**Supplementary Table S14.** Comparisons of morphological characteristics of Pareinae genera and subgenera. Question mark (?) denotes tentative identifications; asterisk (\*) denotes type species; n-dash (—) denotes missing data.

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| --- | --- | --- | --- |
| **Characteristics** | ***Aplopeltura*** | ***Asthenodipsas*** | ***Pareas*** |
| ***Asthenodipsas***(senior synonym of*Internatus*) | ***Spondylodipsas*** **subgen. nov.** | ***Pareas*** | ***Eberhardtia*** **stat. nov.** |
| Dorsal scale rows at midbody | 13 | 15 | 15 | 15 | 15 |
| Dorsal scales | smooth | smooth | smooth | keeled (except *P. kuznetsovorum***sp. nov.**) | smooth or keeled |
| Vertebral keel  | weak | developed | developed | weak | weak or absent |
| Number of loreals | 2 or 3 | 1 | 1 | 1 (2) | 1 |
| Number of anterior temporals | 3 | 2 | 2 | 3 | 2 or 1 |
| Shape of frontal scale | subhexagonal with the lateral sides converging posteriorly | subhexagonal with the lateral sides converging posteriorly | subhexagonal with the lateral sides converging posteriorly | hexagonal with the lateral sides parallel | subhexagonal with the lateral sides converging posteriorly |
| Structureof chin scales | inframaxillary shield absent; 3 or 4 pairs of chinshields; 1st and 2nd pairs of infralabials in contact | 1 inframaxillary shield;2 pairs of chinshields; 3rd pair of infralabials in contact | 1 inframaxillary shield;3 pairs of chin shields;1st pair of infralabials in contact | inframaxillary shield absent; 3 pairs of chin shields; 1st pairs of infralabials in contact | inframaxillary shield absent; 3 pairs of chinshields; 1st pairs of infralabials in contact |
| Anterior pair of chin shields | broader than long | as broad as long | as broad as long | broader than long | longer than broad |
| Subcaudals  | undivided | divided | divided | divided | divided |
| Suboculars  | present | absent | absent | present | present |
| Supralabials in contact withthe eye | no | yes | yes | no | no (except *P*. *monticola*,*P*. *stanleyi*) |
| Ultrastructure of dorsal scales  | — | — | — | ravine-like | with pores and arc structures, forming characteristic lines |
| Content | 1. *A. boa*\* | 1. *A. borneensis*2. *A. jamilinaisi*3. *A. laevis* 4. *A. malaccana*\*(senior synonym of*Pareas dorsopictus* and *Amblycephalus malaccanus ventrilineatus*)5. *A. stuebingi*  | 1. *A. lasgalenensis*2. *A. tropidonota*\*3. *A. vertebralis* | 1. *P. abros* **sp. nov.**2. *P.* *berdmorei* (senior synonym of *Pareas menglaensis*)3. *P. carinatus*\*4. *P. nuchalis*5. *P. temporalis*6. *P. kuznetsovorum***sp. nov.** | 1. *P. andersonii*2. *P. atayal* 3. *P. boulengeri*4. *P. chinensis* (senior synonym of *Amblycephalus yunnanensis?*)5. *P. formosensis*(senior synonym of *Psammodynastes compressus*,*Eberhardtia tonkinensis*, *Amblycephalus carinatus hainanus*,*Amblycephalus kuangtungensis*)6. *P. geminatus* 7. *P. hamptoni*\*8*. P. iwasakii* 9*. P. kaduri* 10*. P. komaii* 11. *P. macularius* 12. *P. margaritophorus*(senior synonym of *Pareas moellendorffi*,*Amblycephalus tamdaoensis*)13. *P. modestus* 14. *P. monticola* 15. *P. niger* (senior synonym of*Pareas mengziensis*)16. *P. nigriceps* 17. *P. stanleyi* 18. *P. victorianus* 19. *P. vindumi* 20. *P. xuelinensis?* |