

## Types of names of *Festuca* (Gramineae) in the herbarium W: types from Host's herbarium

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### Abstract

Lectotypes are chosen for *Festuca pallens* HOST, *F. pannonica* WULFEN ex HOST, and *F. stricta* HOST. The holotypes of *F. alpina* HOST, *F. canescens* HOST, *F. dura* HOST, *F. hirsuta* MYGIND ex HOST, *F. latifolia* HOST, *F. laxa* HOST, *F. nutans* HOST and *F. sylvatica* HOST are also listed. All type specimens are kept in the Natural History Museum in Vienna.

**Key words:** *Festuca*; type, nomenclature; Nicolaus Thomas Host.

### Zusammenfassung

Für *Festuca. pallens* HOST, *F. pannonica* WULFEN ex HOST und *F. stricta* HOST werden Lectotypen gewählt. Für *F. alpina* HOST, *F. canescens* HOST, *F. dura* HOST, *F. hirsuta* MYGIND ex HOST, *F. latifolia* HOST, *F. laxa* HOST, *F. nutans* HOST und *F. sylvatica* HOST werden die Holotypen aufgelistet. Alle Belege befinden sich im Naturhistorischen Museum in Wien.

### Introduction

Nicolaus Thomas Host, 1761 Fiume / Rijeka (Croatia) - 1834 Schönbrunn (Austria), was physician and botanist who travelled throughout Austria, Hungary and the Balkans (STAFLEU & COWAN, 1979). His main botanical publications are: the "Synopsis plantarum in Austria provinciisque adjacentibus sponte crescentium", 1797; "Icones et descriptiones graminum austriacorum", 1801-1809; "Flora Austriaca", 1827-1831; and "Salix", 1828. It results that 11 species belonging to the genus *Festuca* were described by him in "Icon. descr. gram." (HOST, 1802, 1809) and in "Fl. Austr." (HOST, 1827). As Host's herbarium is kept in W (further material also in B-Herbarium Bridel, BP, H, UPS-Herbarium Thunberg), type material of the names of taxa described by him primarily were to be searched for there. Type specimens have been found for all eleven species described by Host.

For the importance of typification in taxonomic studies of *Festuca*, see SIGNORINI & FOGGI, 1997.

### Materials and methods

We personally searched for the specimens in the Herbarium of the Natural History Museum in Vienna, Austria (W).

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The labels of the lectotypes have been transcribed between quotation marks (" "), complying, as far as possible, with the original writing. If more than one label were attached to the same sheet, each of them is preceded by a capital letter and a bracket: A), B), C), ....

The following abbreviations and symbols have been used (see SIGNORINI & FOGGI, 1997):

[ ]	our own observations;
/	new line;
//	new line after a big gap (lines widely spaced);
pr.	printed;
m.	handwriting by ....;
m. i.	manu ignota (unknown handwriting);
o.s.	printed or written directly on the sheet;
s. d.	sine data (without date);
s. coll.	sine collectore (without collector's name);
s. loc.	sine loco (without locality indication);
?	not clearly legible;
...	text not transcribed because non-essential or illegible;
Loc.	locality(ies) mentioned in the protologue.
T.	Tabula (number of the illustration forming part of the protologue)

For the syntypes only the identification number of the specimen has been reported.

## Results and discussion

***F. pallens* HOST**, Icon. descr. gram. 2: 63, T. 88 (1802).

Loc.: "In Austriae, Pannoniae collibus, rupestribus montanis, alpinis".

Examined type material: W-Host 2228. Probably also the following two specimens from the Putterlick herbarium can be considered as type specimens: W-Putterlick "F. pallens / v. glauca / H"; W-Putterlick "Festuca pallens / Host", even if they do not bear any note handwritten by Host. In fact, in this case, the name "Host" or "H" means that they belonged to Host's collections.

Lectotypus (hic designatus): "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2228 [o.s.]"; "Festuca / pallens [m. Host] [s. d., s. coll., s. loc.]". W! (Fig. 1).

