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[Appendix]

# DESCRIPTIVE NOTES ON PAPUAN PLANTS,

BY

BARON FERD. VON MUELLER, C.M.G., M. & PH.D., F.R.S.

## APPENDIX.

Papuan Plants, recorded by Blume, Miquel and Scheffer, not yet mentioned specifically in the foregoing pages.

### NYPHÆACEÆ.

*Nymphaea gigantea*, Hook. Bot. Magaz. 4647.

### ANONACEÆ.

*Polyalthia hirta*, Benth. et Hook. Gen. Pl. i. 956; *Monoon hirtum*, Miq. Annal. ii. 16.

*Polyalthia macropoda*, Benth. et Hook. l. c.; *Monoon macropodum*, Miq. l. c.

*Polyalthia chloroxantha*, Benth. et Hook. l. c.; *Monoon chloroxanthum*, Miq. l. c.

*Polyalthia glauca*, Benth. et Hook. l. c.; *Monoon glaucum*, Miq. l. c.

*Uvaria Rosenberiana*, Scheff. Ann. Jard. Buit. 2.

*Popovia Novo-Guineensis*, Miq. Ann. ii. 21.

*Orophea ovata*, Scheff. Ann. Jard. Buitz. i. 3.

*Orophea aurantiaca*, Miq. Ann. ii. 25.

*Goniothalamus longirostris*, Scheff. Jard. Buitz. 4.

*Goniothalamus caloneurus*, Miq. Ann. ii. 34.

*Artabotrys inodora*, Zipp. in Miq. Ann. ii. 41.

*Phacanthus nutans*, J. Hook. et Thoms. Flor. Ind. i. 147.

## MYRISTICÆ.

- Myristica subcordata*, Bl. Rumph. 186.  
*Myristica fatua*, Hoult. Nat. Hist. ii. 337.  
*Myristica tubiflora*, Bl. Rumph. 182, t. 56.  
*Myristica subalulata*, Miq. Ann. ii. 47.  
*Myristica lepidota*, Bl. Rumph. 183, 57.  
*Myristica morindifolia*, Bl. l. c. 186.  
*Myristica nesophila*, Miq. Ann. ii. 49.  
*Myristica pinnæformis*, Zipp. in Miq. Annal. ii. 49.  
*Myristica Aruana*, Bl. l. c. 191.  
*Myristica Zippeliana*, Miq. l. c. 50.  
*Myristica subtilis*, Miq. l. c. 50.  
*Myristica Papuana*, Scheff. Annal. du Jard. Bot. de Buitenz. 46.

## MENISPERMÆ.

- Stephania Zippeliana*, Miq. Annal. iv. 86.  
*Pycnarrhena Novo-Guineensis*, Miq. l. c. iv. 88  
*Chlœnandra ovata*, Miq. l. c. iv. 84.  
*Anamirta paniculata*, Colebr. in Transact. Linn. Soc. xiii. 52.

## LAURACÆ.

- Hernandia Sonora*, L. Sp. Pl. 981.  
*Cinnamomum xanthoneurum*, Bl. in Tijdschr. vor Naturgesch. i. 66.  
*Beilschmiedia caloneura*, Scheff. Annal. du Jardin. Bot. de Buit. 47.  
*Tetranthera obscura*, Bl. Mus. Bot. i. 386.  
*Tetranthera macrophylla*, F. v. M.; *Cylicodaphne macrophylla*, Bl. Mus. Bot. Lugd. ii. 14.  
*Tetranthera amara*, Nees Syst. Laur. 551.  
*Litsœa latifolia*, Bl. Mus. Bot. i. 349.

## CAPPARIDÆ.

- Capparis Zippeliana*, Miq. Illustr. de Flor. de l'Archip. Ind. 25 xiv.

## PITTOSPOREÆ.

- Pittosporum chelidospermum*, Bl. Mus. Bot. Lugd. i. 160, fig. 33  
*Pittosporum Novo-Guineense*, Miq. Illustr. 79.  
*Pittosporum sinuatum*, Bl. l. c.  
*Pittosporum Rumphii*, Putterl. Synops. Pittospor. 7.

