

## Accessions to the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki, in 2012

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The herbarium accessions amount to 17,308 specimens, including 6,599 specimens of phanerogams and pteridophytes, 1,708 specimens of bryophytes and algae, 9,000 specimens of fungi (including lichens), and 1 specimen of zooecidia. Some details of noteworthy accessions are given here.

The accessions comprise 17,308 specimens incorporated in the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki (acronym H) in 2012 (6,599 specimens in the Vascular Plant Herbaria, 1,708 specimens in the Bryological Herbaria, 9,000 specimens in the Mycological Herbaria and 1 specimen of zooecidia). The material has been received from the staff of the Museum and of other institutions, or 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") from other institutions.

The main part (1,110 specimens) of the historically interesting vascular plant herbarium of Jacob Fellman (1795–1875) was annexed to the collections in 2012. In addition to Fellman's own specimens, the herbarium includes specimens from contemporary European botanists, e.g. S.N. Casström, L.K.A. von Chamisso, H.G.L. Reichenbach, C.S. Sahlberg, A.F. Schweigger, G. Wahlenberg and others (see Väre, *Memoranda Soc. Fauna Flora Fennica* 87: 1–20. 2011).

The 2,566 mushroom specimens donated to the Mycological Herbarium by Dr. Tuula Niskanen and Dr. Kare Liimatainen contain more than

2,000 specimens of *Cortinarius*, including several recently described or undescribed new taxa; many of the species are new to Finland or the collections. A notable amount of the specimens are vouchers of DNA material extracted for sequencing. Their valuable contribution is highly appreciated.

The total number of specimens in the systematic collections of H at the end of 2012 was 3,253,871; 1,682,529 of them are phanerogams, 93,312 pteridophytes, 2,365 zooecidia, 610,265 bryophytes, 22,093 algae, 420,630 lichenized fungi and 422,677 non-lichenized fungi (including bacteria and viruses).

Some details of the most noteworthy accessions are given below. The italicised abbreviations *Al*, *Ab*, *N*, etc. on the lists refer to the biogeographic provinces of East Fennoscandia (map in Uotila et al., *Memoranda Soc. Fauna Flora Fennica* 77:14. 2001), while *Ög*, *Upl*, *Tr*, *VFi* etc. refer to the biogeographic provinces of Sweden or 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://sciweb.nybg.org/science2/IndexHerbariorum.asp>).

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

	East Fennoscandian Herbaria	General Herbaria	Total
<b>Vascular plants</b>			
Pteridophytes	99	373	472
Spermatophytes	2,746	3,381	6,127
Zooecidia	1	–	1
<b>Bryophytes and Algae</b>			
Bryophytes	351	1,353	1,702
Algae	4	–	4
<b>Fungi</b>			
Lichenized fungi	827	2 387	3,214
Non-lichenized fungi	4,107	1 679	5,786
<b>Total</b>	<b>8,135</b>	<b>9,173</b>	<b>17,308</b>

## Vascular Plant Herbaria

### East Fennoscandian Herbarium

59, Russia (*Ka/Rs, Kol, Kon*); Ahti, T. – 1,037, Finland (mainly *Ab, N, Sa*), Russia (*Ik, Kl/Rs, Kol, Kon, Kk*); Alanko, P. – 113, Finland (mainly *Li*), Russia (*Lim, Lps*); Fellman, J. (reliq.) – 84, Russia (*Ks/Rs, Kk, Lim, Lv, Lp, Lt, Lm*); Fellman, N. I. (reliq.) – 154, mainly *Al*; Hæggström, C.-A. – 49, mainly *Ta*; Haikonen, V. – 38, mainly Russia (*Kl/Rs, Kol, Kb/Rs, Kon, Kton*); Lehtinen, S. – 564, mainly *Ab Lohja*; Pykälä, J. – 100, mainly *Hieracium, Ptilosella, Ta* Pälkäne; Ranta, Y. – 46, mainly *Ka*; Rintanen, T. – 59, *Al*; Stjernberg, T. – 239, Finland (mainly *Ta*), Russia (*Ks/Rs, Lim, Lv, Lps, Lt*); Uotila, P. – 184, mainly *Lkk, Le, Li*; Väre, H.

