Supplemental Table 1 - List of 54-taxa selected for MAT reconstructions

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| *Abies* | *Larrea* |
| *Acer* | *Liquidambar* |
| *Alnus* | *Lycopodium* |
| Apiaceae | Myricaceae |
| Aquifoliaceae | *Nyssa* |
| *Arceuthobium* | *Ostrya carpinifolia* |
| *Artemisia* | *Oxyria* |
| Asteraceae | Papaveraceae |
| *Betula* | *Picea* |
| Brassicaceae | *Pinus* |
| Cactaceae | Plantaginaceae |
| *Carya* | *Platanus* |
| *Caryophyll* | Poaceae |
| *Castanea* | *Populus* |
| *Celtis* | *Prosopis* |
| *Cephalanthus* | *Pteridium* |
| Chenopodiaceae-Amaranthaceae | *Quercus* |
| *Chrysolepis* | Rosaceae |
| *Corylus* | *Salix* |
| Cupressaceae | *Sarcobatus* |
| Cyperaceae | Saxifragaceae |
| *Dryas* | *Sphagnum* |
| *Ephedra* | *Taxodium* |
| Ericaceae | *Tilia* |
| *Fagus* | *Tsuga* |
| *Fraxinus* | *Ulmus* |
| *Juglans* |  |
| *Larix* |  |