

CYTOLOGICAL INFORMATION FOR THE GENUS *POLYSTICHUM* AS OF 2006
prepared by D.S. Barrington, University of Vermont (dbarring@uvm.edu)
Numbers in brackets are publications --- available on request.

Current Name *Polystichum acanthophyllum* (Franch.) H. Chris

Cited name or basionym *Aspidium acanthophyllum* Franch.

Distribution Taiwan. Tibet SE part, China (Sichuan W part, Yunnan west part and NW part,) elev: 2000-2800 (Himalayas), 3300-4200 (Yunnan)

cytology n=82 [50] see note above

Current Name *Polystichum acrostichoides*(Michx.)Schott, Gen

Cited name or basionym *Nephrodium acrostichoides* Michx.

Distribution eastern North America, e Mexico

cytology "2n=82" [51]

Current Name *Polystichum aculeatum* (L.) Schott

Cited name or basionym *Polypodium aculeatum* L.

Distribution including China (Xinjiang only)

cytology "2n=164" [51]

Current Name *Polystichum acutidens* H. Christ

Cited name or basionym *Polystichum acutidens* H. Christ

Distribution Taiwan. China (Zhejiang, Hubei, Guangxi, Sichuan, Taiwan, Yunnan, Guizhou) Tibet S E part [166]; Tonkin [21]; Hunan [295] India, Burma Vietnam, the Moluccas, New Guinea and maybe the Philippines [57]

cytology 4x [57] tetraploid [70] [288]

Current Name *Polystichum acutipinnulum* Ching & K.H. Shing

Cited name or basionym *Polystichum acutipinnulum* Ching & K.H. Shing

Distribution China (Fujian, Henan, Hubei, Hunan, Sichuan, Guizhou, Yunnan 800-3000 m)

cytology 2n=82 [166]

Current Name *Polystichum alaskense* Maxon [db]

Cited name or basionym *Polystichum alaskense* Maxon

Distribution

cytology "2n=164" [51] n=ca .123 db & dpl

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Current Name *Polystichum andersonii* Hopkins [2]

Cited name or basionym *Polystichum andersoni* Hopkins

Distribution British Columbia

cytology "2n=164" [51]

Current Name *Polystichum anomalum* (Hk. & Arn.) J.Sm. [57]

Cited name or basionym *Polypodium anomalum* Hook. & Arn.

Distribution Ceylon, India, Vietnam, Thailand, China (widespread central and south 250-2850 m) Taiwan, Japan(Yaku Is.)

cytology hexaploid [57]

Current Name *Polystichum anomalum* (Hook. & Arn.) J. Smith

Cited name or basionym *Phegopteris eximium* Mett. ex Kuhn

Distribution Ceylon, China (widespread central and south 250-2850 m) Tonkin, Taiwan, Japan(Yaku Is.) Sri Lanka Thailand

cytology "2n=82" [51] [289]

Current Name *Polystichum atkinsonii* Bedd. [0] [10] [21] [57] 1

Cited name or basionym *Polystichum atkinsoni* Bedd.

Distribution n India, Nepal, Bhutan, China (Shaanxi, Hubei, Hunan, Sichuan, Guizhou, Yunnan), Japan; very rare in alpine regions [21]

cytology "2n=82" [51]

Current Name *Polystichum atkinsonii* Bedd. [0] [10] [21] [57] [

Cited name or basionym *Polystichum atkinsoni* Bedd.

Distribution n India, se China, Japan; very rare in alpine regions [21]

cytology "2n=82" [51]

Current Name *Polystichum bakerianum* (Atkins. ex Clarke) Di

Cited name or basionym *Aspidium prescottianum* (Wall. ex. Mett.) T. Mo

Distribution Ind. bor. [0] Afghanistan [44: suppl.43] Tibet, E part, China (Sichuan W part, Yunnan W and NW part - 2400 - 3500 m)

cytology diploid [57]

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Current Name *Polystichum bakerianum* Atkins. ex Diels [0]

Cited name or basionym *Polystichum bakerianum* (Atkins. ex Clarke) Di

Distribution Ind. bor. [0] Afghanistan [44: suppl.43] Tibet, E part, China (Sichuan W part, Yunnan W and NW part - 2400 - 3500 m)

cytology diploid [57]

