

Accessions to the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki, in 2016

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The herbarium accessions amount to 18,791 specimens, including 3,282 phanerogams and pteridophytes, 1,425 specimens of bryophytes, 45 specimens of algae, 6,182 specimens of fungi and 7,857 specimens of lichens. Some details of noteworthy accessions are given here.

The accessions comprise 18,791 specimens incorporated in the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki (acronym H) in 2016 (3,282 specimens in the Vascular Plant Herbaria, 1,425 specimens in the Bryological Herbaria, 45 specimens in the Algal Herbarium and 14,039 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"). Some material has been purchased.

The herbarium of the Finnish Forest Research Institute, Vantaa (HFR) was incorporated into H in 2016. The collections amount c. 60,000 specimens, especially of trees and shrubs of Finland, Sweden, central Europe, and North America, as well as fungi, mosses, lichens, and vascular plants of Finland. The specimens will be evaluated and annexed to the main collections during several years.

The total number of specimens in the systematic collections of H at the end of 2016 was 3,329,171; 1,700,076 of them are phanerogams, 93,973 pteridophytes, 2,366 zooecidia, 619,473 bryophytes, 22,186 algae, 448,212 lichenized

fungi and 442,885 non-lichenized fungi (including bacteria and viruses).

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 Uotila et al., Memoranda Soc. Fauna Flora Fennica 77: 14. 2001) and *Ög*, *Upl*, *Tr*, *VFi* etc. to the biogeographic provinces of Sweden and Norway (map on the back cover of Jonsell, B., ed., Flora Nordica. 2000–). Abbreviations in capital letters used for the herbaria are according to Index Herbariorum, I: The Herbaria of the World (<http://sweetgum.nybg.org/science/ih/>).

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

	East Fennoscandian Herbaria	General Herbaria	Total
Phanerogams Division			
Pteridophytes	115	70	185
Spermatophytes	1,350	1,747	3,097
Cryptogams Division			
Bryophytes	359	1,066	1,425
Algae	36	9	45
Mycology Division			
Lichenized fungi	4,005	3,852	7,857
Non-lichenized fungi	1,932	4,250	6,182
Total	7,797	10,994	18,791

Vascular Plant Herbaria

East Fennoscandian Herbarium

197; Alanko, P. – 508, mainly *Le*; Federley, B. – 114, *Ta*, incl. *Carex pilosa* and *Trifolium alpestre* as new to Finland; Kiviniemi, A. – 109, Russia (*Lim*, *Lv*, *Lp*); Kozhin, M. – 37, *Ab*, *N*, *Ta*; Lampinen, R. – 38, Russia (*Lim*, *Lv*); Moscow (MW) – 72, mainly *Ab*; Murto, R. – 29, Russia (*Kton*); Piirainen, M. – 126, *N*, *St*, *Sb*, *Kb*, *Li*; Räsänen, J. – 45, Russia (*Ks/Rs*, *Lim*, *Lv*, *Lps*, *Lt*); Uotila, P. – 54; Väre, H.

Small numbers of specimens have been received from: Ahokas, H.; Ahti, T.; Axelson, W. (reliq.); Brenner, M. (reliq.); Brotherus, V.F. (reliq.); Fontell, C.W. (reliq.); Granit, A.W. (reliq.); Kääntönen, M.; Kämäräinen, H.; Karjalainen, A.; Kihman, A.O. (reliq.); Kravchenko, A.; Kypärä, T.; Lindén, J. (reliq.); Moscow (MW); Nurmi, J.; Nylander, F. (reliq.); Parnela, A.; Poppius, B. (reliq.); Pykälä, J.; Rämö, T.; Renvall, A. (reliq.); Salminen, J.; Särkkä, J.; St. Petersburg (LE) (e); Stjernberg, T.; Syrjälä, K.

General Herbarium

114, incl. Bosnia and Herzegovina, Canada, Croatia; Ahti, T. – 304, incl. Finland (cult.), Portugal (Madeira); Alanko, P. – 142, mainly Australia, Indonesia; Amsterdam, Royal Tropical Institute, Tropenmuseum – 246, mainly United States (South Carolina); Columbia, USCH (e) – 34, Finland (cult.); Federley, B. – 44, Russia (Asia); Novosibirsk, NS (e) – 66, China (Shandong); Peking, PE (e) – 22, Finland (cult.); Vaniala, A. – 662, mainly Finland (cult.), France; Väre, H. – 100, Koziol: Flora Silesiaca Exs. 71–74: 1751–1850; Wrocław, WRSL (e).

