

ADDITIONS AND CORRECTIONS TO THE LICHEN FLORA OF TAIWAN

JEN-RONG WANG-YANG⁽¹⁾ and MING-JOU LAI⁽²⁾

The following list presents additions and amendments to our checklist published in 1973. Recent publications on some pertinent groups of the lichens has stabilized specific names and solved numerous problems of synonymy both nomenclaturally and taxonomically, and we have not hesitated to adopt many of their opinions.

The present authors are greatly indebted to Dr. D. L. Hawksworth of Commonwealth Mycological Institute, Kew, England, and Dr. Syo Kurokawa of Department of Botany, National Science Museum, Tokyo, Japan for their corrections on the genus *Alectoria* and some species of *Anaptychia* respectively.

Alectoria Ach.

- americana** Mot. (*A. jubata* Ach. var. *larestris* Auct. non Ach.)
- confusa** Awas. (*A. acanthodes* Auct. non Hue)

Anaptychia Körb.

- angustiloba** (Müll. Arg.) Kurok.
- boryi** (Fée) Mass. (= *A. neoleucomelaena* Kurok.; = *A. neoleucomelaena* Kurok. var. *squarrosa* (Vain.) Kurok.; = *A. neoleucomelaena* Kurok. form. *squarrosa* (Vain.) Kurok.)
- dendritica** (Pers.) Vain. var. **dendritica**
- diademata** (Tay.) Kurok. form. **brachyloba** (Müll. Arg.) Kurok.
- diademata** (Tay.) Kurok. form. **condenstata** (Kurok.) Kurok. (= *A. esorediata* (Vain.) DR. et Lyngby form. *condensata* Kurok.)
- hypocaesia** Yas.
- hypochraea** Vain. (= *A. podocarpa* (Bél.) Mass. var. *hypochraea* (Vain.) Sato)
- incana** (Stirt.) Zahlbr.
- leucomelaena** (L.) Mass. (= *A. ophioglossa* (Tayl.) Kurok.)
- obscurata** (Nyl.) Kurok. (= *A. heterochroa* Vain.)
- pacifica** Kurok.
- pandurata** Kurok.
- spinulosa** Kurok.
- subascendens** Asah.
- tentaculata** (Zahlbr.) Kurok. (= *Physcia tentaculata* Zahlbr.)

Baeomyces Pers.

- fungoides** (Sw.) Ach. (= *B. roseus* (Hampe) Pers.)
- sanguineus** Asah.

Bombliospora De Not.

- japonica** Zahlbr.

Cetraria W. Culb. et C. Culb.

- braunsiana** (Müll. Arg.) W. Culb. et C. Culb.
- cetrarioides** (Del.) W. Culb. et C. Culb. (= *Parmelia cetrarioides* Del.)

(1) 楊王貞容, Associate Professor of Botany, National Taiwan University.
(2) 賴明洲, Department of Botany, National Taiwan University.

chicita (W. Culb.) W. Culb. et C. Culb.

isidiata (Asah.) W. Culb. et C. Culb. (= *Cetraria sanguinea* Schaer. ex Moritz. form. *isidiata* Asah. ex Sato)

japonica (Zahlbr.) W. Culb. et C. Culb.

nuda (Hue) W. Culb. et C. Culb. (= *Cetraria collata* (Nyl.) Müll. Arg. form. *nuda* (Hue) Zahlbr.)

olivivorum (Nyl.) W. Culb. et C. Culb.

pseudolivivorum (Asah.) W. Culb. et C. Culb.

Cladia Nyl.

aggregata (Sw.) Nyl. (= *Cladonia aggregata* (Sw.) Ach.)

Cladonia Wigg.

arbuscula (Wallr.) Rabh. subsp. **beringiana** Ahti (*C. sylvatica* Auct. non (L.) Hoffm.)

ceratophyllina (Nyl.) Vain.

tenuiformis Ahti

Coccotrema Müll. Arg.

cucurbitula (Mont.) Müll. Arg. (= *Perforaria cucurbitula* (Mont.) Müll. Arg.)

Dictyonema (Ag.) Zahlbr.

sericeum (Sw.) Berk. (= *D. thelephora* Zahlbr.)

Graphina Müll. Arg.

cleistoblephara (Nyl.) Zahlbr. (= *G. subpublicaris* Zahlbr.)

