. 1000 ×)
2.-3. E. scirpicola, *Scirpus parvulus* (Hab. 0.7 × ; Sp. 1000 ×)
ENTORRHIZA, Juncaceae
4.-6. E. aschersoniana, *Juncus bufonius* (Hab. 1.0 × ; Sp. 1000 × ; Sp. 1000 ×)
7. E. casparyana, *Juncus alpinus* (Sp. 1000 ×)



Tafel 9

DOASSANSIA, Alismataceae

- 1.-3. D. alismatis, *Alisma plantago-aquatica* (Hab. 1.1× ; Sp.b. 100× ;
Sp.b. 500× [Ausschnitt])
- 4.-6. D. opaca, *Sagittaria latifolia* (Hab. 33× ; Sp.b. 100× ;
Sp.b. 500× [Ausschnitt])
- 7.-9. D. sagittariae, *Sagittaria sagittifolia* (Hab. 1.1× ; Sp.b. 100× ;
Sp.b. 500× [Ausschnitt])



Tafel 10

DOASSANSIA, Butomaceae

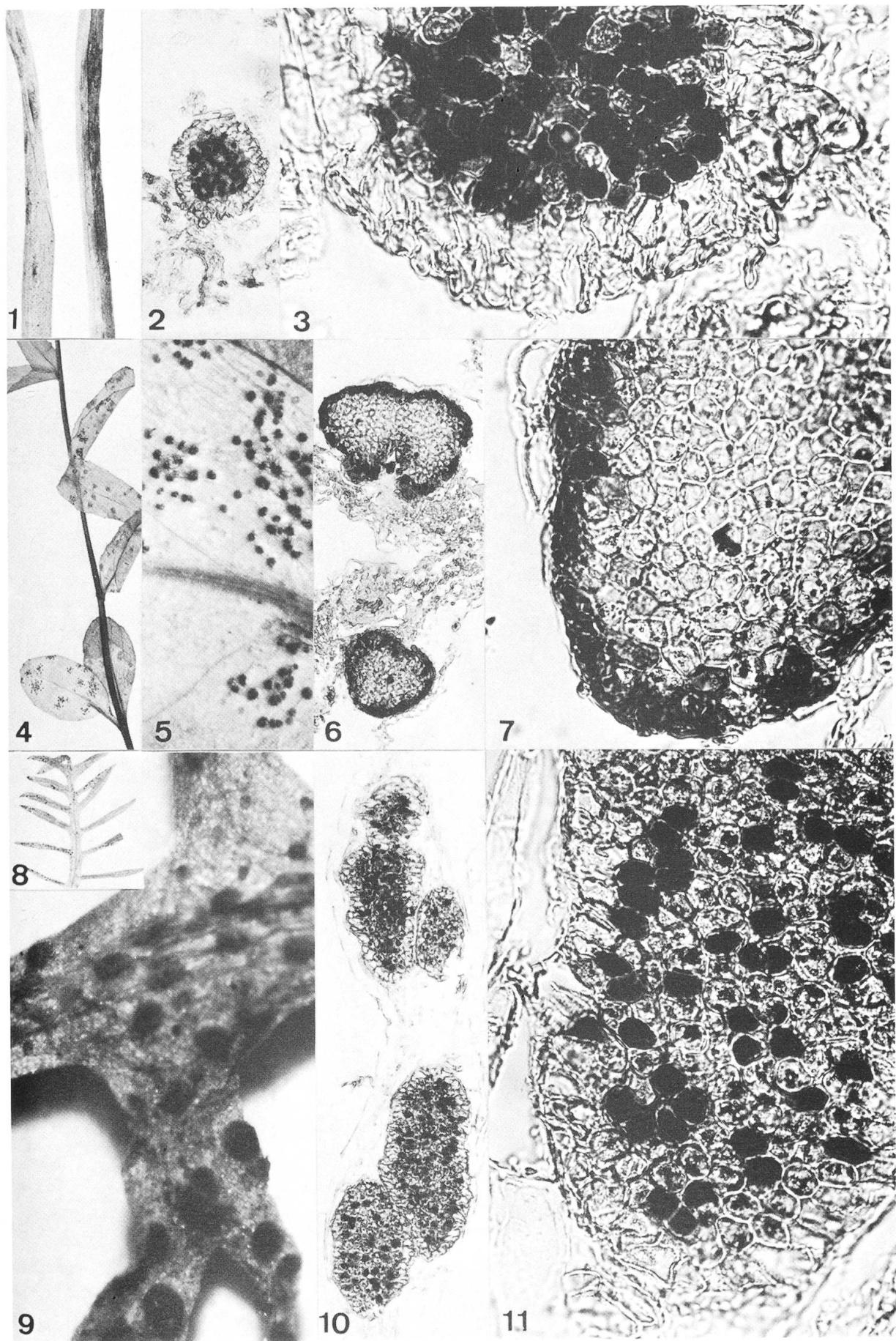
- 1.-3. D. punctiformis, *Butomus umbellatus* (Hab. 1.0× ; Sp.b. 100× ;
Sp.b. 500× [Ausschnitt])

DOASSANSIA, Oenotheraceae

- 4.-7. D. epilobii, *Epilobium oregonense* (Hab. 1.0× ; Hab. 8.0× ; Sp.b. 100× ;
Sp.b. 500× [Ausschnitt])

DOASSANSIA, Primulaceae

- 8.-11. D. hottoniae, *Hottonia palustris* (Hab. 1.1× ; Hab. 33× ; Sp.b. 100× ;
Sp.b. 500× [Ausschnitt])



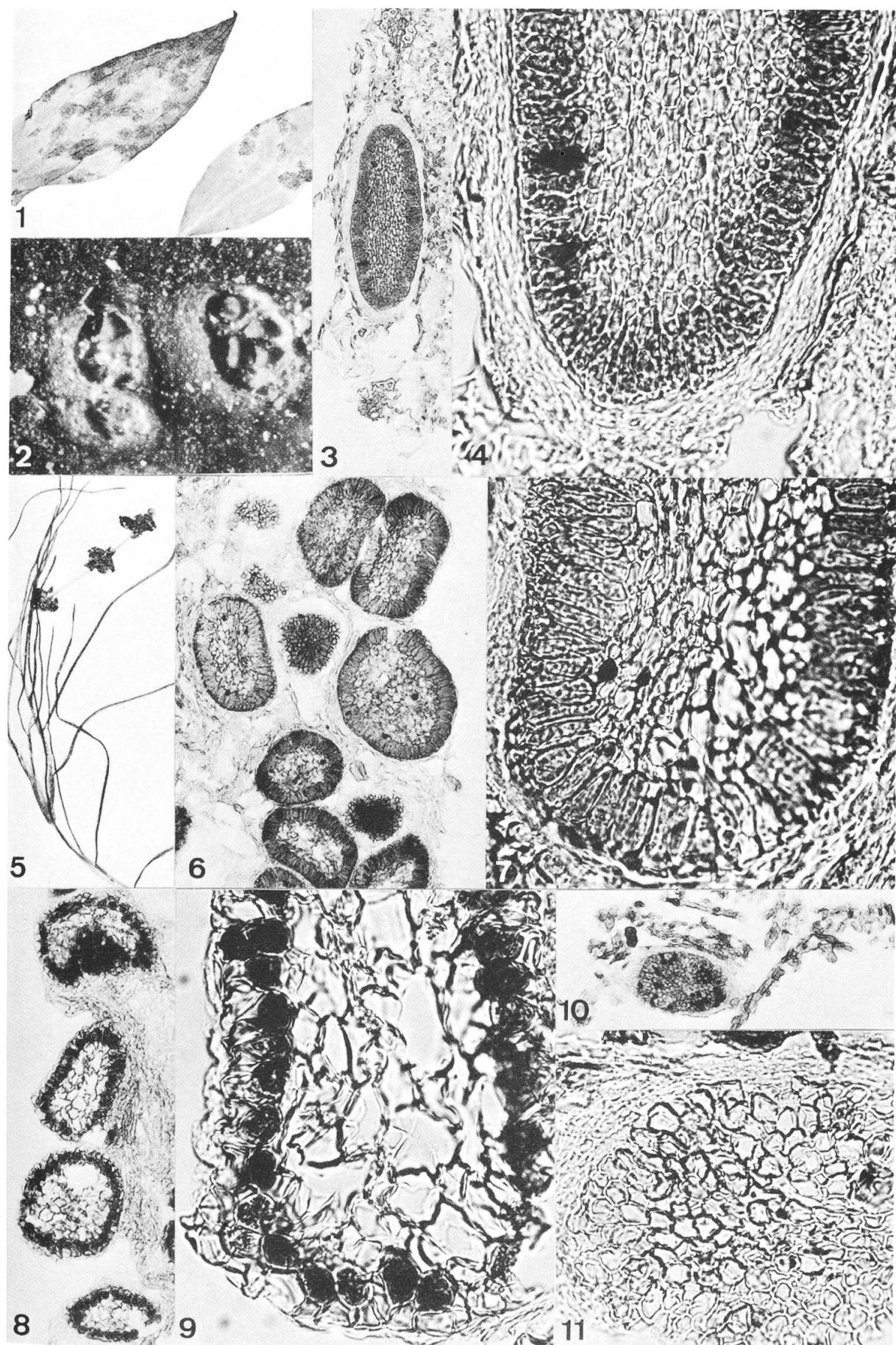
Tafel 11

DOASSANSIOPSIS, Potamogetonaceae

- 1.-4. D. *hydropila*, *Potamogeton natans* (Hab. 1.1× ; Hab. 18× ; Sp.b. 100× ;
Sp.b. 500× [Ausschnitt])
5.-7. D. *occulta*, *Potamogeton perfoliatum* (Hab. 1.1× ; Sp.b. 100× ;
Sp.b. 500× [Ausschnitt])

DOASSANSIOPSIS, Alismataceae

- 8.-9. D. *deformans*, *Sagittaria variabilis* (Sp.b. 100× ; Sp.b. 500×
[Ausschnitt])
10.-11. D. *intermedia*, *Sagittaria variabilis* (Sp.b. 100× ; Sp.b. 500×
[Ausschnitt])



Tafel 12

ENTYLOMA, Gramineae

1. E. brefeldi, *Holcus mollis* (Sp. 1000 ×)
- 2.-3. E. dacylidis, *Alopecurus pratensis* (Hab. 1.2 × ; Sp. 1000 ×)

ENTYLOMA, Nymphaeaceae

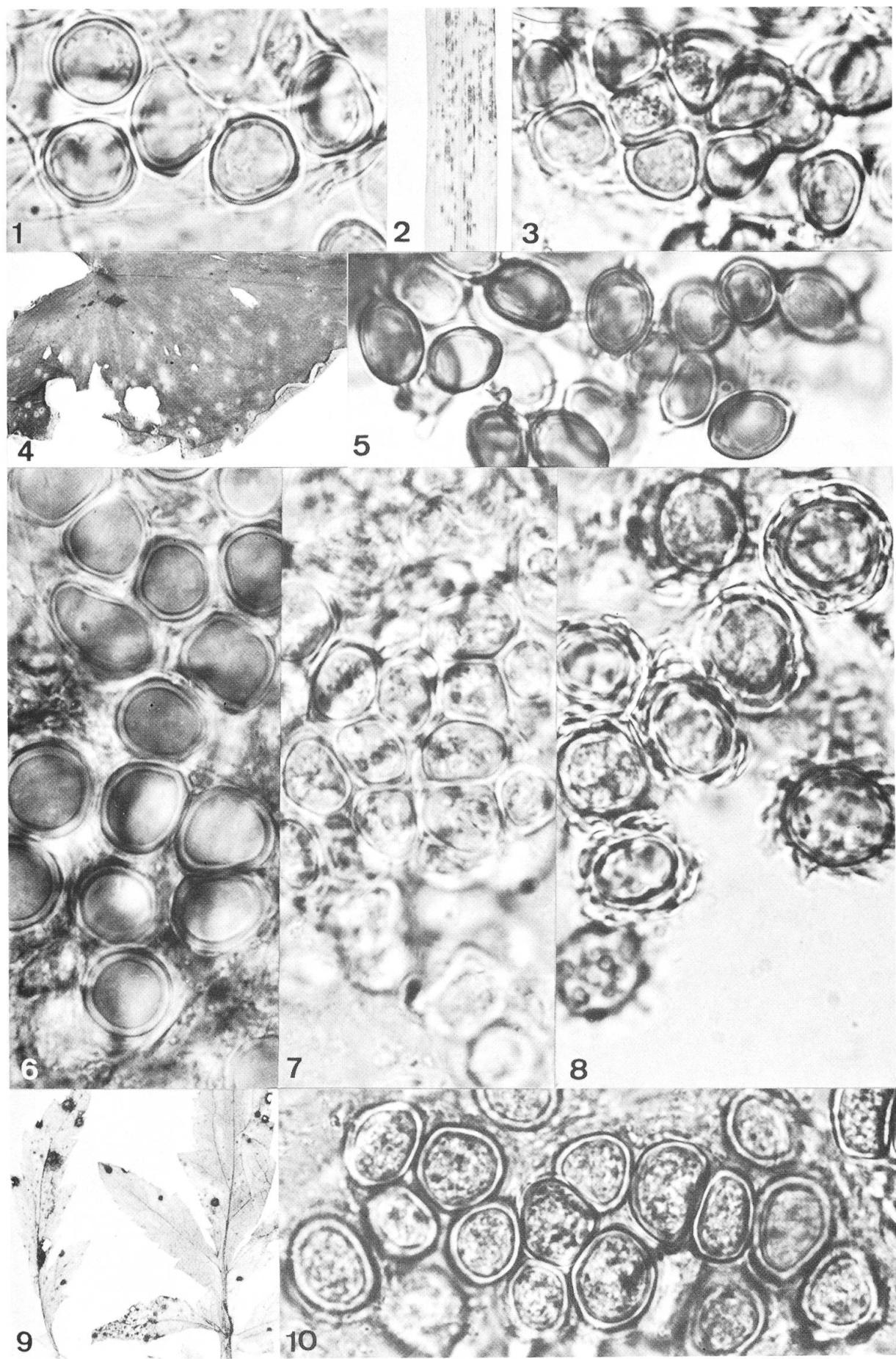
- 4.-5. E. nymphaeae, *Nymphaea alba* (Hab. 0.4 × ; Sp. 1000 ×)

ENTYLOMA, Ranunculaceae

6. E. ficariae, *Ranunculus ficaria* (Sp. 1000 ×)
7. E. microsporum, *Ranunculus repens* (Sp. 1000 ×)
8. E. verruculosum, *Ranunculus velutinus* (Sp. 1000 ×)

ENTYLOMA, Papaveraceae

- 9.-10. E. fuscum, *Papaver rhoeas* (Hab. 0.5 × ; Sp. 1000 ×)



Tafel 13

ENTYLOMA, Fumariaceae

1. E. corydalis, *Corydalis cava* (Sp. 1000 ×)
2. E. fumariae, *Fumaria agraria* (Sp. 1000 ×)
- 3.-4. E. urocystoides, *Corydalis cava* (Hab. 1.1 × ; Sp. 1000 ×)

ENTYLOMA, Saxifragaceae

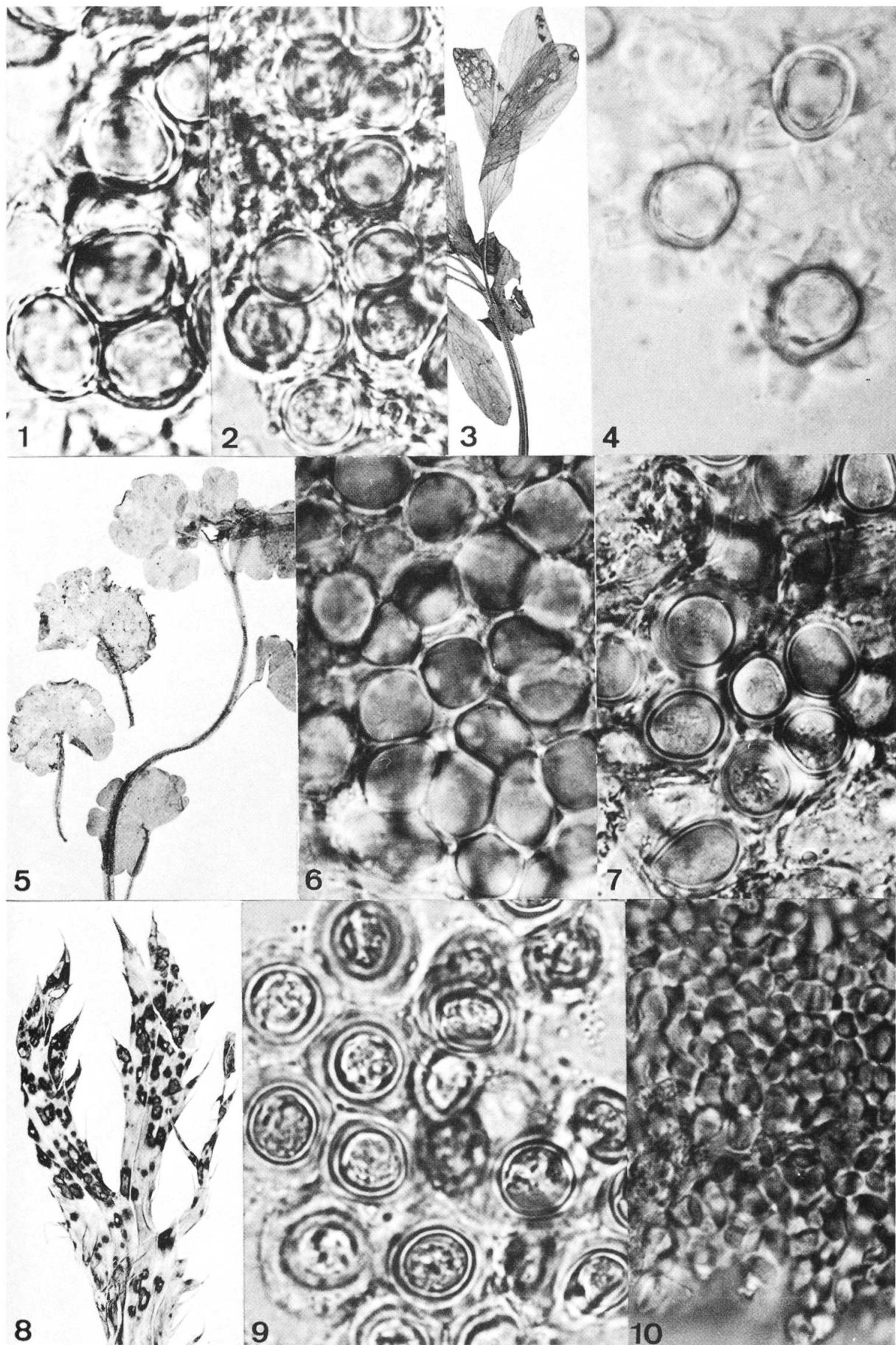
- 5.-6. E. chrysosplenii, *Chrysosplenium alternifolium* (Hab. 1.1 × ; Sp. 1000 ×)

ENTYLOMA, Linaceae

7. E. terrieri, *Radiola linoides* (Sp. 1000 ×)

ENTYLOMA, Umbelliferae

8. E. eryngii, *Eryngium alpinum* (Hab. 1.1 ×)
9. E. eryngii, *Eryngium campestre* (Sp. 1000 ×)
10. E. helosciadii, *Apium nodiflorum* (Sp. 1000 ×)



