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| **Table S2.** Morphological traits of vegetative parts of 12 accessions of *M. charantia* |
| **Genotype** | **Stem shape** | **Length of internode (cm)** | **Leaf blade length(cm)** | **Leaf blade width (cm)** | **Leaf blade margin type** | **Leaf blade shape** | **Leaf blade number of lobes** | **Depth of lobing** | **Petiole length (cm)** |
| **MC 1** | angular | 4.46±0.10 | 4.54±0.10 | 5.00±0.63 | serrate | reniform | 7 | shallow | 2.68±0.30 |
| **MC 2** | angular | 8.20±0.75 | 4.40±0.374 | 5.10±0.49 | serrate | reniform | 7 | deep | 1.74±0.22 |
| **MC 3** | angular | 4.16±0.29 | 7.00±0.70 | 6.60±0.37 | entire | cordate | 7 | shallow | 3.96±0.37 |
| **MC 4** | angular | 8.30±0.42 | 8.65±0.20 | 9.34±0.45 | serrate | cordate | 7 | deep | 6.5±0.58 |
| **MC 5** | angular | 7.10±0.39 | 7.10±0.34 | 8.04±0.42 | serrate | reniform | 7 | medium | 5.38±0.52 |
| **MC 6** | angular | 5.60±1.12 | 5.20±0.52 | 6.4±0.31 | entire | reniform | 7 | medium | 4.52±0.27 |
| **MC 7** | angular | 4.46±0.32 | 4.74±0.33 | 5.56±0.34 | serrate | reniform | 7 | shallow | 3.60±0.39 |
| **MC 8** | angular | 10.50±1.14 | 11.2±1.16 | 11.00±0.89 | serrate | cordate | 7 | medium | 4.14±0.64 |
| **MC 9** | angular | 11.40±1.20 | 12.00±0.12 | 11.24±0.10 | serrate | reniform | 7 | medium | 5.54±0.47 |
| **MC 10** | angular | 10.00±0.63 | 10.10±0.48 | 12.80±0.75 | multifid | reniform | 7 | deep | 4.32±0.46 |
| **MC 11** | angular | 11.40±1.85 | 13.60±1.50 | 11.00±0.89 | serrate | cordate | 7 | medium | 5.08±0.40 |
| **MC 12** | angular | 8.10±0.54 | 8.46±0.37 | 10.21±0.47 | entire | cordate | 7 | medium | 4.98±0.91 |
| \*Each value represents the mean ± standard error of minimum 10 replicates.  |