Current Name *Polystichum biaristatum* (Blume) T. Moore [9] [

Cited name or basionym *Aspidium biaristatum* Blume

Distribution Java, Taiwan 1300-1600 m, China (Guangxi etc.). India incl Ceylon, Southeast Asia. Java, Sumatra, Lombok, Sulawesi (Celebes), Philippines [57]

cytology "2n=164" [51] [57]

Current Name *Polystichum braunii* (Spencer) Fée [47]

Cited name or basionym *Aspidium braunii* Spencer

Distribution circumboreal; in China (Heilongjiang, Jilin, Liaoning, Hebei, Shanxi, Shaanxi, Gansu, Anhui, Hunan W part, Hubei NW part, Sichuan) 1000-3400 m [166] recorded from Tibet [166] does not occur in the Indian subcontinent or the Sino-Himalaya [57]

cytology "2n=164" [51] [289]

Current Name *Polystichum braunii* (Spencer) Fée var. *purshii*

Cited name or basionym *Polystichum braunii* (Spencer) Fée

Distribution Eastern North America?

cytology "2n=164" [51]

Current Name *Polystichum californicum* (Eaton) Diels

Cited name or basionym *Aspidium californicum* Eaton

Distribution California, Oregon

cytology "2n=164" [51]

Current Name *Polystichum capillipes* (Bak.) Diels [0] [57] [166]

Cited name or basionym *Aspidium capillipes* Baker

Distribution Japan. China (Hubei W part, Sichuan SW part and E part, Guizhou NE, W part, Yunnan NE part, central part, NW part.) Tibet SE part. Bhutan. 1700-3900 m

cytology diploid [57]

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Current Name *Polystichum capillipes* (Bak.)Diels [57]

Cited name or basionym *Dryopteris* *inaense* Tagawa

Distribution Japan (central Honshu only) [21:659] also Taiwan etc [166]

cytology "2n=82" [289]

Current Name *Polystichum christiana*e (Jenm.)Und. & Maxon

Cited name or basionym *Aspidium* *christiana*e G.S.Jenman

Distribution Jamaica; limestone boulders, rocky slopes, and banks of humid forest ravines, 200-1000m

cytology n=41 [245]

Current Name *Polystichum chunii* Ching [3] [57]

Cited name or basionym *Polystichum* *chunii* Ching

Distribution China (Guizhou, Guangxi, Hunan;800-1350m) [166]. Nepal, Bhutan, India, Burma, Thailand, Vitenam [57]

cytology 2n=c.82 diploid [70] [57]

Current Name *Polystichum cochleatum* (Klotzsch)Hieron.

Cited name or basionym *Polypodium* *cochleatum* Klotzsch

Distribution Peru, Venezuela

cytology 2n from isozyme profile in our lab

Current Name *Polystichum craspedosorum* (Maxim.)Diels [0] [

Cited name or basionym *Aspidium* *craspedosorum* Maxim.

Distribution Japan, China [0] Korea, southern and eastern Manchuria, eastern Siberia [21]

cytology "2n=82" [51] [289]

Current Name *Polystichum craspedosorum* (Maxim.)Diels [34]

Cited name or basionym *Aspidium* *craspedosorum* Maxim.

Distribution

cytology "2n=82" [51]

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Current Name *Polystichum cystostegia* (W.J. Hooker) J.B. Ar

Cited name or basionym *Aspidium cystostegium* W.J.Hooker

Distribution

cytology "2n=164" [51]

Current Name *Polystichum deltodon* (Baker) Diels [0,49] [21] [

Cited name or basionym *Aspidium deltodon* Baker

Distribution China (Sichuan, Yunnan, Hubei, Hunan, Guizhou, Guangxi, Anhui, Zhejiang,) [34] Japan, Taiwan [1661] 1000-2600 m

cytology n=82 [289]

Current Name *Polystichum discretum* (D. Don) J.Sm. [3] [9] [

Cited name or basionym *Aspidium discretum* D. Don

Distribution Tibet, Bhutan, Nepal, India, Myanmar, China (Yunnan) 1700-2900 m, [166] not in Japan.

cytology 41 bivalents [70] [293] diploid sexual [57]

Current Name *Polystichum distans* Fournier

Cited name or basionym *Polystichum distans* Fournier

Distribution se Mexico

cytology 2n = 41 II [287]

Current Name *Polystichum drepanum*[0]

Cited name or basionym *Aspidium drepanum* Sw.