Tafel 14

ENTYLOMA, Primulaceae

1. E. henningsianum, *Samolus valerandi* (Sp. 1000 ×)

ENTYLOMA, Boraginaceae

2. E. fergussonii, *Myosotis stricta* (Hab. 0.9 ×)
3. E. fergussonii, *Myosotis silvatica* (Sp. 1000 ×)
4. E. fergussonii, *Symphytum officinale* (Sp. 1000 ×)

ENTYLOMA, Solanaceae

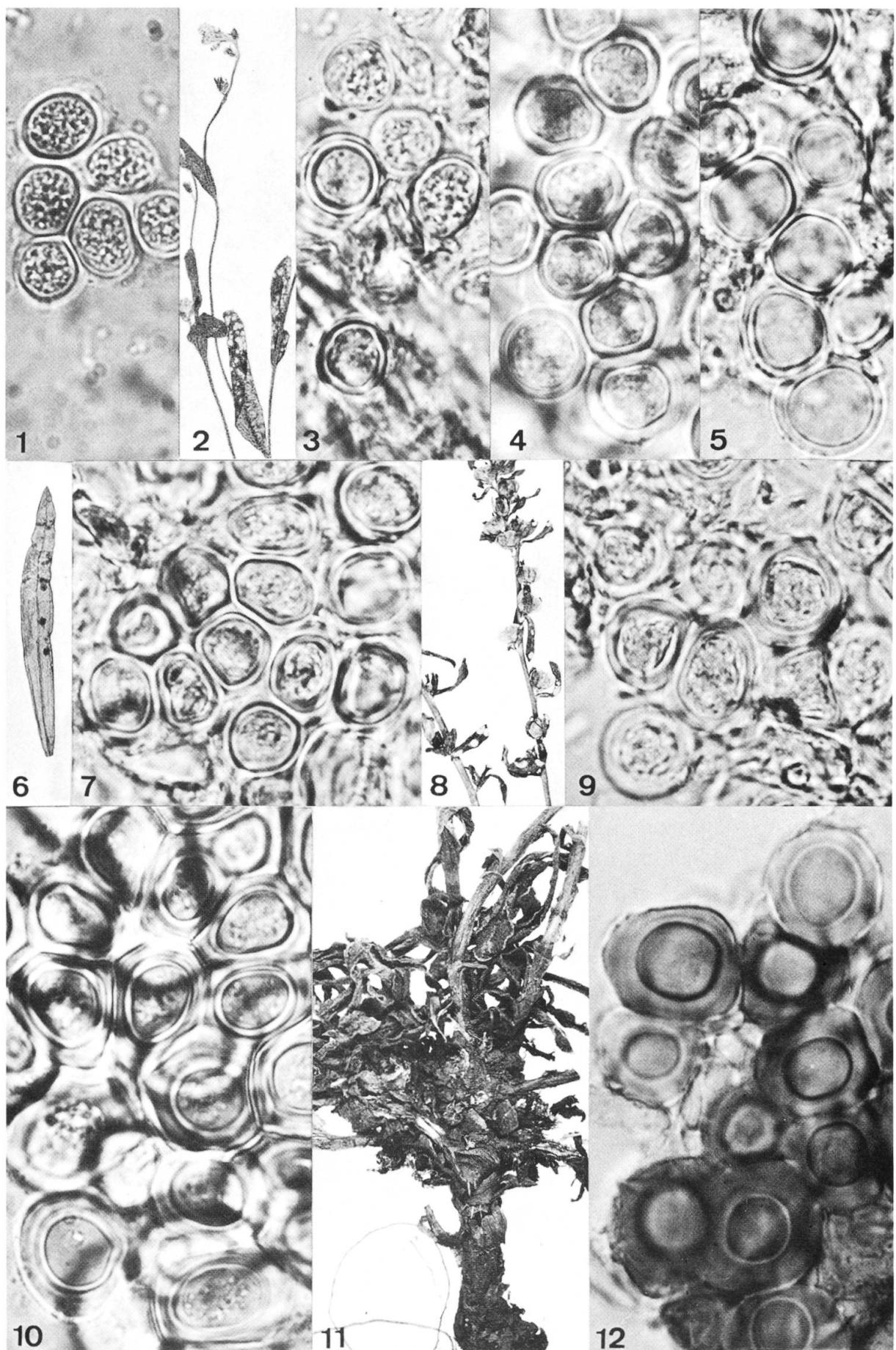
5. E. australe, *Physalis subglabrata* (Sp. 1000 ×)

ENTYLOMA, Scrophulariaceae

- 6.-7. E. linariae, *Linaria vulgaris* (Hab. 0.9 × ; Sp. 1000 ×)
- 8.-9. E. veronicae, *Veronica anagallis-aquatica* (Hab. 0.8 × ; Sp. 1000 ×)

ENTYLOMA, Compositae, Stengel- und Wurzelgallen

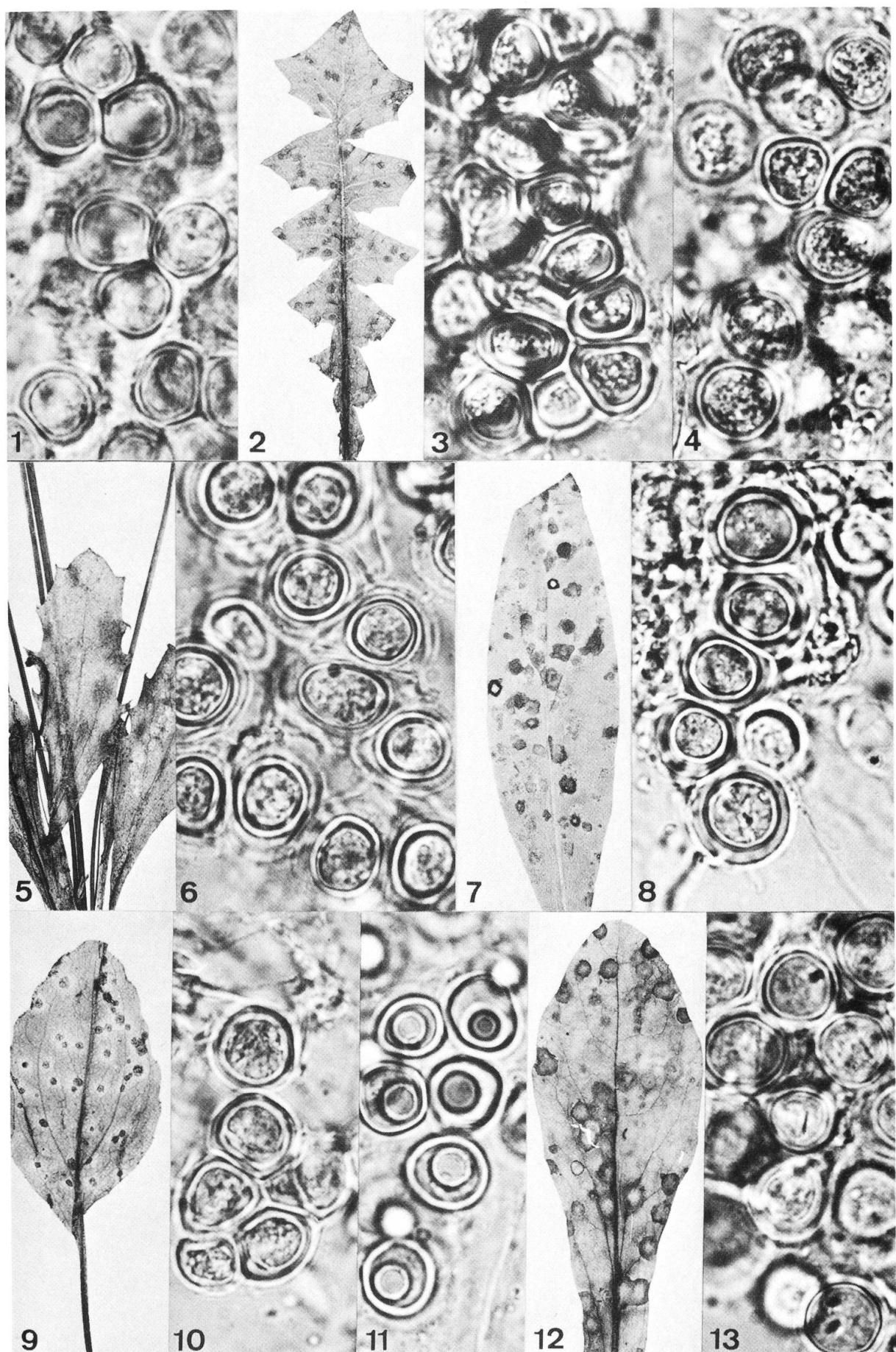
10. E. magnusii, *Gnaphalium uliginosum* (Sp. 1000 ×)
- 11.-12. E. aschersonii, *Helichrysum arenarium* (Hab. 0.9 × ; Sp. 1000 ×)



Tafel 15

ENTYLOMA, Compositae, Blattflecken

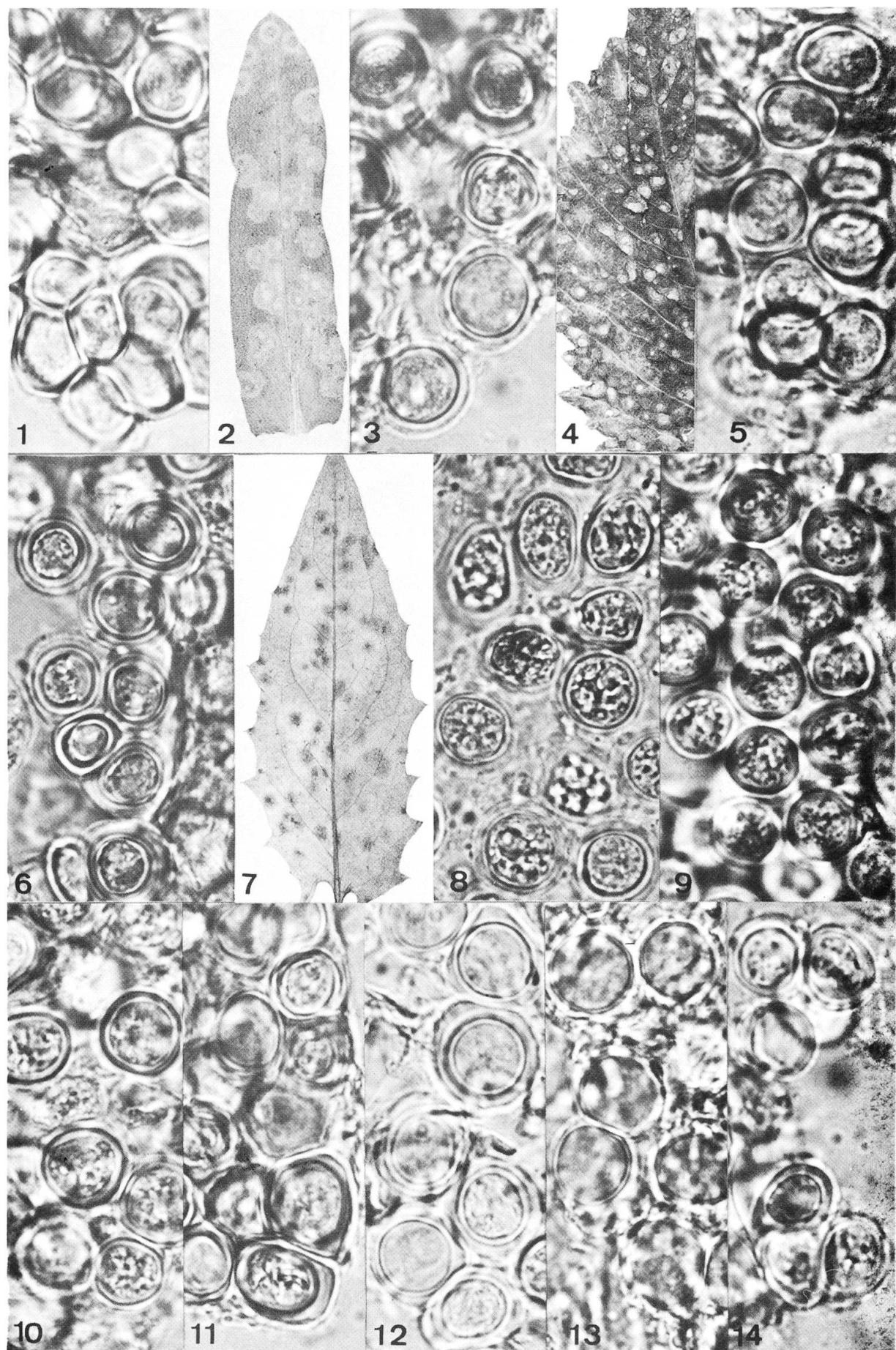
1. E. achilleae, *Achillea millefolium* (Sp. 1000 ×)
- 2.-3. E. aposeridis, *Aposeris foetida* (Hab. 0.5 × ; Sp. 1000 ×)
4. E. arnicale, *Arnica montana* (Sp. 1000 ×)
- 5.-6. E. arnoseridis, *Arnoseris minima* (Hab. 0.8 × ; Sp. 1000 ×)
7. E. asteris-alpini, *Aster adscendens* (Hab. 0.7 ×)
8. E. asteris-alpini, *Aster alpinus* (Sp. 1000 ×)
- 9.-10. E. bellidiastri, *Bellidiastrum michelii* (Hab. 0.7 × ; Sp. 1000 ×)
11. E. bellidis, *Bellis perennis* (Sp. 1000 ×)
- 12.-13. E. calendulae, *Calendula officinalis* (Hab. 0.5 × ; Sp. 1000 ×)



Tafel 16

ENTYLOMA, Compositae, Blattflecken

1. E. cichorii, *Cichorium intybus* (Sp. 1000 ×)
2. E. compositarum, *Gaillardia grandiflora* cult. (Hab. 0.8 ×)
3. E. compositarum, *Gaillardia lanceolata* (Sp. 1000 ×)
- 4.-5. E. dahliae, *Dahlia pinnata* cult. (Hab. 0.6 × ; Sp. 1000 ×)
6. E. erigerontis, *Erigeron uniflorus* (Sp. 1000 ×)
- 7.-8. E. hieracii, *Hieracium murorum* (Hab. 0.6 × ; Sp. 1000 ×)
9. E. leontodontis, *Leontodon hastatilis* (Sp. 1000 ×)
10. E. matricariae, *Tripleurospermum inodorum* (Sp. 1000 ×)
11. E. picridis, *Picris hieracioides* (Sp. 1000 ×)
12. E. scalianum, *Chrysanthemum coronarium* (Sp. 1000 ×)
13. E. tanaceti, *Chrysanthemum vulgare* (Sp. 1000 ×)
14. E. tragopogi, *Tragopogon pratensis* (Sp. 1000 ×)



Tafel 17

FARYSIA, GLOMOSPORIUM, MELANOPSICHIUM

A: FARYSIA, Cyperaceae

- 1.-3. F. thuemenii, *Carex riparia* (Hab. 1.0 × ; Sp. 1000 × ; Sporenreihen mit sterilen Hyphenbündeln 1000 ×)

B: GLOMOSPORIUM, Chenopodiaceae

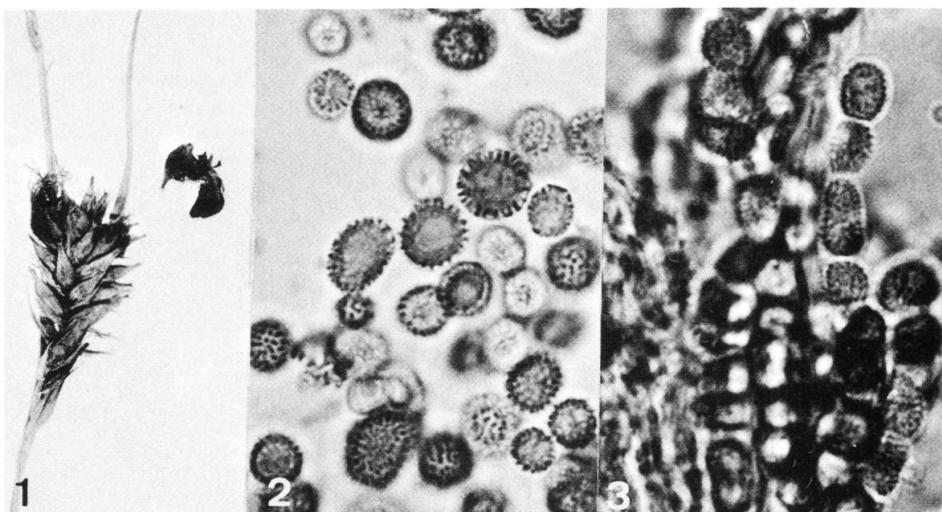
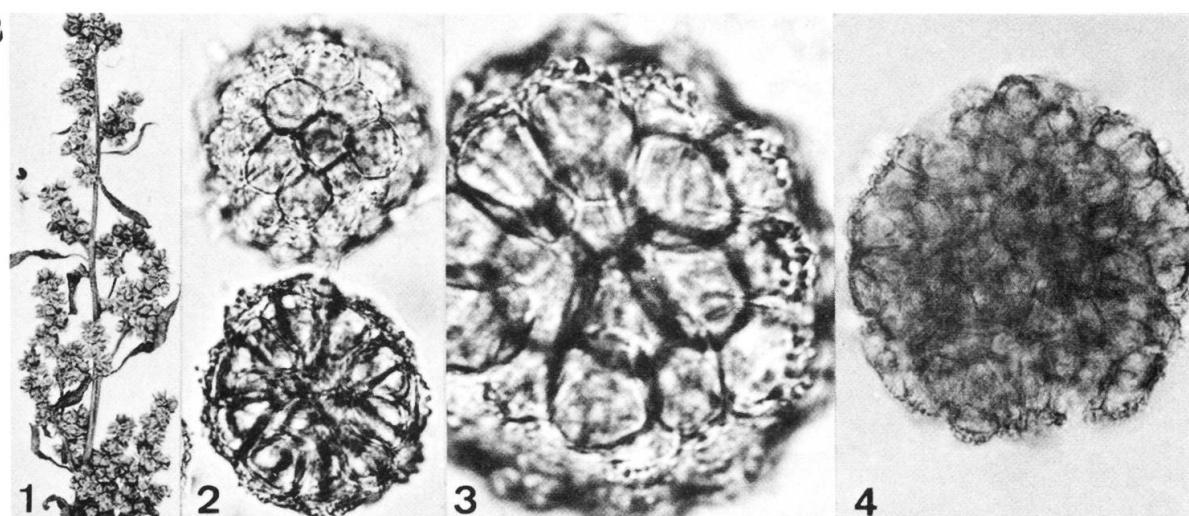
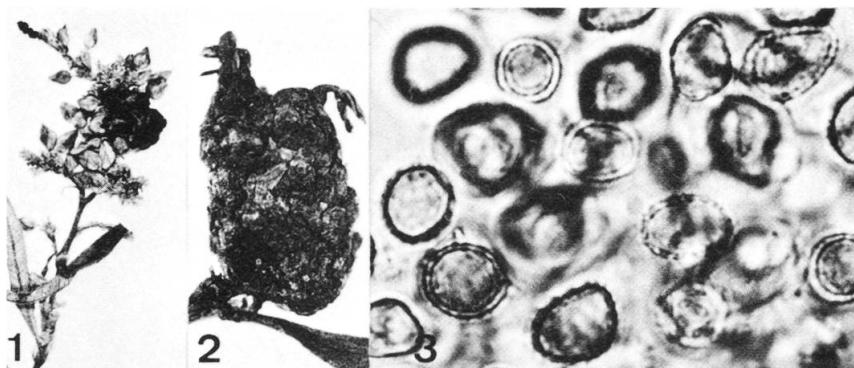
- 1.-3. G. leptideum, *Chenopodium album* (Hab. 1.0 × ; Sp.b. 500 × ; Sp.b. 1000 ×)

