

## 15. HYPNUM (CAMPYLUM) OBSOLETINERVE.

Leaves very small (as in *H. Halleri*) and crowded, falcate but not circinnate, neither striate nor recurved, entire, not decurrent; insertion often yellowish; cells small and narrow. Stem-leaves from ovate-oblong; base abruptly tapering to a shorter acumen; nearly all cells narrow, the angular sometimes suboblong, but special alar cells not defined; costa *simple*, short and mostly obsolete. Branch-leaves smaller with subovate base, nerveless; all cells narrow. Perichetial leaves hyaline, simply but very faintly costate. Tufts dense and not glossy, brownish below, green above. Stem thin, irregularly divided. Dioecious. Capsules not seen.

Resembles in habit *Hypnum depressulum*, C. Muell.

On earth in swampy soil at Laggan, Alta., altitude 5,500 feet, June 28th, 1904. No. 163.

## 17. HYPNUM KNEIFFII, SCHIMPER, \*. MICROPTERUM.

Leaves short-decurrent with a few dilated cells below the insertion, alar cells small or indistinct; other cells narrow linear. Habit of *H. vernicosum*. Otherwise as *H. Kneiffii*. Capsules not seen.

On wet earth, Yoho Valley, west slope of Rocky Mountains, B.C., September, 3rd, 1904. No. 296.

## 18. PSILOPILUM TSCHUTSCHICUM (C. M.) KINDB.

Capsule narrow subcylindric and slightly curved, finally blackish, longer than in *Psilopilum laevigatum* (Wahlenb.) Limpr. Peristome finally fuscous. Spores 0, 020-0, 025 mm. Basal leaf-cells very large.

A common species on clay banks of Hunker and Bonanza Creeks, in July, 1902. In fine fruit late in July on Hunker Creek, Yukon.

## 19. POLYTRICHUM APICULATUM.

Differs from our allied species in the minutely apiculate lid of the capsule. Leaves rigid, short-acuminate acute, nearly plane below the middle; apical cells of lamellæ papillate, awn red and rough. Perichetial leaves hyaline; costa brown. Capsule narrow 4-angled with distinct apophysis; pedicel 3-5 cm. long. Stem simple, scarcely 1 cm. high.

Along Molar Creek, eastern slope of Rocky Mountains, Alta., altitude 6,500 feet, July 8th, 1904. No. 96.

## 20. FISSIDENS OSMUNDROIDES, VAR. OBLIQUUS.

Capsule asymmetric; pedicel 6-8 mm. Leaves generally opaque. Stem without rhizoids.

Growing on old stumps and earth and roots where floods