

Accessions to the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki, in 2021

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The herbarium accessions amount to 26,260 specimens, including 7,891 phanerogams or pteridophytes, 1,779 specimens of bryophytes, 6 specimens of algae, 10,335 specimens of fungi and 6,249 specimens of lichens. Some details of noteworthy accessions are given here.

The accessions comprise 26,260 specimens incorporated in the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki (acronym H) in 2021 (4,011 specimens in the Vascular Plant Herbaria, 1,779 specimens in the Bryological Herbaria, 6 specimens in the Algal Herbarium and 16,584 specimens in the Mycological Herbaria). The material has been received from the staff of the Museum and from other institutions, and as donations from private persons, or their reliquiae (marked "reliq."). The Botanical Museum offers the sincerest thanks to all donors. A considerable number of specimens has been obtained by exchange ("e"). The total number of specimens in the systematic collections of H at the end of 2021 was 3,439,889; 1,736,557 of them are phanerogams, 95,320 pteridophytes, 2,509 zooecidia, 625,089 bryophytes, 25,845 algae, 465,807 lichenized fungi and 488,762 non-lichenized fungi (including Mycetozoa and other fungoid groups, bacteria and viruses).

The herbarium (HEL) of the Section of Botany of the Faculty of Agriculture and Forestry of the University of Helsinki was donated to H in 2009, and the herbarium (HFR) of the former Finnish Forest Research Institute, Helsinki, in 2016, the latter by its later owner Natural Resources Institute Finland (Luke) and marked here as Helsinki, HFR. The specimens have been and

will be incorporated into the systematic collections during several years.

Some details of the most noteworthy accessions are given below. The italicised abbreviations *Al*, *Ab*, *N*, etc. in the lists refer to the biogeographic provinces of East Fennoscandia (map in Kotiranta, H., Uotila, P., Sulkava, S. & Peltonen, S.-L. 1998: Red data book of East Fennoscandia. 351 p. Ministry of the Environment, Helsinki.). Abbreviations in capital letters used for the herbaria are according to Thiers, B. M. (updated continuously): Index Herbariorum (sweetgum.nybg.org/science/ih/).

Among the accessions the various systematic groups are represented as follows:

	East Fennoscandian Herbaria	General Herbaria	Total
Vascular plants team			
Pteridophytes	81	35	116
Spermatophytes	3,930	3,845	7,775
Bryology and Mycology team			
Bryophytes	900	879	1,779
Algae	6	0	6
Lichenized fungi	2,946	3,303	6,249
Non-lichenized fungi	6,798	3,537	10,335
Total	14,661	11,599	26,260

Vascular Plant Herbaria

East Fennoscandian Herbarium

671, *Ab-Ka, Ta-Om, Obo*; Alanko, P. – 36, *Ta*; Alén, H. – 227, mainly *Ab*, also *Al, N, St, Oa, Obo, Lks, Li*; Fritszén, N. (reliq.) – 206; Hamina, Haminan lukio – 1,097, incl. Russia (East Fennoscandia); Helsinki, HEL – 119, mainly leg. V. Kujala, S. Saarnijoki, incl. Russia (East Fennoscandia: *Kol, Kon, Kb/Rs, Ks/Rs, Lps*); Helsinki, HFR – 44, *Ab, Ta*, incl. many rare neophytes; Hietanen, T. – 121, *St, Ok-Ks*; Kanerva, A. – 82, Russia (East Fennoscandia); Lahiti, Lahden yhteiskoulu – 182, *Om, Obo*; Oulu, OULU (e) – 487, *Ab, N, Ta, Kl, Tb, Ok*; Pykälä, J. – 441, mainly *Hieracium, Pilosella, N* (Helsinki); Sennikov, A. – 234, *Al-N, St, Kb, Ks, Lkk*, incl. Russia (East Fennoscandia); Vuorisalo-Tiitinen, S.

Small numbers of specimens have been received from: Harmaja, H. (*Huperzia*); Laaksonen, K. (reliq.); Ojala, M.; Koistinen, M.; Vuorinen, E.; Winberg, L.; Urho, L.; Horppila, P.; Ilmoni, Hj. (reliq.); Kuhno, P.; Lähdevainio, P.; Manninen, E.; Meriläinen, J.; Niinimäki, H.; Salonen, A.; Virtanen, S.; Väre, H.