GLOMOSPORIUM, Amaranthaceae

4. G. amanthi, *Amaranthus retroflexus* (Sp.b. 400 ×)

C: MELANOPSICHIUM, Polygonaceae

- 1.-3. M. pennsylvanicum, *Polygonum lapathifolium* (Hab. 0.9 × ; Hab. 2.7 × ; Sp. 1000 ×)

A**B****C**

Tafel 18

MELANOTAENIUM, MOESZIOMYCES

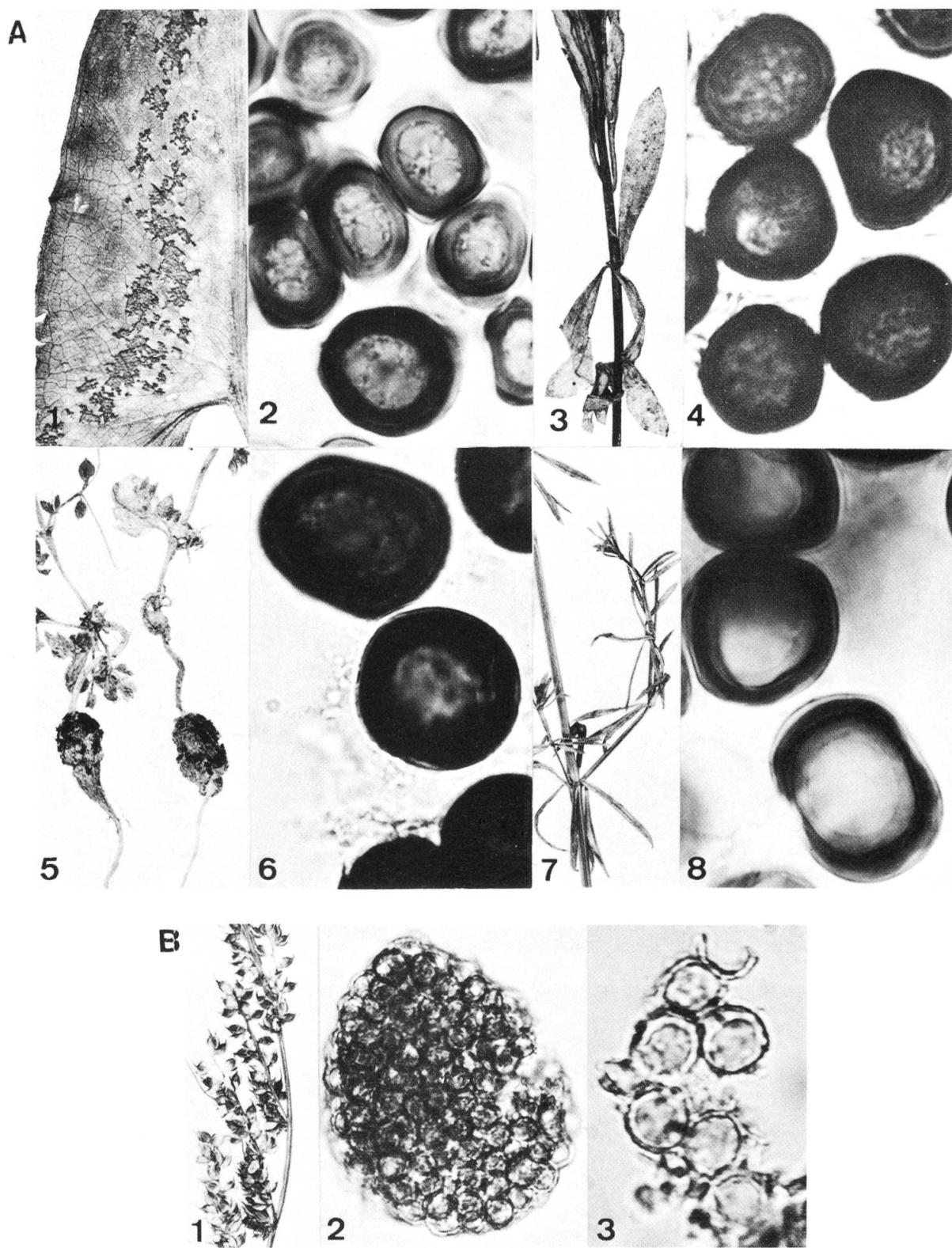
A: MELANOTAENIUM, Araceae1.-2. M. ari, *Arum maculatum* (Hab. 0.8 ×; Sp. 1000 ×)

MELANOTAENIUM, Scrophulariaceae

3.-4. M. cingens, *Linaria vulgaris* (Hab. 1.1 × ; Sp. 1000 ×)5.-6. M. hypogaeum, *Linaria spuria* (Hab. 1.1 × ; Sp. 1000 ×)

MELANOTAENIUM, Rubiaceae

7.-8. M. endogenum, *Galium mollugo* (Hab. 1.1 × ; Sp. 1000 ×)**B:** MOESZIOMYCES, Gramineae1.-3. M. bullatus, *Echinochloa crus-galli* (Hab. 0.9 × ; Sp.b. 500 × ;
Sporengruppe 1000 ×)



Tafel 19

NANNFELDTIOMYCES, NEOVOSSIA, ORPHANOMYCES, PSEUDODOASSANSIA

A: NANNFELDTIOMYCES, Sparganiaceae

- 1.-3. N. sparganii, *Sparganium ramosum* (Hab. 2.0 × ; Sp.b. 100 ×
[Phot. K. Vánky]; Sp. 1000 × [Phot. K. Vánky])

B: NEOVOSSIA, Gramineae

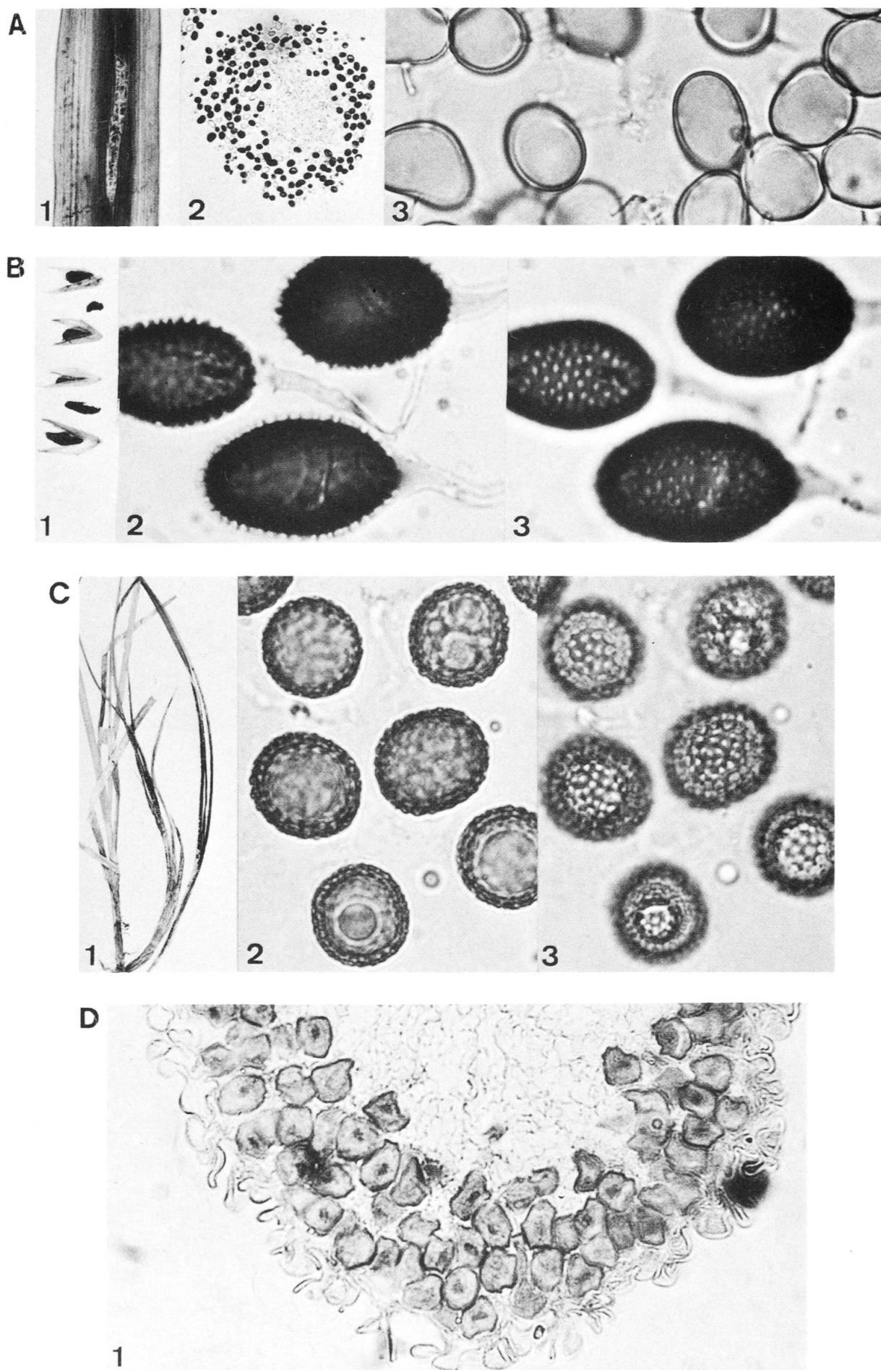
- 1.-3. N. moliniae, *Molinia coerulea* (Hab. 1.8 × ; Sp. 1000 × ; Sp. 1000 ×)

C: ORPHANOMYCES, Cyperaceae

- 1.-3. O. arcticus, *Carex brunneoscens* (Hab. 0.5 × ; Sp. 1000 × ; Sp. 1000 ×)

D: PSEUDODOASSANSIA, Alismataceae

1. P. obscura, *Sagittaria latifolia* (Sp.b. [Ausschnitt] 700 ×
[Phot. K. Vánky])



Tafel 20

SCHIZONELLA, SCHROETERIA, SOROSPORIUM

A: SCHIZONELLA, Cyperaceae

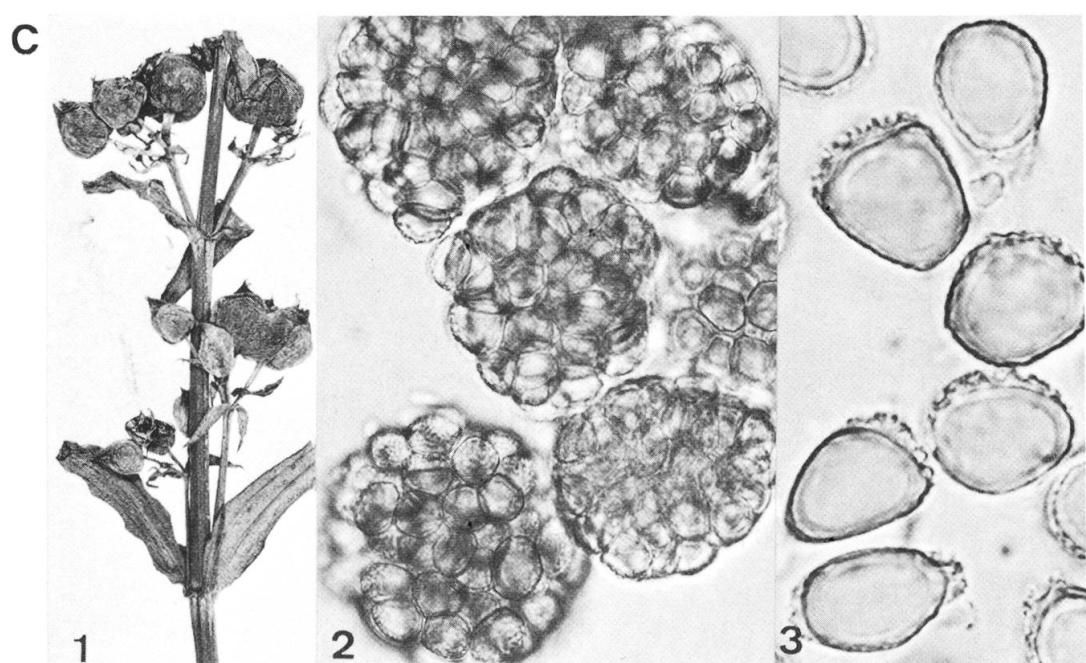
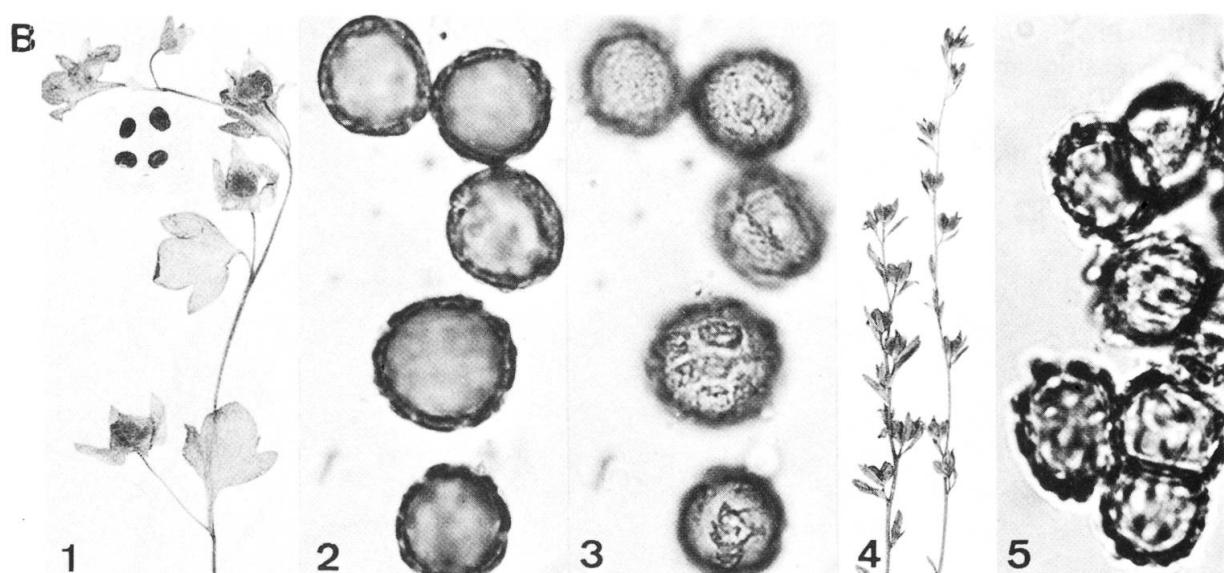
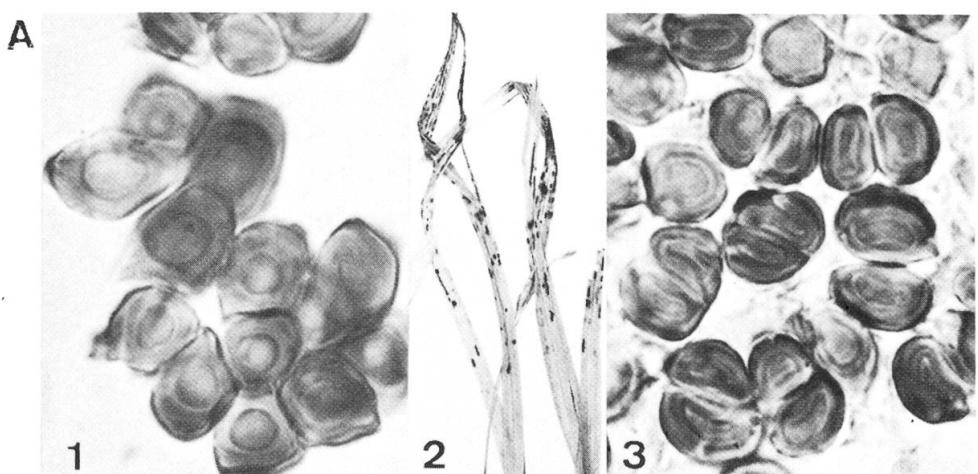
1. S. cocconi, *Carex halleriana* (Sp. 1000 ×)
- 2.-3. S. melanogramma, *Carex digitata* (Hab. 0.6 × ; Sp. 1000 ×)

B: SCHROETERIA, Scrophulariaceae

- 1.-3. S. decaisneana, *Veronica hederifolia* (Hab. 1.1 × ; Sp. 1000 × ; Sp. 1000 ×)
- 4.-5. S. delastrina, *Veronica arvensis* (Hab. 0.7 × ; Sp. 1000 ×)

C: SOROSPORIUM, Caryophyllaceae

- 1.-3. S. saponariae, *Saponaria ocymoides* (Hab. 1.0 × ; Sp.b. 400 × , Einzel-sporen 1000 ×)



Tafel 21

THECAPHORA, Leguminosae

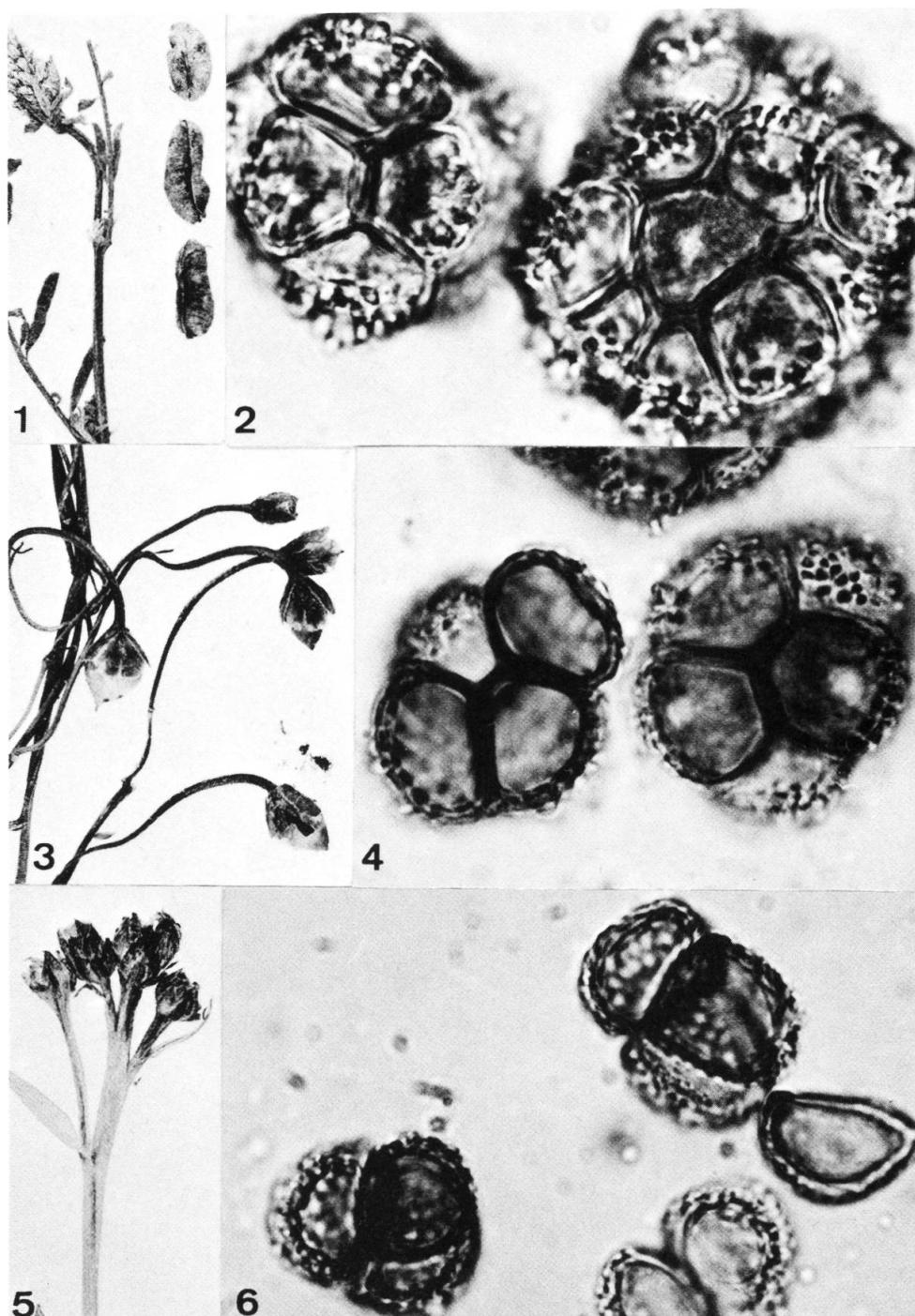
1.-2. T. deformans, *Astragalus glycyphyllos* (Hab. 1.0 × ; Sp.b. 1000 ×)