***F. pannonica* WULFEN ex HOST**, Icon. descr. gram. 4: 36, T. 62 (1809).

Loc.: "In collibus, locis asperis Austriae, Pannoniae"

Examined type material: W-Host 2227 "Festuca / pannonica [m. Host]"; W-Wulfen "Festuca / pannonica"; W-Wulfen "Festuca pannonica / dum floreret lecta / 1797 ..."; W-Wulfen "Exemplaria juniora ..."; W-Wulfen "Festuca pro ovina data ...". The specimens from Wulfen's Herbarium can be regarded as syntype material, even if they do not bear any note handwritten by Host. The species was validly described only in 1809, four years after Wulfen's death (1805) and the original description of the species is reported by HOST (l. c.) as made by Wulfen. This means that Host was aware that Wulfen was the real discoverer of the new taxon. All Wulfen's specimens in W bear the determination "Festuca pannonica" in Wulfen's handwriting; some of them have also



Fig. 1: *Festuca pallens* HOST (lectotype).



Fig. 2: *Festuca pannonica* WULFEN ex HOST (lectotype).



Fig. 3: *Festuca stricta* HOST (lectotype).



Fig. 4: *Festuca alpina* HOST (holotype).

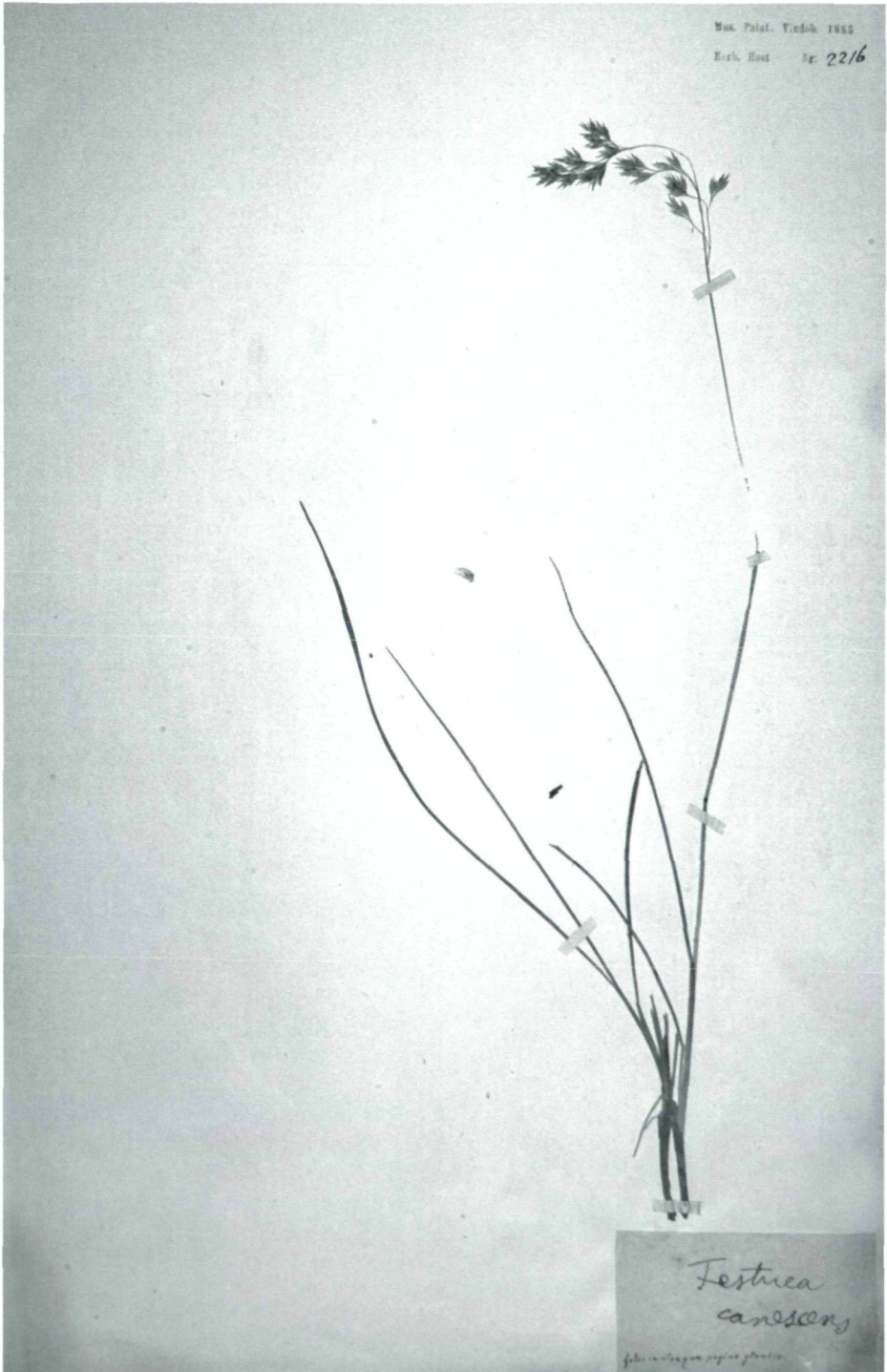


Fig. 5: *Festuca canescens* HOST (holotype).



