A Check List of Sexual System of Angiosperm Species and Genera in the Japanese Flora -3-

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A Check List of Sexual System of Angiosperm Species and Genera in the Japanese Flora Ⅲ

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Key words : angiosperms, Japanese flora, sexual system.

The sex expression of all angiosperm species known to Japan was surveyed by scrutinizing literature and/or field observation. The check list is continued from the No.19 of this Annual Report, and a part of the results, from Compositae (Asteraceae) to Flagellariaceae, is shown.

Sexual type was classified into the following eight categories. The abbreviation is shown parenthesis.

Cosexuality

Hermaphroditism (CH); Monoecy (CM); Andromonoecy (CA); Gynomonoecy (CG)

Dioecy

Dioecy (DD); Androdioecy (DA); Gynodioecy (DG)

Polugamy

Polygamomonoecy, Polygamodioecy and other miscellaneous sexual types (PG)

In the table, A indicates no disagreement for sexual type among literature; B, disagreement among literature; C, sexual types was determined by direct field observations; *, no information. When sexual type is identical in the genus, only the number of species is written after the genus name (for example, Achillea 2ssp).

		CH	CM	CA	CG	DD	DA	DG	PM
Compositae									
Achillea 2ssp.					A				
Adenocaulon himalaicum Edgew.									B
Adenostemma 1sp.		A							
Ainsliaea 8ssp.		A							
Anaphalis alpicola Makino						A			

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		CH	CM	CA	CG	DD	DA	DG	PM
A. margaritacea (L.) Benth. et Hook. f.						A			
A. sinica Hance									B
Antennaria 1sp.						A			
Arnica mallotopus (Franch. et Savat.) Makino		A							
A. sachalinensis (Regel) A. Gray					A				
A. unalascensis Less.					A				
Artemisia 27ssp.					A				
Aster 17ssp.					A				
Atractylodes japonica Koidz. ex Kitam.									B
Bidens 6ssp.		A							
Blumea 3ssp.					A				
Breea 1sp.						A			
Cacalia13ssp.		A							
Carduus 1sp.		A							
Carpesium 8ssp.					A				
Centipeda 1sp.					A				
Cirsium aidzuense Nakai									B
C. amplexifolium Kitam.									B
C. babanum Koidz.									B
C. bitchuense Nakai									B
C. boninense Koidz.	*								
C. borealinipponense Kitam.									B
C. brevicaule A. Gray	*								
C. buergeri Miq.									B
C. chikushiense Koidz.									B
C. chokaiense Kitam.									B
C. confertissimum Nakai									B
C. congestissimum Kitam.									B
C. diabolicum Kitam.									B
C. dipsacolepis (Maxim.) Matsum.									B
C. effusum (Maxim.) Matsum.									B
C. furusei Kitam									B
C. ganjuense Kitam.									B
C. grayanum (Maxim.) Nakai									B
C. gyojanum Kitam.									B
C. hanamakiense Kitam.									B
C. heiianum Koidz.									B
C. hidaense Kitam.									B

		CH	CM	CA	CG	DD	DA	DG	PM
C. inundatum Makino									B
C. japonicum DC.									B
C. kagamontanum Nakai									B
C. kamtschaticum Ledeb.									B
C. lineare (Thunb.) Sch.-Bip									B
C. longepedunculatum Kitam.									B
C. lucens Kitam.									B
C. magofukui Kitam.									B
C. maritimum Makino									B
C. maruyamanum Kitam.									B
C. matsumurae Nakai									B
C. microspicatum Nakai var. kiotense Kitam.									B
C. nipponicum (Maxim.) Makino									B
C. norikurense Nakai									B
C. okamotoi Kitam.	*								
C. oligophyllum (Franch. et Savat.) Matsum.									B
C. pendulum Fisch.									B
C. purpuratum (Maxim.) Matsum.									B
C. sieboldii Miq.									B
C. spicatum (Maxim.) Matsum.									B
C. spinosum Kitam.									B
C. suffultum (Maxim.) Matsum.									B
C. suzukaense Kitam.									B
C. tashiroi Kitam.									B
C. tenue Kitam.									B
C. tenuisquamatum Kitam.									B
C. ugoense Nakai									B
C. yakushimense Masam.									B
C. yezoense (Maxim.) Makino									B
Conyza 1sp.					A				
Crepidiastrum 3ssp.		A							
Crepis 2ssp.		A							
Crossostephium 1sp.					A				
Dendrocacalia 1sp.		A							
Dendranthema 14ssp.					A				
Diaspananthus 1sp.		A							
Dichrocephala 1sp.					A				
Echinops 1sp.		A							

