# Cryptogamic nomenclatural notes. 3

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**Abstract.** Replacement names for later homonyms of *Pinnularia franconica* and *P. rabenhorstii* are published. A new combination, *Nyholmiella furcata* (Otnyukova) Otnyukova, is published. The lectotype of *Hygrolejeunea alaskana* R. M. Schust. et Steere is designated.

**Keywords:** *Hygrolejeunea alaskana*, *Lejeunea alaskana*, *Nyholmiella furcata*, *Orthotrichum furcatum*, *Pinnularia franconica*, *Pinnularia kulikovskiyana*, *Pinnularia neorabenhorstii*, *Pinnularia rabenhorstii*, Bacillariophyta, diatoms, lectotypification, liverworts, new combination, nomen novum, replacement name.

## Номенклатурные заметки по водорослям, грибам, лишайникам и мохообразным. 3

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**Резюме.** Для поздних омонимов *Pinnularia franconica* и *P. rabenhorstii* предложены заменяющие названия. Обнародована новая комбинация *Nyholmiella furcata* (Otnyukova) Otnyukova. Обозначен лектотип *Hygrolejeunea alaskana* R. M. Schust. et Steere.

**Ключевые слова:** *Hygrolejeunea alaskana*, *Lejeunea alaskana*, *Nyholmiella furcata*, *Orthotrichum furcatum*, *Pinnularia franconica*, *Pinnularia kulikovskiyana*, *Pinnularia neorabenhorstii*, *Pinnularia rabenhorstii*, Bacillariophyta, диатомовые, лектотипификация, печеночники, новая комбинация, nomen novum, заменяющее название.

## Algae — Водоросли

**The replacement names for *Pinnularia* species (Bacillariophyta).** R. M. Gogorev. — Заменяющие названия для видов рода *Pinnularia* (Bacillariophyta). Р. М. Гогорев.

*Pinnularia rabenhorstii* Hilse (1860) was described from Schlesien, Germany near Reichenbach. The later homonym of this name was published by Krammer (2000), who transferred *Navicula rabenhorstii* Grunow into the genus *Pinnularia* Ehrenb.

Also, Kramer recognized three varieties within *P. rabenhorstii*, which were then raised to specific rank (Kulikovskiy *et al*., 2010). Two of the varieties, *P. rabenhorstii* var. *elegans* (Hust.) Krammer and *P. rabenhorstii* var. *cuneata* Krammer et Lange-Bert., received legitimate replacement names (*P. boreoelegans* Kulikovskiy, Lange-Bertalot et Metzeltin and *P. neocuneata* Kulikovskiy, Lange-Bertalot et Metzeltin, respectively), while the third one,

*P. rabenhorstii* var. *franconica* Krammer, was given the combination *P. franconica* (Krammer) Kulikovskiy, Lange-Bert. et Metzeltin, which is illegitimate as a later homonym of *P. franconica* Mayer (1946).

The replacement names for these two homonyms are published below.

**Pinnularia neorabenhorstii** Gogorev, nom. nov.

Replaced synonym: *Navicula rabenhorstii* Grunow, 1860, Verh. K. K. Zool.-Bot. Ges. Wien, 10: 515, fig. 2: 13. ≡ *Pinnularia rabenhorstii* (Grunow) Krammer, 2000, Diatoms of Europe, 1: 22, pl. 4: fig. 1; pl. 5: figs 1—11; pl. 6: figs 1—4, nom. illeg., non *Pinnularia rabenhorstii* Hilse, 1860.

**Pinnularia kulikovskiyana** Gogorev, nom. nov.

Replaced synonym: *Pinnularia rabenhorstii* var. *franconica* Krammer, 2000, Diatoms of Europe, 1: 22, 209, pl. 5, figs 5—9, pl. 6, figs 1—4. ≡ *Pinnularia franconica* (Krammer) Kulikovskiy, Lange-Bert. et Metzeltin, 2010, Algologia, 20(3): 358, nom. illeg., non *Pinnularia franconica* Mayer, 1946.