Distribution Madeira

cytology 4x [13]

Current Name *Polystichum dubium* (H.Karst.) Diels

Cited name or basionym *Phegopteris dubia* H.Karst.

Distribution Costa Rica, Colombia, Ecuador

cytology n= 41 II [302]

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Current Name *Polystichum dudleyi* Maxon [3]

Cited name or basionym *Polystichum dudleyi* Maxon

Distribution California

cytology "2n=82" [51]

Current Name *Polystichum echinatum* (Gmel.) C.Chr. [0][56]

Cited name or basionym *Polypodium echinatum* J.F.Gmel. in L.

Distribution Jamaica, Cuba, Hispaniola, Puerto Rico, 600-1150m, shaded rocky banks and limestone cliffs [56]

cytology n = 82 [245]

Current Name *Polystichum echinatum* (Gmel.)C.Chr.[0:581,5

Cited name or basionym *Aspidium mucronatum* Sw.

Distribution Jamaica, moist forest and rocky slopes in humid forests, 800-1700m [56]

cytology n=41 [245]

Current Name *Polystichum erosum* Ching & Shing[5]

Cited name or basionym *Polystichum erosum* Ching & K.H.Shing

Distribution China?

cytology tetraploid [288]

Current Name *Polystichum erythrosorum* A.R. Smith [db]

Cited name or basionym *Polystichum erythrosorum* A.R.Smith

Distribution Oaxaca etc

cytology 2n = 41 II [287]

Current Name *Polystichum falcinellum*(Sw.) C. Presl [0]

Cited name or basionym *Aspidium falcinellum* Sw.

Distribution Madeira

cytology "2n=328" [51]; 8x [13]

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Current Name *Polystichum fibrillopaleaceum*(Kodama)Tagaw

Cited name or basionym *Polystichum aculeatum* (L.)Roth

Distribution Japan, endemic [21]

cytology "2n=82" [51] [289]

Current Name *Polystichum formosanum* Ros. [2]; [233]

Cited name or basionym *Polystichum formosanum* Ros.

Distribution Taiwan [2] Ryukyu [21]

cytology 2x,4x [169]; 2x [289]

Current Name *Polystichum fuscopaleaceum* Alston [4]

Cited name or basionym *Polystichum fuscopaleaceum* Alston

Distribution Cameroons

cytology "2n=164" [51]

Current Name *Polystichum grandifrons* C.Chr. [3] [57]

Cited name or basionym *Polystichum grandifrons* C.Chr.

Distribution Taiwan, China (Guangxi, Guizhou, Yunnan 500-2300 m)

cytology diploid sexual [57]

Current Name *Polystichum grandifrons* C.Chr. [57] [166] [235]

Cited name or basionym *Polystichum kiusiuense* Tagawa

Distribution Japan [4] Taiwan [21]

cytology "2n=82" [51] n=82, 2x apogamous [289] see K

Current Name *Polystichum hancockii*(Hance)Diels [0] [9] [21] [

Cited name or basionym *Ptilopteris hancockii* Hance

Distribution Japa. China(Anhui, Zhejiang, Jiangxi, Fujian, Hunan, Guagdong, Guangxi) Taiwan. 60
0-1200 m [166]

cytology "2n=82" [51] [289]

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Current Name *Polystichum hancockii*(Hance)Diels [21]

Cited name or basionym *Aspidium yaeyamense* Mak.

Distribution Liu Kiu(=Ryukyu Is.)

cytology n=41 [289]

Current Name *Polystichum harpophyllum* (Zenker ex Kunze)S

Cited name or basionym *Polypodium harpophyllum* Zenker ex Kunze

Distribution India (south), Sri Lanka [57]

cytology 2x [57]

Current Name *Polystichum hartwegii*(Klotzsch)Hieron. [db]

Cited name or basionym *Aspidium hartwegii* Klotzsch

Distribution Guatemala

cytology 2n = 41 II [287]

Current Name *Polystichum igaense* Tagawa [4] [21] [47]

Cited name or basionym *Polystichum igaense* Tagawa

Distribution Japan, endemic [21]

cytology "2n=82" [51]

Current Name *Polystichum incongruum* J.P. Roux

Cited name or basionym *Polystichum incongruum* J.P. Roux

Distribution western and eastern Cape provinces

cytology n= 82 aff. Roux

Current Name *Polystichum kruckebergii* W.Wagner [5]

