

Musci novi papuani.

Descriptis

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Fissidens (Eufissidens) Kaernbachii Broth.; autoicus; gregarius; gracilis, viridis, haud nitidus; caulis ad 5 mm usque altus, infima basi radiculosus, radiculis longis, fuscis, dense foliosus, superne cum foliis 1,5 mm latus, simplex; folia usque ad 12-juga, patentia, homomallata, inferiora minora, superiora usque ad 1 mm longa, oblongo-lanceolata, acuta, minutissime crenulata, haud limbata, lamina vera lamina apicali paulum longior, lamina dorsalis ad basim nervi enata, nervo lutescente, flexuosa; infra summum apicem evanido, cellulis minutis, obscuris, rotundato-hexagonis, 0,007 mm diam., valde papillosis; seta terminalis, 3 mm alta, basi genuflexa erecta, superne cygnea, ubique scaberula, rubra; theca horizontalis, minuta, ovalis, deoperculata sub ore paulum constricta pallida, laevissima; peristomium simplex, dentibus 16, sanguineis ultra medium in cruribus duobus, filiformibus, papillosis fissis; operculum alte conicum, oblique acuminatum; calyptra cucullata, operculum obtegens; perigonum gemmiforme, axillare, bracteis paucis.

Nova Guinea, ad corticem arboris, Gogolexpeditio (L. KAERNBACH)

Ex affinitate *F. lagenarii* Mitt. et *F. scabriseti* Mitt. Ab hoc foliis haud limbatis, a illo nervo foliorum infra summum apicem evanido nec non seta scabriuscula recedit.

Arthrocormus subdentatus Broth.; dioicus; gracilis, caespitosus; caespitibus densiusculis, rigidis, viridi-albescentibus, haud nitidis; caulis ad 4 cm usque altus, adscendens, usque ad apicem radiculosus, radiculis longis, atro-purpureis, e basi dense foliosus, simplex vel superne ramosus; folia apice saepe radicantia, indistincte trifaria, e basi adpressa hyalina, elongata oblonga patenti-recurva, sensim linearis-ligulata, obtusa, 5 mm longa, integerrima, summo apice tantum multidenticulata, angustissima, limbata, enervia, areolatione in tota parte superiore, ut etiam in media baseos parte, multistratosa, cellulis superne rotundato-hexagonis, inferius rectangularibus, in baseos alis autem unistratosa, tenera, cellulis rectangularibus. Caetera ignota.

Nova Guinea, Butaueng et in insula Uole (L. KAERNBACH).

Ab *A. dentato* (Mitt.) C.-Müll. simillimo foliis linearis-ligulatis, obtusis, minutius enticulatis differt.

Lencophanes (Trachynotus) subscabrum Broth.; gracile, laxe caespitosum, caespitibus humilibus, albidis, haud nitidis; caulis vix ultra 5 cm altus, adscendens, basi longe radiculosus, e basi dense foliosus, implex; folia e basi adpressa, elongate oblonga, subvaginante, hyalina i subulam patulam, anguste lanceolatam producta, obtusa, 3 mm longa, imbricata, limbo basilari distincto, angusto, superne denticulis aculeiformibus ciliato, laminali indistincto, minute serrulato, nervo lato, crasso, subulam fere totam occupante, in tota parte laminali scaberrimo, cellulis asilaribus hyalinis, teneris, rectangularibus, superioribus quadratis. aetera ignota.

Nova Guinea, Butaueng (L. KAERNBACH).

A *L. scabro* (Mitt.) C. Müll. valde affini foliis obtusis, minutius denticulatis setulosis nervi humilioribus differt.

Diese Art verhält sich zu *L. scabrum* genau wie *Arthrocormus subdentatus* zu *dentatus*.

Calymperes Kaernbachii Broth.; dioicum; caespitosum, caespitibus arvis, humilibus, lutescenti-viridibus; caulis ad 8 mm usque altus, erectus, apice incurvatus, infima basi radiculosus, densiuscule foliosus, implex; folia sicca incurva, marginibus involutis, humida mollia, itula, e basi angustiore, semiamplexicauli elongate oblonga vel spathulato-oblonga, obtusa, ca. 2,5 mm longa et 0,57—0,66 mm lata, marginibus rectis, haud undulatis, integerrimis, haud limbata, nervo crasso, superne nudiore, infra summum apicem evanido, vel excedente, superne dilatato, aberrimo, subindeque filamentis conservoideis, fusiformibus, multiseptatis sciculatim obsesso, cellulis basilaribus interioribus laxis, subquadratis, anibus, laevissimis, marginalibus pluriseriatis, multo minoribus, quadratis, laevissimis, marginalibus pluriseriatis, multo minoribus, quadratis, levissimis, laminalibus minutis, rotundatis, chlorophyllosis, papillosis. aetera ignota.