POLYGALACEÆ.

*Polygala hyalina*, Benth. et Hook. Gen. Plant. i. 974.

TERNSTRÆMIACEÆ.

*Saurauja brevirostris*, Zipp. in Miq. Annal. iv. 106.

*Saurauja altissima*, Zipp. in Miq. Annal. iv. 108.

*Saurauja tristyla*, Cand. Memoir. Soc. Genev. i. 420.

*Saurauja Novo-Guineensis*, Scheff. Annal. du Jard. Buit. i. 7.

*Saurauja monadelpha*, Scheff. l. c. 8.

*Eurya trichocarpa*, Korthals in Verh. Nat. Gesch. Bot. 114.

DIPTEROCARPEÆ.

*Anisoptera polyandra*, Bl. Mus. ii. 42.

GERANIACEÆ.

*Impatiens latifolia*, L. Sp. Pl. 937.

*Impatiens Zippelii*, Miq. Illustr. de Flore de l'Archipel Indien, 94.

TILIACEÆ.

*Elæocarpus edulis*, Teysm. et Binn. Nat. Tijdschr. Ned. Ind. xxvii. 25.

CELASTRINÆ.

*Salacia prinoïdes*, Cand. Prodr. i. 571.

*Salacia sororia*, Miq. Annal. iv. 151.

*Hippocratea pauciflora*, Miq. Ann. iv. 154.

*Hippocratea Zippeliana*, Miq. Ann. iv. 153.

RUTACEÆ.

*Melanococca tomentosa*, Bl. Mus. i. 236.

SIMARUBEÆ.

*Soulamea amara*, Lam. Dict. i. 449.

ANACARDIACEÆ.

*Semecarpus Cassuvium*, Spreng. Syst. i. 936.

*Odina speciosa*, Miq. Ann. iv. 623.

*Mangifera Taipan*, Hamilt. in Transact. Wern. Soc.  
*Mangifera mucronulata*, Bl. Mus. Bot. i. 201.

## BURSERACEÆ.

*Canarium rigidum*, Zipp. in Miq. Fl. Ind. Batav. i. part ii. 648.  
*Canarium asperum*, Benth. in Hook. Lond. Journ. ii. 215.  
*Canarium angustifolium*, Bl. Mus. Bot. Lugd. i. 226.  
*Ganophyllum falcatum*, Bl. Mus. Bot. i. 230.

## THYMELEÆ.

*Drymispermum wrens*, Reinw. Sylloge in der Regensb. Bot. Zeit.  
 1828, 15, t. 2.  
*Drymispermum macrocarpum*, Scheff. Annal. du Jard. de Buit. 46.

## RHAMNACEÆ.

*Smythea Novo-Guineensis*, Scheff. Annal. du Jard. Bot. de Buitenzorg, i. 14.

## NYCTAGINEÆ.

*Pisonia Brunoniana*, Endl. Prodr. Flor. Insul. Norfolk, 43.  
*Pisonia cauliflora*, Scheff. Observ. Phytogr. iii. 95.

## CASUARINEÆ.

*Casuarina equisetifolia*, R. et G. Forst. Char. Gen. Plant 103, t. 52.

## PIPERACEÆ.

*Piper fragile*, Benth. in Hook. Journ. ii. 234.  
*Piper Barclayanum*, Cas. de Cand. Prodr. xvi. 336.  
*Piper caninum*, Blume in Verh. der Bot. Genootsch. xi. 214.  
*Piper Forstenii*, Cas. de Cand. Prodr. xvi. 348.  
*Piper methysticum*, G. Forst. Plant. Escul. 76.

## ROSACEÆ.

*Rubus Moluccanus*, L. Sp. Pl. ed. sec. 707.

MELASTOMACEÆ.

*Osbeckia Australiana*, Naud. in *Annal. des Scienc. Nat. ser. trois.*  
xiv. 59.

*Melastoma Malabathricum*, L. *Sp. Pl.* 390.