Cited name or basionym *Polystichum kruckebergii* W. Wagner

Distribution

cytology "2n=164" [51]

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Current Name *Polystichum kurokawae* Tagawa [4] [47]

Cited name or basionym *Polystichum kurokawae* Tagawa

Distribution Japan

cytology "2n=164" [51]

Current Name *Polystichum lachenense*(Hk.)Bedd.[0] [47] [57]

Cited name or basionym *Aspidium lachenense* W.J.Hooker

Distribution Himalayan India [0] Japan, Taiwan, China (Gansu, Xinjiang, Taiwan, Sichuan, Yunnan, Shansi, 3600-5000 m), Tibet [166]; alpine [21]

cytology n=82 [50] "2n=82,164" [51] [169]

Current Name *Polystichum lemmonii* Und.[0]

Cited name or basionym *Polystichum lemmoni* Und.

Distribution California to Alaska

cytology "2n=82" [51]

Current Name *Polystichum lentum* (D. Don) T. Moore [0] [57] [

Cited name or basionym *Aspidium lentum* D. Don

Distribution northern India, Bhutan, Nepal, Tibet, China (Yunnan), Burma, Thailand

cytology "2n=82" [51] 2n=82 [70], [293]

Current Name *Polystichum lonchitis*(L.)Roth [0] [47]

Cited name or basionym *Polypodium lonchitis* L.

Distribution Europe, Asia, America

cytology "2n=82" [51]

Current Name *Polystichum longifrons* Kurata [5]

Cited name or basionym *Polystichum longifrons* Kurata

Distribution Japan

cytology "2n=164" [51] [289]

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Current Name *Polystichum longipaleatum* H. Christ [1] [57] [1]

Cited name or basionym *Polystichum longipaleatum* H. Christ in Lecomte

Distribution Tibet, China (Hunan, Guangxi, Sichuan, Guizhou, Yunnan) 1100-2600 m [166] India [57]

cytology diploid sexual [57]

Current Name *Polystichum longipaleatum* H. Christ [51] [57][1]

Cited name or basionym *Aspidium setosum* Wall.

Distribution

cytology "2n=82" [51]

Current Name *Polystichum luctuosum*(Kze.)Moore[0 raised to

Cited name or basionym *Aspidium luctuosum* Kze.

Distribution southern Africa [0] Madagascar [3]

cytology 4x [13]

Current Name *Polystichum macleae* [13]

Cited name or basionym *Aspidium macleaii* Baker in Hk.

Distribution southern Africa

cytology 4x [13]

Current Name *Polystichum makinoi* (Tagawa) Tagawa

Cited name or basionym *Polystichum makinoi* (Tagawa) Tagawa

Distribution

cytology 2n=164 [70]

Current Name *Polystichum makinoi* (Tagawa)Tagawa[4:255] [

Cited name or basionym *Polystichum aculeatum* (L.)Roth

Distribution Japan [0] and China (Hebei, Shaanxi, Gansu S part, Jiangsu, Anhui, Zhejiang, Jiangsi, Fujian, Henan W and S part, Hubei W part, Hunan, Guangxi, Sichuan, Guizhou, Yunnan W and NE part, Tibet 600-2500 m [211] [166] also in India, the Philippines

cytology "2n=164" [51] [289] tetraploid sexual [57]

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Current Name *Polystichum manmeiense* (H.Christ) Nakaike [

Cited name or basionym *Aspidium manmeiense* H.Christ

Distribution Taiwan, China (Yunnan, Guizhou), Tibet 1600-2900 m Philippines [57]

cytology $2n=164$ [70]

Current Name *Polystichum mehrae* Fraser-Jenk. & Khullar [2

Cited name or basionym *Polystichum mehrae* Fraser-Jenk. & Khulla

Distribution Pakistan, India N and NW part, Nepal, Burma N part, Tibet E part, China (Sichuan W part, Yunnan)

cytology $2n = c.160$, $2n=164$ [70] tetraploid sexual [57]

Current Name *Polystichum microchlamys*(Christ)Kodama in

Cited name or basionym *Polystichum microchlamys*

Distribution

cytology $n=82$, $4x$ [289]

Current Name *Polystichum microchlamys*(Christ)Kodama in

Cited name or basionym *Aspidium microchlamys* H. Christ

Distribution Japan (Hokkaido, central-northern Honshu), Kuriles and Kamtchatka [21] also Attu [222]

cytology $n=41$, $2x$; ($2n=123$), $3x$ [289]

