

## Accessions to the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki, in 2018

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The herbarium accessions amount to 29,904 specimens, including 11,988 phanerogams and pteridophytes, 945 specimens of bryophytes, 3,615 specimens of algae, 8,276 specimens of fungi, 4,944 specimens of lichens and 136 specimens of zooecidia. Some details of noteworthy accessions are given here.

The accessions comprise 29,904 specimens incorporated in the Botanical Museum of the Finnish Museum of Natural History, University of Helsinki (acronym H) in 2018 (12,124 specimens in the Vascular Plant Herbaria, 945 specimens in the Bryological Herbaria, 3,615 specimens in the Algal Herbarium and 13,220 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 total number of specimens in the systematic collections of H at the end of 2018 was 3,376,766; 1,715,017 of them are phanerogams, 94,583 pteridophytes, 2,502 zooecidia, 621,716 bryophytes, 25,824 algae, 454,780 lichenized fungi and 462,344 non-lichenized fungi (including bacteria and viruses).

The herbarium of the former Department of Silviculture, University of Helsinki (HSI, ca. 70,500 specimens in total) was closed and the specimens were donated to H in 2000. Most of the specimens were vascular plants. Of them, 6,620 specimens were incorporated in the Vas-

cular Plant Herbaria in 2018. 1,501 of the specimens were collected from Russian Fennoscandia, while 1,130 specimens from Poland and 938 cultivated specimens from Finland are also worth mentioning.

Incorporation of the herbarium of the former Finnish Forest Research Institute (HFR, ca. 60,000 specimens in total) into the collections of H was continued. HFR was donated to H in 2016 by the Natural Resources Institute Finland (Luke).

Prof. Pertti Eloranta (Jyväskylä) started a systematic inventory of freshwater red algae in Finland during the 1990's, a group of very deficiently known living organisms in the country. His collections were donated to H in 2018. Of them, 3,615 liquid preserved specimens of Finnish freshwater red algae were incorporated in the Algal Herbarium in 2018.

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
<b>Vascular plants team</b>			
Pteridophytes	118	442	560
Spermatophytes	4,115	7,313	11,428
Zooecidia	85	51	136
<b>Bryology and Mycology team</b>			
Bryophytes	370	575	945
Algae	3,615	–	3,615
Lichenized fungi	1,194	3,750	4,944
Non-lichenized fungi	5,070	3,206	8,276
<b>Total</b>	<b>14,566</b>	<b>15,338</b>	<b>29,904</b>

## Vascular Plant Herbaria

### East Fennoscandian Herbarium

96, incl. Russia (*Ik, Kl*); Ahokas, H. – 32; Ahti, T. – 116, Russia (*Kol, Kon, Kton, Kp*); Cajander, A. K. (reliq.) – 26, *Al*; Haeggström, C.-A. – 135, mainly *N, Ta*; Haikonen, V. – 22, *St*; Hakila, R. – 1,381, *Hieracium, Pilosella* (mainly leg. by Bruno Malmio); Helsinki, HEL – 1,501, Russia (*Ka, Ik, Kl, Kol, Kon, Kp, Kpor, Ks, Kk, Lim, Lp, Lps, Lt, Lm*); Helsinki, HSI – 41, *Ka, Ta*; Kiviniemi, A. – 285, Russia (*Lim, Lv, Lp*); Kozhin, M. – 88, mainly *Hieracium, Pilosella* (*Ab, N, Ta, Sa, Sb, Kb*); Kämäräinen, H. – 49, mainly *Kb, Kn* (incl. *Alchemilla parvipila, A. stellaris*, new to Finland); Piirainen, M. – 91, mainly *Hieracium, Pilosella, Ranunculus auricomus* agg. (*Ta*); Ranta, Y. – 150, mainly *Taraxacum* (*Kb*); Räsänen, J. – 44, *Al*; Stjernberg, T. – 41, *Sb, Om, Obu*; Särkkä, J.