		CH	CM	CA	CG	DD	DA	DG	PM
Eclipta prostrata (L.) L.	*								
Elephantopus 2ssp.		A							
Emilia 1sp.		A							
Erigeron 3ssp.					A				
Eupatorium 7ssp.		A							
Farfugium 2ssp.					A				
Gnaphalium 4ssp.					A				
Hemistepta 1sp.		A							
Heteropappus 1sp.					A				
Hieracium 2ssp.		A							
Hololeion 2ssp.		A							
Hypochoeris 1sp.		A							
Inula 3ssp.					A				
Ixeris 9ssp.		A							
Kalimeris 6ssp.					A				
Lactuca 5ssp.		A							
Lagenophora lanata A. Cunn.									B
L. makinoi Koidz.									B
Lapsana 2ssp.		A							
Leibnitzia 1sp.					A				
Leontopodium 5ssp.			A						
Leucanthemella 1sp.					A				
Ligularia 8ssp.					A				
Matricaria matricarioides (Less.) Porter		A							
M. tetragonosperma (Fr. Schm.) Hara et Kitam.					A				
Miricacalia 1sp.		A							
Miyamayomena 1sp.					A				
Myriactis 1sp.					A				
Nipponanthemum 1sp.					A				
Pertya 5ssp.		A							
Petasites 1sp.						A			
Picris 1sp.		A							
Prenanthes 2ssp.		A							
Rhynchospermum 1sp.					A				
Saussurea 25ssp.		A							
Scorzonera 1sp.		A							
Senecio 12ssp.					A				
Serratula 1sp.		A							

		CH	CM	CA	CG	DD	DA	DG	PM
Siegesbeckia 1sp.					A				
Solidago 3ssp.					A				
Sonchus 2ssp.		A							
Syneilesis 3ssp.		A							
Synurus 3ssp.		A							
Tanacetum 1sp.					A				
Taraxacum 21ssp.		A							
Vernonia 1sp.		A							
Wedelia 4ssp.					A				
Xanthium 1sp.			A						
Youngia 4ssp.		A							
Alismataceae									
Alisma 2ssp.		A							
Caldesia 1sp.		A							
Sagittaria 3ssp.			A						
Hydrocharitaceae									
Blyxa 4ssp.		A							
Enhalus 1sp.						A			
Halophila ovalis (R. Br.) Hook. fil.									A
Hydrilla 1sp.						A			
Hydrocharis dubia (Blume) Backer									B
Ottelia 2ssp.		A							
Thalassia 1sp.						A			
Vallisneria 2ssp.						A			
Scheuchzeriaceae									
Scheuchzeria 1sp.		A							
Juncaginacaee									
Triglochin 2ssp.		A							
Potamogetonaceae									
Potamogeton alpinus Balbis		A							
P. compressus L.		A							
P. crispus L.		A							
P. cristatus Regel et Maack		A							
P. dentatus Hagstr.		A							
P. distinctus A. Benn.		A							
P. fryeri A. Benn.		A							
P. gramineus L. var. heterophyllus (Schreb.) Fries		A							
P. iriomotensis Masam.			A						

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P. maackianus A. Benn.		A							
P. malaianus Miq.		A							
P. natans L.		A							
P. octandrus Poir.		A							
P. oxyphyllus Miq.		A							
P. panormitanus Biv.		A							
P. pectinatus L.		A							
P. perfoliatus L.		A							
P. praelongus Wulf		A							
P. pusilla L.		A							
Ruppia maritima L.									B
Zosteraceae									
Phyllospadix 2ssp.						A			
Zostera 5ssp.			A						
Zannichelliaceae									
Cymodocea 2ssp.			A						
Halodule 2ssp.			A						
Syringodium 1sp.			A						
Zannichellia 1sp.			A						
Najadaceae									
Najas ancistocarpa A. Br.			A						
N. graminea Del.			A						
N. indica (Willd.) Cham.			A						
N. japonica Nakai			A						
N. marina L.						A			
N. minor All.			A						
N. oguraensis Miki			A						
N. tenuicaulis Miki						A			
N. yezoensis Miyabe			A						
Triuridaceae									
Sciaphila japonica Makino									B
Sciaphila okabeana Tuyama			A						
S. takakumensis Ohwi		A							
S. tosaensis Makino									B
Liliaceae									
Alectorurus 1sp.						A			
Aletris 3ssp.		A							
Allium grayi Regel		A							