Small numbers of specimens have been received from: Ahokas, H.; Bäckman, M.; Comandolli-Wyrepkowski, C.; Harmaja, H., including holotype and isotype of *Dryopteris carthusiana* var. *enigmatica*; Helsinki, HSI; Hoppania, H.; Horppila, P.; Huhta, V.; Immonen, M.; Jaakkola, S.; Jyväskylä, Central Finland ELY-Centre; Kämäräinen, H.; Kotilainen, M.J. (reliq.); Kuikka, M.; Laamanen, H.; Lampinen, R.; Parnela, A.; Paukkunen, J.; Penttilä, P.; Petrozavodsk, PTZ; Piirainen, M.; Räsänen, J.; Saksela, Salmia, A.; Salonen, A.; St. Petersburg, LE (e); Tapaninen, R.; Ukonen, S.; Vuokko, S.; Vuorinen, P.

*Zooecidia*. – Small number of specimens have been received from: Seppälä, H.

### General Herbarium

49, mainly Canada, Norway, Russia (East Fennoscandia, cult.); Ahti, T. – 552, mainly Finland (cult.), Spain (Canary Islands), India; Alanko, P. – 320, mainly Australia (Western Australia, Jurian Bay, Mount Benia), Finland (cult.), Netherlands; Christenhusz, M. – 997, mainly Austria, France, Germany, Hungary, Sweden; Fellman, J. (reliq.) – 178, Seychelles, including isotype and paratype of *Piper silhouettanum*; Gerlach, J. – 50, Gottschlich: *Hieracia Europaea Selecta*, Fasc. 8: 351–400, including 11 isotypes and 1 paratype; Gottschlich, G. – 227, mainly Greece, Sweden; Hæggström, C.-A. – 168, Kyrgyzstan, mainly voucher specimens of seeds collected for the Botanic Garden, Helsinki; Junikka, L. – 73, Zambia; Kukkonen, I. – 157, mainly Russia (Asia, Europe); Moscow, MHA (e). – 251, Kenya, Uganda; Nairobi, EA. – 328, Kyrgyzstan; Sennikov, A. – 36, mainly Finland (cult.), Russia (East Fennoscandia, cult.); Uotila, P. – 183, mainly Denmark (Greenland), Spain (Canary Islands); Väre, H.

Small numbers of specimens have been received from: Bishkek, FRU; Danin, A., isotype of *Portulaca edulis*; Federley, B.; Finnish Botanical Expedition to West-Central Asia 1972; Hämet-Ahti, L.; Havas-Matilainen, P.; Helsinki, Finnish Museum of Natural History, Exhibition and Conservation teams; Kalinauskaitė, N.; Kassel, KAS (e); Kekki, T.; Konechnaya, G.; Koopman, J.; Kursk, Kursk State University; Lindholm, T.; London, BM; Lund, LD; Madrid, USP, isotype of *Taraxacum penyalarense*; Niemelä, T.; Nurmi, J.; Paris, P.; Pulkkinen, M.; Pylkkönen, H.; Räsänen, J.; Riet, van de B.; Soini, S.; St. Louis, MO; Talbot, S.; Wien, WU; Wirzenius, A.

## Bryological and Algal Herbaria

### East Fennoscandian Herbarium

*Bryophytes*. – 75, mainly *Ta*; Haikonen, V. – 76, *N*; Laaka-Lindberg, S. – 163, *Ab, N, Ks*; Wikström, P.-G. (reliq.).

Small numbers of specimens have been received from: Ahti, T.; Enroth, J.; Helin, J.; Höijer, P.; Horppila, P.; Koivisto, A.-M.; Kypärä, T.; Rintanen, T.; Ruuhijärvi, R.; Ryömä, R.; Salo, P.; Seitapuro, H.; Uotila, P.

*Algae*. – Small numbers of specimens have been received from: Haikonen, V.; Helsinki, Finnish Environment Institute.

### General Herbarium

*Bryophytes*. – 33, China; Beijing, PE (e). – 307, e.g. Australia, Cuba, Dominican Republic, Fiji, Madagascar, Tanzania, including paratype of *Austrolejeunea occidentalis* and isotypes of *Drepanolejeunea inchoata* var. *palmicola* and *Cololejeunea blepharophylla*; Eger, EGR (e).