General Herbarium

108, mainly Russia (Asia), United States (Alaska); Ahti, T. – 785, mainly Finland (cultivated); Alanko, P. – 50, Gottschlich: *Hieracia Europaea Selecta* 11: 201–550; Gottschlich, G. – 291, Finland (*N*, cultivated); Gustafsson, S. (reliq.) – 1,382, mainly Finland (cultivated); Helsinki, HFR – 36, *St*; Kytöniemi, A. (reliq.) – 187, Sweden; Lund, LD (e) – 24, Canada, Mexico, United States; Ottawa, DAO – 35, Egypt; Pettersson, B. (reliq.) – 100, mainly Québec, Newfoundland and Labrador; Québec, QFA (e) – 21, China (Hunan); Rinne, E. – 77, Finland (cultivated); Rosengren, C. – 81, Finland (cultivated); Uotila, P. – 72, Finland (cultivated); Väre, H. – 598, mainly Austria, E and SE Europe, also e.g. Armenia; Vienna, W (e)

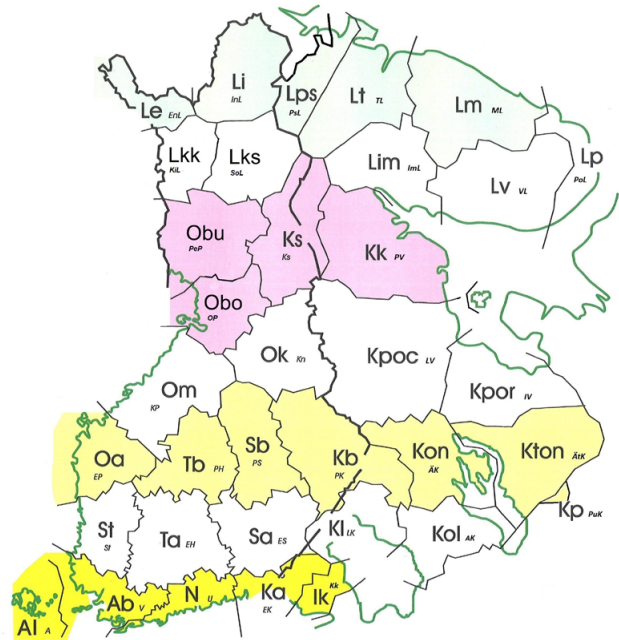
Small numbers of specimens have been received from: Autio, A.; Christenhusz, M.; Dirmenci, T.; Fagerholm, J.; Helsinki, HEL; Hyvärinen, A.; López-Figueiras, M. (reliq.); Nummelin, M.; Piispala, E.; Pyhtilä, P.; Ruuska, P.; Saarinen, J.; Salmijärvi, M.; Tolonen, J.; Wahlén, P.

Bryological and Algal Herbaria

East Fennoscandian Herbarium

Bryophytes. – 76, *Al-N, Ta, Kl, Tb, Sb, Kn*; Isoviita, P. (reliq.) – 180, *Kb*, Koponen, T. – 365, *Kb*; Laaka-Lindberg, S. – 40, *Ka*; Piippo, S. – 36, *N*; Sahlberg, H. (reliq.) – 127, *Al, Ab, St, Ta, Oa-Kb, Kn, Obo*; Suominen, J. (reliq.) – 35, *N, Ta*; Tirronen, T. (reliq.)

Small numbers of specimens have been received from: Ahti, T.; Daniels, A.E.D.; Enroth, J.; Frahm, J.-P. (reliq.); Hedenäs, L.; Hiroshima, HIRO (e); Hyvönen, J.; Issakai-



Biogeographical provinces of eastern Fennoscandia (Kotiranta et al. 1998, modified).

