**Supplementary material**

**Table S1.** Numerically coded morphological characters of Scelimeninae (26 head and leg traits) used in the cladistic analysis, with the accompanying states.

|  |  |  |
| --- | --- | --- |
| **No.** | **Character name** | **Accompanying states** |
| 1 | Position of the frontal costa bifurcation | 0—in the level of the vertex; 1—between the compound eyes; 2—in the lower third of the compound eye height or below. |
| 2 | Scutellum width | 0—as wide as scapus; 1—narrower than scapus; 2—wider than scapus. |
| 3 | Position of the antennal groove | 0—dorsal margin of the antennal groove visibly above the lower margin of the eye; 1—dorsal margin of the antennal groove in the level of the lower margin of the eye; 2—dorsal margin of the antennal groove visibly below the lower margin of the eye. |
| 4 | Position of the lateral ocelli | 0—between the compound eyes; 1—in the lower third of the compound eye height or below. |
| 5 | Position of the compound eye dorsal margin | 0—dorsal margin of the eye below the level of the vertex (= vertex projected above the eyes); 1—dorsal margin of the eye above the vertex, so vertex is not visible in lateral view. |
| 6 | Number of antennomeres | 0—12-16; 1—>20. |
| 7 | Shape of the antenna | 0—filiform; 1—pennate, with widened subapical segments. |
| 8 | Mid antennomere length to width ratio | 0—<4; 1—>5. |
| 9 | Mid antennomere margin shape | 0—smooth; 1—saw-like. |
| 10 | Vertex width in comparison to the compound eye | 0—visibly narrower than an eye; 1—as wide as an eye; 2—visibly wider than an eye. |
| 11 | Vertex lateral carinae shape in frontal view | 0—almost invisible, small; 1—visible as small horns, but not higher than the eyes; 2—high horns projected above the eyes. |
| 12 | Medial carina of the vertex shape in dorsal view | 0—reduced and indistinct; 1—distinct, visible. |
| 13 | Position of the anterior margin of the vertex | 0—in the level of the eyes in dorsal view; 1—indrawn, not reaching the distal margins of the eyes in dorsal view. |
| 14 | Maxillary palpi strongly widened | 0—no; 1—yes. |
| 15 | Anterior margin of the vertex shape | 0—truncated, straight; 1—oblique, semicircular. |
| 16 | Dorsal carina of the fore femur | 0—carina absent, sulcus present; 1—carina smooth and continuous; 2—continuous, weakly undulated; 3—finely serrated, armed with several small teeth; 4—strongly armed, toothed, undulated and serrated. |
| 17 | Dorsal carina of the mid femur | 0—carina absent, sulcus present; 1—carina smooth and continuous; 2—continuous, weakly undulated; 3—finely serrated, armed with several small teeth; 4—strongly armed, toothed, undulated and serrated. |
| 18 | Dorsal carina of the hind femur | 0—smooth with continuous carinae; 1—undulated and finely serrated; 2—strongly undulated and armed with large teeth. |
| 19 | Ventral carina of the hind femur | 0—smooth with continuous carinae; 1—undulated, finely serrated and with several small teeth; 2—strongly toothed, armed. |
| 20 | Hind femur surface | 0—with smooth and distinct edges and ridges; 1—with rough edges and ridges, often undulated; 2—with strong and toothed edges and ridges, and with irregular net-like surface. |
| 21 | Shape of the hind tibia margins | 0—smooth, without teeth or spines; 1—with minute teeth, but without larger spines; 2—many small teeth and up to 8 large spines; 3—many large teeth and more than 9 large spines. |
| 22 | Hind tibia tip paddle-shaped | 0—no; 1—yes. |
| 23 | Hind tarsus paddle-shaped | 0—no; 1—yes. |
| 24 | First and third hind tarsus segment relationship | 0—first tarsal segment visibly longer than the third; 1—first and third tarsal segments of the same or of almost the same length. |
| 25 | Females with swollen hind tarsus | 0—no; 1—yes. |
| 26 | Shape of the hind tarsus pulvilli | 0—oblique, rounded; 1—angular, sharp. |

**Table S2.** Character matrix for 54 scelimenine taxa (25 Scelimenini and 29 Discotettigini), and three outgroups. Legend: A – amphibious, C – corticolous, O – outgroup.