Gymnoderma Nyl.

insulare Yoshim. et Sharp ("*G. coccocarpum* Nyl." *sensu* Wang & Lai in *Taiwania* 18(1): 91. 1973)

Haematomma Mass.

panicum (Sm. ex Ach.) Mass. subsp. **pacificum** Asah. ("*H. puniceum*" *sensu* Wang & Lai in *Taiwania* 18(1): 91. 1973)

Hypogymnia Nyl.

enteromorpha (Ach.) Nyl. form. **inactiva** (Asah.) Kurok.

hypotrypella (Asah.) Rass. (= *Parmelia hypotrypella* Asah.)

physodes (L.) Nyl. (= *Parmelia physodes* (L.) Ach.)

pseudophysodes (Asah.) Kurok. (= *Parmelia pseudophysodes* Asah.)

vittata (Ach.) Gas. (= *Parmelia vittata* Ach.)

Hypotrachyna (Vain.) Hale

endochlora (Leight.) Hale (= *Parmelia endochlora* Leight.)

formosana (Zahlbr.) Hale (= *Parmelia formosana* Zahlbr.)

koyaensis (Asah.) Hale (= *Parmelia koyaensis* Asah.)

laevigata (Smith) Hale subsp. **extremi-orientalis** (Asah.) J. R. Wang & M. J. Lai, *comb. nov.* (Basionym:

Parmelia laevigata (Smith) Ach. subsp. *extremi-orientalis* Asah.)

sinuosa (Smith) Hale (= *Parmelia sinuosa* (Smith) Ach.)

Icmadophila Trev.

ericetorum (L.) Zahlbr.

Leptogium (Dicks.) Nyl.

azureum (Sw.) Mont.

menziesii Mont.

Lobaria (Schreb.) Hoffm.

meridionalis Vain. var. **subplana** (Asah.) Yoshim. (= *L. pulmonaria* (L.) Hoffm. var. *meridionalis* (Vain.) Zahlbr. form. *subplana* Asah.)

orientalis (Asah.) Yoshim. (= *L. gyrophorica* Yoshim.)

- Megalospora** Mey. et Fut.
nipponensis Asah. (*M. sulphurata* Auct. non Mey. et Fut.)
- Menegazzia** Nyl.
asahinae (Yas.) Sant. (= *Parmelia asahinae* Yas.)
- Ochrolechia** Mass.
trochophora (Vain.) Oshio
- Pannaria** Del.
microphylla (Sw.) Mass. (= *Parmeliella microphylla* (Sw.) Müll. Arg.)
- Parmelia**
adaugescens Nyl.
adducta Nyl. (= *P. manilensis* Kurok.; = *P. spectabilis* Asah.)
clavulifera Räs. (*P. cetrata* Auct. non Ach.)
fertilis Müll. Arg. (= *P. subdivaricata* Asah.)
mellissii Dodge (= *P. arnoldii* Auct. non Du Rietz)
squarrosa Hale (*P. saxatilis* Auct. non (L.) Ach.)
subcrinita Nyl. (= *P. subinctoria* Zahlbr.)
- Peltigera** Willd.
leucophlebia (Nyl.) Gyel. form. *variolosa* (Mass.) Gyel. (= *P. aphthosa* (L.) Willd. var. *variolosa* (Mass.) Thamsen)
subincusa (Gyel.) Inum. (= *P. dolichorrhiza* Nyl. form. *subincusa* Gyel.)
- Platismatia** W. Culb. et C. Culb.
erosa W. Culb. et C. Culb. (= *Cetraria formosana* Zahlbr. var. *isidiata* Zahlbr.)
- Pilophorus** Th. Fr.
hallii (Tuck.) Vain. (= *P. japonicum* Zahlbr.)
- Ramalina** Ach.
sinensis Jatta (*R. asahinana* Zahlbr.)
- Relicina** (Hale et Kurok.) Hale
abstrusa (Vain.) Hale (= *Parmelia abstrusa* Vain.)
malesiana (Hale) Hale (= *Parmelia mafesitna* Hale)
planuscula (Kurok.) Hale (= *Parmelia planuscula* Kurok.)
subabstrusa (Gyel.) Hale (*Parmelia subabstrusa* Gyel.)
sydneyensis (Gyel.) Hale (= *Parmelia sydneyensis* Gyel.)
- Umbilicaria** Hoffm.
asiae-orientalis (Asah.) Sato (= *Lasallia asiae-orientalis* Asah.)
mayebarae Sato (= *Lasallia mayebarae* (Sato) Asah.)
pennsylvanica Hoffm.
- Usnea** P. Br. ex Adans.
aciculifera Vain.
pangiana Stirt. subsp. *hondoensis* (Asah.) Asah.

LITERATURE CITED

- WANG-YANG, J. R. & M. J. LAI, 1973. A checklist of the lichens of Taiwan. -*Taiwania* 18(1): 83-104.