Al = Alandia	Kpor = Karelia pomorica
Ab = Regio aboensis	Kpor = Karelia pomorica orientalis
N = Nylandia,	Obo = Ostrobothnia ouluensis
Ka = Karelia australis	Obu = Ostrobothnia ultima
Ik = Isthmus karelicus	Ks = Regio kuusamoënsis
St = Satakunta	Kk = Karelia keretina
Ta = Tavastia australis	Lkk = Lapponia kittilensis
Sa = Savonia australis	Lks = Lapponia sompiensis
Kl = Karelia ladogensis	Lim = Lapponia lmandrae
Kol = Karelia olonetsensis	Lv = Lapponia varsugae
Oa = Ostrobothnia australis	Lp = Lapponia ponojensis
Ta = Tavastia borealis	Le = Lapponia enontekiensis
Sb = Savonia borealis	Li = Lapponia inarenensis
Kb = Karelia borealis	Lps = Lapponia petsamoënsis
Kon = Karelia onegensis	Lt = Lapponia tulomensis
Kton = Karelia transonegensis	Lm = Lapponia murmanica
KP = Karelia Pudogensis	
Om = Ostrobothnia media	
Ok = Ostrobothnia kajanensis	

nen, J.; Jena, JE (e); Miehe, G.; Miettinen, O.; Müller, F.; Räsänen, J.; Söyrinki, N. (reliq.); Tsukuba, TNS (e); Uotila, P.; Vitikainen, O.; Wesche, K.

Algae. Small numbers of specimens have been received from: Heiramo, T. (reliq.); Koistinen, M.; Olofsson, P. (reliq.)

General Herbarium

Bryophytes. – 101, Argentina, Australia, Canada, Guyana, Mexico, Mongolia, New Zealand, Philippines, Russia (Asia), Sudan, Thailand, United States (Alaska), Venezuela; Ahti, T. – 106, Uganda, India, France (New Caledonia); Enroth, J. – 21, Brazil, Malaysia; Frahm, J.-P. (reliq.) – 25, Japan; Hiroshima, HIRO (e) – 61, United States (Alaska), Canada (British Columbia), Russia (Asia); Hyvönen, J. – 100, Germany, Norway, China, Czech Republic, Chile, Argentina, Mauritius, Australia, Madagascar, Turkey, Switzerland, Austria, India, Spain (Canary Islands), Zündorf: Bryophyta Selecta ex Herbarium Haussknecht: 251–300, 301–350, incl. isotypes of *Bryum microglossum*, *Dicranum scoparium* var. *aristatum*, *Diplostichum lorentzii*, *Physcomitrium brisbanicum*, *Pseudopohlia yunnanensis*, *Sphagnum madegassum*; Jena, JE (e) – 231, China (Hunan, Yunnan, Jilin, Heilongjiang; Koponen, T. – 123, Uganda, Bhutan, China (Tibet); Mische, G. – 29, Myanmar; Müller, F. – 25, Japan, Higuichi: Bryophyta Selecta Exsiccata 42: 1526–1550; Tsukuba, TNS (e) – 25, Morocco, Sweden; Uotila, P.

Small numbers of specimens have been received from: Daniels, A.E.D.; Hedenäs, L.; Issakainen, J.; Piippo, S.; Vitikainen, O.; Wesche, K.

Mycological Herbaria

East Fennoscandian Herbarium

Lichenized Fungi. – 248, *Ab, N, St–Sa, Oa–Sb, Om–Obo, Ks*; Ahti, T. – 21, probably from Finland, *Li?*; Fellman, J. (reliq.) – 20, *Ta, Sb, Kb, Ok*; Julkunen, J. – 91, *Le*; Kantelinen, A. – 39, *Oa*; Kullas, J. – 2,306, *Al–N, St–Sa, Oa, Sb, Kb, Ok, Ks, Lkk, Le, Li*; Pykälä, J. – 95, *Ok*; Semenova, N. – 35, *N, Sa*; Tirronen, T. (reliq.)

Small numbers of specimens have been received from: Airaksinen, O. (reliq.); Alanko, P.; Henssen, A. (reliq.); Högnabba, F.; Hyvärinen, H.; Jääskeläinen, K.; Kopperi, A. (reliq.); Kyröläinen, M.; Laitinen, S.; Lommi, S.; Miettinen, O.; Muhr, L.-E. (reliq.); Myllyls, L.; Niittyvuopio, A.; Rinkineva, L.; Rintanen, T. (reliq.); Salminen, P.; Sennikov, A.; St. Petersburg, LECB; Vänskä, H.; Väre, H.; Virtanen, R.