– 49, mainly Papua New Guinea, including isotypes of *Madotheca apiculata* and *Bazzania opulistipa*; Jena, JE (e). – 34, mainly Papua New Guinea, including holotypes and paratypes of *Aphanolejeunea koponenii*, *A. norrisii*, and *A. morobensis*; Koponen, T. – 560, mainly Indonesia, Malaysia, Papua New Guinea; Leiden, L (e). – 187, China, Philippines, São Tomé and Príncipe, including holotype of *Porotrichum saotomense*; San Francisco, CAS (partly e). – 51, including isotype of *Cyclodictyon validirugosum*; St. Louis, MO (e).

Small numbers of specimens have been received from: Ahti, T.; Christenhusz, M.; Enroth, J.; Guangzhou, SZG; Lehtinen, P.T.; Lindholm, T.; Moscow, MW; New York, NY; Norris, D. (e); Pentti, A.; Pócs, T.; Sennikov, A.; Shevock, J.; Shijiazhuang, HBNU (e); St. Petersburg, LE (e); Sydney, NSW (e); Tsukuba, TNS (e), Higuchi: Bryophyta Selecta Exsiccata, Fasc. XXXII: 1276–1300; Uotila, P.; Wikström, P.-G. (reliq.).

*Algae*. – Small numbers of specimens have been received from: Stjernberg, T.; Virtanen, A.

## Mycological Herbaria

### East Fennoscandian Herbaria

*Lichenized fungi*. – 53, *Ks*; Ahti, T. – 57, *N*, *Ta*; Alanko, P. – 146, *Ab*, *N*, *Ta*; Haikonen, V. – 59, *St*, *Ok*, *Ks*; Kanerva, R. – 127, mainly *Ab*, *Ks* including *Polyblastia plicata*, *P. neglecta*, both new to Finland; Pykälä, J. – 51, Russia (*Ik*); Räsänen, V. (reliq.). – 141, Russia (*Ka*, *Ik*); St. Petersburg, LECB. – 44, Russia (*Lim*); Uotila, P.

Small numbers of specimens have been received from: Auer, A.; Boldt, C.E. (reliq.); Brenner, M. (reliq.); Fagerström, L. (reliq.); Helsinki, HSI; Henssen, A. (reliq.); Hiitonen, I. (reliq.); Kihlman, A.O. (reliq.); Krohn, V. (reliq.); Kuusinen, M.; Lång, G. (reliq.); Laurila, M. (reliq.); Linkola, K. (reliq.); Miettinen, O.; Mylly, L.; Nylander, E. (reliq.); Nylander, W. (reliq.); Pankakoski, A. (reliq.); Pernu, M.; Porkka, O.H. (reliq.); Rintanen, T.; Väre, H.; Vuokko, S.

*Non-lichenized Fungi*. – 349, e.g. *N*, *Ta*, *Sa*; Haikonen, V. – 61, mainly *Ab*; Harmaja, H. – 45; Höijer, P. – 60; Korhonen, M. – 165, e.g. *Ab*, *N*, *Ta*, including holotype of *Byssocorticium caeruleum*; Kotiranta, H. – 42; Kytövuori, I. – 451, *N*, *Ta*, *Tb*; Miettinen, O. – 1,868, mainly *Cortinarius*, e.g. *Ok*, *Ks*; Niskanen, T. – 156, *Kb*, *Ok*, *Obu*; Ohenoja, E. – 591, *Ab*, *N*, *Ta*, *Sa*, *Obu*; Salo, P. – 48; Schigel, D.

Small numbers of specimens have been received from: Ahokas, H.; Ahti, T.; Alanko, P.; von Bonsdorff-Salminen, T.; Borg, P.; Carlsson, R.; Eriksson, I.; Ghobad-Nejhad, M.; Hæggeström, C.-A.; Haltimo, J.; Härkönen, M.; Helo, P.; Hottola, J.; Juka, T.; Juutilainen, K.; Kälviäinen, V.; Kekki, T.; Kimmo, M.; Kinnunen, J.; Koponen, T.; Kukkonen, I.; Kuopio, KUO (e); Kytöharju, S.; Lahti, M.; Leinonen, M.; Lindroos, K.; Martikainen, P.; Meriluoto, H.;