Small numbers of specimens have been received from: Ahokas, H.; Enroth, J.; ESCAPE – Ex-Situ Conservation of Finnish Native Plant Species; Haikonen, V.; Helsinki, HSI; Huhtamo, L.; Hyvärinen, A.; Kurtto, A.; Lampinen, R.; Mesterházy, A.; Mikoláš, V.; Rintanen, T.; San Isidro, SI; Sennikov, A.; Stockholm, S (e), incl. isotype of *Utricularia stygia*; Sukhorukov, A.; Umeå, UME; Uppsala, UPS (e), incl. isotypes of *Justicia striata* subsp. *austromarginata*, *Saxifraga hirculus* subsp. *coloradensis*, isoneotype of *Rumex acetosa*.

Bryological and Algal Herbaria

East Fennoscandian Herbarium

Bryophytes. – 33, mainly *Ab*; Buch, H. (reliq.) – 89, *Ks*; He, X.L. – 26, mainly *N*; Laaka-Lindberg, S. – 60, Pykälä, J. – 57, *Kb*; Räsänen, J.

Small numbers of specimens have been received from: Ahti, T.; Auer, A.V. (reliq.); Enroth, J.; Haikonen, V.; Harmaja, H.; Hiitonen, I. (reliq.); Koponen, J.S.W. (reliq.); Koponen, T.; Leinikki, J.; Lindholm, T.; Linkola, K. (reliq.); Mäkelä, P.; Norris, D.H.; Norrlin, J.P. (reliq.); Oulu, OULU, *Philonotis yezoana* new to Finland; Praha, PRC (e); Rönkkö, R.; Simming, Th. (reliq.); Sundvik, O. (reliq.); Vitikainen, O.; Vuokko, S.; Vuorinen, E.

Algae. – 30, *Ab*, *N*, *Ta*, *Kb*; Pykälä, J.

Small numbers of specimens have been received from: Henssen, A. (reliq.), Pankakoski, A.; Piirainen, M.

General Herbarium

Bryophytes. – 44, mainly Canada, Philippines, Switzerland, United States; Ahti, T. – 54, Australia, Papua New Guinea, Philippines; Canberra, CANB – 26, China, Thailand; Enroth, J. – 68, China; He, X.L. – 25, Japan, Korea (South), Yamaguchi & Katagiri (eds.): *Bryophytes of Asia* 22: 526–550; Hiroshima, HIRO (e) – 27, Russia (Asia); Kirovsk, KPABG (e) – 192, China, Japan, Papua New Guinea; Koponen, T. – 23, Philippines, incl. isotype of *Frullania kalimantanensis*, holotype and paratype of *Frullania rizalii*; Los Baños, CAHUP – 22, Bhutan, China; Miehe, G. – 69, Papua New Guinea; Norris, D.H. – 132, mainly Czech Republic, Slovakia; Praha, PRC (e) – 100, mainly Russia (Asia), Afonina et al.: *Bryophyta Rossica et Civitatum Collimitaneorum Exs.* 10: 401–450, 11: 451–500; St. Petersburg, LE (e) – 126, Canada, China, Philippines, Taiwan, United States, incl. isotype of *Gemmabryum vinosum*; San Francisco, CAS (partly e) – 25, mainly Japan, Higuchi: *Bryophyta Selecta Exs.* 37: 1401–1425; Tsukuba, TNS (e).

Small numbers of specimens have been received from: Bick, F.; Blockeel, T.L.; Bronx, NY; Buch, H. (reliq.); Cambridge, FH; Canberra, FRI; Eger, EGR, isotype and isoparatype of *Trachylejeunea grolleana*; Frederiksberg, CP; Fritzén, Nils (reliq.); Hobart, HO (e); Hodgetts, N.G.; Kew, K.; Kihlman, A.O. (reliq.); Krakow, KRAM; Kuala Lumpur, KLU; Kunming, KUN; Leiden, L, incl. paratypes of *Plagiommium cordatum*; Long, D.G.; Moscow, MW; Murcia, MUB; Nyman, C.F. (reliq.); Özçellic, A.D.; Pullen, R.; Rao, P.; Saint Louis, MO; Sanda, HYO; Schäfer-Verwimp, A.; Tan, B.C.; Trondheim, TRH, isoeotype of *Sphagnum acutifolium* var. *fuscum*; Uotila, P.; Vanderpoorten, A.; Virtanen, V.; Vitikainen, O.; Vuorinen, E.; Wynns, J.T.

Algae. – Small numbers of specimens have been received from: Ahti, T.; Henssen, A. (reliq.).