Current Name *Polystichum microchlamys*(Christ)Matsum. [22

Cited name or basionym *Polystichum braunii* (Spencer)Fée

Distribution eastern Asia

cytology " $2n=164$ " [51]

Current Name *Polystichum mohrioides*(Bory)C. Presl

Cited name or basionym *Aspidium mohrioides* Bory

Distribution Quito-Peru, Amer. aust. temp. & Antarct. Ins. Falklandicae. Ins. Marion. Ins. Amsterdam

cytology " $2n=82$ " [51] *

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Current Name *Polystichum moluccense* (Blume) T. Moore [57]

Cited name or basionym *Aspidium moluccense* Blume

Distribution Molucca Is. type, but apparently widespread in Malesia, also in the Philippines, Samoa, and south India, scan rcd from Fiji is this species as well [061114]

cytology diploid sexual [57]

Current Name *Polystichum monticola* N.C. Anthony & Schelpe

Cited name or basionym *Polystichum monticola* N.C. Anthony & Schel

Distribution South Africa, Lesotho

cytology 6x [13]

Current Name *Polystichum moupinense* (Franch.) Bedd. [0] [1]

Cited name or basionym *Aspidium moupinense* Franch.

Distribution China, Tibet. Bhutan, Nepal, India [57]

cytology tetraploid [288]

Current Name *Polystichum munitum* (Kaulf.) C. Presl [0]

Cited name or basionym *Aspidium munitum* Kaulf.

Distribution Alaska to California and e

cytology "2n=82" [51]

Current Name *Polystichum muricatum* (L.) Liebm.

Cited name or basionym *Polypodium muricatum* L.

Distribution s Mexico, GU, HO, NI, CR, PA Colombia, Venezuela, Ecuador, Peru, Jamaica, Hispaniola (Haiti, sw DR); humid secondary broadleaved forests, cloud forests, shaded slopes, 1200-1800m [56]

cytology "2n=82" [51] 2n = 41 II [287]

Current Name *Polystichum neolobatum* Nakai [3] [21] [12] [47]

Cited name or basionym *Polystichum neo-lobatum* Nakai

Distribution China (Shaanxi, Gansu, Henan, Hubei, Hunan, Zhejiang, Anhui, Jiangxi, Sichuan, Guizhou, Yunnan); Taiwan, Japan, Tibet, Nepal -- 1260-3000 m

cytology "2n=123" [51] triploid apomict [70] [289]

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Current Name *Polystichum nepalense* (Spreng.) C.Chr. [0] [1]

Cited name or basionym *Aspidium nepalense* Spreng.

Distribution Ind. bor., China (Yunnan, Szechuan)[0] Taiwan [21] high-montane, 2000-3000m in Taiwan [34] Tibet, Bhutan, Philippines [57]

cytology "2n=82" [51] sexual diploid [70] [57]

Current Name *Polystichum obai* Tagawa [3]

Cited name or basionym *Polystichum obai* Tagawa

Distribution Japan, endemic to Ryukyu [21]

cytology "2n=82" [51] [289]

Current Name *Polystichum obliquum*(D. Don)T. Moore [0] [21]

Cited name or basionym *Aspidium obliquum* D. Don

Distribution India bor. [0] China (Sichuan W part, Guizhou W part, Yunnan NW, central, and SW part) and Taiwan 1900-2800 m [166] Philippines [57]

cytology "2n=82" [51] [293]

Current Name *Polystichum ohmurae* Kurata [21]

Cited name or basionym *Polystichum ohmurae* Kurata

Distribution

cytology 41, 2x [289]

Current Name *Polystichum ohmurae* Kurata [4]

Cited name or basionym *Polystichum ohmurae* Kurata

Distribution Japan, endemic, in mountain regions [21]

cytology "2n=82" [51] [289]

Current Name *Polystichum omeiense* C.Chr.[0] [12] [166]

Cited name or basionym *Polystichum omeiense* C.Chr.