Non-lichenized Fungi. – 28, *N, St, Sa, Oa, Tb, Om, Ok*; Ahti, T. – 26, *N*; Äikäs, J. – 23, *Ok*; Helo, T. – 24, *N, St, Ta*, incl. Russia (East Fennoscandia); Helsinki, HEL – 88, *Ab, N, Ka, Ta, Oa, Sb, Obu, Li*; Helsinki, HFR – 5,525, *Ab, N, St–Sa, Tb, Sb, Om–Ks*; Kytövuori, I. – 703, *Ab, N, St, Ta, Tb, Ok, Lks, Li*; Miettinen, O. – 54, *Ab, N, Ta, Sb, Kb, Lks*; Pennanen, J. – 26, *Ab, Sa, Kb, Lkk*; Pykälä, J. – 92, *Ab, St*; Spirin, V. – 92, *N, Le*; Väre, H. – 30, *N*; Viner, I.

Small numbers of specimens have been received from: Bonsdorff, T. von; Gataev, G.; Heikkilä, J.; Hintikka, T.; Hirvonen, M.; Höijer, P.; Hypén, K.; Ilmanen, A.; Jalkanen, J.; Julkunen, J.; Kekki, T.; Kiema, S.; Korhonen, A.; Kotiranta, H.; Kunttu, P.; Laakso, O.; Laaksonen, K. (reliq.); Lahti, M.; Manninen, O.; Niemelä, T.; Nyman,

K.; Ojala, M.; Peuhu, E.; Pino-Bodas, R.; Ruotsalainen, J.; Salo, P.; Salokangas, M.; Semenova, N.; Söderholm, U.; Talja, H.; Tuomisto, T.; Tuovila, H.; Uimonen, J.; Veräjänkorkva, M.; Vesala, N.; Veteli, P.

General Herbarium

Lichenized Fungi. – 2,068, mainly Brazil, Canada, China, Costa Rica, Philippines, United States (Alaska), Venezuela, also Argentina, Australia, Estonia, Germany, Italy, Japan, Lithuania, Malaysia, Mongolia, Norway, Poland, Russia (Asia), Sudan, Sweden, Tajikistan; Ahti, T. – 226, mainly United States, also Argentina, Australia, Austria, Brazil, Canada, Chile, Colombia, Ecuador, France, Germany, India, Italy, Mexico, New Zealand, Norway, Philippines, Spain (Canary Islands), Switzerland, United Kingdom, Uruguay; Henssen, A. (reliq.) – 35, Antarctica, Australia; Hobart, HO (e) – 43, China (Hunan), Taiwan; Koponen, T. – 226, Canada (Newfoundland and Labrador); Maass, W.S.G. (reliq.) – 55, Venezuela; Marcano, V. – 82, Brazil; Marcelli, M.P. – 25, United States, Anderson & Shushan: Lichens of Western North America. Fasc. 7: 151–175.; Provo, BRY (e) – 23, Canada (Northwest Territories); Scotter, G.W. (reliq.) – 258, Russia (Asia, Kamchatka); St. Petersburg, LECB – 53, mainly Sweden, also Antarctica, Brazil, Canada, Denmark (excl. Faroes and Greenland), Denmark (Greenland), Ecuador, Italy, Mexico, Norway, Russia (Asia), Switzerland, United States; Stockholm, S – 25, Japan, Russia (Asia), Ohmura: Lichenes Minus Cogniti Exsiccata 27: 651–675.; Tsukuba, TNS (e) – 29, mainly Austria; Türk, R. – 25, Chile; Turku, TUR

Small numbers of specimens have been received from: Alanko, P.; Alstrup, V. (reliq.); Barnaul, ALTB; Copenhagen, C; Delhoume, A.; Elix, J.A.; Gmoschinskii, V.; Graz, GZU; Hämet, R.-L.; Högnabba, F.; Hollinger, J.; Hooper, R.; holotypes of *Micarea pumila*, *Micarea stellaris*, *Micarea taitensis*, *Micarea versicolor*, Kantelinen, A.; Lommi, S.; Lund, LD; Miettinen, O.; Muhr, L.-E. (reliq.); Perm, PERM; Piippo, S.; Pino-Bodas, R.; Sipman, H.; Sohrabi, M.; St. Petersburg, LE; Talbot, S.; Tempe, ASU; Urbanavichene, I.; Virtanen, V.