THECAPHORA, Convolvulaceae

3.-4. T. seminis-convolvuli, *Convolvulus arvensis* (Hab. 1.1 × ; Sp.b. 1000 ×)

THECAPHORA, Compositae

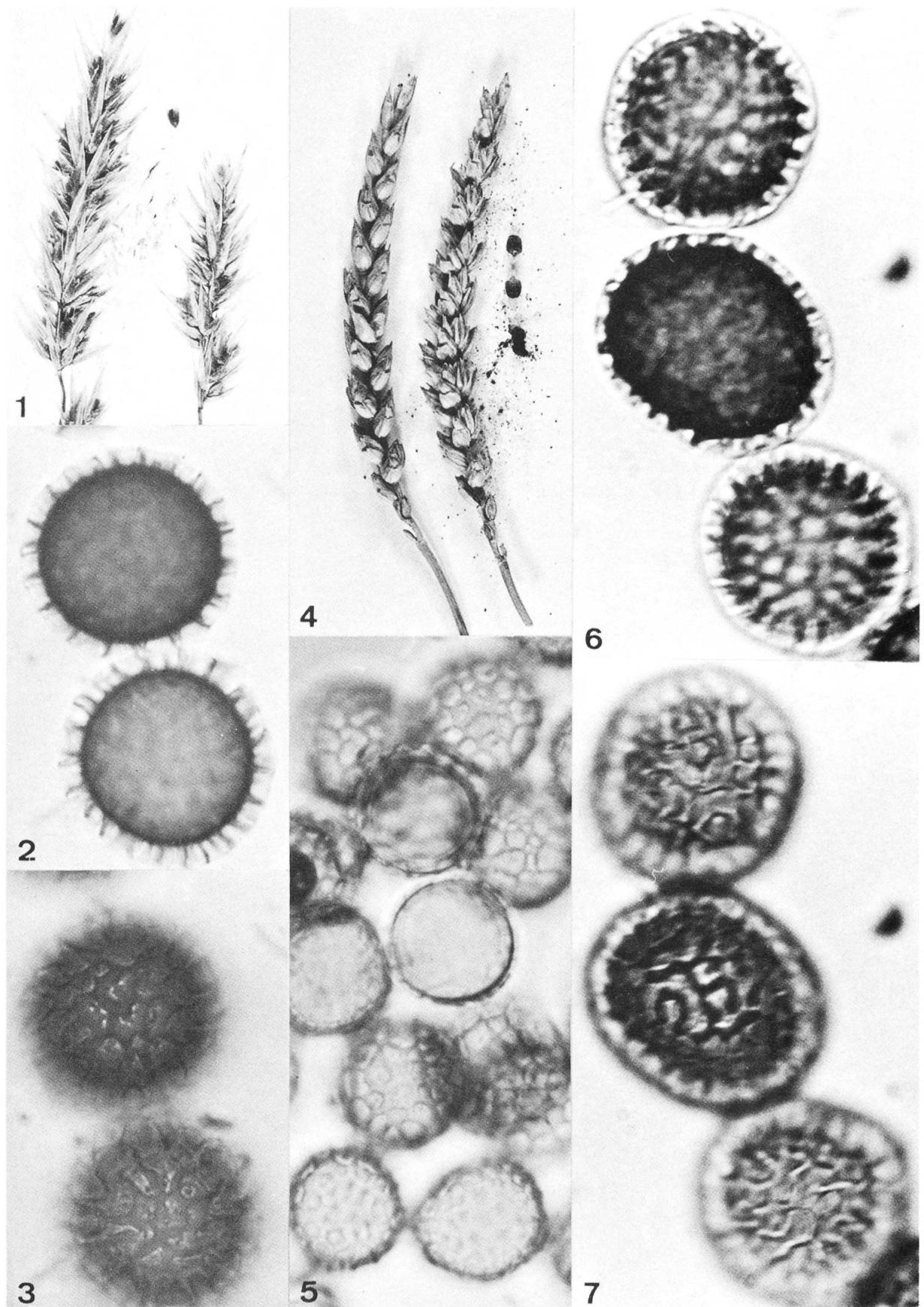
5.-6. T. trailii, *Saussurea alpina* (Hab. 1.0 × ; Sp.b. 1000 ×)



Tafel 22

TILLETTIA, Gramineae, Ovarien

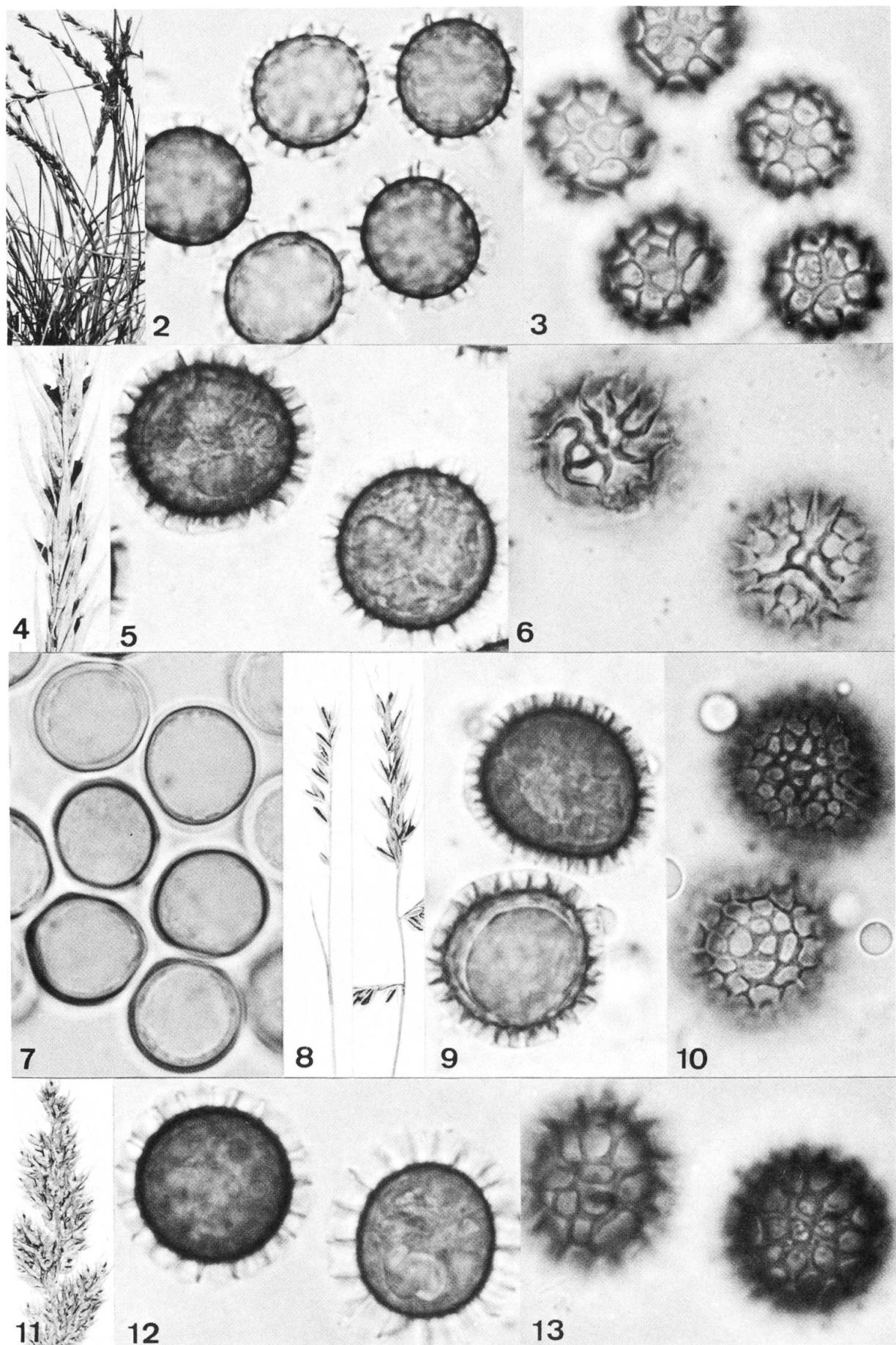
- 1.-3. T. anthoxanthi, *Anthoxanthum odoratum* (Hab. 1.0 × ; Sp. 1000 × ; Sp. 1000 ×)
- 4.-5. T. caries, *Triticum vulgare* (Hab. 0.6; Sp. 1000 ×)
- 6.-7. T. cerebrina, *Deschampsia caespitosa* (Sp. 1000 × ; Sp. 1000 ×)



Tafel 23

TILLETTIA, Gramineae, Ovarien

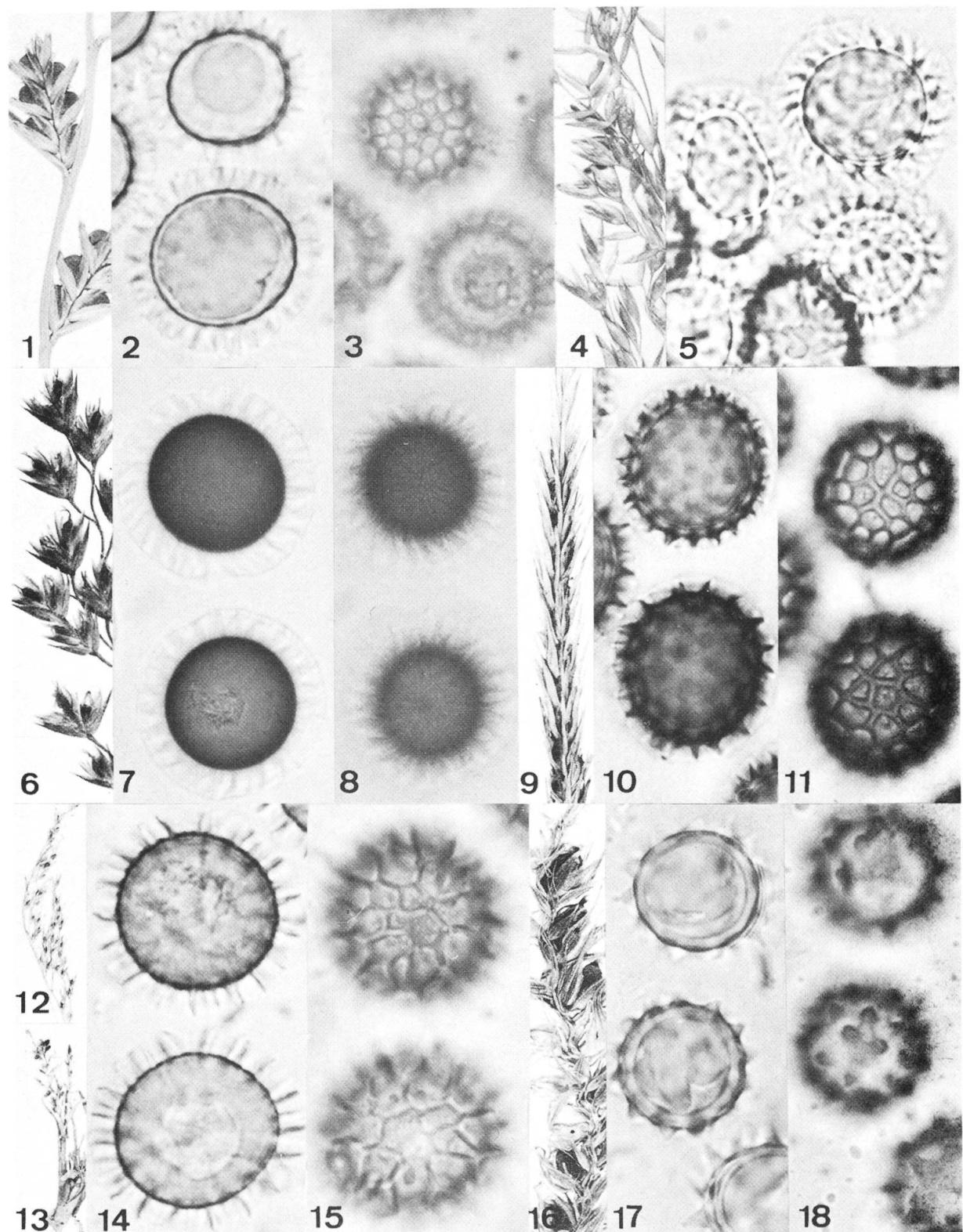
- 1.-3. T. controversa, *Agropyron intermedium* (Hab. 0.4 × ; Sp. 1000 × ;
Sp. 1000 ×)
- 4.-6. T. elymi, *Elymus glaucus* (Hab. 1.5 × ; Sp. 1000 × ; Sp. 1000 ×)
- 7. T. foetida, *Triticum vulgare* (Sp. 1000 ×)
- 8.-10. T. fusca, *Festuca* sp. (Hab. 0.9 × ; Sp. 1000 × ; Sp. 1000 ×)
- 11.-13. T. holci, *Holcus mollis* (Hab. 0.9 × ; Sp. 1000 × ; Sp. 1000 ×)



Tafel 24

TILLETIA, Gramineae, Ovarien

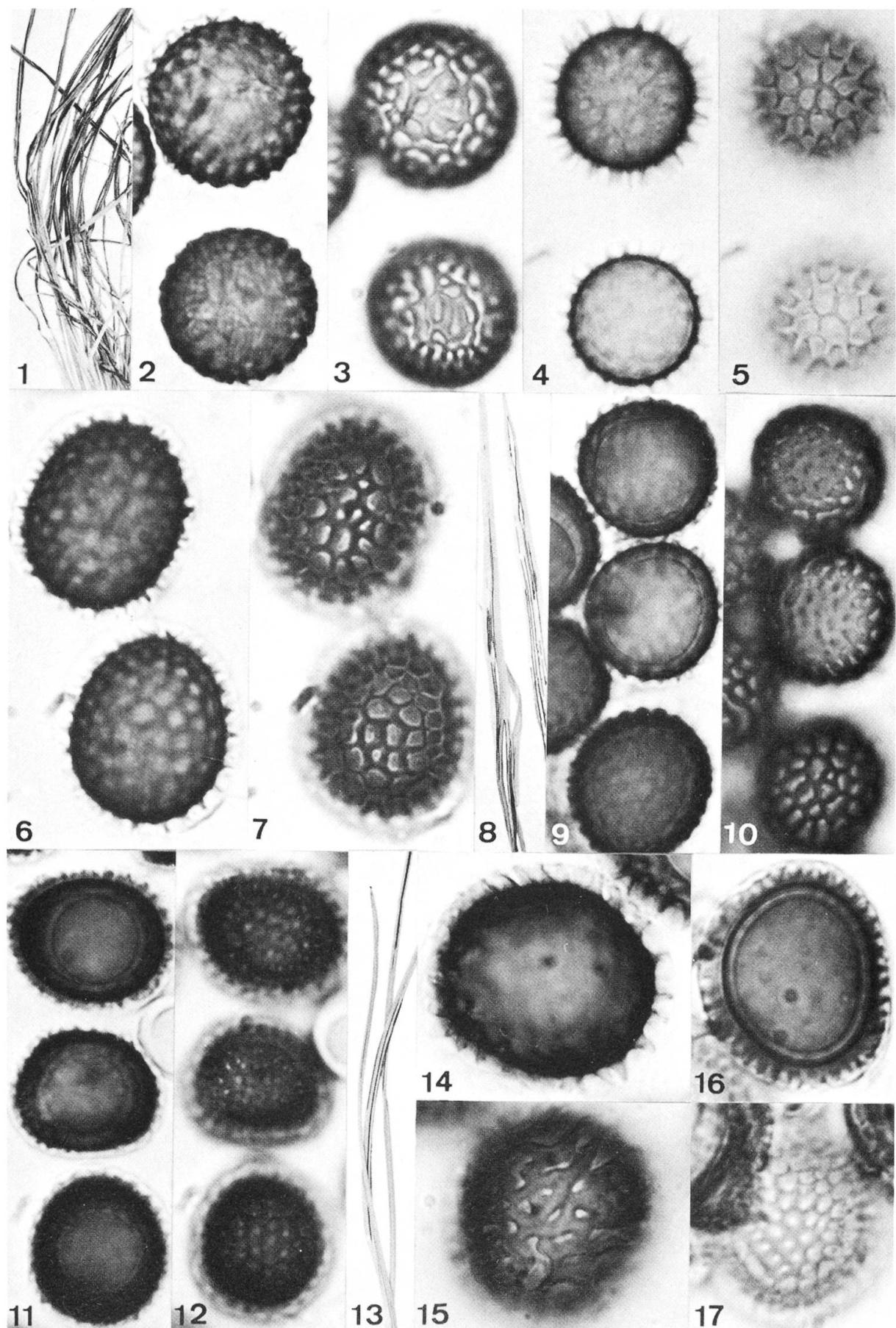
- 1.-3. T. lolii, *Lolium linicolum* (Hab. 1.7 × ; Sp. 1000 × ; Sp. 1000 ×)
- 4.-5. T. pallida, *Agrostis palustris* (Hab. 2.7 × ; Sp. 1000 ×)
- 6.-8. T. sabaudiae, *Poa nemoralis* (Hab. 2.3 × ; Sp. 500 × ; Sp. 500 ×)
- 9.-11. T. secalis, *Secale cereale* (Hab. 0.6 × ; Sp. 1000 × ; Sp. 1000 ×)
- 12. T. sphaerococca, *Agrostis spica-venti* (Hab. 0.9 ×)
- 13. T. sphaerococca, *Agrostis tenuis* (Hab. 1.1 ×)
- 14.-15. T. sphaerococca, *Agrostis schraderiana* (Sp. 1000 × ; Sp. 1000 ×)
- 16.-18. T. texana, *Hordeum nodosum* (Hab. 1.8 × ; Sp. 1000 × ; Sp. 1000 ×)