*Medinilla bracteata*, Bl. *Bijdr.* 219.

*Medinilla Papuana*, Scheff. *Ann. du Jard. Bot. de Buitenz.* 24.

*Astronia macrophylla*, Bl. *Bijdr.* 1080.

*Memecylon pauciflorum*, Bl. *Mus. Bot.* 257.

RHIZOPHOREÆ.

*Cerriops Candolleana*, Arnott in *Annals of Nat. Hist.* i. 363.

*Kandelia Rheedei*, Wight et Arn. *Prodr.* i. 310.

*Rhizophora conjugata*, L. *Sp. Pl.* 443.

*Rhizophora mucronata*, Lam. *Dict.* vi. 169.

HAMAMELIDEÆ.

*Liquidambar Altingia*, Bl. *Fl. Javæ*, 8, t. 1-2.

SAMYDACEÆ.

*Casearia salacioides*, Bl. *Mus. Bot. Lugd.* i. 252.

*Casearia clutiaefolia*, Bl. l. c. 255.

CUCURBITACEÆ.

*Melothria Rumphiana*, Scheff. *Ann. du Jard. Bot. de Buitenz.* 25.

LORANTHACEÆ.

*Viscum orientale*, Willd. *Sp. Pl.* iv. 737.

*Loranthus verticillatus*; *Dendrophloe verticillata*, Scheff. l. c. 27.

CAPRIFOLIACEÆ.

*Lonicera Chinensis*, Wats. *Dendr. Brit.* t. 117.

*Viburnum Zippelii*, Miq. *Flor. Ind. Bat.* ii. 122.

LOGANIACEÆ.

*Geniostoma Lasiosomon*, Bl. *Mus. Bot.* i. 239, fig. xxxv.

*Fagraea volubilis*, Jack. in Roxb. *Fl. Ind.* ii. 36.

- Fagraea coarctata*, Bl. Rumph. ii. 33.  
*Fagraea rostrata*, Bl. Mus. Bot. i. 168.  
*Fagraea cuspidata*, Bl. Mus. Bot. i. 170.

## BIGNONIACEÆ.

- Tecoma dendrophila*, Blume Rumphia, iv. 35, t. 190.  
*Tecoma leptophylla*, Bl. l. c.  
*Tecoma Ceramensis*, Teysm. et Binn. in Miq. Annal. i. 197.

## CONVOLVULACEÆ.

- Ipomœa dissecta*, Willd. Sp. Pl. i. 880.  
*Lepistemon flavescens*, Bl. Bijdr. 722.

## ACANTHACEÆ.

- Ruellia repanda*, L. Sp. Pl. ed. sec. 886.  
*Peristrophe tinctoria*, Nees in Wall. Plant. Asiat. Rarior, iii. 103.

## MYRSINÆÆ.

- Ægiceras floridum*, Rœm. et Schult. Syst. Veg. iv. 512.

## SAPOTACEÆ.

- Chrysophyllum Javanicum*, Steud. Nomencl. Bot. ed. secund. 359.  
*Payenia Bawun*, Scheff. Annal. du Jard. de Buit. 33.  
*Lucuma Cocco*; *Bassia Cocco*, Scheff. l. c. 34.

## OLEACEÆ.

- Chionanthus ramiflorus*, Roxb. Fl. Indica, i. 107.

## ASCLEPIADEÆ.

- Tylophora cuspidata*, Zipp. in Annal. des Scienc. Nat. ix. 274, t. 10.  
*Hoya Ariadna*, Decaisne in Cand. Prodr. viii. 635.  
*Hoya apiculata*, Scheff. Annal. du Jard. de Buitenz. 37.

## PANDANACEÆ.

- Nipa fruticans*, Wurm in Verh. Batav. Genootsch. i. 349.

## AROIDÆ.

- Cryptocoryne ciliata*, Fisch. in Schott. Melet. 16.  
*Amorphophallus campanulatus*, Bl. in Annal. du Mus. iii. 366.  
*Xenophya brancifolia*, Schott. in Miq. Annal. i. 124.  
*Rhaphidophora amplissima*, Schott. l. c. 129.  
*Rhaphidophora Zippeliana*, Schott. l. c.  
*Pothos Zippelii*, Schott. l. c. 131.

