

TABLE 1

NUCLEAR VOLUMES, DNA CONTENT PER CELL, INTERPHASE CHROMOSOME VOLUMES, AND DNA CONTENT PER CHROMOSOME OF 30 SPECIES OF HIGHER PLANTS

| Species | 2n ^a | NV ^b ± SE (μ ³) | | DNA per cell ^c | ICV, ^d root | DNA per chrom. ^e |
|---|-----------------|--|--------------|---------------------------|------------------------|-----------------------------|
| | | Shoot | Root | | | |
| 1. <i>Kalanchoë daigremontiana</i> | 34 | 67 ± 3.2 | 105 ± 3.8 | 11 ± 1 | 3.1 ± 0.1 | 0.3 |
| 2. <i>Raphanus sativus</i> ^f | 18 | 91 ± 4.4 | 111 ± 2.9 | 5 ± 1 | 6.1 ± 0.2 | 0.3 |
| 3. <i>Rumex sanguineus</i> | 20 | 106 ± 3.1 | 120 ± 3.9 | 5 ± 1 | 6.0 ± 0.2 | 0.2 |
| 4. <i>Tropaeolum majus</i> | 28 | 177 ± 9.1 | 152 ± 4.4 | 11 ± 1 | 5.4 ± 0.4 | 0.4 |
| 5. <i>Vicia angustifolia</i> | 12 | 171 ± 6.9 | 186 ± 5.8 | 10 ± 1 | 15.5 ± 0.3 | 0.8 |
| 6. <i>Rumex stenophyllus</i> | 60 | 165 ± 8.6 | 212 ± 6.2 | 12 ± 1 | 3.5 ± 0.1 | 0.2 |
| 7. <i>Rumex obtusifolius</i> | 40 | 154 ± 8.6 | 217 ± 6.9 | 8 ± 1 | 5.4 ± 0.2 | 0.2 |
| 8. <i>Rumex longifolius</i> | 60 | 233 ± 13.4 | 249 ± 9.3 | 13 ± 2 | 4.1 ± 0.2 | 0.2 |
| 9. <i>Chrysanthemum nipponicum</i> | 18 | 318 ± 13.5 | 270 ± 10.2 | 44 ± 5 | 15.0 ± 0.6 | 2.4 |
| 10. <i>Gladiolus</i> sp. HV <i>mansoer</i> | 61 | 393 ± 23.4 | 281 ± 8.5 | 6 ± 1 | 4.7 ± 0.1 | 0.1 |
| 11. <i>Helianthus annuus</i> ^g | 34 | 353 ± 17.6 | 293 ± 10.7 | 16 ± 2 | 8.6 ± 0.3 | 0.5 |
| 12. <i>Clematis jackmannii</i> | 16 | 293 ± 12.5 | 347 ± 15.0 | 22 ± 1 | 21.7 ± 0.9 | 1.4 |
| 13. <i>Chrysanthemum</i> sp. | 36 | (N.A.) ^h | 360 ± 10.9 | 37 ± 7 | 10.0 ± 0.3 | 1.0 |
| 14. <i>Nigella demascena</i> | 12 | 480 ± 16.2 | 392 ± 12.8 | 28 ± 2 | 32.7 ± 1.0 | 2.3 |
| 15. <i>Chrysanthemum yezoense</i> | 56 | 534 ± 28.2 | 478 ± 16.4 | 29 ± 2 | 8.5 ± 0.3 | 0.5 |
| 16. <i>Tradescantia blossfeldiana</i> | 72 | 538 ± 17.5 | 481 ± 16.8 | 40 ± 3 | 6.7 ± 0.2 | 0.6 |
| 17. <i>Vicia faba</i> ⁱ | 12 | 585 ± 17.2 | 521 ± 14.1 | 44 ± 8 | 43.4 ± 1.2 | 3.7 |
| 18. <i>Narcissus tazetta</i> ^j | 22 | (N.A.) | 579 ± 20.6 | 31 ± 2 | 26.3 ± 0.9 | 1.4 |
| 19. <i>Allium cepa</i> HV <i>excel</i> | 16 | 628 ± 37.6 | 621 ± 24.6 | 54 ± 6 | 38.8 ± 1.5 | 3.4 |
| 20. <i>Tulipa</i> sp. <i>golden harvest</i> | 24 | 1435 ± 63.7 | 844 ± 23.4 | 72 ± 8 | 35.2 ± 1.0 | 3.0 |
| 21. <i>Scilla sibirica</i> HV <i>alba</i> | 12 | 995 ± 57.9 | 908 ± 42.8 | 73 ± 21 | 75.7 ± 3.7 | 6.1 |
| 22. <i>Tradescantia</i> sp. ^k | 12 | 634 ± 31.8 | 916 ± 27.6 | 59 ± 5 | 76.4 ± 2.3 | 4.9 |
| 23. <i>Tradescantia paludosa</i> ^l | 12 | 657 ± 29.5 | 947 ± 36.6 | 54 ± 6 | 78.9 ± 3.1 | 4.5 |
| 24. <i>Lycoris squamigera</i> | 27 | 2069 ± 93.1 | 1017 ± 24.0 | 128 ± 12 | 37.7 ± 0.9 | 4.7 |
| 25. <i>Chrysanthemum</i> sp. ^m | 138 | 1396 ± 76.5 | 1183 ± 44.9 | 79 ± 10 | 8.6 ± 0.3 | 0.6 |
| 26. <i>Tradescantia virginiana</i> ⁿ | 24 | 1381 ± 45.3 | 1324 ± 38.8 | 116 ± 8 | 55.2 ± 1.6 | 4.8 |
| 27. <i>Lilium longiflorum</i> ^o | 24 | 1278 ± 50.9 | 1347 ± 44.8 | 106 ± 14 | 56.1 ± 1.9 | 4.4 |
| 28. <i>Chrysanthemum lacustre</i> | 198 | 2247 ± 86.4 | 1663 ± 53.8 | 142 ± 8 | 8.4 ± 0.3 | 0.7 |
| 29. <i>Tradescantia paludosa</i> | 24 | 1330 ± 63.2 | 1767 ± 96.7 | 118 ± 17 | 73.6 ± 4.0 | 4.9 |
| 30. <i>Lilium longiflorum</i> | 48 | 3003 ± 208.4 | 2809 ± 158.1 | 177 ± 20 | 58.5 ± 3.3 | 3.7 |

^a Chromosome number. ^b Nuclear volume. ^c ± SE (pg). ^d Interphase chromosome volume, ± SE. ^e Picograms. ^f HV *Cherry Bells*. ^g HV *mammoth Russian*.
 Not available. ^h HV *Sutton's protifc longpod*. ⁱ HV *paper white*. ^j (Clone 02). ^k (Clone B2-2). ^l Diener's hybrid. ^m HV *purple dome*. ⁿ HV *cross*.