Nova Guinea, in insula Uole (L. KAERNBACH).

A *C. Dozyano* Mitt., proximo, nervo superne scaberrimo nec non marginibus levibus basilaris foli integerrimis differt.

Splachnobryum Novae Guineae Broth.; dioicum; caespitosum, caespitibus densiusculis, sordide viridibus, nitidiuseculis; caulis ad 7 mm usque altus, erectus, basi parce radiculosus, inferne laxe, superne densiuscule foliosus, crassiusculus, strictus, rubens, simplex; folia pellucida, levigata, subplana, elongate oblonga, rotundato-obtusa, 1,5—1,75 mm longa et 0,47—0,51 mm lata, marginibus e basi ad medium folii vel apicem ultra revolutis, apice ob cellulas prominentes minutissime serrulatis, raro crassiusculo, infra apicem evanido, laevissimo, cellulis elongatis, levibus folii 0,125—0,149 mm longis et 0,045 mm latis, apicalibus tantum

brevioribus, omnibus laevissimis, parce chlorophyllosis; bracteae perichaetii foliis simillimae; seta 8 mm alta, erecta, tenuissima, sicca dextrorsum torta, pallide rubra, nitidiuscula, laevissima; theca erecta, plerumque arcuatula, asymmetrica, anguste cylindrica, 1,5 mm alta, sicca laevis, nitidiuscula, sub ore haud constricta, pallide fusca, ore rubiginosa, leptodermis. Caetera ignota.

Nova Guinea, Butaueng (L. KAERNBACH).

Species optima, foliorum forma et areolatione a ceteris speciebus generis facillime distinguenda.

Hookeria (Callicostella) pterygophylloides Broth.; synoica; valde complanata, cortice adpressa, cum foliis 2 mm lata, pallide glauca, vernicoso-nitidiuscula; caulis repens, per totam longitudinem hic illic radicans, radiculis fasciculatis, longis, fuscis, pinnatim ramosus, ramis patentissimis, ad 7 mm usque longis, paulum declinatis, obtusis; folia sicca haud mutata, pellucida, laevissima, lateralia patentissima, asymmetrica, oblonga, truncata, brevissime obtuse acuminata, marginibus erectis, e medio ad apicem serrulatis, haud limbata, nervis binis, distinctissimis, pallidis, e basi jam divergentibus, infra summum apicem abruptis, dorso superne remote denticulatis, cellulis laxis, rotundato-polygonis 0,020—0,025 mm longis et 0,045 mm latis, basilaribus longioribus, omnibus parce chlorophyllosis, laevissimis, inter media minora, adpressa, ovalia et ovali-ovata; bracteae perichaetii erectae, ovato-lanceolatae, minus serrulatae; seta 12 mm alta, erecta, strictiuscula, basi c. 0,2 mm crassa, purpurea, haud nitida, apice scabra; theca horizontalis, ovalis, brevicollis, cum collo c. 1,5 mm alta et c. 0,6 mm crassa, sub ore haud constricta, atropurpurea, nitidiuscula; peristomium normale; operculum rostratum, rostro recto, theca breviore; calyptora sordide pallida, multoties laciniata, apice scabra.

Nova Guinea, Gogolexpedition (L. KAERNBACH).

Species pulcherrima, habitu pterygophylloideo primo visu distinguenda.

Thuidium subbifarium Broth.; dioicum; caespitosum, caespitibus laxis, laete viridibus, rigidiusculis; caulis elongatus, reptans, interrupte radiculis substrato adfixus et alternatim arcuatim assurgens, divisionibus bipinnatis, pinnis vix ultra 6 mm longis, strictiusculis, pinnulis brevissimis, strictis, complanatis; folia caulina remota, patula, e basi dilatata, subcordata triangularia, in subulam longissimam, piliformem, articulatam attenuata, marginibus basi revolutis, superne ob cellulas prominentes minutissime crenulatis, nervo viridi, in basi acuminis desinente, cellulis minutis, rotundatis, pellucidis, minute papillosis, ramulina disticha, patula, subplana, oblonga, acuta, marginibus crenulatis, nervo pallido, infra apicem desinente, cellulis minutis, rotundis, papillosis, obscuris, paraphyllia numerosa, simplicia vel ramosa. Caetera ignota.

Nova Guinea, Gogolexpedition (L. KAERNBACH).

A *Th. bifario* Br. Jav. simillimo statura robustiore cellulisque foliorum ramulinorum
bscuris, minoribus differt.