Distribution China(Sichuan S and SE part Guizhou W part, Yunnan NE SE part 750-1750 m)

cytology diploid sexual [70]

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Current Name *Polystichum orbiculatum* (Desv.) Gay [db 0211]

Cited name or basionym *Polystichum sodiroi* H. Christ

Distribution Ecuador

cytology "2n=82" [51]

Current Name *Polystichum orbiculatum*(Desv.)Gay [db]

Cited name or basionym *Polystichum orbiculatum* (Desv.)Remy

Distribution

cytology n=82 in CR aff DSB

Current Name *Polystichum otomasui* Kurata [5]

Cited name or basionym *Polystichum otomasui* Kurata

Distribution Japan (Kyusku/Kyusyu) [5] endemic to Japan [21]

cytology "2n=82" [51] [289]

Current Name *Polystichum ovatopaleaceum* (Kodama) Kurata

Cited name or basionym *Polystichum ovatopaleaceum* (Kodama)Kurata

Distribution

cytology 3x,4x [169]

Current Name *Polystichum ovatopaleaceum*(Kodama)Kurata [

Cited name or basionym *Polystichum aculeatum* (L.)Roth

Distribution Japan, China (Anhui, 600-1200 m)

cytology "2n=164" [51] [289]

Current Name *Polystichum ovatopaleaceum*(Kodama)Tagaw

Cited name or basionym *Polystichum aculeatum* (L.)Roth

Distribution Japan

cytology n=82 [289]

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Current Name *Polystichum parvipinnulum* Tagawa [4] [117] [1]

Cited name or basionym *Polystichum parvipinnulum* Tagawa

Distribution Taiwan, endemic, at 1000-2000m [21] -2400 m [166]

cytology "2n=82" [51]

Current Name *Polystichum piceopaleaceum* Tagawa [4] [21]

Cited name or basionym *Polystichum piceo-paleaceum* Tagawa

Distribution Taiwan [4] Japan(Sakurizima) [21] China (Shaanxi S part, Sichuan, Guizhou N part, Yunnan. Tibet SE part - 1200-3400 m. India S part. etc. [166] Afghanistan, Bhutan, India, Burma, Yemen [57]

cytology 2n=164 [70] [293] diploid and tetraploid sexual

Current Name *Polystichum plaschnickianum*(Kze.)Moore [0] [

Cited name or basionym *Aspidium plaschnickianum* Kze.

Distribution Jamaica (common), Hispaniola (occasional--southern Haiti, central and sw DR); moist rocky banks and ledges in wet forests 1175-1850m

cytology n=41 [245]

Current Name *Polystichum platyphyllum*(Willd.) C. Presl

Cited name or basionym *Aspidium platyphyllum* Willd.

Distribution American tropics; 1000-1600m [56]

cytology 2N=41 II [287]

Current Name *Polystichum polyblepharum* (Roem.)C.Presl [2

Cited name or basionym *Polystichum polyblepharum* (Roem.)C.Presl

Distribution

cytology n = 82 [289]

Current Name *Polystichum polyblepharum*(Röm. ex Kunze) C

Cited name or basionym *Aspidium polyblepharon* Römer ex Kunze

Distribution Japan (Honsyu, Sikoku, Kyusyu) and Korea [21] China (Jiangsu, Zhejiang, 100-400 m) [166]

cytology "2n=164"; n=82 [289]

CYTOLOGICAL INFORMATION FOR THE GENUS *POLYSTICHUM* AS OF 2006
prepared by D.S. Barrington, University of Vermont (dbarring@uvm.edu)
Numbers in brackets are publications --- available on request.

Current Name *Polystichum prescottianum* (Wall. ex Mett.) T.

Cited name or basionym *Aspidium prescottianum* Wall. nomen nudum

Distribution Nepal, Bhutan, India N part, Tibet 3400-3900 m, Taiwan(Ilan) alpine, etc. [21, 166]

cytology "2n=82" [51]

Current Name *Polystichum proliferum*(R.Br.)Presl [0 as sp.]

Cited name or basionym *Aspidium proliferum* R. Br.

Distribution Australia, locally naturalized in NZ

cytology "2n=164" [51]

Current Name *Polystichum pseudomakinoi* Tagawa [4] [21] [4]

Cited name or basionym *Polystichum pseudo-makinoi* Tagawa

Distribution Japan. China (Jiangsu, Anhui, Zhejiang, Jiangxi, Fujian, Henan, Hunan, Guangdong NE part, Guangxi, Sichuan, Guizhou - 200-2000 m).

cytology "2n=164" [51] [289] [166]

Current Name *Polystichum punctiferum* C.Chr. [57] [166] [295]

Cited name or basionym *Polystichum virescens* Ching & S.K.Wu

Distribution China

cytology 2n=82 (2x) [270]

Current Name *Polystichum pungens*(Klf.)Presl [0]

Cited name or basionym *Aspidium pungens* Klf.