Small numbers of specimens have been received from: Alanko, P.; Glazkova, E.; Haapala, J.; Harmaja, H.; Hietanen, T.; Huhta, V.; Isokääntä, O.; Jakobson, S.; Järvinen, V.; Kääntönen, M.; Kasvi, A.; Kivelä, S.; Kolehmainen, K.; Kouvo, M.; Kuitunen, T.; Laaka-Lindberg, S.; Laurinolli, T.; Lund, LD (e); Lyly, V.J. (reliq.); Michelson, A.; Nurmi, J.; Petrozavodsk, PTZ; Pykälä, J.; Rautio-Murros, L.-L.; Saarinen, K.; Salmi, V. (reliq.); Savola, J. (reliq.); Snellman, Y.; Suominen, J.; Valtonen, P.; Väre, H.; Virta, T.; Virtanen, T.; Vuorinen, T.; Winberg, L.

*Zooecidia*. – 21; Alanko, P. – 59; Vantaa Natural Resources Institute Finland (Luke).

Small numbers of specimen have been received from: Ahti, T.; Hiitonen, I. (reliq.); Laine, L. (reliq.); Tiensuu, L. (reliq.).

### General Herbarium

77, Canada, Finland (cult.), Japan, South Korea, Netherlands, Norway, Philippines, Russia (Asia), Switzerland, United Kingdom, United States; Ahti, T. – 450, Gottschlich: *Hieracia Europaea Selecta* 4–7, 10, 12–15: 151–350, 451–500, 551–750, incl. 39 isotypes, 17 paratypes; Gottschlich, G. – 5,119, mainly Finland (cult.), France, Germany, Norway, Poland, Russia (Europe), Sweden, Switzerland; Helsinki, HSI – 253, Canada (Alberta, British Columbia); Helsinki, Seed Collecting Expedition of the Botanic Gardens to Canada 1995 – 381, Japan (Hokkaido); Helsinki, Seed Collecting Expedition of the Botanic Gardens to Japan 1993 – 280, China; Helsinki, Seed Collecting Expedition of the Botanic Gardens to Northeast China 1994 – 90, Bulgaria, Greece; Helsinki, Seed Collecting Expedition of the Botanic Gardens to Southern Bulgaria and Greece 1998 – 81, mainly Spain (Canary Islands); Kämäräinen, H. – 91, China (Shandong); Peking, PE (e) – 30, Norway (*ØFi, Alchemilla*); Piirainen, M. – 91, Finland (cult.); Saarinen, J. – 21, Kyrgyzstan; Seregin, A. – 77, Switzerland; Uotila, P. – 23, Peru; Utrecht, U – 50, Finland (cult.); Vaniala, A. – 561, mainly Finland (cult.); Väre, H.

Small numbers of specimens have been received from: Ahokas, H.; Autio, A.; Fröhner, S.; Haeggström, A.; Helsinki, HEL; Keränen, H.; Konechnapa, G.; Kozhin, M.; Kuusisto, K.; Lund, LD (e); Moscow, MW; Rio de Janeiro, RB; Sukhorukov, A.

*Zooecidia*. – 46; Alanko, P.

Small numbers of specimens have been received from: Ahti, T.; Finnish Botanical Expedition to West Central Asia 1972.

## Bryological and Algal Herbaria

### East Fennoscandian Herbarium

*Bryophytes*. – 107, *Lks*, voucher specimens of EU Nature Directive App. II species; Hamari, S. – 201, Russia (*Lim, Lp*); Kozhin, M. – 27, *Ab*; Pykälä, J.

Small numbers of specimens have been received from: Ahti, T.; Buch, H. (reliq.); Haeggström, C.-A.; Jutila, H.; Koistinen, M.; Koponen, A.; Räsänen, J.; Salo, P.; Skytén, R.; Teeriaho, J.; Vantaa, Natural Resources Institute Finland (Luke)

*Algae*. – 3,615, Finland, Rhodophyta; Eloranta, P.

### General Herbarium

*Bryophytes*. – 54, mainly Venezuela; Ahti, T. – 54, mainly China; Enroth, J. – 64, incl. Colombia, Mexico, China; Koponen, A. – 32, Canada, India, Norway, Papua New Guinea, Tanzania; Koponen, T. – 93, Russia (Asia, Amur Region, Sakhalin); Kozhin, M. – 76, Laos, Vietnam; Luong, T.T. – 22, mainly China; Shevock, J.R.; – 25, Cambodia, Japan, Kyrgyzstan, Malaysia, Taiwan, Higuchi: *Bryophy-*

ta Selecta Exsiccata 39: 1451–1475; Tsukuba, TNS (e) – 117, China; Wei, Y.-M. – 25, China, Japan; Yamaguchi: Bryophytes of Asia 24: 576–600; Yamaguchi, T.