Diese Art steht freilich dem *Th. bifarium* sehr nahe, unterscheidet sich doch durch
leinere, undurchsichtige Blattzellen. Wahrscheinlich werden sich neue Merkmale bei
ruchtexemplaren finden.

Th. pelekioides Broth.; autoicum; caespitosum, caespitibus de-
ressis, densis, glaucescenti-viridibus, aetate fuscescensibus; caulis elon-
atus, reptans, interrupte radiculis substrato adfixus et alternatim arcuatim
ssurgens, divisionibus dense bipinnatis, pinnis vix ultra 6 mm longis, vix
arcuatulis, pinnulis densis, subaequalibus, brevissimis, strictis, complanatis;
olia caulina remota, e basi erecta patula, latissime subcordato-triangu-
aria, longe acuminata, marginibus e basi usque supra medium revolutis,
tegerrimis vel valde indistincte crenulatis, nervo viridi, in parte superiore
acuminis evanido, cellulis pellucidis, parce papilloso, minutis, rotundatis,
amulina disticha, patentia, ovata, obtusiuscula, marginibus ubique crenu-
atis, nervo pallido, infra apicem evanido, cellulis pellucidis, dorso grosse
papillosis, rotundatis; bracteae perichaetii albidae, patentes, e basi
truncata sensim longe lanceolato-subulatae, integrae, nervo crassiusculo,
fuscente, piliformiter excedente, cellulis elongatis, laevissimis; seta ad
5 cm usque alta, basi geniculata, flexuosa, basi 0,18 mm crassa, pallide
rubra, ubique scaberrima; theca horizontalis, deoperculata subpendula,
symmetrica, ovalis, collo sporangio subaequilongo, fusca, laevissima;
peristomium duplex; exostomii dentes lanceolato-subulati. c. 0,4 mm
longi et 0,6 mm lati, lutei, densissime striolati, dense et alte lamellati,
ne media exarati, apice hyalini, papilloso; processus endostomii dentibus
subaequilongi, carinati, anguste perforati, papilloso, cilia bina, in uno
calita, elongata, hyalina, papillosa; spori 0,009—0,040 mm, obscure
rides, laeves; operculum rostratum, rostro thecae fere longitudinis;
elytra cucullata, albida, laevissima.

Nova Guinea, Gogolexpedition (L. KAERNBACH).

Hypnum (Rhynchostegium) fissidentoides Broth.; dioicum? pro-
eratum, valde complanatum, laete viride, nitidiusculum; caulis per
tam longitudinem substrato adpressus, dense pinnatim ramosus, ramis
pallide complanatis, cum foliis 2 mm lati, vix ultra 3 mm longis, strictis,
dense foliosis, obtusis; folia disticha, secca vix mutata, patula, planius-
cula, elongata lanceolata, longe acuminata, acumine subinde torto, c. 4,2 mm
longa et c. 0,28 mm lata, marginibus erectis, ubique serrulatis, nervo
nervi, ad vel ultra medium evanido, cellulis elongatis, utrinque acuminatis,
rare chlorophyllosis, laevissimis; bracteae perichaetii e basi sub-
ginante longe acuminatae, remote denticulatae, pellucidae, enerves;
sta brevis, 5 mm alta, pallide rubra, laevissima; theca cernua, ovalis,
scindula, laevis; peristomium normale; operculum ignotum.

Nova Guinea, ad corticem arboris, Gogolexpedition (L. KAERNBACH).

Trichosteleum (Sigmatella) Kaernbachii Broth.; autoicum; tenellum, caespitosum, caespitibus densis, depressis, cortici adnatis, sordide viridibus, aetate lutescenti-viridibus, haud nitidis; caulis per totam longitudinem repens, dense et regulariter pinnatus, ramis valde complanatis, cum foliis 1 mm latis, brevissimis, vix ultra 3 mm longis, patentissimis, rectis, obtusis, dense foliosis; folia disticha, patula, concaviuscula, ovato-lanceolata, breviter acuminata, c. 0,66 mm longa et c. 0,22 mm lata, marginibus erectis, ubique serrulatis, enervia, cellulis linearibus, flexuosulis, dense seriatim papillosis, basilaribus brevioribus et laxioribus, alaris vix distinctis; bracteae perichaetii e basi vaginante loriformi-attenuatae, pellucidae, haud papillose, laxius reticulatae, subintegræ; seta 6 mm alta, erecta, strictiuscula, tenuis, rubra, laevissima; theca horizontalis, minuta, brevissime ovalis, brevicollis, macrostoma, basi sub-tuberculosa, haud nitida, fusca; peristomium duplex; exostomii dentes lutescentes, lanceolato-acuminati, 0,25 mm longi et 0,05 mm lati, densissime striolati, dense et altissime lamellati, linea media notati, papillosi, apice albidi et scabridi; endostomium sordide flavidulum, papillosum, ciliis singulis. Caetera ignota.