Fig. 6: *Festuca dura* HOST (holotype).





Fig. 7: *Festuca hirsuta* MYGIND ex HOST (holotype).



Fig. 8: *Festuca latifolia* HOST (holotype).

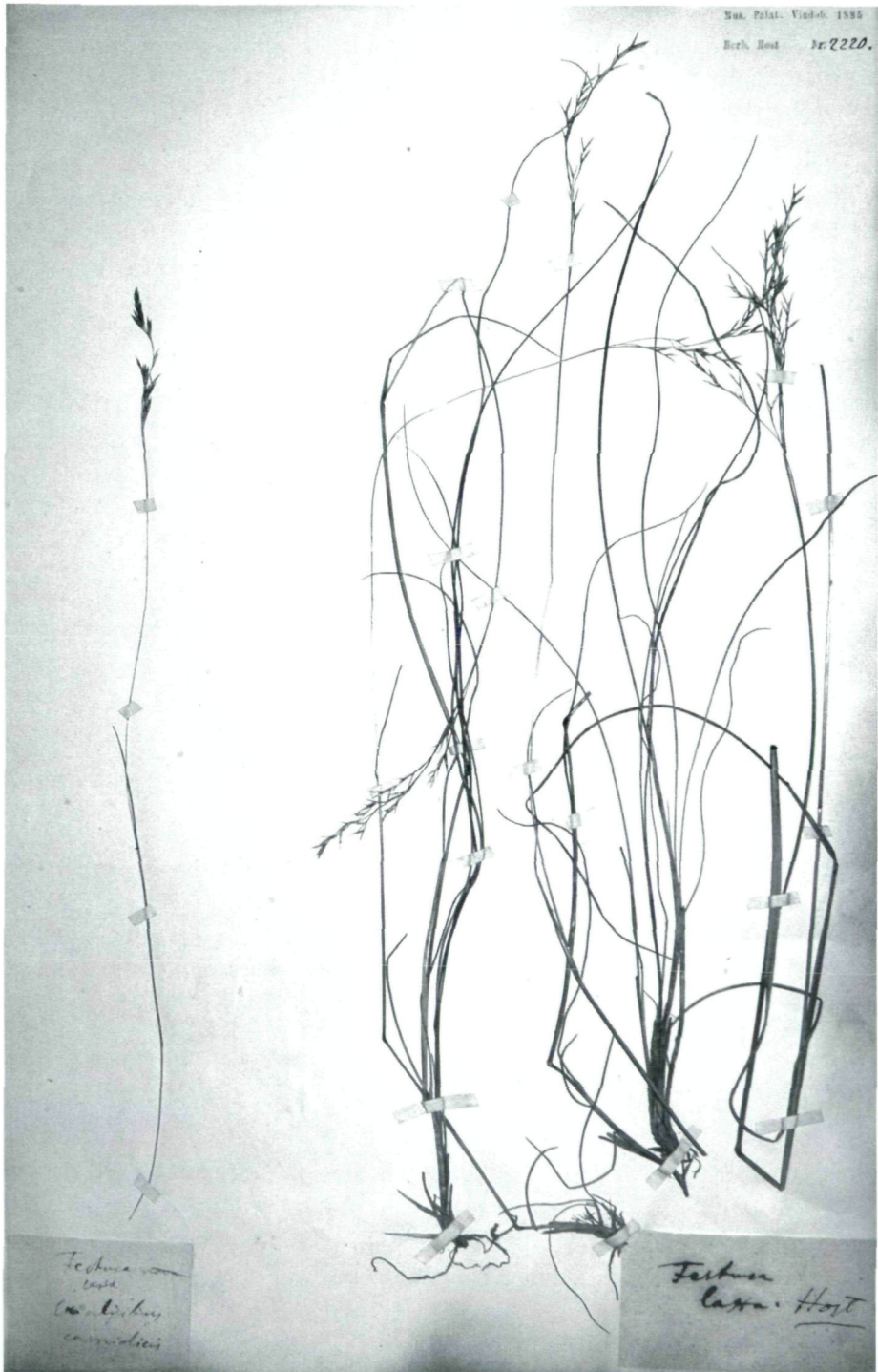


Fig. 9: *Festuca laxa* HOST (holotype).