Mikkilä, S.; Murdoch, H.; Niemelä, T.; Niemi, M.; Niinivirta, E.; Norvapalo, J.; Noukka, M.; Oulu, OULU (e); Parkkima, T.; Pennanen, J.; Penttilä, R.; Pernu, M.; Piipponen, I.; Puntila, P.; Rajamäki, M.; Räsänen, J.; Renvall, P.; Rintanen, T.; Rojonen, P.; Ruohutula, J.; Ruotsalainen, J.; Savola, K.; Söderholm, U.; St. Petersburg, LECB; Stjernberg, M.; Suur-Inkeroinen, H.; Tromsø, TROM (e); Tuovila, H.; Turunen, J.; Uimonen, J.; Uotila, P.; Urho, L.; Väre, H.; Vauras, J.; Vehmaa, P.

### General Herbaria

*Lichenized fungi*. – 917, mainly Canada (Newfoundland), U.S.A. (Georgia); Ahti, T. – 264, U.S.A., Canada, including Lendemera: Lichens of Eastern North America Exsiccata IX: 401–445, with isotypes of *Caloplaca yuchiorum*, *Dermatocarpon arenosaxi*; Bronx, NY (e). – 39, Bolivia; Gdansk, UGDA (e). – 93, mainly Switzerland; Genève, G (e). – 63, mainly Austria, including Obermayer: Lichenotheca Graecensis 18–20: 341–400, Obermayer: Dupla Graecensis Lichenum 697: isotype of *Caloplaca michelagoensis*; Graz, GZU (e). – 103, mainly U.S.A., Brazil, including Kalb: Lichenes Neotropici 302: isotype of *Bahianora poeltii*; Henssen, A. (reliq.). – 67, mainly Canada (British Columbia); Ottawa, CANL (e). – 85, mainly China, Iran, including isotypes of *Circinaria gyrosa* and *C. rostamii*; Sohrabi, M. – 210, Russia (Leningrad Region); St. Petersburg, LECB. – 175, U.S.A. (Aleutian Islands); Talbot, S.S.

Small numbers of specimens have been received from: Ahonen, I.; Alanko, P.; Bin Din, L.; Cajander, A. K. (reliq.); Christenhusz, M.; Corner Brook, Grenfell Campus Herb., Memorial Univ. NFLD; Freebury, C. E.; Gerlach, J.; Helsinki, HSI; Hernández, J.E.; Hiroshima, HIRO; Kison, H.-U.; Koponen, T.; Kotiranta, H.; Mayrhofer, H.; McMullin, R.T.; Muchnik, E.E.; München, M (e), including John: Lichenes Anatolici Exsiccata 9: 201–225; Palmén, E. (reliq.); Pimlott, D.H. (reliq.); Riverside, UCR; Rosentreter, R.; Roux, C.; São Paulo, SP, including isotype and paratype of *Leptogium subjuressianum* var. *caparoense*, paratype of *L. subjuressianum*; Şenkardeşler, A.; Sennikov, A.; Seshadri, T.R.; Spribille, T.; Stenroos, S.; Steven, C. (reliq.); Toivonen, H.; Tsukuba, TNS (e), Ohmura: Lichenes Minus Cogniti Exsiccata XVIII: 426–450; Tuomikoski, R. (reliq.); Uotila, P.; Väre, H.; Vladivostok, VBG; Vladivostok, VLA; Yazici, K.

*Non-lichenized Fungi*. – 86, mainly Canada; Ahti, T. – 79, U.S.A., vouchers for DNA from 78 type specimens of *Cortinarius*; Ann Arbor, MICH (e). – 47, China; Dai, Y.-C. – 127, Denmark (excl. Faroes and Greenland), Estonia, Iran, Sweden; Ghobad-Nejhad, M. – 99, mainly France; Korhonen, M. – 174, Russia (Asia); Kotiranta, H. – 49, mainly Canada; Kukkonen, I. – 140, mainly U.S.A.; Miettinen, O. – 698, mainly *Cortinarius*, e.g. Canada, Norway, U.S.A.; Niskanen, T. – 39, mainly Estonia, Russia (Asia, Europe); Tartu, TAAM (e).

