**Table 1.** Classification schemes as proposed by previous characters and as implied by the current study. \* denotes that a taxon has been assigned to Osmundaceae but no subfamily according to Bomfleur et al. (2017). \*\* denotes that a taxon was found in a polytomy in the strict consensus of Wang et al. (2014). Genera not included in the column indicate that the taxon was either unsampled in the respective study or pruned from the consensus tree.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Miller (1961, 1971), Tidwell and Ash (1994)** | **Wang et al. (2014)** | **Bomfleur et al. (2017)** | **This study** | |
| **Dependencies included** | **Dependencies excluded** |
| Guaireaceae  *Itopsidema*  *Donwelliacaulis*  *Shuichengella*  *Guairea*  *Lunea*  Osmundaceae  Thamnopteroideae  *Chasmatopteris*  *legosigopteris*  *Thamnopteris*  *Bathypteris*  *Anomorrhoea*  *Petcheropteris*  *Zalesskya*  Osmundoideae  *Leptopteris*  *Millerocaulis*  *Osmunda*  *Osmundacaulis*  *Palaeosmunda*  *Todea*  *Ashicaulis*  *Australosmunda*  *Aurealcaulis* | Guaireaceae  *Itopsidema*  *Donwelliacaulis*  *Shuichengella*  *Guairea*  *Lunea*  *Zhongmingella*  *Osmundacaulis*  Chasmatoperydaceae  *Chasmatopterys*  *Iegosigopteris*  *Thamnopteris*  Osmundaceae (“crown”)  *Leptopteris*  *Plenasium*  *Todea*  *Osmunda* (+ *Claytosmunda* and *Osmundastrum)*  *(Osmundaceae?)\*\**  Osmundaceae (“stem”)  *Millerocaulis*  *Palaeosmunda (Osmundaceae?)\*\**  *Ashicaulis (Osmundaceae?)\*\**  *Aurealcaulis (Osmundaceae?)\*\**  Incertae sedis  *Chasmatopterys (Osmundales?)\*\**  *Thamnopteris (Osmundales?)\*\**  *Bathypteris (Osmundales?)\*\** | Guaireaceae  Itopsidemoideae  *Itopsidema*  *Donwelliacaulis*  *Tiania*  Guaireoideae  *Guairea*  *Lunea*  *Zhongmingella*  Osmundaceae  Thamnopteroideae  *Chasmatopterys*  *Thamnopteris*  Osmundoideae  *Leptopteris*  *Millerocaulis*  *Osmunda*  *Claytosmunda*  *Osmundastrum*  *Palaeosmunda*  *(+Millerocaulis stipabonettiorum)*  *Todea*  *Plenasium (+Aurealcaulis)*  *Osmundacaulis\**  *Shuichengella\**  *Bathypteris\** | Guaireaceae  Itopsidemoideae  *Itopsidema*  *Donwelliacaulis*  *Tiania*  *Lunea*  Guaireoideae  *Guairea*  *Zhongmingella*  *Osmundacaulis\**  *Shuichengella\**  Osmundaceae  Thamnopteroideae  *Chasmatopterys*  *Thamnopteris*  *Bathypteris\**  Osmundoideae  *Leptopteris*  *Millerocaulis*  *Osmunda*  *Claytosmunda*  *Osmundastrum*  *Palaeosmunda (- P. williamsii)*  *Plenasium*  *Todea*  *Anomorrhoea* | Guaireoideae  *Guairea*  *Lunea\*\**  *Zhongmingella\*\**  *Osmundacaulis (- O. janae)\**  *Shuichengella\*, \*\**  Osmundaceae  Thamnopteroideae  *Thamnopteris*  *(- T. splendida)*  *Bathypteris\**  Osmundoideae  *Leptopteris*  *Millerocaulis*  *Claytosmunda*  *Osmundastrum*  *Palaeosmunda*  *Todea*  *Osmundacaulis janae\** |