

## Median clade ages from Testo and Sundue (2016)

"A 4000-species dataset provides new insight into the evolution of ferns"

\*\*All ages provided are crown ages, except when specified otherwise\*\*

All ages are in millions of years (MYA); please see original text to cross-reference.

<b>Clade</b>	<b>Family</b>	<b>Median Age</b>	<b>95% HPD_Low</b>	<b>95% HPD_High</b>
Anemia	Anemiaceae	140.6	138.4	142.7
Anemiaceae (Stem)	Anemiaceae	198.8	172.1	204.2
Aspleniaceae	Aspleniaceae	130.4	119.3	136.3
Aspleniaceae (Stem)	Aspleniaceae	185.8	183.8	196.1
Asplenium	Aspleniaceae	111.4	107.4	118.4
Hymenasplenium	Aspleniaceae	94.9	89.2	99.8
Athyriaceae (Stem)	Athyriaceae	88.1	87.1	91.1
Deparia	Athyriaceae	31.9	27.4	35.1
Diplazium	Athyriaceae	30.8	28.0	33.8
Blechnaceae	Blechnaceae	59.5	57.2	61.8
Blechnaceae (Stem)	Blechnaceae	85.9	78.1	86.0
Cibotiaceae (Stem)	Cibotiaceae	173.9	171.1	176.8
Culcitaceae (Stem)	Culcitaceae	99.4	96.9	116.6
Alsophila	Cyatheaceae	46.9	42.1	48.7
Cyathea	Cyatheaceae	47.8	41.1	63.1
Cyatheaceae (Stem)	Cyatheaceae	173.9	171.1	176.8
Gymnosphaera	Cyatheaceae	22.8	17.4	30.1
Sphaeropteris	Cyatheaceae	86.7	62.7	94.6
Cystodiaceae (Stem)	Cystodiaceae	206.4	180.0	220.5
Cystopteridaceae (Stem)	Cystopteridaceae	130.9	120.0	132.1
Cystopteris	Cystopteridaceae	38.6	28.2	40.8
Gymnocarpium	Cystopteridaceae	17.5	16.5	19.6
Davalliaceae	Davalliaceae	57.2	50.3	66.3
Davalliaceae (Stem)	Davalliaceae	92.4	91.8	97.6
Dennstaedtiaceae	Dennstaedtiaceae	155.3	141.7	183.6
Dennstaedtiaceae (Stem)	Dennstaedtiaceae	235.4	230.3	239.1
Hypolepis	Dennstaedtiaceae	44.7	33.0	55.3
Microlepia	Dennstaedtiaceae	42.4	35.0	52.2
Pteridium	Dennstaedtiaceae	42.2	32.7	47.5
Dicksoniaceae (Stem)	Dicksoniaceae	131.9	94.7	172.1
Didymochlaenaceae (Stem)	Didymochlaenaceae	160.9	158.6	172.5
Diplaziopsidaceae (Stem)	Diplaziopsidaceae	138.7	128.4	144.6
Dipteridaceae (Stem)	Dipteridaceae	239.7	228.8	241.6
Arachniodes	Dryopteridaceae	53.7	42.7	58.2
Bolbitis	Dryopteridaceae	46.9	44.7	57.3
Ctenitis	Dryopteridaceae	38.0	34.7	46.2
Dryopteridaceae (Stem)	Dryopteridaceae	139.1	132.1	139.5
Dryopteris	Dryopteridaceae	46.4	41.8	50.7
Elaphoglossum	Dryopteridaceae	62.8	60.3	66.8
Lastreopsis	Dryopteridaceae	51.4	48.3	55.5
Megalastrum	Dryopteridaceae	29.1	24.3	41.5