The main collection areas of the material received in 2016:

	Spermato- phyta	Pterido- phyta	Bryophyta	Algae	Lichenized Fungi	Other Fungi	Total
Finland	1,099	106	342	34	3,813	1,899	7,293
United States	237	10	68	0	1398	323	2,036
Russia (Asia)	48	1	129	0	37	652	867
Finland (cultivated)	781	7	0	0	0	0	788
China	65	2	325	0	346	28	766
Estonia	0	0	1	0	0	717	718
Tanzania	1	0	0	0	11	692	704
Canada	56	7	6	2	483	77	631
United Kingdom	1	0	3	0	193	390	587
Russia (East Fennoscandia)	251	9	17	2	192	33	504
Portugal (Madeira)	90	6	1	0	0	259	356
Portugal (Azores)	64	5	0	1	172	34	276
Germany	0	0	0	0	39	163	202
Austria	0	0	0	0	6	154	160
Brazil	0	0	1	0	150	2	153
Sweden	8	0	4	0	51	83	146
Spain (Canary Islands)	3	0	1	0	26	114	144
Norway	0	0	13	0	27	103	143
Vietnam	0	0	2	0	134	0	136
Russia (Europe)	2	1	6	0	90	36	135
Japan	0	0	53	0	76	3	132
Papua New Guinea	0	0	128	0	0	0	128
Spain (excl. Canary Islands)	1	0	5	1	48	66	121
Switzerland	1	0	5	0	82	29	117
Australia	22	0	55	0	33	0	110
Philippines	0	0	65	0	42	0	107
Poland	97	3	4	0	0	0	104
Denmark (excl. Faroes and Greenland)	0	0	2	0	77	4	83
Greece	1	0	1	0	1	71	74
Indonesia	68	0	0	0	0	6	74
France	26	24	5	0	3	12	70
Czech Republic	0	0	62	0	2	5	69
Paraguay	2	0	0	0	67	0	69
Denmark (Faroes)	12	2	0	0	5	41	60
Slovakia	1	0	52	0	0	1	54
Venezuela	0	0	1	0	43	1	45
New Zealand	0	0	1	1	24	13	39
Turkey	8	0	3	0	4	22	37
Zambia	0	0	0	0	0	33	33
Argentina	0	0	0	0	23	7	30
Ukraine	5	0	0	0	0	25	30
Uruguay	0	0	0	2	28	0	30
Latvia	0	0	0	0	0	26	26
Bosnia and Herzegovina	22	2	0	0	0	1	25
Morocco	0	0	0	0	24	0	24
Georgia	8	0	0	0	6	9	23
Taiwan	0	0	19	0	1	0	20
Other countries	117	0	45	2	100	48	312
Total	3,097	185	1,425	45	7,857	6,182	18,791

Mycological Herbaria

East Fennoscandian Herbarium

Lichenized Fungi. – 56, *N, Ka, Ta, Sb, Obu, Lkk*; Haikonen, V. – 221, mainly *Ab, N*; Harmaja, H. – 79, *Al, N, Sb, Kb, Ok, Ks, Li*; Henssen, A. (reliq.) – 3425, incl. *Ab, Ta, Kb, Ks, Le*; Pykälä, J. – 189, Russia (*Ka*); Stepanchikova, I.

Small numbers of specimens have been received from: Ahti, T.; Bruun, H.; Högnabba, F.; Kinnunen, J.; Lommi, S.; Mäkinen, M.; Pino-Bodas, R.; Vantaa, HFR.

Non-lichenized Fungi. – 150, mainly *N, Ta*; Haikonen, V. – 510, mainly *Ab, Ks, Le*; Harmaja, H. – 36, mainly Russia (*Ka*); Helsinki, HEL – 33, mainly *Obu*; Kekki, T. – 81, *N, Obu*; Kotiranta, H. – 26, mainly *Ta*; Kuitunen, T. – 463, *Ab*; Kunttu, P. – 102, mainly *Ab, N, Tb, Obu*; Kytövuori, I. – 144, mainly *N, Tb, Ok*; Miettinen, O. – 37, mainly *Ab, Ks*; Niskanen, T. – 33, *Ab, N, Ta*; Pino Bodas, R. – 102, mainly *Ab*; Pykälä, J. – 23, *St, Ta, Ks*; Tolonen, J. – 49, mainly *N, Ka, Sa*; Vantaa, HFR.