## SCITAMINEÆ.

- Heliconopsis Amboinensis*, Miq. Fl. Ind. Batav. iii. 590.  
*Alpinia pubiflora*, Benth.; *Hellenia pubiflora*; Benth. in Hook. Lond. Journ. ii. 235.  
*Alpinia macrantha*, Scheff. Annal. du Jard. Bot. de Buit. 56.  
*Alpinia Papuana*, Scheff. l. c.  
*Hedychium lanatum*, Scheff. l. c. 57.  
*Phrynium maximum*, Bl. Enum. i. 37.  
*Phrynium capitatum*, Willd. Sp. Pl. i. 17.  
*Phrynium giganteum*, Scheff. l. c. 58.

## DIOSCORIDÆ.

- Dioscorea vulgaris*, Miq. Fl. Ind. Batav. iii. 572.

## AMARYLLIDÆ.

- Crinum Asiaticum*, L. Sp. Pl. 292.

## COMMELYNACEÆ.

- Forrestia hispida*, Ach. Rich. Voy. D'Astrol. Bot. ii. 2, t. 1.  
*Pollia thyrsoflora*, Endl. Gen. Plant. 125.

## PALMACEÆ.

- Areca macrocalyx*, Zipp. Bijdr. Nat. Wetens. v. 178.  
*Kentia procera*, Bl. Rumph. ii. 94, tab. 106, 160.  
*Orania regalis*, Zipp. in Alg. Kunst-en Letterb. 1829, p. 285.  
*Ptychosperma angustifolia*, Bl. Rumphia, l. c.  
*Ptychosperma oliviformis*, Mart. l. c. ii. 122, t. 156.  
*Ptychosperma appendiculata*, Bl. Rumphia, ii. 122, t. 84 et 119.  
*Ptychosperma communis*, Miq. Fl. Ind. Bat. iii. 31.

- Caryota furfuracea*, Bl. in Mart. Palm. 195.  
*Licuala pendentiflora*, Zipp. in Bijdr. Nat. Wet. v. 178.  
*Licuala Rumphii*, Bl. Rumph. ii. 41, t. 89.  
*Cocos nucifera*, L. Sp. Plant. 1188.  
*Korthalsia Zippelii*, Bl. Rumph. 171, t. 130.  
*Calamus barbatus*, Zipp. in Bijdr. Nat. Wet. v. 178.  
*Calamus heteracanthus*, Zipp. l. c.  
*Metroxylon Rumphii*, Mart. Palm. 214 et 313, tab. 102 et 159.  
*Metroxylon flare*, Mart. Palm. 216 et 343.

## EQUISETACEÆ.

- Equisetum debile*, Roxb. in Vauch. Monograph. des Presles, 1822.  
*Equisetum diffusum*, D. Don, Prodr. Fl. Nepal. 19.

## FILICES.

*Aspidium invisum*, Swartz Synops. Filic. 48. Port Moresby; Rev. Dr. Turner.

*Aspidium Leuzeanum*; Kunze in der Bot. Zeit. xiv. 474. Fly-River; D'Albertis.

Both these ferns have been named by Mr. Baker at Kew, who had access to authentic material.

## LICHENASTRA.

- Plagiochila Novæ Guineæ*, Lacoste in Miq. Annal. i. 292.  
*Plagiochila Zippelii*, Lacoste, l. c. 293.  
*Chiloscyphus Zollingeri*, Gottsche in Natuurk. Tijdschr. v. Nederl. Indie, 1853, 576.  
*Thysananthus comosus*, Lindenb. in Lehm. Pugill. viii. 25.  
*Phragmicoma polymorpha*, Lacoste in Nederland. Kruidk. Arch. iii. 420.  
*Frullania Billardieriana*, Nees et Mont. in Annal. des Scienc. Nat. 1843, 256.  
*Frullania Zippelii*, Lacoste in Miq. Annal. i. 313.