Distribution Africa austr. Réunion [0]

cytology 8x [13]

Current Name *Polystichum retrosopaleaceum*(Kodama)Taga

Cited name or basionym *Polystichum aculeatum*

Distribution Korea, Japan [4] cool-temperate regions [21] China (Anhui, Zhejiang, Jiangxi, Hubei 600-1600 m)

cytology "2n=82" [51] [289]

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Current Name *Polystichum richardii* (Hook.) J.Sm. [0] [176] [2]

Cited name or basionym *Aspidium richardi* W.J.Hooker

Distribution New Zealand, Fiji [0]

cytology "2n=164" [51]

Current Name *Polystichum rigens* Tagawa [4] [21] [47] [166] [

Cited name or basionym *Polystichum rigens* Tagawa

Distribution Japan [4] China (Hubei, Shanx, Gansu S part) [166] sporadic in warm-temperate [21]

cytology "2n=123" [51] [289]

Current Name *Polystichum scariosum*(Roxb.)C. Morton [5] [4]

Cited name or basionym *Polypodium scariosum* Roxb.

Distribution Amboyna, Yakushima. or widespread in Assia [57]

cytology diploid sexual [57]

Current Name *Polystichum scopulinum* (D.C.Eaton) Maxon

Cited name or basionym *Aspidium aculeatum*

Distribution western US, Gaspé, [Newfoundland-extinct?]

cytology "2n=164" [51]

Current Name *Polystichum semifertile*(Clarke)Ching [4] [57] [1

Cited name or basionym *Aspidium aculeatum* (L.)Sw.

Distribution Tibet. China (Sichuan, Yunnan) India, Nepal, Sikkim, Myanmar, Thailand, Vietnam. 1000-3000 m [166]

cytology "2n=82" [51] 2n=82 [70] [166]

Current Name *Polystichum setiferum* (Forssk.) T. Moore ex W

Cited name or basionym *Polypodium setiferum* Forssk.

Distribution Europe incl Azores, Canary Is., Madeira, Atlas Mountains

cytology "2n=82" [51]

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Current Name *Polystichum setigerum* Presl [db]

Cited name or basionym *Polystichum setigerum* Presl

Distribution Alaska etc

cytology [6x]

Current Name *Polystichum shikuokaense* Nakaike [25]

Cited name or basionym *Polystichum fibrillopaleaceum*

Distribution

cytology "2n=82" [51]

Current Name *Polystichum shimurae* Sa.Kurata ex Seriz. [27]

Cited name or basionym *Polystichum shimurae* Sa.Kurata ex Seriz.

Distribution Japan. China (Zhejiang)

cytology "2n=164" [51]

Current Name *Polystichum squarrosus*(D.Don)Fée [0 as sp.]

Cited name or basionym *Aspidium squarrosus* D. Don

Distribution India, Bhutan, Nepal, Tibet etc.. 1900-2400 m. China (Yunnan, Sichuan, Gansu) [295]

cytology "2n=82" [51] diploid [70] 2n=164 [293]

Current Name *Polystichum stenophyllum* (Franch.) H.Christ [0]

Cited name or basionym *Polystichum stenophyllum* (Franch.) H. Christ

Distribution Tibet orient. [0] China (Yunnan, Szechuan) [34] Taiwan, Ind. bor. [3] Bhutan, Nepal [57]

cytology "2n=82" [51] [288]

Current Name *Polystichum stimulans* [3] [db] [57] [166]

Cited name or basionym *Polystichum stimulans* (Kunze ex Mett.) Bed

Distribution Ind. bor. , China (Tibet, Sichuan, Yunnan, Guizhou 1700-3000 m) Nepal.

cytology "2n=82,164" [51] diploid sexual [57]

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Current Name *Polystichum stimulans*(Kunze ex Mett.) Bedd. [

Cited name or basionym *Polystichum stimulans* Presl nomen nudum

Distribution Ind. bor. , China (Tibet, Sichuan, Yunnan, Guizhou 1700-3000 m) Nepal.

cytology "2n=82,164" [51] diploid sexual [57]

Current Name *Polystichum subinerme* (Kze.) Fraser-Jenkins [

Cited name or basionym *Aspidium subinerme* Kze.