Small numbers of specimens have been received from: Hyvönen, J.; Väre, H.

## Mycological Herbaria

### East Fennoscandian Herbaria

*Lichenized Fungi.* – 29, *Ab, N, Ta, Oa, Ok, Obu, Ks, Lks*, Russia (*Kpoc*); Ahti, T. – 31, *Ab, N, Ta, Sb, Lks*; Lohtander, K. – 75, *N, Ta, Sa, Kb, Ok, Ks, Lkk*, incl. epitype of *Bryoria fuscescens*; Myllys, L. – 642, *Ab, N, Ta, Sa, Kb, Ks, Lkk, Le*, incl. holotype of *Verrucaria tenebrosa*; Pykälä, J. – 33, Russia (*Ka, Ik*); St. Petersburg, LECB – 117, Finland, Russia (*Ik, Kl, Kol, Lps*); Vantaa, Natural Resources Institute Finland (Luke) – 112, *Ab, N, Kb, Ok, Ks*; Velmala, S.

Small numbers of specimens have been received from: Bruun, H. (reliq.); Federley, B.; Hæggström, C.-A.; Heino, M.; Hosiaisluoma, V. (reliq.); Högnabba, F.; Huh-tamäki, S.; Järvinen, A.; Kuusinen, M.; Laaksonen, K.; Laurila, M. (reliq.); Lindgren, H.; Miettinen, O.; Motie-junaite, J.; Ruuhijärvi, R.; Räsänen, J.; Skult, H. (reliq.); Stjernberg, M.; Väre, H.

*Non-lichenized Fungi.* – 455, Russia (*Ka, Ik, Kl, Kol, Kon, Kton, Kb, Kpoc, Kpor, Kk*); Alanko, P. – 29, *Al, N, Obo, Le*; Hæggström, C.-A. – 238, *Ab, N, Ta, Kb, Ks, Lkk, Le*; Harmaja, H. – 31, *Ab, N, Ka, Ta, Tb, Om, Ok, Lks, Le, Li*; Höjjer, P. – 41, *N, St, Ta, Sa, Kb, Ok, Li*; Junninen, K. – 26, *Ab, N, Ta, Sb, Ok, Obu, Lkk*; Kekki, T. – 66, *Ab, N, Ka, St, Ta, Oa*; Kolehmainen, K. – 449, *Al-Ka, Ta, Tb, Kb, Ok, Obu, Ks, Li*, incl. holotype of *Sistotrema luteoviride*; Kotiranta, H. – 366, *N, Ta, Tb, Ok*; Miettinen, O. – 90, *Ab, N, St, Ta, Kb, Obu*, incl. holotype of *Scelotocutis delicata*; Niemelä, T. – 47, *Ab, St, Ta, Kb*; Pennanen, J. – 53, *Ab, N*; Pykälä, J. – 29, *N*; Saarenoksa, R. (reliq.) – 32, *Ab, N*; Salo, P. – 2,842, Finland, Russia (*Ik*); Vantaa, Natural Resources Institute Finland (Luke)

Small numbers of specimens have been received from: Ahti, T.; Äikäs, J.; Bonsdorff, T.; Eurola, S.; Halme, P.; holotype of *Skeletocutis exilis*, Helo, P.; Helo, T.; Hokkanen, R.; Immonen, I.; Isokääntö, O.; Kallio, T.; Karjalainen, S.; Kiema, S.; Kinnunen, J.; Köykkäri, K.; Kukkonen, I.; Kulju, M.; Kunttu, P.; Lahti, M.; Lipponen, V.; Nyman, K.; Oulu, OULU; Penttilä, R.; Puranen, L.; Purhonen, J.; Savola, K.; Schigel, D.; Similä, M.; Siuvatti, T.; Sonntag, N.; Spirin, V.; St. Petersburg, LE; Stjernberg, T.; Teeriaho, J.; Tuominen, S.; Turku, TUR; Vehmaa, P.; Vesänen, E.; Veteli, P.