| **Lifestyle** | **Species name** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** | **25** | **26** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | *Amphibotettix longipes* | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Euscelimena gavialis* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 2 | 3 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Euscelimena logani* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 2 | 3 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Indoscelimena birmanica* | 2 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 2 | 0 | 0/1 | 0 | 0 | 0/1 | 1 | 0 | 0 | 1 |
| A | *Indoscelimena flavopicta* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1/2 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0/1 | 1 | 0 | 0 | 1 |
| A | *Paramphibotettix lieftincki* | 2 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Paramphibotettix sanguinolentus* | 2 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Platygavialidium dentifer* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 3 | 4 | 1 | 1 | 0 | 0 | 0/1 | 0 | 0 | 0 | 1 |
| A | *Platygavialidium formosanum* | 2 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 0/1 | 0 | 0 | 0 | 1 |
| A | *Platygavialidium kraussi* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 4 | 4 | 1 | 1/2 | 0 | 0 | 0/1 | 0 | 0 | 0 | 1 |
| A | *Platygavialidium productum* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 3 | 2 | 1 | 1/2 | 0 | 0 | 0/1 | 0 | 0 | 0 | 1 |
| A | *Platygavialidium sinicum* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 3 | 2 | 1 | 1/2 | 0 | 0 | 0/1 | 0 | 0 | 0 | 1 |
| A | *Scelimena bellula* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Scelimena boettcheri* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Scelimena dammermanni* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 1 | 0/1 | 1/2 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Scelimena discalis* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 3 | 1 | 1 | 1/2 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Scelimena floresana* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 3 | 2 | 1 | 1/2 | 0 | 0 | 0/1 | 1 | 0 | 0 | 1 |
| A | *Scelimena hexodon* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Scelimena melli* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Scelimena novaeguineae* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 3 | 2 | 1 | 1/2 | 0 | 0 | 0/1 | 1 | 0 | 0 | 1 |
| A | *Scelimena producta* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 1 | 0/1 | 1/2 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Scelimena spiculata* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| A | *Tagaloscelimena aurivillii* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0/1 | 0 | 0 | 0 | 1 |
| A | *Tagaloscelimena* sp. | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0/1 | 0 | 0 | 0 | 1 |
| A | *Tefrinda palpata* | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| C | *Austrohancockia albitubercula* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Austrohancockia kwangtungensis* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Austrohancockia latifemora* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Austrohancockia okinawensis* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Austrohancockia orlovi* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Austrohancockia p. amamiensis* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Austrohancockia p. platynota* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Disconius shelfordi* | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0/1 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Discotettix belzebuth* | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Discotettix doriae* | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 0/1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Discotettix kirscheyi* | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Discotettix scabridus* | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Discotettix selysi* | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 0/1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Eufalconius pendleburyi* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 1 |
| C | *Gavialidium carli* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Gavialidium crocodilum* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 4 | 4 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Gibbotettix emeiensis* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Gibbotettix parvipulvillus* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |

**Table S2.** Character matrix for 54 scelimenine taxa (25 Scelimenini and 29 Discotettigini), and three outgroups. Legend: A – amphibious, C – corticolous, O – outgroup. *Continued from the previous page*.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lifestyle** | **Species name** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** | **25** | **26** |
| C | *Gibbotettix vallis* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Hirrius montanus* | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 4 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Paragavialidium dolichonotum* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1/2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1/2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Paragavialidium fujianense* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1/2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1/2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Paragavialidium nodiferum* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1/2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1/2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Paragavialidium prominemarginatum* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1/2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1/2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Paragavialidium tenuifemora* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1/2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 1/2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Tegotettix armatus* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Tegotettix bufocrocodil* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Tegotettix celebensis* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1/2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| C | *Tegotettix tuberculatus* | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 1/2 | 1 | 0 | 0 | 0 | 4 | 4 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 |
| O | *Falconius deceptor* | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| O | *Falconius inaequalis* | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| O | *Saussurella decurva* | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 |

**Table S3.** Newick format of the Scelimeninae phylogenetic trees. Only the nodes with high statistical support are shown, while those that are not highly supported are reconstructed as polytomies.