## ADDITION.

## LEGUMINOSÆ.

## ACACIA HOLOSERICÆA.

All. Cunn. in G. Don's Gen. Syst. of Dichlam. Pl. ii. 407.

Geelvink-Bay, Beccari ; Fly-River, D'Albertis ; Baxter's River, Reedy.

This Papuan acacia is here drawn doubtfully to Cunningham's tropical Australian plant, as the spikes have been seen only in a very young state and no fruits have as yet been gathered in New Guinea. Moreover the Papuan plant is almost glabrous, its phyllodia are towards the summit more narrowed, and the lower confluence of their nerves is not usually at or near but somewhat remote from the edge ; it shows however the same short peduncles and manifest petioles as those of *A. holosericea*, by which means it is removed from *A. latifolia*. The fact, that Dr. Beccari gathered *A. Simsii* also at Humboldt's Bay, proves that more than one Australian acacia extends to the north coast of New Guinea. But another question arises, whether the Papuan plant is combinable with *A. Mangium* (W. Sp. Pl. iv. 1053) as Bentham (Transact. Linn. Soc. xxx. 495) and also Beccari suppose. Rumph (Herbar. Amboin. iii. 123) describes the phyllodia 5 inches long and  $1\frac{1}{2}$  inches (by miswriting  $1\frac{1}{2}$  foot) broad, which accords with the Papuan plant, although he gives the size of the seeds smaller than flax-seeds ; his seemingly reduced figure leaves the question in doubts, which only can be solved by researching for the typical plant at the little islands close to Amboina. The short distance from thence to New Guinea speaks for the identity.

A third phyllodineus acacia occurs on the Fly-River and Baxter's River, with foliage not unlike that of *A. polystachya*, *A. tumida*, *A. crassocarpa* and *A. auriculiformis*, but neither flowers nor fruits have been obtained.

Mr. Allan Hughan gathered *A. spirorbis* (Labill. Sert. Austro-Caled. t. 69) or an allied species in the Loyalty-Islands, but in foliage only.



## MYRTACEÆ.

## TRISTANIA MACROSPERMA.

Leaves scattered or few of the upper opposite, oval-lanceolar, soon glabrous; cymes paniculate; peduncles, pedicels and petioles as well as the young branchlets finely tomentose; lobes of the calyx deltoid, hardly half as long as the tube, the latter almost glabrous; *base of the petals and the short connate portions of the stamens finely downy*; filaments in each bundle 11-13; stigma hardly broader than the style; *valves of the capsule half exerted*; *fertile seeds winged at one end* as well as the sterile ones large and flat.

Geelvink-Bay; Dr. Beccari.

Well developed leaves 2-3 inches long, unless the upper ones smaller, attenuated into a slender petiole of  $\frac{1}{2}$  an inch or less length; pellucid punctures hardly visible. Panicles trichotomous, terminal. Pedicels mostly shorter than the calyx; tube of the latter while petal-bearing about  $1\frac{1}{2}$  line long. Petals scarcely above 1 line broad, their color probably white or pale. Stamens longer than the petals; their united portion shorter than the filaments; anthers roundish-oval, versatile, opening by anterior longitudinal slits. Style capillary, about 2 lines long. Fruit three-valved, 3-4 lines high. Seeds forming one circular row, 11 or less in each cell, pendent from the placentas which terminate the finally seceding central column, filling the cavity to the bottom, both fertile and sterile of about equal size, brown, oval-semiorbicular,  $1\frac{1}{2}$ - $2\frac{1}{2}$  lines long.