labels (probably from Schreber's hand), on which the plants are doubtfully referred to *F. ovina*. It must also be taken into consideration that Wulfen's herbaria are kept in GJO and M (BURDET, 1979), so we can assume that the specimens in W were sent to Vienna to be seen by Host, who was writing his monograph on Gramineae from Austria; even if the exact date of arrival is not known, it results that they came to the herbarium W before 1820. Moreover, the only specimen with the determination "Festuca pannonica" handwritten by Host is very poor and could hardly have been the only one used by Host to draw the iconography reported in T. 62 of the protologue.

Lectotypus (hic designatus): W-Wulfen "K. K. Naturhistorisches Hofmuseum Wien / Botanische Abteilung [o.s.]" "Herb. Wulfen. [pr.] / Festuca / pannonica [m. Wulfen] [s. d., s. coll., s. loc.]. W! (Fig. 2). Among all the syntypes, we choose this specimen, as the most complete one.

***F. stricta* HOST**, Icon. descr. gram. 2: 62, T. 86 (1802).

Loc.: "In pratis".

Examined type material: W-Host 2223. Probably also the following specimen from the Putterlick herbarium can be considered a type specimen: W-Putterlick "Festuca stricta ...".

Lectotypus (hic designatus): "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2223 [o.s.]; A) "Festuca / stricta [m. Host] [s. d., s. coll., s. loc.]. B) "5-7 Nerven ... [m. Markgraf-Dannenberg] [o.s.]. W! (Fig. 3).

***F. alpina* HOST**, Icon. descr. gram. 4: 36, T. 63 (1809).

nomen illegitimum (later homonym of *F. alpina* SUTER 1802).

= *F. alpestris* ROEM. & SCHULT., Syst. Veg., ed. nov. (15), 2: 722 (1817).

Loc.: "In subalpinis, alpinis Tyrolis".

Examined type material: W-Host 2225. It appears to be the only existing type specimen in W.

Holotypus: "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2225 [o.s.]" A) "Festuca / alpina [m. Host] [s. d., s. coll., s. loc.]; B) "Festuca [pr.] alpestris R. et Sch. [m. Markgraf-Dannenberg] / III. 76 [m. Markgraf-Dannenberg] det. I. Markgraf-Dannenberg [pr.]. W! (Fig. 4).

***F. canescens* HOST**, Fl. Austr. 1:155 (1827).

Loc.: "In Carnioliae montibus"

Examined type material: W-Host 2216. It appears to be the only existing type specimen in W.

Holotypus: "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2216 [o.s.]; "Festuca / canescens [m. Host] / foliis in utraque pagina glaucis [m. i] [s. d., s. coll., s. loc.]. W! (Fig. 5).

Notes: *F. canescens* HOST is currently regarded as a taxonomic synonym of *F. laxa* HOST (see CONERT, 1996: 562), but morphological features reported in the protologue and checked by us in the type material appear to be quite different.

***F. dura* HOST**, Icon. descr. gram. 2: 62, T. 87 (1802).  
nomen illegitimum (later homonym of *F. dura* (L.) VILL., 1787).  
= *F. pseudodura* STEUD., Syn. Pl. Glum. 1: 306 (1855), nom. nov.

Loc.: "In alpebus Styriae, Carinthiae, Tyrolis, Pannoniae."

Examined type material: W-Host 2224. It appears to be the only existing type specimen in W.

Holotypus: "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2224 [o.s.]"; A) "*Festuca / dura* [m. Host] [s. d., s. coll., s. loc.]"; B) "*Festuca ovina* L. / ssp. [pr.] *laevis* Hack. [m. Markgraf-Dannenberg] / var. [pr.] *dura* (Host) Hack. (= *F. pseudodura* Steud.) / XI. 58 [m. Markgraf-Dannenberg] det. I. Markgraf-Dannenberg [pr.]". W! (Fig. 6).