The main collection areas of the material received in 2012:

	Spermatophyta	Pteridophyta	Bryophyta	Algae	Lichenized fungi	Other fungi	Zooecidia	Total
Finland	2,313	81	345	4	526	4,083	1	7,353
Canada	12	1	6	–	932	313	–	1,264
U.S.A.	15	9	12	–	522	357	–	915
Russia (East Fennoscandia)	467	18	6	–	301	24	–	816
Sweden	397	16	2	–	4	132	–	551
Kyrgyzstan	529	1	1	–	11	2	–	544
Finland (cultivated)	409	3	–	–	–	–	–	412
Malaysia	8	7	355	–	6	3	–	379
Spain (Canary Islands)	305	12	3	–	40	–	–	360
Russia (Asia)	57	–	5	–	105	190	–	357
Germany	293	7	5	–	7	23	–	335
Russia (Europe)	100	2	–	–	203	17	–	322
Kenya	58	171	6	–	4	1	–	240
Seychelles	109	78	6	–	29	4	–	226
Australia	144	3	65	–	9	–	–	221
China	–	–	115	–	47	54	–	216
Norway	33	4	2	–	13	141	–	193
France	41	1	2	–	27	93	–	164
Papua New Guinea	–	–	163	–	–	1	–	164
Italy	35	1	1	–	6	91	–	134
Greece	110	2	–	–	–	–	–	112
Austria	43	–	3	–	34	21	–	101
Philippines	3	–	93	–	–	–	–	96
Iran	1	–	–	–	34	55	–	90
Tanzania	–	–	83	–	–	6	–	89
Indonesia	–	–	87	–	–	–	–	87
Denmark (Greenland)	76	3	–	–	–	1	–	80
Zambia	76	–	–	–	–	–	–	76
Switzerland	18	1	–	–	52	1	–	72
Turkey	18	–	–	–	46	–	–	64
Mongolia	–	–	–	–	62	–	–	62
Denmark (excl. Faroes and Greenland)	14	–	–	–	–	47	–	61
Hungary	56	–	–	–	–	5	–	61
São Tomé and Príncipe	–	–	60	–	–	–	–	60
Spain (excl. Canary Islands)	10	2	8	–	6	34	–	60
Estonia	2	–	–	–	–	56	–	58
Bolivia	–	–	17	–	39	–	–	56
Japan	–	–	20	–	21	2	–	43
Fiji	–	–	39	–	–	–	–	39
Cuba	–	–	28	–	6	–	–	34
Brazil	2	–	1	–	26	3	–	32
Netherlands	27	–	–	–	–	3	–	30
Uganda	–	27	2	–	–	–	–	29

	Spermatophyta	Pteridophyta	Bryophyta	Algae	Lichenized fungi	Other fungi	Zooecidia	Total
India	22	–	–	–	4	–	–	26
Venezuela	–	–	13	–	10	1	–	24
Madagascar	–	–	23	–	–	–	–	23
Mexico	12	4	–	–	5	1	–	22
Poland	12	1	6	–	–	3	–	22
Réunion	–	–	21	–	–	–	–	21
Singapore	7	6	–	–	–	7	–	20
Other countries	293	11	100	–	77	11	–	492
<b>Total</b>	<b>6,127</b>	<b>472</b>	<b>1,704</b>	<b>4</b>	<b>3,214</b>	<b>5,786</b>	<b>1</b>	<b>17,308</b>

Small numbers of specimens have been received from: Alstrup, V.; Campo, E.; Castellana, M.; Christenhusz, M.; Gerlach, J.; Ginns, J.; Göteborg, GB; Graz, GZU (e); Scheuer: Mycotheca Graecensis, Fasc. 24: 461–480; Haikonen, V.; Härkönen, M.; Harmaja, H.; Hernández, J.; Hongo, T.; Jonsson, P.-A.; Kinnunen, J.; Kytövuori, I.; Lamoure, D.; Legon, N.W.; Maliček, J.; Manninen, O.; Meijer, A.; Moreno, G.; Niemelä, T.; Nordén, J.; Nyígo, V.; Oulu, OULU (e); Rivoire, B.; Ryvarde, L.; Schigel, D.; Simpson, J.A.; Singapore, SING (e); Spirin, V.; St. John's, NFLD; St. Petersburg, LECB; Svantesson, S.; Tuovila, H.; Tzabar, S.; Uotila, P.; Vampola, P., holotype of *Postia alni*; Viner, I.

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