Nova Guinea, Gogolexpedition (L. KAERNBACH).

A *T. isoclado* (Br. Jav.), proximo, statura multo minore, foliis brevius acuminatis, serrulatis nec non cellulis alaris vix ulla differt.

Ectropothecium tophigerum Broth.; gracile, complanatum, caespitosum, caespitibus extensis, laete viridibus, nitidis, basi topha calcarea ob-rutis; caulis elongatus, flexuosus, parce radiculosus, dense foliosus, regulariter pinnatus, ramis complanatis, cum foliis 1—1,5 mm latis, 5—7 mm longis, arcuatulis, dense foliosis; folia disticha, vix subsecunda, patentia, ovato-lanceolata, plus minusve longe acuminata, marginibus erectis, ubique serrulatis, enervia, cellulis laxe prosenchymaticis, rhomboideis, medii folii 0,05—0,06 mm longis et 0,007—0,008 mm latis, parce chlorophyllosis, laevissimis; bracteae perichaetii e basi late vaginante in subulam longissimam, reflexam, integerrimam subito contractae; seta 2,5 cm alta, flexuosa, rubra, laevissima; theca nutans, ovato-urceolata, sub ore haud constricta. Caetera ignota.

Nova Guinea, Butaueng (L. KAERNBACH).

Ab *E. reticulato* (Doz. Molk.), cui ob areolationem simillimam sit comparandum, foliis serrulatis, brevius et latius acuminatis prima scrutatione distinguitur.

Ectropothecium loricatifolium (C.-Müll.) Broth. — Syn. *Hypnum (Vesicularia) loricatifolium* C.-Müll. in litt. Autoicum; planissimum, cortici adpressum, pallide viride, vernicoso-nitidum; caulis crassus, elongatus, flexuosus, per totam longitudinem radiculosus, dense foliosus, dense et regulariter pinnatus, ramis valde complanatis, cum foliis 2—3 mm latis, 6—10 mm longis, dense foliosis, arcuatulis, obtusis; folia disticha, patula, firma, secca haud mutata nec introrsum inflectentia, caviuscula, asym-

metrica, ovato-ovalia, obtusiuscula vel apiculo brevissimo terminata, marginibus erectis, apice serrulatis, enervia, cellulis firmis elongate et laxe homboideis, parce chlorophyllosis, laevissimis; bracteae perichaetii basi convolutaceae longe acuminatae, parce denticulatae vel subintegrae; seta 2,5 cm alta, crassiuscula, flexuosula, pallide rubra, laevissima; theca utans, breviter ovalis, fuscidula, vix nitida laevis; peristomium E. inlectentis; operculum breviter conicum.

Nova Guinea, Gogolexpedition (L. KAERNBACH).

Species puleherrima, ab *E. inflectante* (Brid.) foliis firmis, siccis immutatis nec inectentibus, ovato-ovalibus, obtusiusculis vel apiculo brevitissimo terminatis nec non operculo conico optime diversa.

Ectropothecium plano-fallatum Broth.; antoicum; caespitosum, caespitibus densiusculis, depressis, pallide lutescenti-viridibus, nitidis; caulis repens, per totam longitudinem radiculosus, dense foliosus, dense regulariter pinnatus, namis dorso applanatis, 2—5 mm longis, strictis, dense foliosis; folia falcata, concaviuscula, ovato-lanceolata, anguste acuminata, marginibus erectis, ubique denticulatis, cellulis elongatis, angustisimis, basilaribus infimis brevioribus et laxioribus, omnibus laevissimis, nervis brevissimis, binis, lutescentibus vel obsoletis; bracteae perichaetii externae minores, ovato-acuminatae, internae majores, e basi originante longe acuminatae, subintegrae vel parce denticulatae, enervas; seta 12 mm alta, flexuosula, basi 0,12 mm crassa, pallide rubra, laevissima. Altera ignota.

Nova Guinea, ad corticem arborum, Gogolexpedition (L. KAERNBACH).

Species *E. sodali* (Sull.) Mitt. affinis, sed paulum robustior, rigidior, ramis magis planatis.

Die Originale der oben beschriebenen Arten befinden sich im Königl. Staat. Museum zu Berlin.

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Zeitschrift/Journal: [Botanische Jahrbücher für Systematik,
Pflanzengeschichte und Pflanzengeographie](#)

Jahr/Year: 1893

Band/Volume: [17](#)

Autor(en)/Author(s): Brotherus Viktor Ferdinand

Artikel/Article: [Musci novi papuanii 476-481](#)