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| **Table S1. Minimum number of origins for characters states examined, within Urticaceae.** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 　 | 　 | **TOTAL** | State 1 | 　 | State 2 | 　 | State 3 | 　 | State 4 | 　 | State 5 | 　 | State 6 | 　 | State 7 | 　 | State 8 | 　 | State 9 | 　 | State 10 | 　 |
| **1** | Habit  | **12** | herbaceous\*\* | 5 | woody | 7 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| **2** | Cystolith presence | **1** | absent\* | 0 | present\* | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **3** | Cystolith form | **16** | punctiform\*\*  | 2 |  linear | 2 | virgate  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **4** | Stigma form | **29** | penicillate\* | 2 | filiform\* | 1 | capitate | 3 | subulate | 3 | ligulate | 6 | peltate | 5 | circular |  | oblong | 1 | semilunar |  | spatulate | 1 |
| **5** | Phyllotaxis | **12** | alternate\*\* | 3 | opposite | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **6** | Stipule presence | **1** | absent | 1 | present\*\* | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **7** | Stipule form | **28** | lanceolate\*\* | 5 | broad triangle | 7 | narrow triangle | 4 | linear  | 3 | oblong | 5 | ovate | 4 |  |  |  |  |  |  |  |  |
| **8** | Stipule fusion | **15** | free\*\* | 4 | fused (incl partly fused) | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **9** | Stipule position | **12** | intrapetiolar | 9 | interpetiolar\*\* | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Pistillate perianth presence | **2** | absent | 2 | present\*\* | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Pistillate perianth lobes fusion | **7** | free\* | 1 | connate (incl partly fused) \* | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Achene symmetry | **11** | straight\*\* | 6 | oblique | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | External morphology of achene | **40** | smooth-and-dull\* | 24 | ribbed | 1 | linolate | 3 | tubeculate\* | 2 | reticular | 3 | S+shiny | 3 | verrucose |  |  |  |  |  |  |  |
| 14 | leaf venation apparentness | **1** | inapparent | 1 | apparent\*\* | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | leaf venation-pinnate versus palmate | **9** | pinnate | 7 | palmate\*\* | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | Types of Palmate vernation | **6** | trinerved\*\* | 1 | semi triplinerved | 1 | triplinerved  | 1 | >3 nerves | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | Number of stamens | **1** | more than one\*\* | 0 | only one | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | Stinging hairs presence | **3** | present | 1 | absent\*\* | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | Filament | **2** | inflexed\*\* | 0 | straight | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | Hair apex angle | **1** | hooked (incongruent) | 1 | congruent with axis\*\* | 0 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *NB where clades comprise several accessions with more than one state, this is treated as a maximum of one origin for each state concerned.* |
| *\*\*Two Asterisks indicate unequivocal ancestral state; number of origins following is* ***reversals*** *to this state only.* |
| *\* indicates possible ancestral state, one of two.* |
| "TOTAL" shows total number of changes to that character inferred. May be higher than sum of origins states, because it includes ambiguities where (e.g.) 2 changes are inferred but exact type of change is uncertain.  |