

## HIMALAYAN LEAF FUNGI.

Dr. James Fleming, late of Delhi, has forwarded us a small but interesting collection made by himself during a trip to the Himalayas. He informs us that they were obtained at a considerable elevation, corresponding to a temperate zone. It is worthy of note that two British species, *Æcidium rubellum* and the *Uredo* of the agrimony are amongst the number. The *Uromyces* on box leaves appears to correspond with the *Puccinia Buxi* of Europe. Until now we are not aware that any *Puccinia* has been found on a crucifer. Dr. Fleming's specimen was accompanied by the siliqua, and it is not improbable that the *Puccinia* occurred on some species of *Brassica* or *Sinapis*. It is not often that a small collection of only ten specimens possesses so much interest. It serves to indicate what a rich unexplored country for the mycologist lies at the base of the Himalayas.

**Uredo punctoidea.** *Cooke.* — Hypophyllous, aggregated in irregular patches circumscribed by the veins of the leaves. Sori minute, punctiform, at first sub-hemispherical, then ruptured above. Pseudo-spores nearly globose or oval, orange, tuberculose.

On pinnate leaves of some leguminous tree. Himalayas.

Closely resembling in habit and appearance *Uredo Hypericorum*.

**Uredo Potentillarum.** *D.C.*—On leaves of *Agrimonia*. Himalayas.

**Uromyces ambiens.** *Cooke.* — Hypophyllous, scattered. Sori irregular, confluent, dark brown, compact, forming rings, enclosing a cluster of spermogonia in the centre. Pseudo spores brown, obovate, with long slender hyaline pedicels.

On box leaves (*Buxus sempervirens*?). Himalayas.

**Uredo Clematidis.** *Berk.*—On leaves of *Clematis*. Himalayas.

**Puccinia Cruciferarum.** *Cooke.*—Hypophyllous, scattered or in circinate clusters. Sori irregular, pulverulent-vinous brown. Pseudo-spores, brown, elliptical, scarcely constricted, on short fugacious pedicels, apiculate above.

On leaves of some cruciferous plant. Himalayas.

In habit resembling *Pucc. pulverulenta*, Grev., but darker and with different fruit.

**Puccinia dissiliens.** *Cooke.* — Hypophyllous, scattered. Sori discoid, convex, compact, dark brown. Pseudo spores on long hyaline pedicels, brown, constricted at the septum, freely separating into two subconical cells, of which the basilar usually remains attached to the pedicel.

On leaves of *Rumex*. Himalayas.

**Æcidium rubellum.** *Pers.*—On leaves of *Rumex*. Himalayas.

**Ailographum vagum.** *Desm.* (?)—On coriaceous leaves. Himalayas.

Without fruit, but probably this species. It occurs on the same leaves with an *Erineum*.



Cooke, M. C. 1874. "Himalayan leaf fungi." *Grevillea* 3(26), 75–76.

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