

NEW ORCHIDS FROM COSTA RICA.

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I AM indebted to M. Barbey for the two species described below. The plants were collected in Costa Rica by Mr. A. Tonduz, and flowered in M. Barbey's collection at Chambésy, where I saw them a few weeks ago.

Pleurothallis Simmleriana, sp. nov. Pusilla foliis anguste lanceolatis, apice minute tridenticulatis; racemo solitario, floribus 5 in apice pedunculi filiformis congestis, bracteis scariosis, ovatis vel rhomboideo-ovatis, cuspidatis, pedicellis valde geniculatis; sepalis ochraceis cum nervis 3 sanguineis striatis, et sanguineo-punctulatis, dorsali sublanceolato-oblongo, apice acuto, lateralibus liberis, asymmetricis, oblongo-lanceolatis, ad apicem acutum attenuatis; petalis atro-sanguineis, rhomboideo-spathulatis, apice breviter subacuto; labello ad pedem columnæ articulado, sanguineo, oblongo, 3-nervato, basi attenuato, sub apice rotundo minute denticulato; columna sanguineo alato, clinandrio dentato, anthera uniloculare, polliniis pyriformibus flavis.

A small plant with leaves 3 cm. long by .5 cm. broad, and scapes 4.5 cm. long bearing 2 scarious tubular sterile bracts with a cuspidate apex, 3.5 mm. long. The flowers open singly, following each other closely at the top of the scape; each springs from the axil of a whitish multinerved bract 3-4 mm. long; flower-stalks strongly kneed, 5 mm. long, ovary 1.6 mm. Sepals with three broad deep crimson veins on a pale dull ochre ground, dotted with crimson between the veins, 7 mm. long by 2 mm. broad, the adjacent margins of the lateral sepals almost straight, their base 1.5 mm., united with the foot of the column; petals 3 mm. long by a little over 1 mm. broad above the middle; lip 3 mm. long by 1.4 mm. broad; column 2.5 mm. by .75 mm., foot 1.5 mm. long.

A distinct species of the *Apodæ cæspitosæ* section.

Hab. Costa Rica, *A. Tonduz*. Flowered by M. W. Barbey at Chambésy, near Geneva, after whose gardener, M. Paul Simmler, the species is named by request.