## Bryophytes — Мохообразные

**New combination *Nyholmiella furcata* (Orthotrichaceae, Bryophyta).** T. N. Otnyukova. — Новая комбинация *Nyholmiella furcata* (Orthotrichaceae, Bryophyta). Т. Н. Отнюкова.

Holmen et Warncke found out that *Orthotrichum gymnostomum* Bruch. ex Brid. and *O. obtusifolium* Brid. belonged to a separate genus *Nyholmiella* Holmen et Warncke (Damsholt *et al.,* 1969), and published appropriate new combinations. Later, *O. furcatum* Otnyukova (abbreviated in the protologue as T. Otn.) with branched papillae was described from the Tyva Republic (South Siberia, Russia) (Otnyukova, 2001). In «Moss Flora of Russia» (Ignatov *et al.,* 2017) this species was synonymized with *Nyholmiella obtusifolia* because of ramified papillae in the latter, too. These species, however, differ in the shape of the papillae, deeply (2)3—5-divided in *O. furcatum*, and simple or sometimes shallowly 2-separated in *N. obtusifolia*. *O. furcatum* has gemmae and therefore also belongs to the genus *Nyholmiella.* The new combination is published here.

**Nyholmiella furcata** (Otnyukova) Otnyukova, comb. nov.

Basionym: *Orthotrichum furcatum* Otnyukova, 2001, Arctoa, 10: 155.

**Lectotypification of *Hygrolejeunea alaskana* R. M. Schust. et Steere (Lejeuneaceae, Marchantiophyta).** I. V. Sokolova, A. D. Potemkin. — Лектотипификация *Hygrolejeunea alaskana* R. M. Schust. et Steere (Lejeuneaceae, Marchantiophyta). И. В. Соколова, А. Д. Потемкин.

The name *Hygrolejeunea alaskana* R. M. Schust. et Steere (Schuster, Steere, 1958) was validly published with indication of one gathering as the type: «Driftwood Camp, near headwaters of the Utukok R., north slope of De Long Mts., Brooks Range, Alaska, ca. 68°53′ N. Lat., 161°10′ W. Long. (Steere 16900, Aug 4—16, 1951)» (Schuster, Steere, 1958: 192), though without any reference to the collection or institution of the type deposition (Turland *et al.*, 2017: Art. 40.2, 40.7). Later, the gathering 16900 was divided, and its parts were distribu-

ted whithin the «Bryophytorum typorum exsiccata» series (Buck, 1981). Now its duplicates are deposited in several collections (see below, under isolectotypes). At least three specimens with no. 16900 are conserved at the Herbarium of the New York Botanical Garden (NY) where W. C. Steere worked. The images of two of them are presented on the site of the NY Herbarium (http://sweetgum.nybg.org/science/vh/specimen_details.php?irn=225619, barcode no. 00575535; http://sweetgum.nybg.org/science/vh/specimen_details.php?irn=225622, barcode no. 00575538), both being signed «Type» on their labels, so none of them can be considered the holotype. As far as we could trace, despite «isotypes» and «type» were mentioned in some subsequent publications, no formal designation of lectotype has been published so far (e. g., Steere, Inoue, 1978; Buck, 1981; Kis, 2004; Bakalin *et al*., 2012).

The type specimen with barcode no. 00575538 is designated here as the lectotype.

**Hygrolejeunea alaskana** R. M. Schust. et Steere, 1958, Bull. Torrey Bot. Club, 85(3): 190. ≡ *Lejeunea alaskana* (R. M. Schust. et Steere) Inoue et Steere, 1978, J. Hattori Bot. Lab. 44: 330.

Lectotype (designated here): **United States of America.** Alaska. North Slope. «Driftwood Camp, near headwaters of the Utukok River, north slope of De Long Mountains, Brooks Range, approx. 68°53′ N. Lat., 161°10′ W. Long. In wet depression, tundra hillside. W. C. Steere 16900, 16 Aug 1951». — NY: barcode no. 00575538 (isolecto NY 00575535 and 01289102, MICH 514782, TNS 60492, NICH 376515, EGR).

The gatherings nos. 16782, 16856, 16895, and 17037 cited in the protologue as «cotypes» are paratypes.

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