Distribution India austr. only

cytology 4x sexual [57]

Current Name *Polystichum submarginale*(Baker)Ching ex P.S

Cited name or basionym *Polystichum auriculatum* (L.) C. Presl

Distribution China (Sichuan, Guizhou, Yunnan 750-2500 m)

cytology

Current Name *Polystichum tagawanum* Kurata [21]

Cited name or basionym *Polystichum tagawanum*

Distribution

cytology n=82 [289]

Current Name *Polystichum tagawanum* Kurata [4] [21]

Cited name or basionym *Polystichum tagawanum* Kurata

Distribution Japan, endemic [21]

cytology "2n=164" [51] [289]

Current Name *Polystichum thomsonii* (Hook.f. in Hook.)Bedd.

Cited name or basionym *Aspidium thomsoni* Hook.f. in Hook.)

Distribution Afghanistan.Myanmar N part, Sikki N part, Bhutan, Nepal, India NE NW part; Taiwan, China (Sichuan W part, Guizhou, Yunnan NE, central, NW part); Tibet, - alpine regions [166]

cytology n=82 [50] [57]

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Current Name *Polystichum transkeiense* W. Jacobsen [27]

Cited name or basionym *Polystichum transkeiense* W. Jacobsen

Distribution South Africa(Cape Province, Natal, Transvaal)

cytology 4x [13]

Current Name *Polystichum transvaalense* N.C.Anthony [27]

Cited name or basionym *Polystichum transvaalense* N.C.Anthony

Distribution South Africa (Transvaal, Natal)

cytology 4x [13]

Current Name *Polystichum tridens*(Hk.)Fée [0]

Cited name or basionym *Aspidium tridens* Moore ex W.J.Hooker

Distribution Jamaica, Hispaniola [2:57]

cytology "2n=82" [51]

Current Name *Polystichum tripterum*(Kunze)Presl [21]

Cited name or basionym *Polystichum tripterum* (Kunze)Presl

Distribution

cytology n=41 [289]

Current Name *Polystichum tripterum*(Kze.)Presl [0][12] [47] [1

Cited name or basionym *Aspidium tripterum* Kunze

Distribution Japonia. Ins. Tsus Sima [0] eastern Siberia, southern Saghalien[=Sakhalin I.] , Korea and China (20 provinces 400-2300 m) [21] [166]

cytology "2n=82" [51] [166] [289]

Current Name *Polystichum tsus-simense* (Hook.) J.Sm. [0 as

Cited name or basionym *Aspidium tsus-simense* Hook.

Distribution Japan, China (widespread) [0]; Korea, Taiwan [21] warm-temperate regions [21]

cytology "2n=123" [51] triploid apomict [70] [289]

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Current Name *Polystichum underwoodii* Maxon [1]

Cited name or basionym *Polystichum underwoodii* Maxon

Distribution Jamaica

cytology n=82 [245]

Current Name *Polystichum vestitum* (G. Forst.) C. Presl [0] [1]

Cited name or basionym *Polypodium vestitum* Georgio Forster

Distribution NZ, Ins. Antarct. Amer. antarct. Australia [0]

cytology "2n=164" [51]

Current Name *Polystichum walkerae*(Hook.)Sledge [228]

Cited name or basionym *Polypodium walkerae* Hook.

Distribution Sri Lanka 690-900 m [228]

cytology diploid [57]

Current Name *Polystichum wilsonii* H.Christ [1] [21] [13] [57] [

Cited name or basionym *Polystichum wilsonii* H. Christ

Distribution China [1] Africa, Madagascar, Himalaya, Bhutan, Taiwan [13]

cytology 4x [13] [246]

Current Name *Polystichum xiphophyllum* (Baker) Diels [0] [21]

Cited name or basionym *Aspidium xiphophyllum* Baker

Distribution China (Sichuan, Hubei south part,Guizhou, Yunnan 650-1800 m); Taiwan [21]

cytology triploid apomict [70]

Current Name *Polystichum yunnanense* H. Christ [1] [57] [166

Cited name or basionym *Polystichum yunnanense* H. Christ

Distribution Nepal, Tibet. [166] China (Sichuan, Yunnan [166] Hubei [57]) Burma [57]

cytology tetraploid [70] [57]