Table S1 References of the dietary preferences and genomic contig N50 statistics for the 19 reptiles studied.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Order** | **Species** | **Genome Assembly Number** | **Contig N50 (kbp)** | **Depth(×)** | **Diet** | **References** |
| *Squamata* | Corn Snake  (*Pantherophis guttatus*) | GCA\_001185365.1 | 2.4 | 13 | carnivore | Sievert et al. 2005  Stake et al. 2005 |
| Speckled Rattlesnake  (*Crotalus mitchellii*) | GCA\_000737285.1 | 4.1 | 40 | carnivore | Klauber LM. 1997 |
| Timber Rattlesnake  (*Crotalus horridus*) | GCA\_001625485.1 | 5.8 | 135 | carnivore | Ernst, C., E. Ernst. 2003 |
| Adder  (*Vipera berus*) | GCA\_000800605.1 | 11.7 | 121 | carnivore | <http://animaldiversity.org> |
| Brown Spotted Pit Viper  (*Protobothrops mucrosquamatus*) | GCA\_001527695.3 | 21.9 | 85.9 | carnivore | <http://www.iucnredlist.org/details/64323/0> |
| King Cobra  (*Ophiophagus Hannah*) | GCA\_000516915.1 | 5.2 | 28 | carnivore | <http://animaldiversity.org> |
| Burmese Python  (*Python bivittatus*) | GCA\_000186305.2 | 10.6 | 20 | carnivore | <http://www.iucnredlist.org/details/193451/0>  7 |
| Common Garter Snake  (*Thamnophis sirtalis*) | GCA\_001077635.2 | 10.4 | 72 | carnivore | Bartlett, R., P. Bartlett. 2001 |
| Green Anole  （*Anolis carolinensis*） | GCA\_000090745.2 | 79.9 | 7.1 | insectivore | <http://animaldiversity.org> |
| Japanese Gecko  （*Gekko japonicus*） | GCA\_001447785.1 | 29.6 | 95 | insectivore | <http://animaldiversity.org> |
| *Testudines* | Spiny Softshell Turtle  （*Apalone spinifera*） | GCA\_000385615.1 | 4.7 | 33.4 | carnivore | Harding 1997 |
| Green Sea Turtle  （*Chelonia mydas*） | GCA\_000344595.1 | 29.2 | 110 | herbivore | Russell et al. 2011 |
| Painted Turtle  （*Chrysemys picta*） | GCA\_000241765.2 | 21.3 | 15 | omnivore | <http://animaldiversity.org>  <https://en.wikipedia.org/wiki/Painted_turtle#Diet> |
| Diamondback Terrapin  (*Malaclemys terrapin*) | GCA\_001728815.2 | 437.3 | 16 | carnivore | Tucker, A. et al.. 1997 |
| Chinese Softshell Turtle  （*Pelodiscus sinensis*） | GCA\_000230535.1 | 22.0 | 105 | carnivore | <https://en.wikipedia.org/wiki/Chinese_softshell_turtle>  C.H. Ernst et al. |
| *Crocodylia* | Saltwater Crocodile  （*Crocodylus porosus*） | GCA\_001723895.1 | 34.1 | 74 | carnivore | <http://animaldiversity.org> |
| American Alligator  (*Alligator mississippiensis*) | GCA\_001541185.1 | 16.7 | 156 | carnivore | <http://animaldiversity.org>  Britton, A. 1999. |
| Chinese Alligator  (*Alligator sinensis*) | GCA\_000455745.1 | 23.4 | 109 | carnivore | Hutchins et al. |
| Gharial  （*Gavialis gangeticus*） | GCA\_001723915.1 | 14.8 | 81 | carnivore | <http://animaldiversity.org> |

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