Tafel 25

TILLETIA, Gramineae, Blattstreifen

- 1.-3. T. bolayi, *Bromus erectus* (Hab. 0.8 × ; Sp. 1000 × ; Sp. 1000 ×)
- 4.-5. T. brachypodii-ramosi, *Brachypodium ramosum* (Sp. 1000 × ; Sp. 1000 ×)
- 6.-7. T. flectens, *Deschampsia flexuosa* (Sp. 1000 × ; Sp. 1000 ×)
- 8.-10. T. olida, *Brachypodium pinnatum* (Hab. 0.6 × ; Sp. 1000 × ; Sp. 1000 ×)
- 11.-12. T. scrobiculata, *Poa secunda* (Sp. 1000 × ; Sp. 1000 ×)
- 13.-15. T. sesleriae, *Sesleria coerulea* (Hab. 0.9 × ; Sp. 1000 × ; Sp. 1000 ×)
- 16.-17. T. sterilis, *Koeleria cristata* (Sp. 1000 × ; Sp. 1000 ×)



Tafel 26

TOLYPOSPORIUM, TRACYA

A: TOLYPOSPORIUM, Cyperaceae

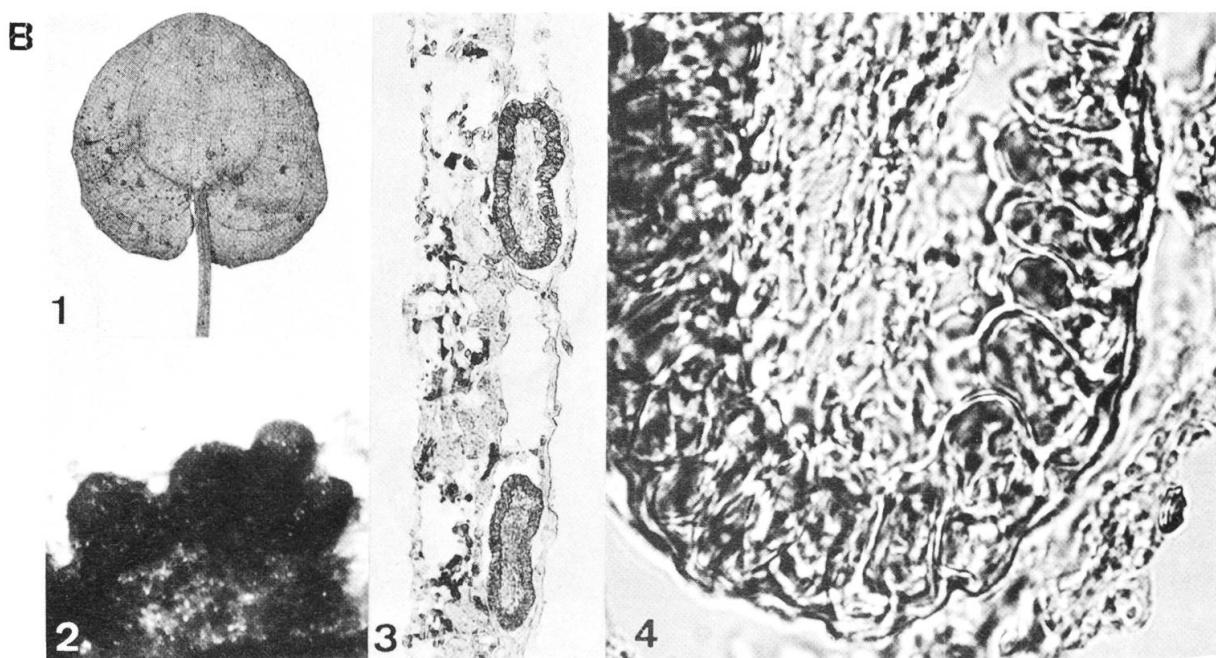
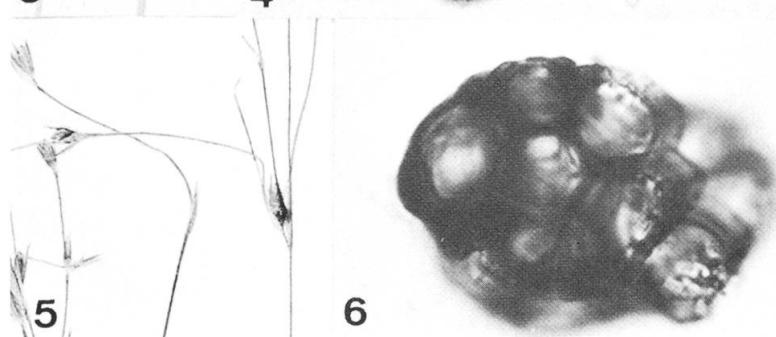
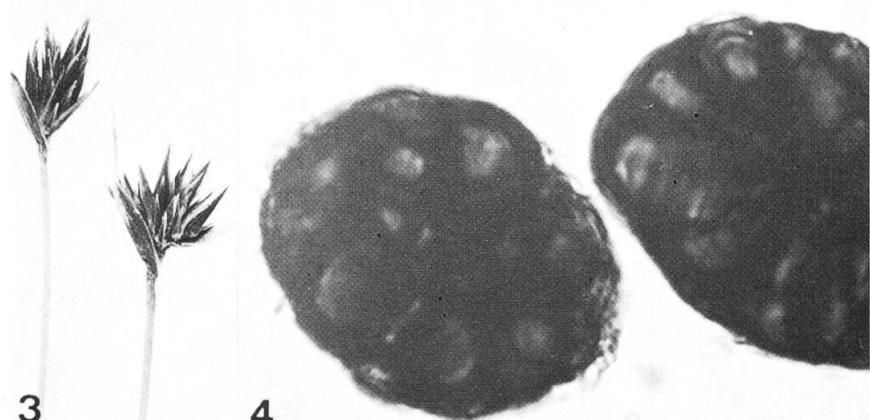
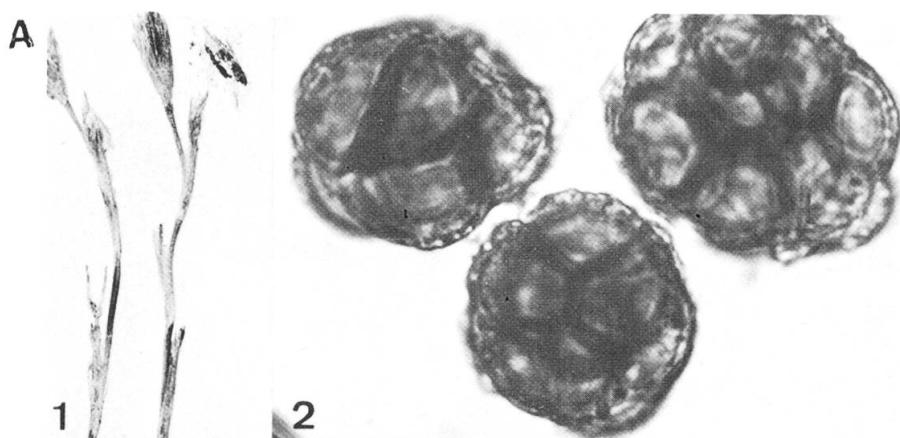
- 1.-2. T. aterrimum, *Carex humilis* (Hab. 0.8 × ; Sp.b. 1000 ×)
3.-4. T. kochianum, *Schoenus nigricans* x *ferrugineus* (Hab. 1.1 × ; Sp.b.
1000 ×)

TOLYPOSPORIUM, Juncaceae

- 5.-6. T. junci, *Juncus bufonius* (Hab. 1.0 × ; Sp.b. 1000 ×)

B: TRACYA, Hydrocharitaceae

- 1.-4. T. hydrocharidis, *Hydrocharis morsus-ranae* (Hab. 0.9 × ; Sp.b. 70 × ; Sp.b. 100 × ;
Sp.b. 1000 × [Ausschnitt])



Tafel 27

UROCYSTIS, Gramineae

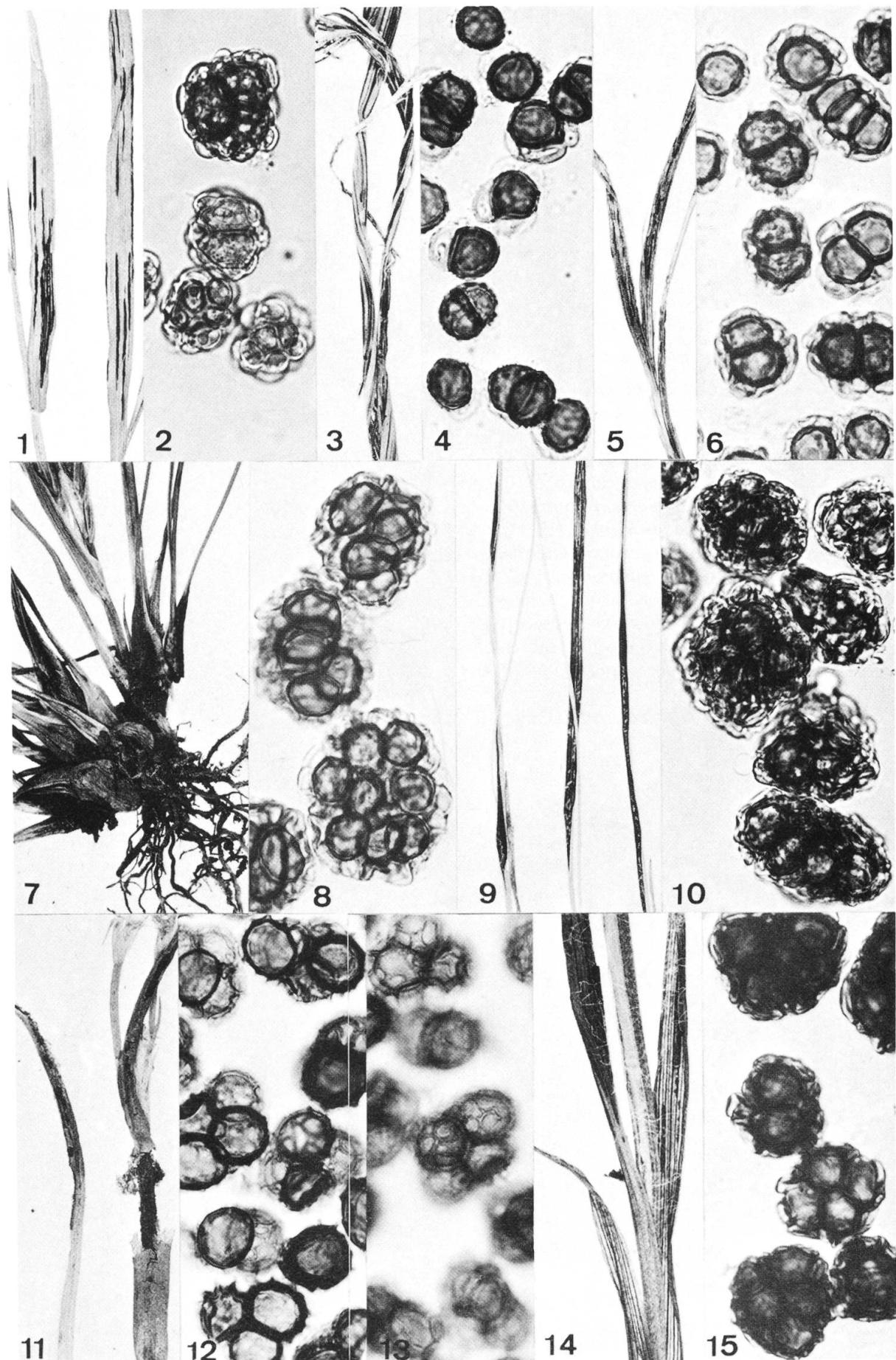
- 1.-2. U. agropyri, *Agropyron repens* (Hab. 0.6 × ; Sp.b. 500 ×)
3.-4. U. occulta, *Secale cereale* (Hab. 0.9 × ; Sp.b. 500 ×)

UROCYSTIS, Cyperaceae

- 5.-6. U. fischeri, *Carex riparia* (Hab. 0.5 × ; Sp.b. 500 ×)

UROCYSTIS, Juncaceae

- 7.-8. U. johansonii, *Juncus bufonius* (Hab. 2.7 × ; Sp.b. 500 ×)
9.-10. U. junci, *Juncus filiformis* (Hab. 0.8 × ; Sp.b. 500 ×)
11.-13. U. lagerheimii, *Juncus compressus* (Hab. 2.7 × ; Sp.b. 500 × ; Sp.b. 500 ×)
14.-15. U. luzulae, *Luzula pilosa* (Hab. 2.3 × ; Sp.b. 500 ×)



Tafel 28

UROCYSTIS, Liliaceae

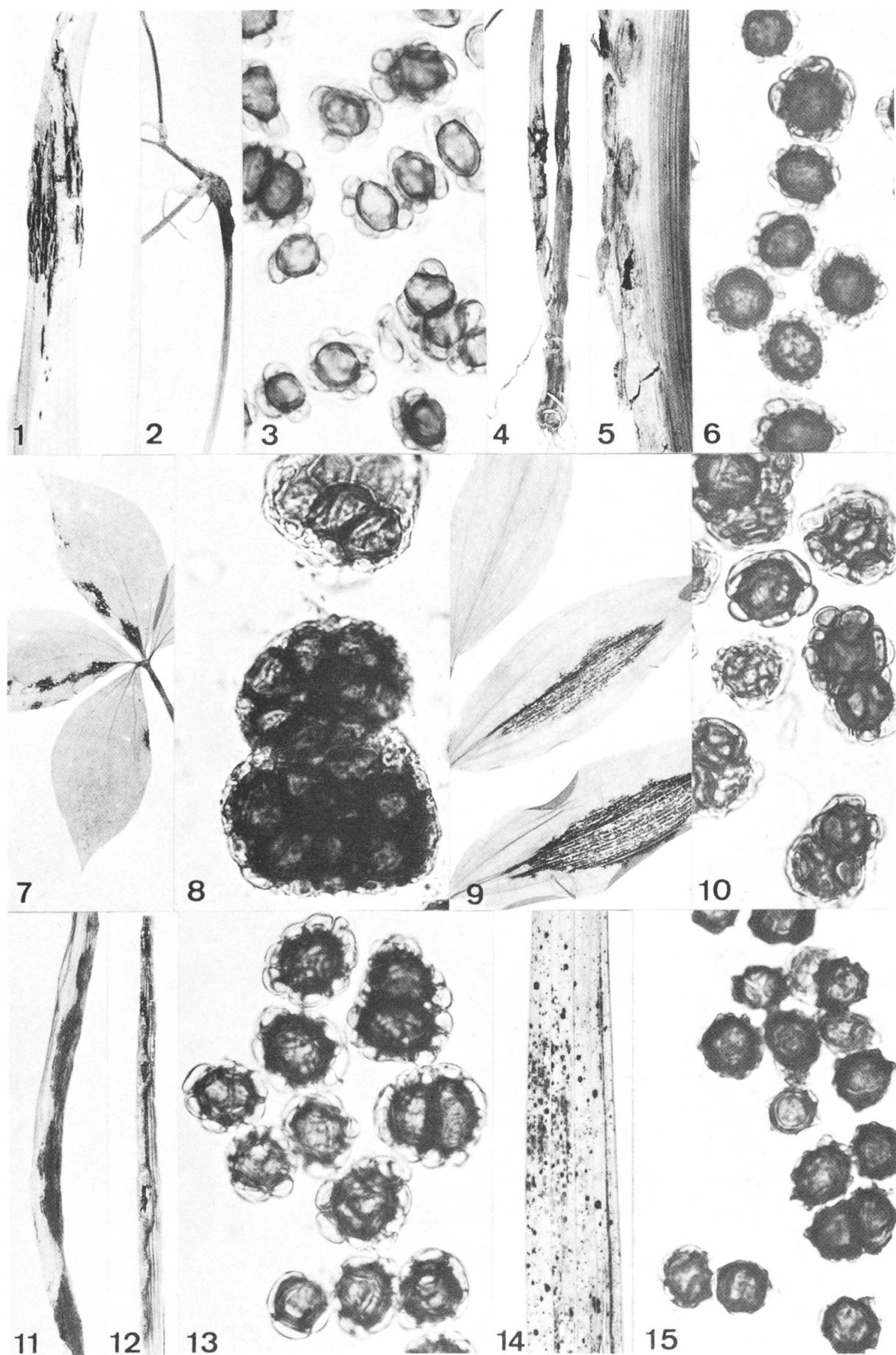
1. U. colchici, *Colchicum autumnale* (Hab. 0.9 ×)
2. U. colchici, *Ornithogalum tenuifolium* (Hab. 0.9 ×)
3. U. colchici, *Colchicum autumnale* (Sp.b. 500 ×)
4. U. magica, *Allium cepa* (Hab. 0.6 ×)
5. U. magica, *Allium magicum* (Hab. 0.9 ×)
6. U. magica, *Allium porrum* (Sp.b. 500 ×)
- 7.-8. U. paridis, *Paris quadrifolia* (Hab. 0.6 × ; Sp.b. 500 ×)
9. U. polygonati, *Polygonatum multiflorum* (Hab. 0.9 ×)
10. U. polygonati, *Polygonatum verticillatum* (Sp.b. 500 ×)

UROCYSTIS, Amaryllidaceae

11. U. leucoji, *Leucojum vernum* (Hab. 1.1 ×)
12. U. leucoji, *Galanthus nivalis* (Hab. 1.2 ×)
13. U. leucoji, *Leucojum vernum* (Sp.b. 500 ×)

UROCYSTIS, Iridaceae

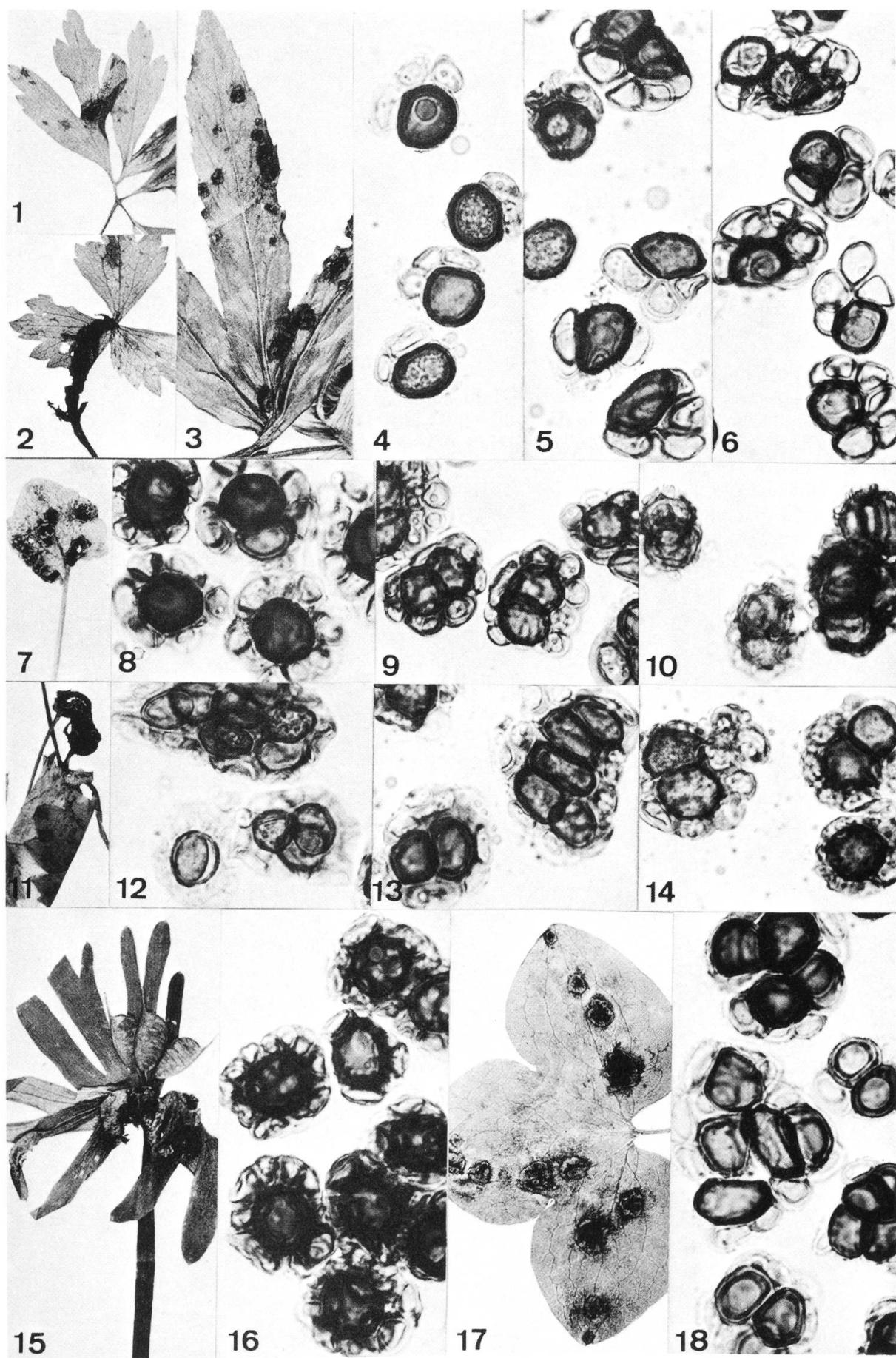
- 14.-15. U. gladiolicola, *Gladiolus cult.* (Hab. 1.0 × ; Sp.b. 500 ×)