		CH	CM	CA	CG	DD	DA	DG	PM
Allium monanthum Maxim.									B
A. schoenoprasum L.		A							
A. splendens Willd.		A							
A. thunbergii G. Don		A							
A. togashii Hara		A							
A. tuberosum Rottl.		A							
A. victorialis L. var. platyphyllum (Hulten) Makino		A							
A. virgunculae F. Maekawa et Kitam.		A							
Amana 2ssp.		A							
Asparagus 4ssp.						A			
Caloscordum 1sp.		A							
Cardicrinum 1sp.		A							
Chionographis japonica Maxim.									C
C. koidzumiana Ohwi		A							
Clintonia 1sp.		A							
Convallaria 1sp.		A							
Dianella 1sp.		A							
Disporum 4ssp.		A							
Erythronium 1sp.		A							
Fritillaria amabilis Koidz.		A							
Fritillaria camtshatcensis (L.) Ker-Gawl.				C					
Fritillaria japonica Miq.		A							
Gagea 2ssp.		A							
G. vaginata Pascher	*								
Heloniopsis 3ssp.		A							
Hemerocallis 4ssp.		A							
H. flava L. var. yezoensis (Hara) M. Hotta	*								
Heterosmilax 1sp.						A			
Hosta 17ssp.		A							
Japonolirion 1sp.		A							
Lilium 12ssp.		A							
Lilium alexandrae Hort.	*								
Liriope 3ssp.		A							
Lloydia 2ssp.		A							
Maianthemum 2ssp.		A							
Metanarthecium 1sp.		A							
Narthecium 1sp.		A							
Ophiopogon 3ssp.		A							

		CH	CM	CA	CG	DD	DA	DG	PM
Paris 3ssp.		A							
Protolirion 1sp.		A							
Polygonatum 12ssp.		A							
Reineckea carnea (Andr.) Kunth									B
Rohdea 1sp.		A							
Scilla 1sp.		A							
Smilacina hondoensis Ohwi						A			
S. japonica A. Gray		A							
S. yesoensis Franch. et Savat.						A			
Smilax 10ssp.						A			
Streptopus 2ssp.		A							
Tofieldia 4ssp.		A							
Tricyrtis 11ssp.		A							
Trillium 4ssp.		A							
Veratrum album L. subsp. oxysepalum Hulten				C					
Veratrum maackii Regel var. japonicum (Baker) T. Shimzu				C					
Veratrum stamineum Maxim.				C					
Zygadenus sibiricus (L.) A. Gray									A
Stemonaceae									
Croomia 2ssp.		A							
Amaryllidaceae									
Crinum 1sp.		A							
Lycoris 1sp.		A							
Hypoxidaceae									
Curculigo 1sp.		A							
Hypoxis 1sp.		A							
Dioscoreaceae									
Dioscorea 13ssp.						A			
Pontederiaceae									
Monochoria 2ssp.		A							
Iridaceae									
Belamcanda 1sp.		A							
Iris 7ssp.		A							
Burmanniaceae									
Burmannia 5ssp.		A							
Glaziocharis 2ssp.		A							
Saionia 1sp.		A							

		CH	CM	CA	CG	DD	DA	DG	PM
Philydraceae									
Philydrum 1sp.		A							
Juncaceae									
Juncus 26ssp.		A							
Luzula 12ssp.		A							
Commelinaceae									
Commelina 5ssp.		A							
Forrestia 1sp.		A							
Murdannia 3ssp.		A							
Pollia 1sp.			A						
Streptolirion 1sp.		A							
Eriocaulaceae									
Eriocaulon 38ssp.			A						
Paepanthus 1sp.			A						
Flagellariaceae									
Flagellaria 1sp.		A							