|  |
| --- |
| 1. **Reference tree inferred from the literature and our cladistic analyses (used for the phylogenetic signal testing and shown in Fig. 4):**   ((Tefrinda\_palpata,(Amphibotettix\_longipes,((Euscelimena\_gavialis,Euscelimena\_logani),((Tagaloscelimena\_aurivillii,Tagaloscelimena\_sp.),((Indoscelimena\_birmanica,Indoscelimena\_flavopicta),(Paramphibotettix\_sanguinolentus,Paramphibotettix\_lieftincki),(Platygavialidium\_dentifer,Platygavialidium\_kraussi,Platygavialidium\_productum,Platygavialidium\_formosanum,Platygavialidium\_sinicum),((Scelimena\_bellula,Scelimena\_spiculata,Scelimena\_melli),(((Scelimena\_floresana,Scelimena\_novaeguineae),Scelimena\_discalis),((Scelimena\_producta,Scelimena\_dammermanni),Scelimena\_hexodon,Scelimena\_boettcheri)))))))),((((Austrohancockia\_albitubercula,Austrohancockia\_kwangtungensis,Austrohancockia\_latifemora,Austrohancockia\_okinawensis,Austrohancockia\_orlovi,(Austrohancockia\_p.\_amamiensis,Austrohancockia\_p.\_platynota)),(Gibbotettix\_parvipulvillus,Gibbotettix\_emeiensis,Gibbotettix\_vallis)),Eufalconius\_pendleburyi),(((Discotettix\_belzebuth,(Discotettix\_doriae,Discotettix\_selysi),Discotettix\_kirscheyi),Discotettix\_scabridus),Disconius\_shelfordi,Hirrius\_montanus),((Tegotettix\_bufocrocodil,Tegotettix\_armatus,Tegotettix\_celebensis,Tegotettix\_tuberculatus),(Gavialidium\_carli,Gavialidium\_crocodilum),(Paragavialidium\_dolichonotum,Paragavialidium\_fujianense,Paragavialidium\_nodiferum,Paragavialidium\_prominemarginatum,Paragavialidium\_tenuifemora)))); |
| 1. **Tree inferred from UPGMA cladistic analysis, 2000 replicates:**   (Saussurella\_decurva,((Tefrinda\_palpata,(Falconius\_deceptor,Falconius\_inaequalis)),(((Euscelimena\_gavialis,Euscelimena\_logani),((Amphibotettix\_longipes,((Tagaloscelimena\_aurivillii,Tagaloscelimena\_sp.),((Paramphibotettix\_lieftincki,Paramphibotettix\_sanguinolentus),(Indoscelimena\_flavopicta,(Scelimena\_spiculata,(Scelimena\_bellula,Scelimena\_melli)))))),(((Platygavialidium\_dentifer,Platygavialidium\_kraussi),(Platygavialidium\_productum,Platygavialidium\_sinicum)),(Indoscelimena\_birmanica,((Platygavialidium\_formosanum,(Scelimena\_floresana,Scelimena\_novaeguineae)),(Scelimena\_discalis,(Scelimena\_boettcheri,(Scelimena\_producta,(Scelimena\_dammermanni,Scelimena\_hexodon))))))))),((Discotettix\_belzebuth,(Hirrius\_montanus,(Disconius\_shelfordi,(Discotettix\_doriae,(Discotettix\_selysi,(Discotettix\_kirscheyi,Discotettix\_scabridus)))))),(Gavialidium\_crocodilum,((Tegotettix\_armatus,(Gavialidium\_carli,(Tegotettix\_tuberculatus,(Tegotettix\_celebensis,(Tegotettix\_bufocrocodil,(Paragavialidium\_tenuifemora,(Paragavialidium\_prominemarginatum,(Paragavialidium\_nodiferum,(Paragavialidium\_dolichonotum,Paragavialidium\_fujianense))))))))),(Eufalconius\_pendleburyi,(Gibbotettix\_vallis,(Gibbotettix\_parvipulvillus,(Gibbotettix\_emeiensis,(Austrohancockia\_p.\_platynota,(Austrohancockia\_p.\_amamiensis,(Austrohancockia\_orlovi,(Austrohancockia\_okinawensis,(Austrohancockia\_latifemora,(Austrohancockia\_albitubercula,Austrohancockia\_kwangtungensis)))))))))))))))); CI = 0.43956044, RI = 0.81588488 |
| 1. **Tree inferred from Single Linkage cladistic analysis, 2000 replicates:**   (Saussurella\_decurva,((Falconius\_deceptor,Falconius\_inaequalis),(Tefrinda\_palpata,((Amphibotettix\_longipes,((Euscelimena\_gavialis,Euscelimena\_logani),(Tagaloscelimena\_sp.,(Tagaloscelimena\_aurivillii,(((Paramphibotettix\_lieftincki,Paramphibotettix\_sanguinolentus),(Indoscelimena\_flavopicta,(Scelimena\_spiculata,(Scelimena\_bellula,Scelimena\_melli)))),((Indoscelimena\_birmanica,(Scelimena\_boettcheri,(Scelimena\_producta,(Scelimena\_dammermanni,Scelimena\_hexodon)))),((Scelimena\_floresana,Scelimena\_novaeguineae),(Scelimena\_discalis,(Platygavialidium\_formosanum,((Platygavialidium\_dentifer,Platygavialidium\_kraussi),(Platygavialidium\_productum,Platygavialidium\_sinicum))))))))))),(Discotettix\_belzebuth,((Disconius\_shelfordi,(Hirrius\_montanus,(Discotettix\_doriae,(Discotettix\_selysi,(Discotettix\_kirscheyi,Discotettix\_scabridus))))),((Eufalconius\_pendleburyi,(Gibbotettix\_vallis,(Gibbotettix\_parvipulvillus,(Gibbotettix\_emeiensis,(Austrohancockia\_p.\_platynota,(Austrohancockia\_p.\_amamiensis,(Austrohancockia\_orlovi,(Austrohancockia\_okinawensis,(Austrohancockia\_latifemora,(Austrohancockia\_albitubercula,Austrohancockia\_kwangtungensis)))))))))),(Gavialidium\_crocodilum,(Tegotettix\_armatus,(Gavialidium\_carli,(Tegotettix\_tuberculatus,(Tegotettix\_celebensis\_,(Tegotettix\_bufocrocodil,(Paragavialidium\_tenuifemora,(Paragavialidium\_prominemarginatum,(Paragavialidium\_nodiferum,(Paragavialidium\_dolichonotum,Paragavialidium\_fujianense))))))))))))))))); CI = 0.4494382, RI = 0.823104679 |