### General Herbaria

*Lichenized Fungi.* – 2,605, especially Argentina, Brazil, Canada, Costa Rica, Greece, Sudan, United States, Venezuela, incl. isotype of *Cladonia pulviniformis*; Ahti, T. – 48, China, South Korea, Russia (Asia); Barnaul, ALTB – 40, mainly Austria, Obermayer: Lichenotheca Graecen-

sis 23: 441–480; Graz, GZU (e) – 39, Australia, Japan; Hämet-Ahti, L. – 57, incl. United States, New Zealand, Argentina, incl. holotype of *Santessoniella rosetiformis*, isotypes of *Hertella subantarctica*, *Metamelanea umbonata*, *Phylliscum tenue*; Henssen, A. (reliq.) – 47, Brazil; João Pessoa, JPB – 24, Denmark (excl. Faroes and Greenland), Norway, Sweden; Lohtander, K. – 36, Portugal (Madeira), Spain (excl. Canary Islands); Myllys, L. – 38, Egypt; Pettersson, B. (reliq.) – 29, Argentina; Ranta, P. – 177, Canada; Scotter, G.W. – 125, mainly Antarctica, Chile; So, J.E. – 100, mainly Russia (Asia); St. Petersburg, LECB – 27, Canada; Tan, B.C. (reliq.) – 24, Venezuela; Tillett, S.S. – 122, mainly Japan, incl. Ohmura: Lichenes Minus Cogniti Exsiccati 23: 551–575; Tsukuba, TNS (partly e) – 20, Canada, Estonia, Poland, United States, incl. isotypes of *Alectoria fremontii* f. *perfertilis*, *Cetraria nigricans* var. *palida*; Vantaa, Natural Resources Institute Finland (Luke)

Small numbers of specimens have been received from: Alanko, P.; Bratislava, BRA; Bratislava, SAV; Brodo, I.M.; Bronx, NY; Burgaz, A.R.; Bystrek, J.; isotype of *Rhizocarpon smaragdulum*, Davydov, E.; Demidova, A.; Ezhkin, A.K.; Gheza, G.; Hæggström, C.-A.; Halonen, P.; Hawksworth, D.L.; Hosiaisluoma, V. (reliq.); Kalb, K.; Kneiper, E.; Kondratyuk, S.Y.; Koponen, T.; isotype of *Cladonia camerunensis*, Kraków, KRAM; Launis, A.; Linnavuori, R.; Marburg, MB; Miettinen, O.; Muhr, L.-E.; Notov, A.A.; Palice, Z.; Palmén, A. (reliq.); Paris, PC; Pino Bodas, R.; Saint John, NBM; Stenroos, S.; Stockholm, S; Talbot, S.S.; Tuomikoski, R. (reliq.); Urbanavichene, I.; Urbanavichus, G.; isotype of *Peltigera islandica*, Vancouver, UBC; Vareschi, V. (reliq.); Wittmann, H.; Xavier Filho, L.; Yoshimura, I.

*Non-lichenized Fungi.* – 107, incl. Canada, Russia (Asia), Sudan, Venezuela; Ahti, T. – 627, mainly Estonia; Alanko, P. – 28, mainly China; Dai, Y.C. – 24, incl. Bulgaria, France; Hæggström, C.-A. – 20, Russia (Europe), Ukraine; Kharkov, CWU (partly e) – 1,236, mainly Russia (Asia, Europe), incl. isotype of *Athelium hallenbergii*; Kotiranta, H. – 129, mainly Canada, United States; Kukkonen, I. – 187, mainly Estonia, Russia (Europe), Spain (excl. Canary Islands), United States, incl. holotype of *Haplophilus percotus*; Miettinen, O. – 21, mainly Ethiopia; Niemelä, T. – 169, mainly Russia (Europe); Spirin, V. – 65, mainly Tajikistan, Latvia; St. Petersburg, LE – 453, mainly Canada, Estonia, Hungary, Norway, United States; Vantaa, Natural Resources Institute Finland (Luke) – 25, Russia (Europe, Tver Region); Viner, I.