In external appearance the Papuan species resembles much *T. suaveolens* (Sm. in Rees's Cycl. 1817); but the base of the petals and stamens is not unbearded, the number of filaments in each bundle is less, the stigma is not peltate-dilated, the fruit-valves are not remaining in height equal with the calyx tube, while the seeds are much less numerous, much larger and neither spreading nor very slender, but the fertile ones provided with a membranous appendage. Whether considerable distinctions exist in bark and wood, remains to be ascertained. In some respects the approach of this new plant is nearer to *T. exiliflora* (F. v. M. Fragm. v. 11), notwithstanding the narrower leaves, the minute flowers, paucity of stamens and turgid and shorter seeds of the latter. Among Indian congeners the Papuan one differs from *T. obovata* (Bennett in Horsf. Pl. Javan. Rarior, 127, t. xxvii.) in acute leaves, longer petioles, larger

flowers, more numerous stamens, broader capsule and much broader seeds, which latter however are arranged like those of *T. macrosperma*. *T. rufescens* (Hance in Trimen's Journal of Bot. 1876, p. 259) from Camboja is easily distinguished by its vestiture and fewer stamens. The New Caledonian species, as far as known to me, namely *T. Guillamii* (Veill. Coll. 2221), *T. Callobuxus* (Benth. et Hook. Gen. Pl. i. 709), *T. glauca* (Brogn. et Gris; Panch. n. 70, Veill. n. 907), *T. capitulata* (Panch. in Annal. des Scienc. Nat. ser. cinq. ii. 130) and *T. Veillardii* (Brogn. et Gris; Veill. 2179) are all except the one last mentioned very distinct from the Papuan species; *T. Veillardii* differs however in blunt leaves somewhat decurrent into the petiole, in smaller flowers, obtuse lobes of the calyx, stamens not exceeding the petals and perhaps its fruit, which I have not seen. *T. Burmanica* (Griff. Plant. Cantor, 49) is not available to me for comparison.

It may be here incidentally remarked, that the *Melaleuca pungens* of Brogn. et Gris, l. c. 139, has to change its specific name, which is pre-occupied by a West-Australian plant (Schauer in Lehm. Pl. Preiss. i. 138); the New Caledonian species might be named *M. Brogniartii* in memory of the great savant, who recently passed away from his luminous career, and who so largely elucidated the New Caledonian vegetation.

That the length of the stamens is not of absolute generic value in Myrtaceæ became demonstrated by the extreme shortness of the filaments of some species of *Tristania* and also of *Eucalyptus* and other cognate genera; hence it is advisable to transfer all the *Cleozias* to *Metrosideros*. In the latter genus occur species with a five-celled ovary.

#### MYRTELLA.

*Lobes of the calyx* 5, almost valvate before expansion, not scarious, as long or somewhat shorter than the petals. *Stamens uniseriate, free*, about 30, scarcely longer than the lobes of the calyx. Cells of the anthers slit longitudinally. Style short. Stigma very minute. *Ovary three-celled; ovules few or several* in each cell, affixed to the axillary placentas. Fruit unknown. Papuan shrubs with small opposite leaves, axillary solitary small flowers and long-persistent bracteoles. The absence of ripe fruits renders it impossible to designate even the tribe of Myrtaceæ, into which this genus should be placed, whether Bæckeaceæ or Myrteæ; meanwhile the characteristics of the genus rest mainly on the nearly valvular peflorescence of the calyx.

## MYRTELLA BECCARII.

Young branchlets slightly downy; *leaves oblong-elliptical, glabrous* except their very obtuse base, on exceedingly short stalks, slightly recurved at the margin; flower-stalklets several times shorter than the leaves; bracteoles seated at the base of the calyx, linear; tube of the calyx shorter than the bracteoles and hardly as long as the lobes; petals scarcely longer than the calyx-lobes; *ovary with few ovules in each cell.*

Humboldt's Bay; Dr. Beccari.

Shrub with the habit of a *Bæckea* or a *Thryptomene*. Branchlets numerous and spreading. Leaves chartaceous, hardly 3 lines long, shining above, paler beneath, copiously dotted, spreading. Pedicels about 1 line long. Bracteoles measuring  $1\frac{1}{2}$ –2 lines in length. Lobes of the calyx semilanceolar, 1 line long or little longer, ciliolate; tube comparatively broad, quite smooth, turgid. Petals subtle-downy, oval. Filaments capillary; anthers roundish, with a conspicuous connective. Style about 1 line long. Stigma hardly dilated. Young fruit semiovate.