Tafel 29

UROCYSTIS, Ranunculaceae

1. U. anemones, *Anemone ranunculoides* (Hab. 0.6 ×)
2. U. anemones, *Ranunculus repens* (Hab. 0.7 ×)
3. U. anemones, *Helleborus viridis* (Hab. 0.9 ×)
4. U. anemones, *Anemone ranunculoides* (Sp.b. 500 ×)
5. U. anemones, *Helleborus viridis* (Sp.b. 500 ×)
6. U. anemones, *Ranunculus repens* (Sp.b. 500 ×)
- 7.-8. U. carcinodes, *Ranunculus ficaria* (Hab. 0.9 × ; Sp.b. 500 ×)
9. U. carcinodes, *Callianthemum coriandrifolium* (Sp.b. 500 ×)
10. U. carcinodes, *Pulsatilla alpina* (Sp.b. 500 ×)
- 11.-12. U. carcinodes, *Actaea spicata* (Hab. 0.8 × ; Sp.b. 500 ×)
13. U. carcinodes, *Clematis alpina* (Sp.b. 500 ×)
14. U. carcinodes, *Trollius europaeus* (Sp.b. 500 ×)
- 15.-16. U. eranthidis, *Eranthis hiemalis* (Hab. 0.8 × ; Sp.b. 500 ×)
- 17.-18. U. hepaticae-trilobae, *Hepatica triloba* (Hab. 0.7 × ; Sp.b. 500 ×)



Tafel 30

UROCYSTIS, Ranunculaceae

1.-2. U. irregularis, *Aconitum lycoctonum* (Hab. 0.5 × ; Sp.b. 500 ×)

3.-4. U. leimbachii, *Adonis vernalis* (Hab. 0.8 × ; Sp.b. 500 ×)

5.-6. U. sorosporioides, *Thalictrum minus* (Hab. 0.9 × ; Sp.b. 500 ×)

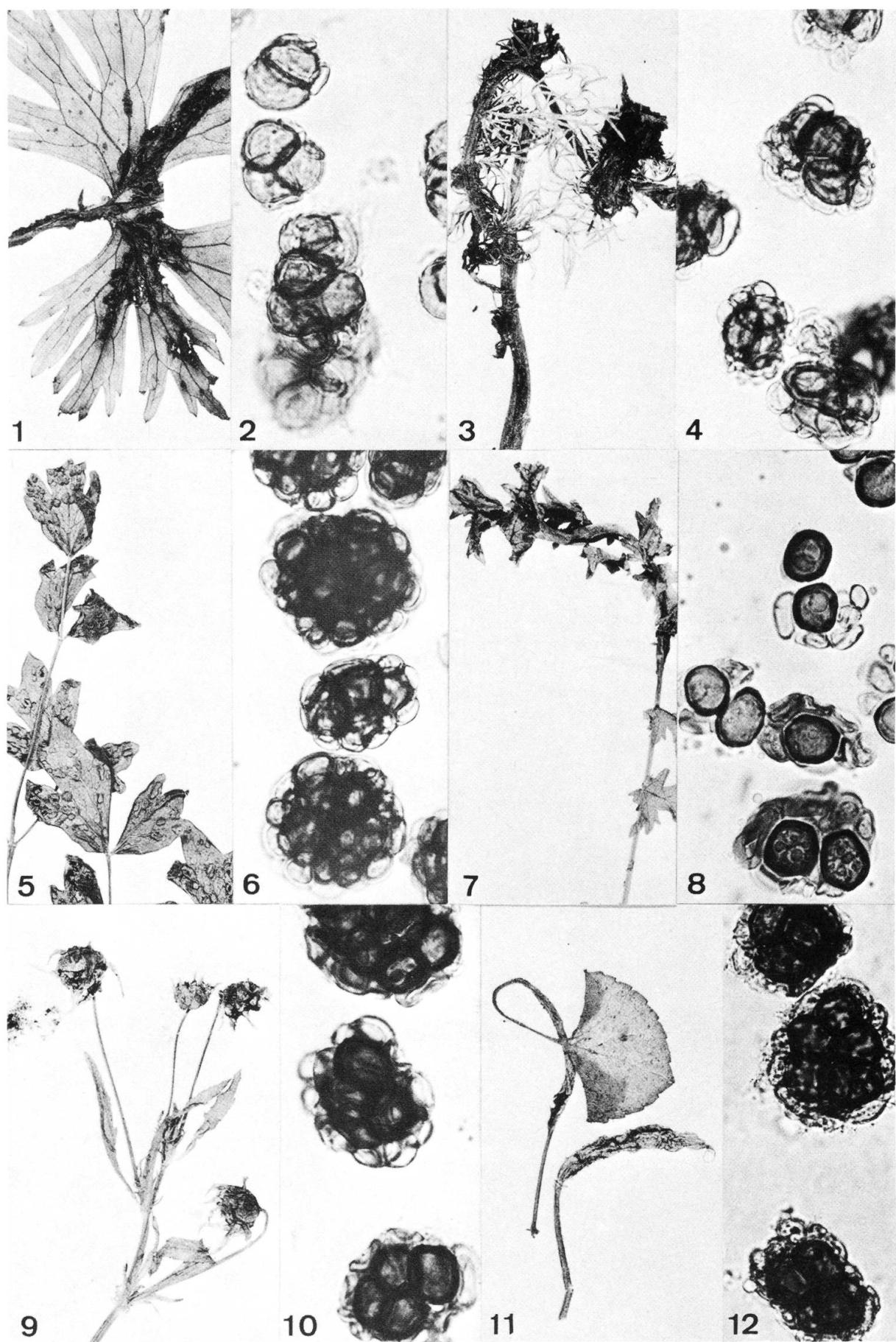
UROCYSTIS, Rosaceae

7.-8. U. filipendulae, *Filipendula hexapetala* (Hab. 0.4 × ; Sp.b. 500 ×)

UROCYSTIS, Violaceae

9.-10. U. kmetiana, *Viola tricolor* (Hab. 0.9 × ; Sp.b. 500 ×)

11.-12. U. violae, *Viola odorata* (Hab. 0.9 × ; Sp.b. 500 ×)



Tafel 31

UROCYSTIS, USTACYSTIS

A: UROCYSTIS, Primulaceae

- 1.-2. U. cortusae, *Cortusa matthioli* (Hab. 1.8 × ; Sp.b. 500 ×)
- 3.-4. U. primulicola, *Primula veris* (Hab. 0.8 × ; Sp.b. 500 ×)
- 5.-6. U. trientalis, *Trientalis europaea* (Hab. 0.7 × ; Sp.b. 500 ×)

UROCYSTIS, Scrophulariaceae

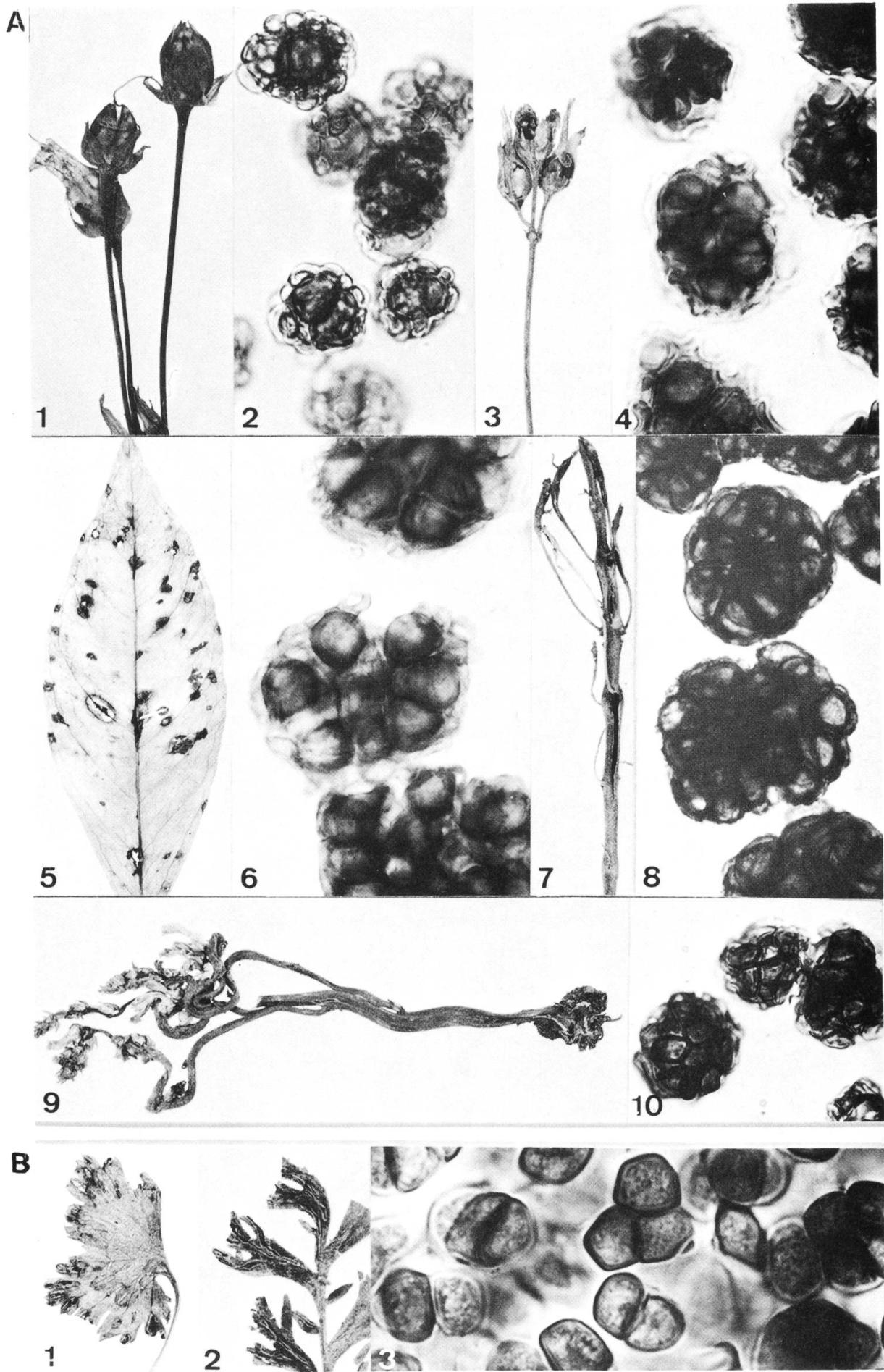
- 7.-8. U. schizocaulon, *Odontites lutea* (Hab. 0.9 × ; Sp.b. 500 ×)

UROCYSTIS, Orobanchaceae

- 9.-10. U. orobanches, *Orobanche ramosa* (Hab. 0.5 × ; Sp.b. 500 ×)

B: USTACYSTIS, Rosaceae

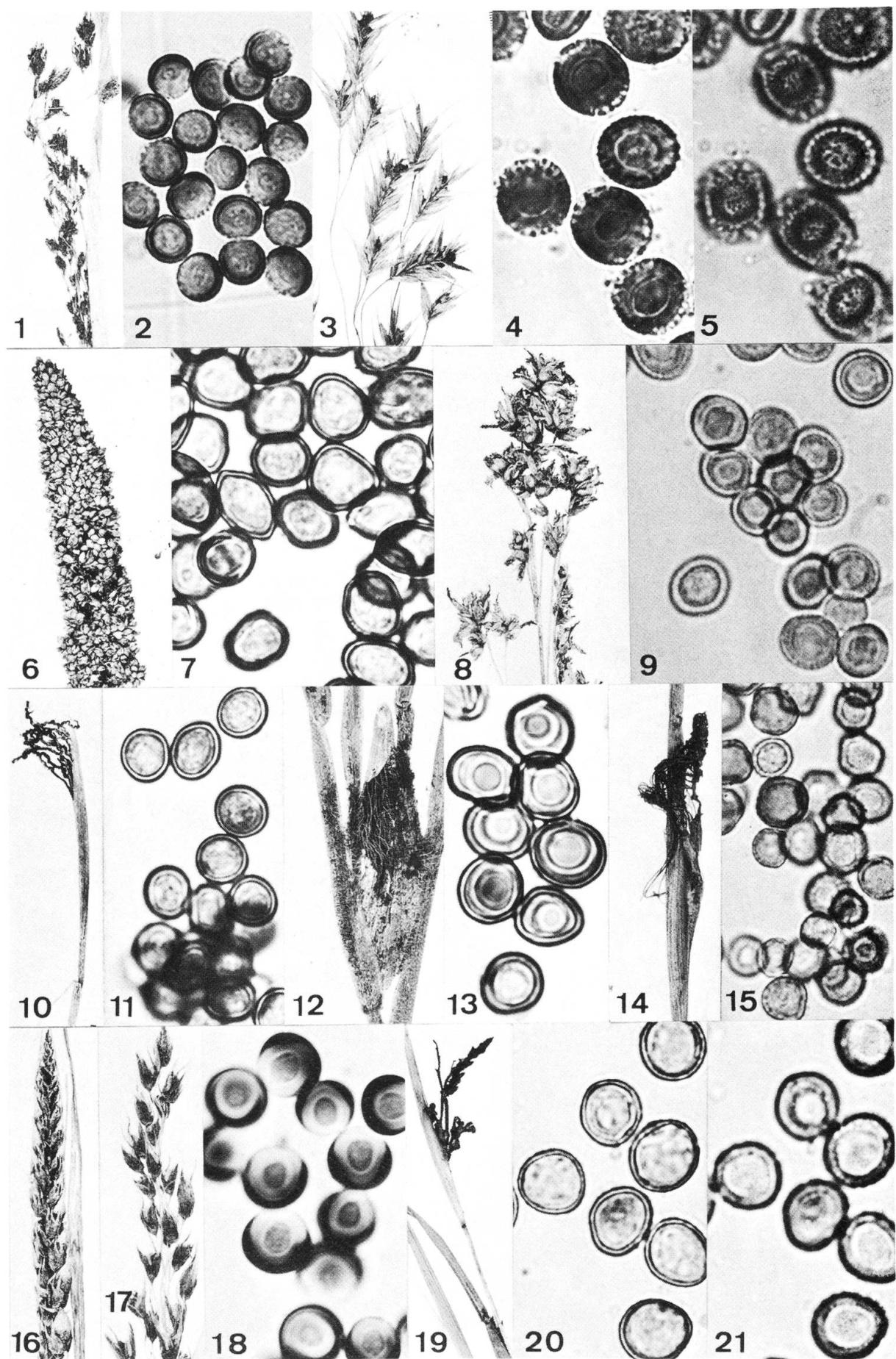
- 1. U. waldsteiniae, *Waldsteinia geoides* (Hab. 1.1 ×)
- 2. U. waldsteiniae, *Geum triflorum* (Hab. 1.0 ×)
- 3. U. waldsteiniae, *Waldsteinia geoides* (Sp. 1000 ×)



Tafel 32

USTILAGO, Gramineae, Infloreszenzen, Ovarien

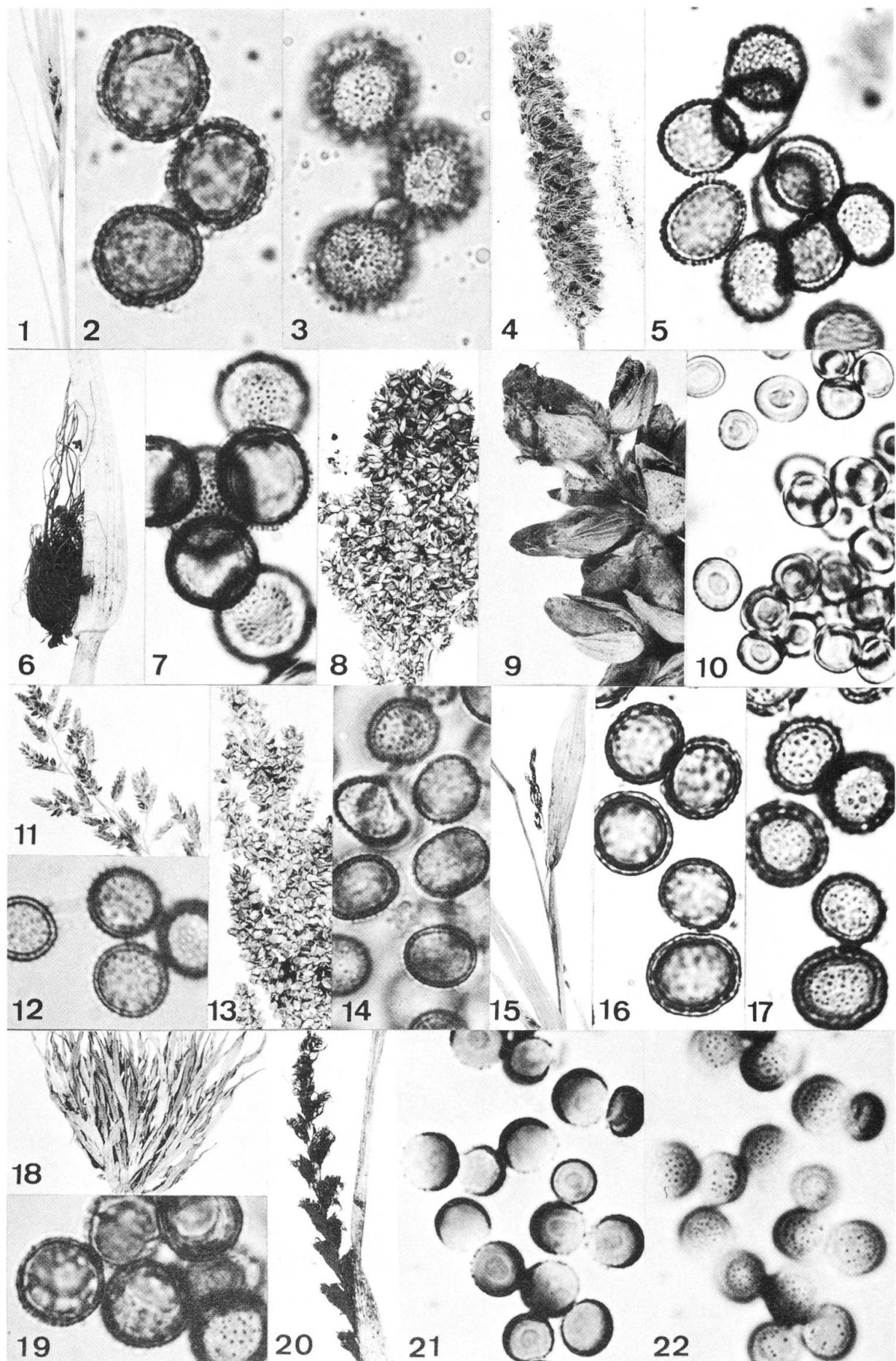
- 1.-2. U. avenae, *Avena sativa* (Hab. 0.7 × ; Sp. 1000 ×)
3. U. bullata, *Bromus arvensis* (Hab. 0.7 ×)
- 4.-5. U. bullata, *Bromus japonicus* (Sp. 1000 × ; Sp. 1000 ×)
- 6.-7. U. crameri, *Setaria italica* (Hab. 0.6 × ; Sp. 1000 ×)
- 8.-9. U. cruenta, *Sorghum vulgare* (Hab. 0.5 × ; Sp. 1000 ×)
- 10.-11. U. cynodontis, *Cynodon dactylon* (Hab. 0.8 × ; Sp. 1000 ×)
- 12.-13. U. destruens, *Panicum miliaceum* (Hab. 0.6 × ; Sp. 1000 ×)
- 14.-15. U. digitariae, *Panicum repens* (Hab. 1.4 × ; Sp. 1000 ×)
16. U. hordei, *Hordeum vulgare* (Hab. 0.8 ×)
17. U. hordei, *Avena sativa* (Hab. 0.7 ×)
18. U. hordei, *Hordeum vulgare* (Sp. 1000 ×)
- 19.-21. U. ischaemi, *Bothriochloa ischaemum* (Hab. 0.9 × ; Sp. 1000 × ; Sp. 1000 ×)