***F. hirsuta* MYGIND ex HOST**, Icon. descr. gram., 2: 61, T. 85 (1802).  
nomen illegitimum (nomen superfluum for *F. halleri* ALL. 1785).  
= *Festuca rupicola* HEUFF., Verh. Zool.-Bot. Ges. Wien 8: 233 (1858).

Loc.: "In collibus, pratis siccioribus, locis arenosis".

Examined type material: W-Host 2222. It appears to be the only existing type specimen in W.

Holotypus: "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2222 [o.s.]"; "*Festuca / hirsuta* [m. Host] [s. d., s. coll., s. loc.]". W! (Fig. 7).

***F. latifolia* HOST**, Fl. Austr. 1: 152 (1806).

Loc.: "In agro salisburgensis in montis Untersberg sylvis; copiose prope Fürstenbrunnen".

Examined type material: W-Host 2209. It appears to be the only existing type specimen in W.

Holotypus: "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2209 [o.s.]" A) "*Festuca / latifolia*". [m. Host] [s. d., s. coll., s. loc.]". W! (Fig. 8).

***F. laxa* HOST**, Icon. descr. gram. 2: 58, T. 80 (1802).

Loc.: "In Carnioliae, Carinthiae montanis, subalpinis; copiosissime in monte Loibel".

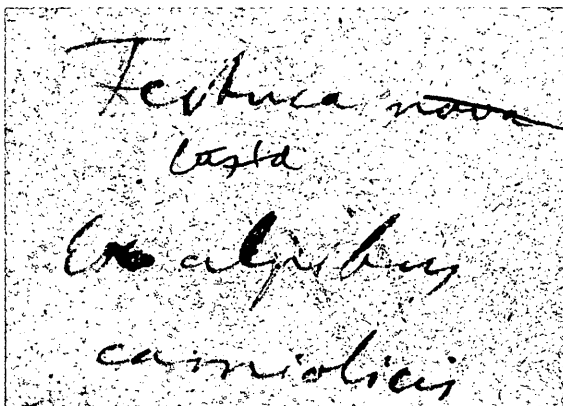


Fig. 10: *Festuca laxa* HOST (holotype).  
Detail of a label handwritten by Host.



Fig. 11: *Festuca nutans* HOST (holotype).



Fig. 12: *Festuca sylvatica* HOST (holotype)

Examined type material: W-Host 2220. It appears to be the only existing type specimen in W.

Holotypus: "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2220 [o.s.]; A) "Festuca / laxa [m. Host] Host [m. i.]; B) "Festuca ~~nova~~ / laxa / Ex alpinis / carniolicis [m. Host] [s. d., s. coll.]. W! (Figs. 9, 10).

*F. nutans* HOST, Icon. descr. gram. 4: 35, T. 61 (1809).

Loc.: "In alpinis austriacis, styriacis, tyrolensibus".

Examined type material: W-Host 2205. It appears to be the only existing type specimen in W.

Holotypus: "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2205 [o.s.]" A) "Festuca / nutans. [m. Host] [s. d., s. coll., s. loc.]; B) "Herb. Musei Hist. Natur. Vindob. [pr.] / Festuca pulchella Schrader / Holotype of *F. nutans* Host, non Moench nec ? / (= *F. carpatica* F. G. Dietr., non auct.) / 2001 det. rev. J. Müller [m. Müller]". W! (Fig. 11).

*F. sylvatica* HOST, Icon. descr. gram. 2: 56, T. 78 (1802).

nomen illegitimum (later homonym of *F. sylvatica* HUDSON 1762).

= *F. drymeja* MERT. & W.D.J.KOCH, Deutschl. Fl., ed. 3, 1: 670 (1823).

Loc.: "In sylvis Pannoniae, Moraviae, Bohemiae, Austriae; in agro vindobonensi copiose prope Mauerbach".

Examined type material: W-Host 2208. It appears to be the only existing type specimen in W.

Holotypus: "Mus. Palat. Vindob. 1885 / Herb. Host Nr: [pr.] 2208 [o.s.]" A) "Festuca / sylvatica. [m. Host] [s. d., s. coll., s. loc.]; B) "Herb. Musei Hist. Natur. Vindob. [pr.] / Festuca (montana Bieb.) / drymeia M. K. [m. Neumann] / 1973 det. /rev. [pr.] A. Neumann [m. Neumann]". W! (Fig. 12).

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