Small numbers of specimens have been received from: Ahokas, H.; Ahti, T.; Alanko, P.; Askola, P.; Bonsdorff, T. von; Danielsson, R.; Ervasti, E.; Härkönen, M.; Heiska, J.; Hintikka, V.; Höijer, P.; Jalkanen, T.; Karfunkel, S.; Kälviäinen, V.; Koistinen, M.; Launis, A.; Lehtinen, S.; Marsh, T.; Ollikainen, R.; Oulu, OULU; Pennanen, M.; Piipponen, I.; Rainio, O.; Rajamäki, M.; Ruotsalainen, J.; Saarenoksa, R.; Salo, P.; Stepanchikova, I.; Turku, TUR-A; Uimonen, J.; Valanti, M.; Väre, H.; Vauras, J.; Veteli, P.

General Herbarium

Lichenized Fungi. – 1537, mainly Canada, China, United Kingdom, Brazil, United States; Ahti, T. – 75, Denmark, incl. Hansen, Christensen & Corfixen: Lichenes Danici Exs. 35–36: 796–845; Copenhagen, C (e) – 198, Russia, Vietnam; Demidova, A.N. – 1383, mainly United States, Germany, Canada; Henssen, A. (reliq.) – 27, mainly Brazil, Kalb: Lichenes Neotropici 16: 601–627; Kalb, K. (e) – 24, Morocco; Kinnunen, J. – 32, Canada, Japan; Koponen, T. – 23, Philippines; Los Baños, CAHUP – 243, mainly Portugal (Azores), Spain; Pino-Bodas, R. – 39, Sweden; Pykälä, J. – 26, Russia (Europe); Syktyvkar, SYKO

(e) – 26, United States; Talbot, S.S. – 25, mainly Japan, Ohmura: Lichenes Minus Cogniti Exs. 21: 501–525; Tsukuba, TNS (e) – 26, Venezuela; Vareschi, V. (reliq.).

Small numbers of specimens have been received from: Aptroot, A.; Björk, C. (isotype of *Bryoria irwinii*); Burgaz, A.R.; Coppins, B.J.; Corvallis, OSC; Dillman, K., isotype of *Bryoria alaskana*; Edinburgh, E; Erb, G. (reliq.); Florence, FI, incl. isotype of *Usnea pulverulenta* f. *subciliata*; Gagarina, L.; Genève, G (e); Göteborg, GB; Helsinki, HSI; Konoreva, L.A.; Lay, E.; Maliček, J.; Miettinen, O.; Norris, D.H.; Saarimäki, T.; Scotter, G.W.; Şenkardeşler, A.; St. Petersburg, LE (e); Steinová, J.; Stenroos, S.; Sydney, NSW; Urbanavichene, I.; Vantaa, HFR; Washington, US.

Non-lichenized Fungi. – 80, mainly Canada, Georgia, United States; Ahti, T. – 1859, mainly Germany, United Kingdom, Estonia, Spain (Tenerife), Austria, Norway, Portugal (Madeira); Alanko, P. – 23, China; Dai, Y.C. – 20, Austria; Graz, GZU (e) – 26, Latvia; Kinnunen, J. – 20, Turkey; Kocakaya, M. – 681, Russia (Sakha Republic), Zambia; Kotiranta, H. – 32, mainly Canada; Kukkonen, I. – 40, mainly Estonia, Norway, Sweden; Kytövuori, I. – 21, mainly Greece, Spain (Canary Islands); Madrid, MACB – 444, mainly Germany, United Kingdom, Russia, United States; Miettinen, O. – 58, Canada, Sweden, United States; Niskanen, T. – 81, mainly Portugal, Spain; Pino Bodas, R. – 688, Tanzania; Saarimäki, T. – 35, Switzerland, France; Zurich, ZT (e).

Small numbers of specimens have been received from: Cambridge, AKFWS; Ammirati, J.F.; Berlin, B; Boom, P.; Bronx, NY; Buck, W.R.; Copenhagen, C; Dissing, H.; Frahm, J.-P. (reliq.); Hansen, E.; Härkönen, M.; Harmaja, H.; Heilmann, C.J.; Henssen, A. (reliq.); Högnabba, F.; Höijer, P.; Huneck, S. (reliq.); Kocourková, J.; Mahú, M. (reliq.); Maliček, J.; Malloch, D.; McCarthy, J.; Nickelsburg, E.; Oxford, MU (e); Rikkinen, J.; Ryvarden, L.; St. Petersburg, LE; Schiefelbein, U.; Schumm, F.; Smith, A.H. (reliq.); Soini, S.; Spirin, V.; Spribille, T.; Stenroos, S.; Sunhede, S.I.; Tolonen, J.; Turku, TUR-A; Vantaa, HFR.

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