Non-lichenized Fungi. – 154, Argentina, Austria, Brazil, Canada, China, Costa Rica, Estonia, Japan, New Zealand, Norway, Philippines, Poland, Russia (Asia), Sudan, United States, Venezuela; Ahti, T. – 21, Russia (Europe); Kokaeva, L. – 1,012, Russia (Asia); Kotiranta, H. – 1,033, Estonia, Germany, Norway, Slovakia, Sweden; Kytövuori, I. – 464, Bulgaria, China, Estonia, France, Germany, Indonesia, Malaysia, Norway, Poland, Romania, Russia (Europe), Singapore, Sweden, United States; Miettinen, O. – 29, Malaysia, Singapore, Uganda, United States; Ryvarden, L. – 545, Russia (Europe), United States; Spirin, V. – 195, France, Russia (Europe); Viner, I.

Small numbers of specimens have been received from: Biazrov, G.; Dunaev; Ericson, L.; Fedor, B.; Fonneland; Gmoschinskii, V.; Helsinki, HEL; Himelbrant, D.E.;

Härkönen, M.; Korhonen, M. (reliq.); Larsson, K.-H.; Marstad, P.; Murillo, S.; Norden, J.; Oslo, O; Rivoire, B.; Saint Louis, MO; São Paulo, SP; Sheehan, B.; St. Petersburg, LE; Stockholm, S; Türk, R.; Tyurin, A.; Vlasák, J.

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The main collection areas of the material received in 2021:

	Spermato- phyta	Pterido- phyta	Bryophyta	Algae	Lichenized Fungi	Other Fungi	Total
Finland	4,969	77	899	6	2,936	6,781	15,668
Russia (Asia)	35	2	11	0	346	1,030	1,424
Finland (cultivated)	1,369	0	0	0	0	0	1,369
Canada	99	17	27	0	809	53	1,005
Sweden	215	0	4	0	34	638	891
United States	53	1	56	0	508	208	826
Russia (Europe)	4	0	0	0	14	779	797
China	21	0	234	0	214	37	506
Austria	381	5	6	0	26	1	419
Russia (East Fennoscandia)	269	9	1	0	10	17	306
Brazil	0	0	19	0	248	25	292
Norway	1	0	22	0	36	218	277
Venezuela	5	0	12	0	210	8	235
Philippines	0	0	2	0	183	3	188
Uganda	0	1	153	0	0	4	158
Germany	37	0	54	0	32	26	149
Costa Rica	0	0	0	0	144	4	148
Armenia	146	1	0	0	0	0	147
France	7	1	0	0	5	134	147
Estonia	4	0	0	0	29	99	132
Japan	1	0	50	0	64	6	121
Australia	3	0	6	0	82	8	99
Slovakia	1	0	0	0	0	96	97
Italy	21	0	0	0	66	0	87
Bhutan	0	0	64	0	0	0	64
New Zealand	0	0	31	0	14	5	50
Singapore	0	0	0	0	0	50	50
Mongolia	0	0	10	0	36	2	48
Malaysia	0	0	2	0	21	18	41
Chile	0	0	1	0	34	0	35
Egypt	35	0	0	0	0	0	35
Turkey	11	0	1	0	19	0	31
Poland	4	0	1	0	1	24	30
Myanmar	0	0	29	0	0	0	29
Sudan	0	0	2	0	21	3	26
Morocco	2	0	21	0	0	0	23
Antarctica	0	0	0	0	21	0	21
Bulgaria	1	0	0	0	0	19	20
Other countries	81	2	61	0	86	39	269
Total	7,775	116	1,779	6	6,249	10,335	26,260