Tafel 33

USTILAGO, Gramineae, Infloreszenzen, Ovarien

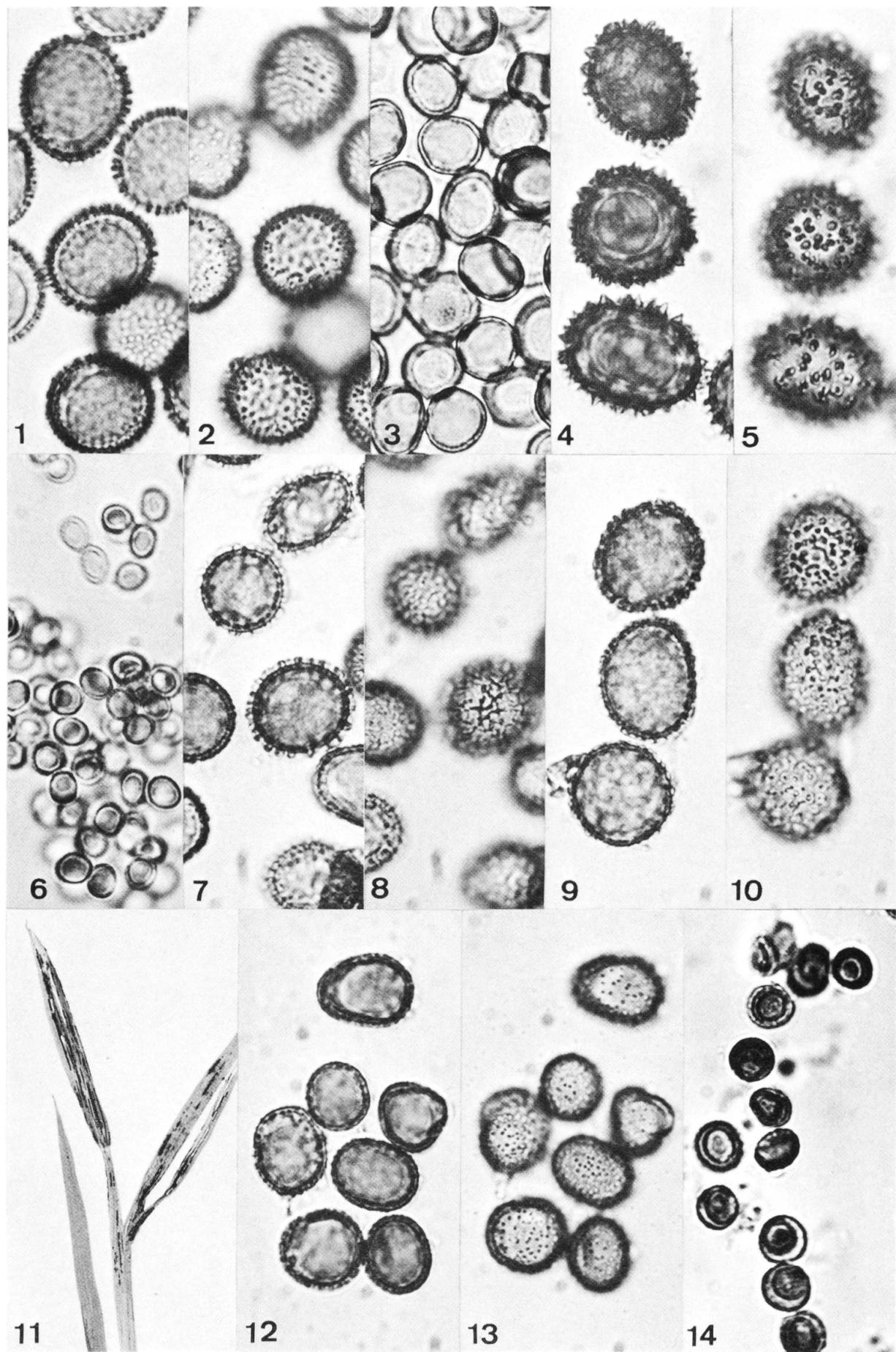
- 1.-3. U. mulfordiana, *Festuca tenella* (Hab. 1.0 × ; Sp. 1000 × ; Sp. 1000 ×)
- 4.-5. U. neglecta, *Setaria glauca* (Hab. 1.0 × ; Sp. 1000 ×)
- 6.-7. U. reiliana, *Sorghum vulgare* (Hab. 0.5 × ; Sp. 1000 ×)
- 8.-10. U. sorghi, *Sorghum vulgare* (Hab. 0.5 × ; Hab. 2.5 × ; Sp. 1000 ×)
- 11.-12. U. spermophora, *Eragrostis minor* (Hab. 0.9 × ; Sp. 1000 ×)
- 13.-14. U. sphaerogena, *Echinochloa crus-galli* (Hab. 0.6 × ; Sp. 1000 ×)
- 15.-17. U. syntherismae, *Digitaria sanguinalis* (Hab. 0.8 × ; Sp. 1000 × ; Sp. 1000 ×)
- 18.-19. U. tragi-racemosi, *Tragus racemosus* (Hab. 0.9 × ; Sp. 1000 ×)
- 20.-22. U. tritici, *Triticum vulgare* (Hab. 0.6 × ; Sp. 1000 × ; Sp. 1000 ×)



Tafel 34

USTILAGO, Gramineae, Blattstreifen

- 1.-2. U. calamagrostis, *Calamagrostis arundinacea* (Sp. 1000 × ; Sp. 1000 ×)
- 3. U. davisii, *Glyceria fluitans* (Sp. 1000 ×)
- 4.-5. U. echinata, *Typhoides arundinacea* (Sp. 1000 × ; Sp. 1000 ×)
- 6. U. longissima, *Glyceria fluitans* (Sp. 1000 ×)
- 7.-8. U. scrobiculata, *Calamagrostis epigeios* (Sp. 1000 × ; Sp. 1000 ×)
- 9.-10. U. serpens, *Agropyron repens* (Sp. 1000 × ; Sp. 1000 ×)
- 11.-13. U. striiformis, *Holcus lanatus* (Hab. 0.8 × ; Sp. 1000 × ; Sp. 1000 ×)
- 14. U. trebouxi, *Elymus condensatus* (Sp. 1000 ×)



Tafel 35

USTILAGO, Gramineae, Halminternodien

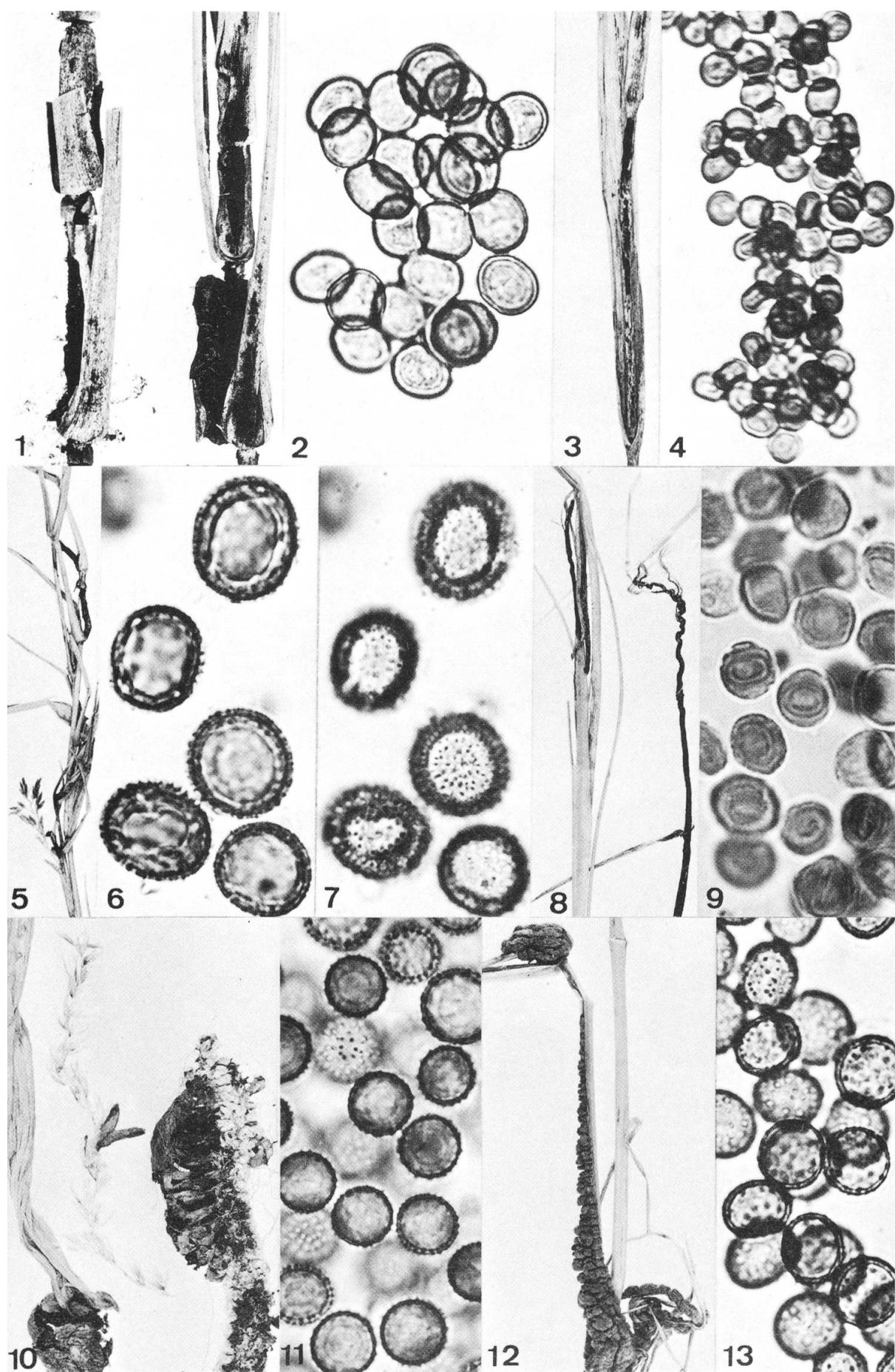
- 1.-2. U. grandis, *Phragmites communis* (Hab. 0.5; Sp. 1000 ×)
3.-4. U. hypodytes, *Elymus europaeus* (Hab. 0.5 × ; Sp. 1000 ×)

USTILAGO, Gramineae, Internodien + Infloreszenzen

- 5.-7. U. montaniensis, *Eragrostis minor* (Hab. 0.8 × ; Sp. 1000 × ; Sp. 1000 ×)
8.-9. U. williamsii, *Stipa pennata* (Hab. 0.9 × ; Sp. 1000 ×)

USTILAGO, Gramineae, Beulen

- 10.-11. U. maydis, *Zea mais* (Hab. 0.5 × ; Sp. 1000 ×)
12.-13. U. trichophora, *Echinochloa crus-galli* (Hab. 0.9 × ; Sp. 1000 ×)



Tafel 36

USTILAGO, Cyperaceae

1.-3. U. montagnei, *Rhynchospora alba* (Hab. 1.1× ; Sp. 1000× ; Sp. 1000×)

4.-6. U. rhynchosporae, *Rhynchospora alba* (Hab. 1.1× ; Sp. 1000× ; Sp. 1000×)

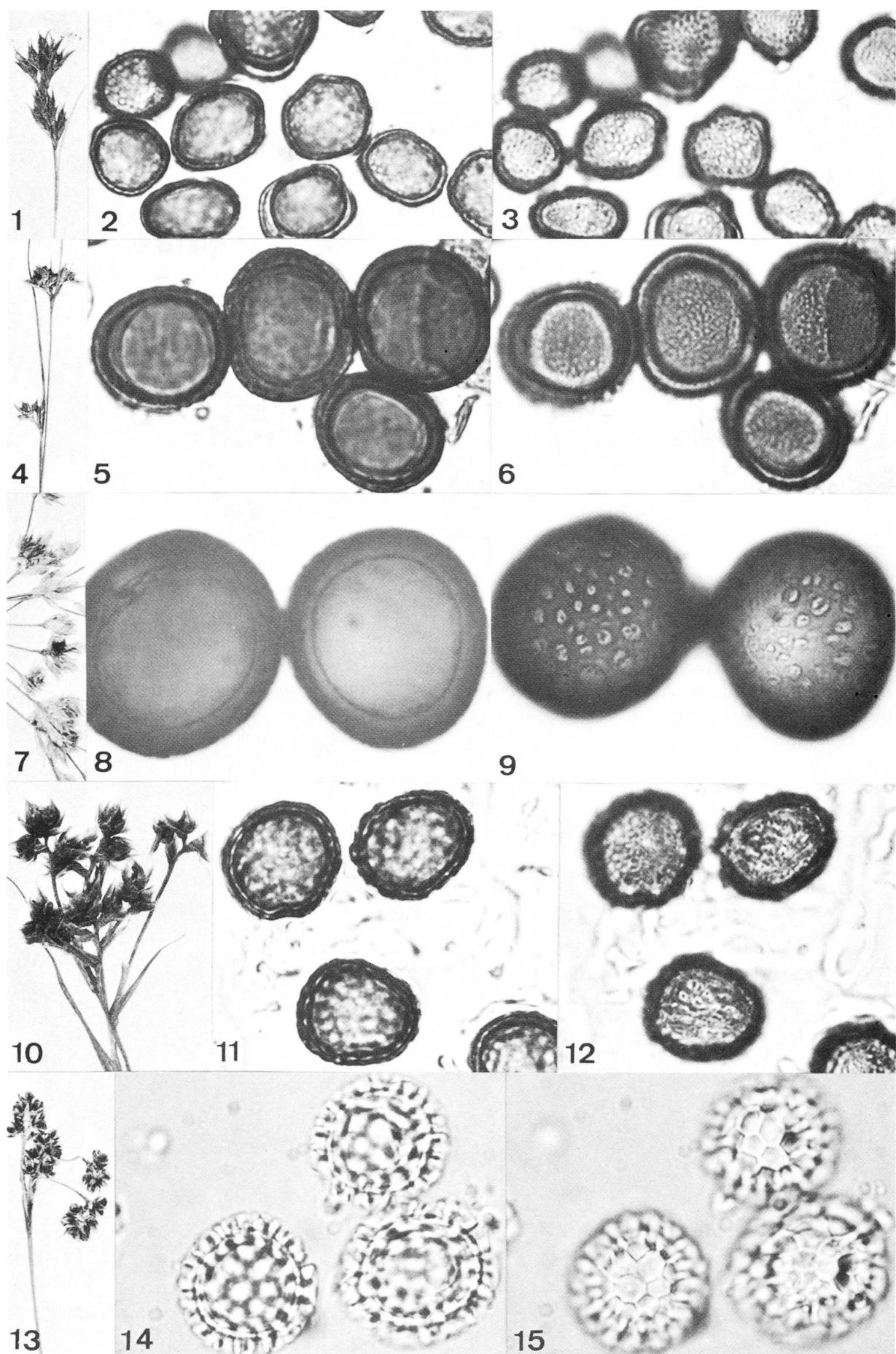
USTILAGO, Juncaceae

7. U. luzulae, *Luzula silvatica* (Hab. 0.9×)

8.-9. U. luzulae, *Luzula nivea* (Sp. 1000× ; Sp. 1000×)

10.-12. U. spadiceae, *Luzula spadicea* (Hab. 2.7× ; Sp. 1000× ; Sp. 1000×)

13.-15. U. vuijckii, *Luzula campestris* (Hab. 1.0× ; Sp. 1000× ; Sp. 1000×)



Tafel 37

USTILAGO, Liliaceae

- 1.-2. U. heufleri, *Tulipa* sp. (Hab. 0.9 × ; Sp. 1000 ×)
3. U. ornithogali, *Gagea arvensis* (Hab. 0.9 ×)
4. U. ornithogali, *Gagea lutea* (Sp. 1000 ×)
- 5.-6. U. vaillantii, *Scilla bifolia* (Hab. 0.9 × ; Sp. 1000 ×)

USTILAGO, Polygonaceae, *Oxyria*

- 7.-8. U. vinosa, *Oxyria digyna* (Hab. 0.9 × ; Sp. 1000 ×)

USTILAGO, Polygonaceae, *Polygonum*, Sporen warzig, Ovarien

- 9.-10. U. candollei, *Polygonum bistorta* (Hab. 0.9 × ; Sp. 1000 ×)
11. U. hydropiperis, *Polygonum hydropiperis* (Hab. 1.0 ×)

