

附录2 石松类和蕨类植物已发表的线粒体基因组统计 (* 表示不完整的线粒体基因组。数据获取日期: 2019年3月1日)

Appendix 2 Published mitochondrial genomes of lycophytes and ferns (* indicate partial mitochondrial genome. accessed on 2019-03-01)

序号 No.	物种名 Species	目 Order	科 Family	基因库登录名 GenBank accession no.	基因组大小 Genome size bp	GC 含量 GC content	参考文献 Reference	备注 Note
1	<i>Huperzia squarrosus</i>	Lycopodiales	Lycopodiaceae	NC017755	413,530	44.20%	Liu et al, 2012	
	<i>Isoetes engelmannii</i>	Isoetales	Isoetaceae	FJ628360	35,959*	49.40%	Grewe et al, 2009	Clone fosmid 30K18
				FJ536259	38,848*	49.00%	Grewe et al, 2009	Clone fosmid 19N12
2				FJ390841	38,905*	48.70%	Grewe et al, 2009	Clone fosmid 26A6
				FJ176330	39,473*	49.30%	Grewe et al, 2009	Clone fosmid 28M14
				FJ010859	33,558*	48.80%	Grewe et al, 2009	Clone fosmid 11P20
3	<i>Selaginella moellendorffii</i>	Selaginellales	Selaginellaceae	JF338144	143,606	68.10%	Hecht et al, 2011	
4	<i>Ophioglossum californicum</i>	Ophioglossales	Ophioglossaceae	KX171637	372,339	52.20%	Guo et al, 2017	
5	<i>Psilotum nudum</i>	Psilotales	Psilotaceae	KX171638	364,070*	51.40%	Guo et al, 2017	Chromosome 1
				KX171639	264,483*	50.90%	Guo et al, 2017	Chromosome 2

参考文献

- Grewe F, Viehoveer P, Weisshaar B, Knoop V (2009) A trans-splicing group I intron and tRNA-hyperediting in the mitochondrial genome of the lycophyte *Isoetes engelmannii*. *Nucleic Acids Research*, 37, 5093–5104.
- Guo W, Zhu A, Fan W, Mower JP (2017) Complete mitochondrial genomes from the ferns *Ophioglossum californicum* and *Psilotum nudum* are highly repetitive with the largest organellar introns. *New Phytologist*, 213, 391–403.
- Hecht J, Grewe F, Knoop V (2011) Extreme RNA editing in coding islands and abundant microsatellites in repeat sequences of *Selaginella moellendorffii* mitochondria: the root of frequent plant mtDNA recombination in early tracheophytes. *Genome Biology and Evolution*, 3, 344–358.
- Liu Y, Wang B, Cui P, Li L, Xue J-Y, Yu J, Qiu Y-L (2012) The Mitochondrial Genome of the Lycophyte *Huperzia squarrosa*: The Most Archaic Form in Vascular Plants. *PLoS ONE*, 7, e35168.