Parapolystichum	Dryopteridaceae	54.5	47.1	62.5
Stigmatopteris	Dryopteridaceae	28.2	15.5	33.0
Equisetaceae (Stem)	Equisetaceae	431.1	420.6	482.0
Equisetum	Equisetaceae	146.4	128.7	153.6
Gleicheniaceae	Gleicheniaceae	122.2	120.4	125.7
Gleicheniaceae (Stem)	Gleicheniaceae	278.1	275.0	291.4
Hemidictyaceae (Stem)	Hemidictyaceae	164.3	154.7	170.3
Hymenophyllaceae	Hymenophyllaceae	247.1	235.2	277.7
Hymenophyllaceae (Stem)	Hymenophyllaceae	345.4	343.8	350.2
Hymenophylloideae	Hymenophyllaceae	152.6	136.9	185.1
Trichomanoideae	Hymenophyllaceae	230.6	223.4	235.7
Hypodematiaceae (Stem)	Hypodematiaceae	146.5	143.9	152.1
Lindsaeaceae	Lindsaeaceae	179.5	162.9	184.4
Lindsaeaceae (Stem)	Lindsaeaceae	247.1	241.0	252.5
Lomariopsidaceae (Stem)	Lomariopsidaceae	129.7	122.9	134.6
Lomariopsis	Lomariopsidaceae	48.4	43.8	54.6
Lonchitidaceae (Stem)	Lonchitidaceae	206.4	180.0	220.5
Loxsomataceae (Stem)	Loxsomataceae	129.5	116.0	147.8
Lygodiaceae (Stem)	Lygodiaceae	298.3	220.8	305.8
Lygodium	Lygodiaceae	74.0	69.4	97.6
Angiopteris	Marattiaceae	19.5	16.0	29.0
Danaea	Marattiaceae	82.7	73.8	87.1
Marattia	Marattiaceae	12.8	4.9	40.9
Marattiaceae	Marattiaceae	138.6	129.6	159.9
Marattiaceae (Stem)	Marattiaceae	365.9	363.9	392.7
Ptisana	Marattiaceae	35.4	28.4	37.9
Marsilea	Marsileaceae	104.6	103.5	114.3
Marsileaceae	Marsileaceae	126.1	103.5	114.3
Marsileaceae (Stem)	Marsileaceae	153.4	150.2	204.3
Matonia	Matoniaceae	47.2	31.1	61.5
Matoniaceae (Stem)	Matoniaceae	239.7	228.8	241.6
Metaxyaceae (Stem)	Metaxyaceae	131.9	94.7	172.1
Nephrolepidaceae (Stem)	Nephrolepidaceae	124.2	117.0	127.9
Nephrolepis	Nephrolepidaceae	66.0	58.1	80.3
Oleandraceae (Stem)	Oleandraceae	101.4	97.4	104.3
Onocleaceae	Onocleaceae	69.0	65.7	72.6
Onocleaceae (Stem)	Onocleaceae	85.9	78.1	86.0
Botrychium	Ophioglossaceae	18.5	17.0	20.4
Ophioglossaceae	Ophioglossaceae	204.9	198.9	223.9
Ophioglossaceae (Stem)	Ophioglossaceae	368.8	338.5	371.7
Ophioglossum	Ophioglossaceae	176.5	168.1	184.3
Sceptridium	Ophioglossaceae	20.4	18.0	24.2
Osmundaceae	Osmundaceae	203.7	197.5	223.5
Osmundaceae (Stem)	Osmundaceae	357.0	355.8	357.5
Plagiogyriaceae	Plagiogyriaceae	53.7	45.6	74.1
Plagiogyriaceae (Stem)	Plagiogyriaceae	99.4	96.9	116.6
Campyloneurum	Polypodiaceae	41.5	35.2	48.0

Grammitioideae	Polypodiaceae	40.8	39.3	42.3
Platyserium	Polypodiaceae	40.6	32.4	43.0
Pleopeltis	Polypodiaceae	21.9	20.1	25.1
Polypodiaceae	Polypodiaceae	90.5	89.6	92.7
Polypodiaceae (Stem)	Polypodiaceae	91.0	89.6	91.2
Polypodium	Polypodiaceae	29.7	28.0	32.9
Pyrrosia	Polypodiaceae	51.3	48.9	54.8
Serpocaulon	Polypodiaceae	31.6	26.4	37.8
Psilotaceae (Stem)	Psilotaceae	368.8	338.5	371.7
Cheilantheoideae	Pteridaceae	108.4	105.4	115.4
Cryptogrammoideae	Pteridaceae	87.5	83.8	97.2
Parkerioideae	Pteridaceae	125.2	116.8	141.1
Pteridaceae	Pteridaceae	183.7	178.4	189.2
Pteridaceae (Stem)	Pteridaceae	184.6	178.4	189.2
Pteridoideae	Pteridaceae	125.7	121.9	128.2
Vittarioideae	Pteridaceae	120.2	115.0	123.5
Rhachidosoraceae (Stem)	Rhachidosoraceae	134.3	122.7	136.2
Rhachidosorus	Rhachidosoraceae	33.0	26.1	42.9
Saccolomataceae (Stem)	Saccolomataceae	236.1	227.0	239.5
Azolla	Salviniaceae	82.3	71.6	92.9
Salvinia	Salviniaceae	56.2	46.5	62.8
Salviniaceae	Salviniaceae	94.0	91.3	98.8
Salviniaceae (Stem)	Salviniaceae	153.4	150.2	204.3
Schizaea	Schizaeaceae	136.4	134.5	143.5
Schizaeaceae (Stem)	Schizaeaceae	198.8	172.1	204.2
Arthropteris	Tectariaceae	62.2	52.8	66.1
Tectariaceae (Stem)	Tectariaceae	107.7	103.8	111.6
Amauropelta	Thelypteridaceae	28.4	24.5	30.8
Goniopteris	Thelypteridaceae	15.3	13.7	16.5
Meniscium	Thelypteridaceae	16.7	14.3	18.0
Steiropteris	Thelypteridaceae	27.6	26.8	28.3
Thelypteridaceae	Thelypteridaceae	103.5	101.1	104.4
Thelypteridaceae (Stem)	Thelypteridaceae	117.0	115.9	122.9
Thyrsopteridaceae (Stem)	Thyrsopteridaceae	206.5	196.2	214.8
Woodsia	Woodsiaceae	68.2	67.8	68.9
Woodsiaceae (Stem)	Woodsiaceae	93.4	91.6	100.1
Ferns (excl. Equisetales)		406.8	401.7	411.4
Ferns (incl. Equisetales)		428.3	420.6	432.0
Leptosporangiate ferns		356.8	355.8	357.5
Polypodiales		257.7	251.6	260.0