Small numbers of specimens have been received from: Dämmrich, F.; Göteborg, GB (e); Högnabba, F.; Khalsa, S.; Kittredge, W.; Lukács, Z.; Lyon, LY; Madison, CFME; Martini, E.; Notov, A.; Rivoire, B.; Schigel, D.; Sennikov, A.; Strid, Å.; Tartu, TU; Uotila, P.; Väre, H.; Vlasák, J.; Yurchenko, E.

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The main collection areas of the material received in 2018:

	Spermato- phyta	Pterido- phyta	Bryo- phyta	Algae	Lichenized Fungi	Other Fungi	Zoo- cecidia	Total
Finland	2,225	18	169	3,615	1,074	4,559	72	11,732
Russia (East Fennoscandia)	1,889	100	201	0	120	512	13	2,835
Canada	262	1	4	0	1,133	359	3	1,762
Poland	1,237	1	0	0	18	15	1	1,272
Finland (cultivated)	1,223	26	0	0	0	0	0	1,249
Russia (Asia)	72	0	93	0	142	805	18	1,130
Russia (Europe)	415	19	0	0	12	422	1	869
Venezuela	0	0	46	0	706	21	0	773
Germany	661	11	0	0	2	34	0	708
Estonia	79	1	0	0	7	602	12	701
China	394	1	184	0	46	40	0	665
Sweden	540	3	1	0	13	45	0	602
Japan	385	0	39	0	159	1	0	584
Brazil	14	0	4	0	379	6	0	403
United States	101	3	4	0	170	125	0	403
South Africa	6	344	4	0	4	2	0	360
Italy	337	0	0	0	9	1	0	347
France	252	10	0	0	6	26	0	294
Norway	141	2	6	0	58	46	0	253
Belarus	0	0	0	0	0	211	0	211
Switzerland	162	2	0	0	6	23	0	193
Costa Rica	0	0	0	0	166	1	0	167
Austria	117	2	0	0	28	15	0	162
Sudan	0	0	1	0	139	20	1	161
Bulgaria	142	0	0	0	5	5	1	153
Argentina	0	0	4	0	107	2	0	113
Portugal (Madeira)	1	0	0	0	6	84	8	99
Spain (Canary Islands)	80	0	3	0	0	16	0	99
Denmark (excl. Faroes and Greenland)	87	0	0	0	5	1	0	93
Hungary	47	0	0	0	0	43	2	92
Spain (excl. Canary Islands)	10	0	0	0	39	39	1	89
Greece	28	0	0	0	53	3	0	84
Antarctica	0	0	0	0	78	0	0	78
Australia	25	0	5	0	45	0	0	75
Vietnam	0	0	65	0	3	0	0	68
Croatia	62	1	0	0	1	3	0	67
Georgia	54	0	0	0	0	0	0	54
Tajikistan	0	0	0	0	5	45	0	50
Thailand	48	1	0	0	0	0	0	49
Egypt	0	0	0	0	40	1	0	41
Mongolia	0	0	0	0	29	5	0	34
Serbia	32	1	0	0	0	0	0	33
Ukraine	20	0	0	0	3	10	0	33
Peru	23	0	7	0	1	0	0	31
United Kingdom	19	0	0	0	3	9	0	31
Chile	1	0	0	0	28	0	0	29
Mexico	19	0	8	0	2	0	0	29
Cuba	0	0	0	0	0	28	0	28
Czech Republic	8	3	0	0	0	16	0	27
Netherlands	21	0	0	0	0	4	0	25
Kyrgyzstan	21	0	1	0	0	2	0	24
South Korea	9	0	4	0	10	0	0	23
Romania	14	0	0	0	0	8	0	22
Papua New Guinea	0	0	21	0	0	0	0	21
Latvia	6	0	0	0	0	14	0	20
other countries	138	10	71	0	84	48	3	354
<b>Total</b>	<b>11,427</b>	<b>560</b>	<b>945</b>	<b>3,615</b>	<b>4,944</b>	<b>8,277</b>	<b>136</b>	<b>29,904</b>