12. U. hydropiperis, *Polygonum persicaria* (Sp. 1000 ×)

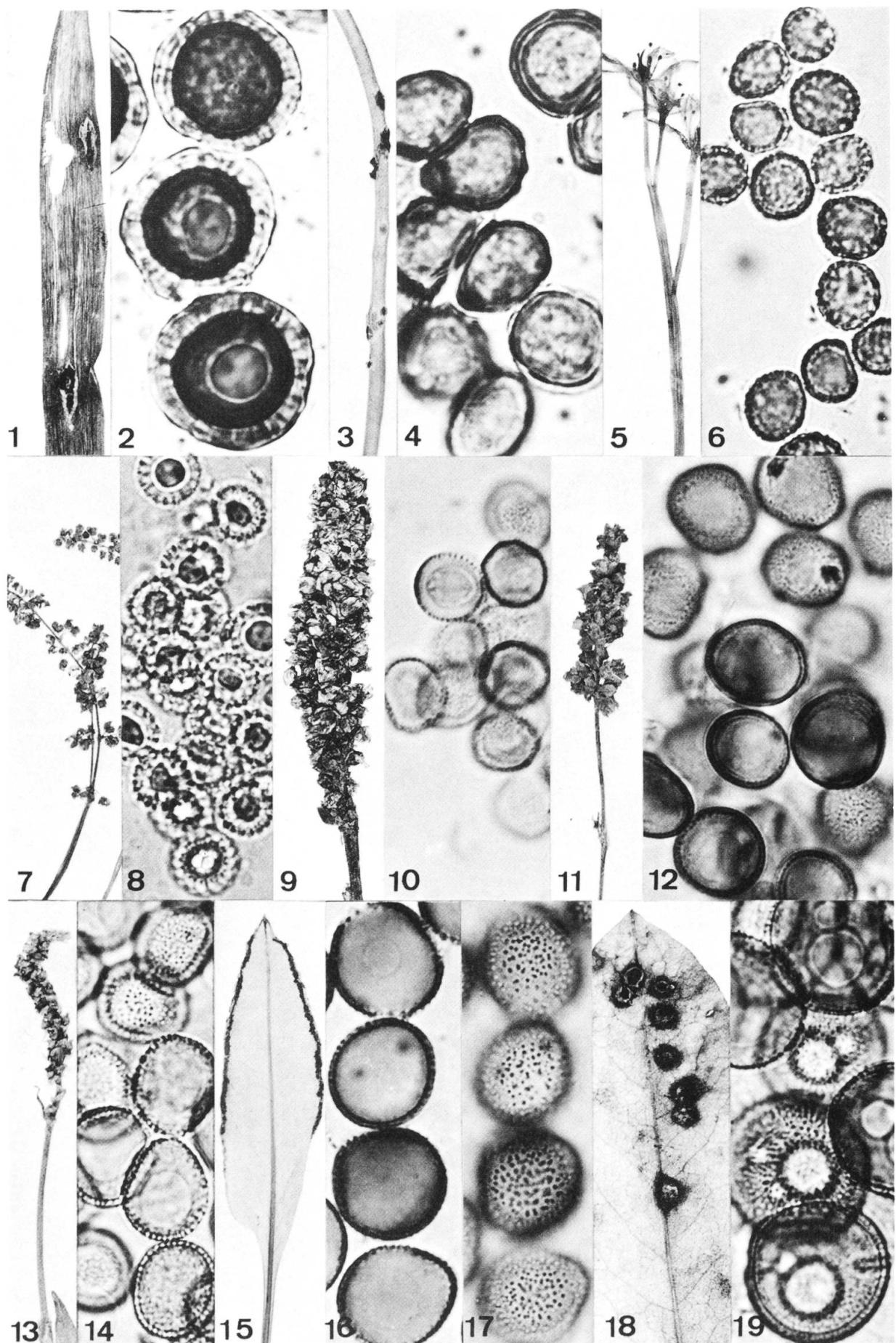
USTILAGO, Polygonaceae, *Polygonum*, Sporen warzig, Bulbillen

- 13.-14. U. ustilaginea, *Polygonum viviparum* (Hab. 1.0 × ; Sp. 1000 ×)

USTILAGO, Polygonaceae, *Polygonum*, Sporen warzig, Blatt

- 15.-17. U. marginalis, *Polygonum bistorta* (Hab. 0.5 × ; Sp. 1000 × ; Sp. 1000 ×)

- 18.-19. U. pustulata, *Polygonum bistorta* (Hab. 0.9 × ; Sp. 1000 ×)



Tafel 38

USTILAGO, Polygonaceae, *Polygonum*, Sporen netzig, Ovarien

1.-2. U. anomala, *Polygonum mite* (Hab. $0.9 \times$; Sp. $1000 \times$)

3.-4. U. reticulata, *Polygonum lapathifolium* (Hab. $0.8 \times$; Sp. $1000 \times$)

USTILAGO, Polygonaceae, *Polygonum*, Sporen fein warzig bis netzig, Infloreszenzen + vegetative Teile

5.-7. U. bosniaca, *Polygonum alpinum* (Hab. $1.0 \times$; Sp. $1000 \times$; Sp. $1000 \times$)

USTILAGO, Polygonaceae, *Polygonum*, Sporen cerebriform, vegetative Teile

8.-10. U. polygoni-alpini, *Polygonum alpinum* (Hab. $1.1 \times$; Sp. $1000 \times$; Sp. $1000 \times$)

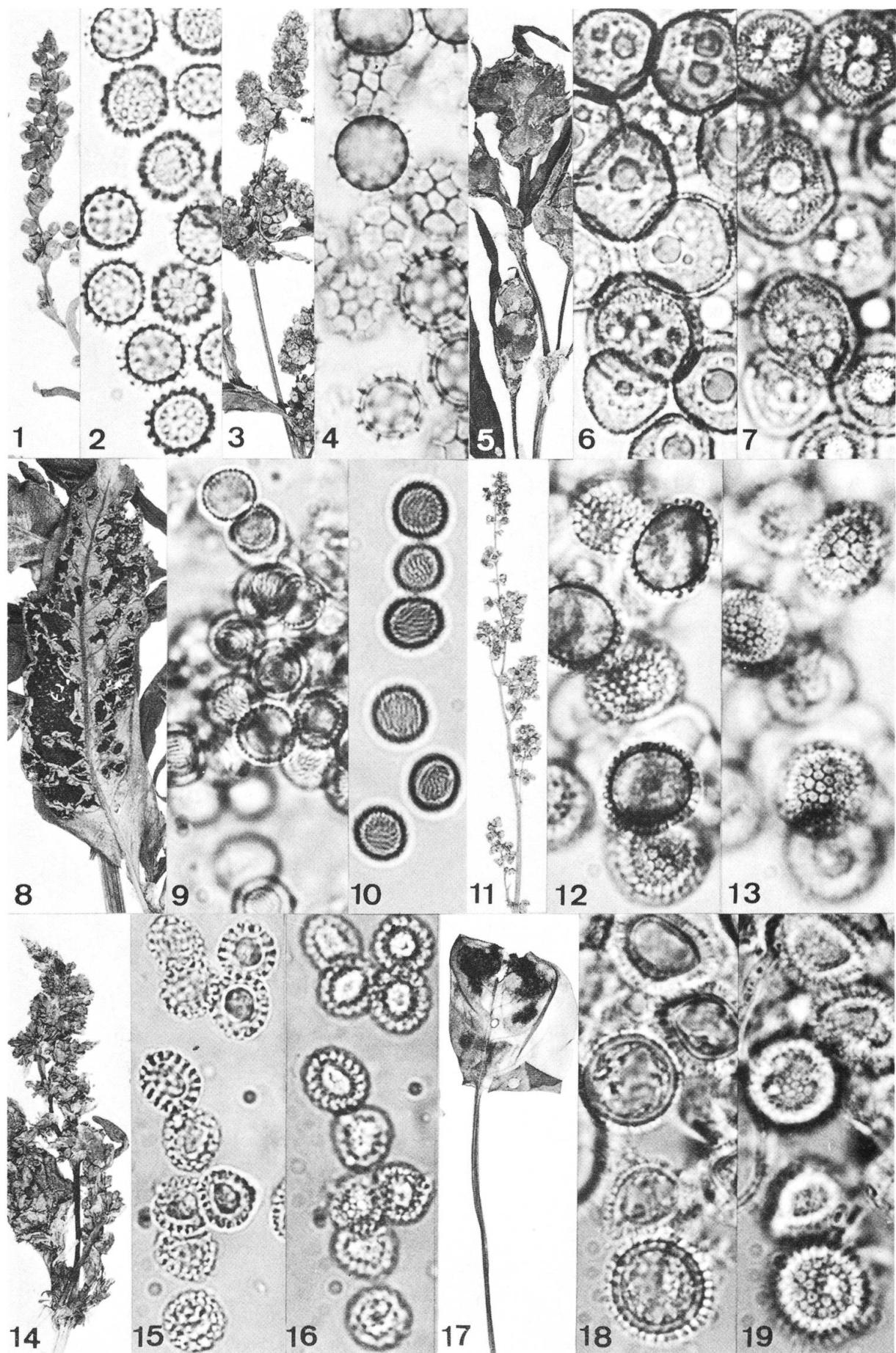
USTILAGO, Polygonaceae, *Rumex*, Ovarien

11.-13. U. stygia, *Rumex acetosa* (Hab. $0.7 \times$; Sp. $1000 \times$; Sp. $1000 \times$)

14.-16. U. warmingii, *Rumex domesticus* (Hab. $0.7 \times$; Sp. $1000 \times$; Sp. $1000 \times$)

USTILAGO, Polygonaceae, *Rumex*, Blatt

17.-19. U. goeppertiana, *Rumex arifolius* (Hab. $0.8 \times$; Sp. $1000 \times$; Sp. $1000 \times$)



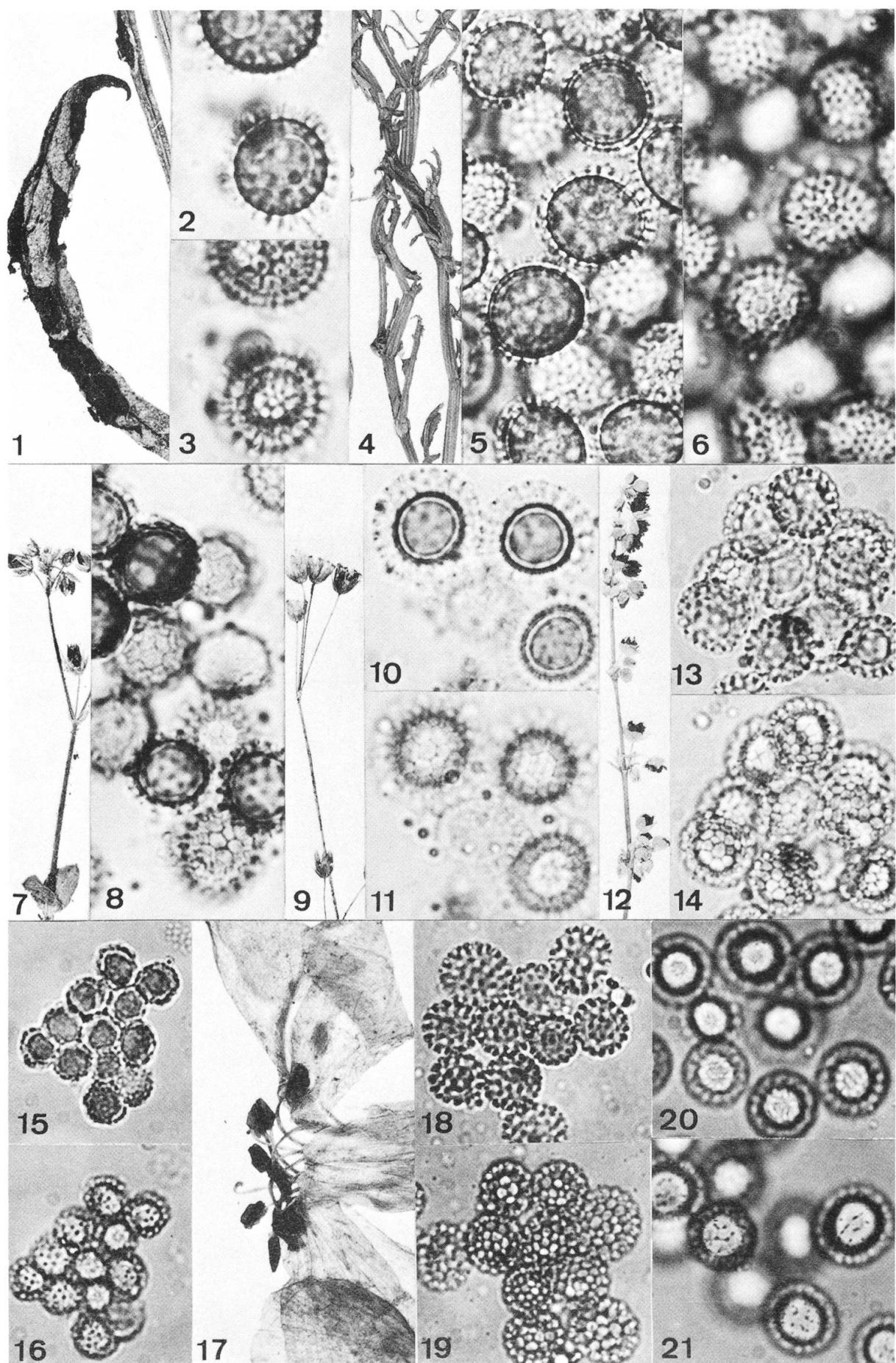
Tafel 39

USTILAGO, Polygonaceae, *Rumex*, vegetative Teile + Infloreszenzen

- 1.-3. U. kuehneana, *Rumex acetosella* (Hab. 2.7× ; Sp. 1000× ; Sp. 1000×)
4.-6. U. parlatorei, *Rumex alpinus* (Hab. 0.6× ; Sp. 1000× ; Sp. 1000×)

USTILAGO, Caryophyllaceae, Kapseln

- 7.-8. U. duriaeana, *Cerastium semidecandrum* (Hab. 1.0; Sp. 1000×)
9.-11. U. holostei, *Holosteum umbellatum* (Hab. 0.8× ; Sp. 1000× ; Sp. 1000×)
12.-14. U. major, *Silene otites* (Hab. 0.7× ; Sp. 1000× ; Sp. 1000×)
USTILAGO, Caryophyllaceae, Antheren
15.-16. U. gausseni, *Silene italica* (Sp. 1000× ; Sp. 1000×)
17.-19. U. violacea, *Saponaria officinalis* (Hab. 3.1× ; Sp. 1000× ; Sp. 1000×)
20.-21. U. violaceo-irregularis, *Silene vulgaris* (Sp. 1000× ; Sp. 1000×)



Tafel 40

USTILAGO, Cruciferae

- 1.-2. U. thlaspeos, *Thlaspi corymbiflora* (Hab. 33× ; Sp. 1000×)

USTILAGO, Oxalidaceae

- 3.-5. U. oxalidis, *Oxalis europaea* (Hab. 1.0× ; Sp. 1000× ; Sp. 1000×)

USTILAGO, Labiatae

6. U. betonicae, *Salvia pratensis* (Hab. 0.9×)

7. U. betonicae, *Betonica alopecuros* (Sp. 1000×)

8. U. betonicae, *Salvia pratensis* (Sp. 1000×)

USTILAGO, Lentibulariaceae

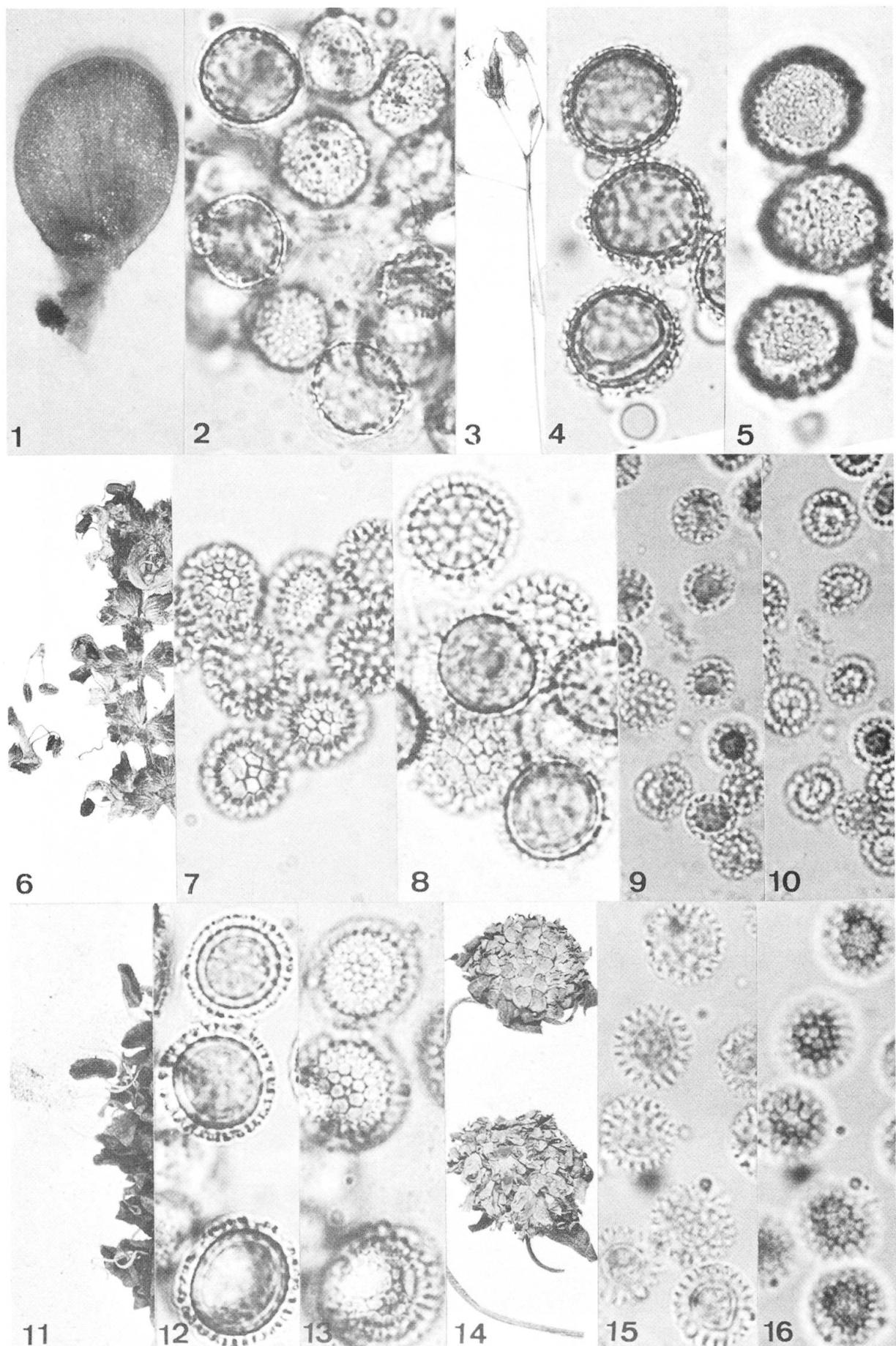
- 9.-10. U. pinguiculae, *Pinguicula alpina* (Sp. 1000× ; Sp. 1000×)

USTILAGO, Dipsacaceae

11. U. flosculorum, *Knautia silvatica* (Hab. 2.9×)

- 12.-13. U. flosculorum, *Knautia arvensis* (Sp. 1000× ; Sp. 1000×)

- 14.-16. U. scabiosae, *Knautia arvensis* (Hab. 0.9× ; Sp. 1000× ; Sp. 1000×)



Tafel 41

USTILAGO, USTILENTYLOMA

A: USTILAGO, Compositae

- 1.-3. U. cardui, *Carduus defloratus* (Hab. 1.0 × ; Sp. 1000 × ; Sp. 1000 ×)
- 4.-5. U. cichorii, *Cichorium intybus* (Hab. 2.7 × ; Sp. 1000 ×)
- 6.-8. U. scolymi, *Scolymus hispanicus* (Hab. 0.8 × ; Sp. 1000 × ; Sp. 1000 ×)
- 9.-11. U. scorzonerae, *Scorzonera humilis* (Hab. 0.7 × ; Sp. 1000 × ; Sp. 1000 ×)
- 12.-13. U. tragopogonis-pratensis, *Tragopogon pratensis* (Hab. 0.7 × ; Sp. 1000 ×)

B: USTILENTYLOMA, Gramineae

- 1.-2. U. fluitans, *Glyceria fluitans* (Hab. 1.0 × ; Sp. 1000 ×)