## MYRTELLA HIRSUTULA.

*Leaves oval-lanceolar, at the lower page as well as the branchlets and calyces densely hairy*, their surface beset with scattered hair; petals nearly twice as long as the calyx-lobes, ovules several or many in each cell.

On Mount Arfak, at a height of 5–6,000 feet; Dr. Beccari.

A shrub with the habit of a small *Myrtus*. Indument of branchlets and underside of the leaves almost brownish-tomentose. Leaves  $\frac{1}{3}$ – $\frac{1}{2}$  inch long, thinly coriaceous. Flowers described from a sketch of Dr. Beccari, who found the anthers cordate and the ovules ascendent and anatropal.

Dr. Beccari's collection contains another remarkable myrtaceous plant, with the habit of a *Psidium*, probably referable to the genus *Eugenia*, but of which the fruit remains unknown. The only flower available for examination showed 8 petals, being double the number of the calyx-lobes. Unless this augmentation arose from monstrous growth, we obtain a species abnormal not only in the genus *Eugenia* (and to which the name *E. pleiopetala* might be given), but also in the whole order of *Myrtaceæ*, except *Gustavia*. The leaves are oval and 2–3 inches long; the flowers are solitary, axillary and placed on very short peduncles; the

four lobes of the calyx are almost renate and much overlapping; the petals are oval or oblong and nearly 1 inch long; the stamens number about 30, and the rather narrow ovary reminds of that of *Myrtus* (*Rhodomyrtus*) *macrocarpa*.

BÆCKEA FRUTESCENS.

Linné Sp. Pl. 358.

Geelvink-Bay; Beccari.

CRASSULACEÆ.

BRYOPHYLLUM CALYGINUM.

Salisb. Paradis. Londin. t. 3.

A cultivated plant, obtained in New Guinea during Capt. Moresby's discovery-voyage was sent to me by Richard Merricks, Esq., of the Naval Depot of Auckland.

CUCURBITACEÆ.

ALSOMITRA HOOKERI.

F. v. M. Fragm. vi. 188.

Audai; Dr. Beccari.

The staminate plant, which alone I have seen, accords with Queensland specimens. The tendrils are often bifid. The uniformly three-lobed calyx, exceptional in the order of Cucurbitaceæ, distinguishes mainly, if not solely, *Alsomitra* from *Zanonia*, inasmuch as simple and compound leaves occur also in *Momordica*, *Anguria*, *Trianosperma* and *Cyclanthera*.

EPACRIDEÆ.

STYPHELIA TROCHOCARPOIDES.

Mount Arfak, at a height of about 6,000 feet; Dr. Beccari.

This is the first epacrideous plant, rendered known from New Guinea, though in all likelihood others will yet be detected there in the higher mountain-regions. The finder obtained neither flowers nor fruit, but the foliage leaves no doubt about the ordinal position of the plant, although its generic place remains thus uncertain. The leaves are scattered, lanceolar, gradually long-acuminated, flat, shining on both sides but paler

beneath, 5-7-nerved, conspicuously stalked and as well as the branchlets glabrous, not pungent-pointed; their length varies from  $1\frac{1}{4}$ - $1\frac{3}{4}$  inches, the width is about  $\frac{1}{2}$  an inch. They are not dissimilar to those of the smaller form of *Trochocarpa laurina*. Among extra-australian species the plant bears comparison to *Styphelia dammarifolia* (*Leucopogon dammarifolius*, Brogn. et Gris *Fragm. d'une Flore de la Nouv. Calédonie* 1864, p. 83) but the leaves are thinly petioled, much shorter, much more acute and more prominently nerved. The Papuan plant differs also from *Styphelia Pancheri* (Brogn. et Gris l. c.) in leaves not blunt nor only very finely streaked.

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DEDICATED

TO

HIS EXCELLENCY SIR GEORGE BOWEN,

G.C.M.G., M.A., D.C.L., F.R.G.S.,

GOVERNOR OF THE COLONY OF VICTORIA.

