

ART. LXXXI.—Description of a New Species of *Pilularia*. By T. KIRK, F.L.S.

[Read before the Wellington Philosophical Society, 24th February, 1877.]

Pilularia novæ zealandiæ, n. s.

Root-stock creeping. Leaves solitary, 1–2 inches long, erect, setaceous. Sporocarpium globose, 2-valved, 2-celled; carpopodium $\frac{1}{4}$ inch long, erect; raphe elongated; micro-sporangia numerous, pyriform, each containing 20–30 microspores; macro-sporangia 20–25, ovoid; macrospores globose, or globose-ovoid, regular, not constricted.

Hab.: South Island: Lake Lyndon and Lake Pearson, Canterbury. Alt., 2,800 feet. J. D. Enys and T. Kirk.

In general appearance our plant resembles *P. globulifera*, L., differing externally in the 2-valved sporocarp, the longer carpopodium, and essentially in the non-constricted macrospores. It appears to be closely allied to *P. novæ hollandiæ*, A. Br., from which it differs in the 2-valved sporocarp, erect carpopodium, and lesser number of macrospores.

A species of *Pilularia* was detected at Whangape Lake, Waikato, by Professor Hutton and myself, in 1869, but the specimens were too imperfect to admit of identification.

DESCRIPTION OF PLATE XXIX.

1. *Pilularia novæ zealandiæ*, natural size.
2. Dehiscing sporocarp.
3. Micro-sporangia.
4. Microspores.
5. Group of Micro-sporangia attached to a fragment of the placenta.
6. Macrospore surrounded by a mucilaginous coat.
7. Macrospore.

All magnified.

ART. LXXXII.—Descriptions of New Plants. By T. KIRK, F.L.S.

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RANUNCULACEÆ.

Ranunculus trilobatus, n. s.

Stem weak, matted, procumbent and rooting at the joints. Lower leaves on long slender petioles, trifoliolate, leaflets 3-lobed, petioled, faintly toothed, with a few weak scattered hairs on both surfaces; upper leaves orbicular, 3-lobed or toothed. Flowers on short slender peduncles, axillary, or oppo-