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Salticidae (Araneae) genera of the world - an atlas
(unfinished manuscript)

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Chapter 10 HARMOCHIRINES

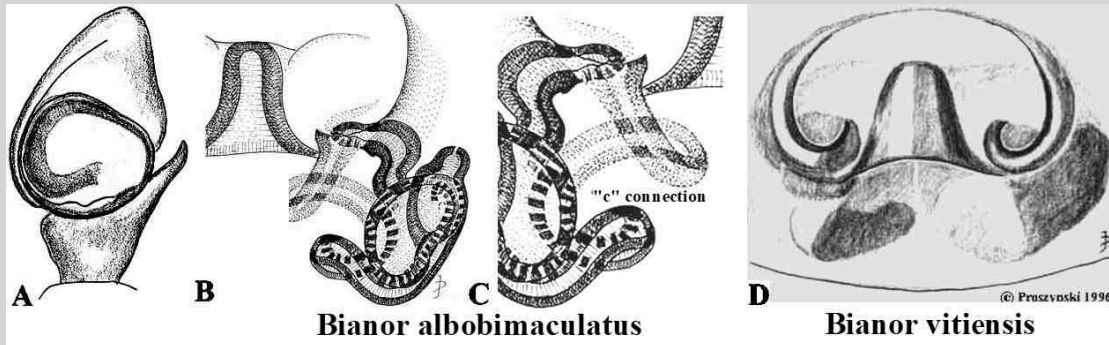
informal group of genera
Version August 24th, 2020.



symbol of the supragroup HYLLOIDA

Composition and searching on this page [Bianor](#) [Boesenbergus](#) gen. n. [Harmochirus](#) [Modunda](#) [Microbianor](#) [Modunda](#) [Napoca](#) [Neaetha](#) [Sibianor](#).

Main diagnostic characters of HARMOCHIRINES



Sibianor larae

A-C - *Bianor albobimaculatus* (palp, internal structure of epigyne & "c" connection, D - *Bianor vitiensis*, E-F - *Sibianor larae* - male and female ©Photo J. Lissner.

SOURCE: A-C - Prószyński 2003a. Ann. zool., 39-42, figs 113-114, 21. D - Berry, Beatty, Prószyński 1996. J. Arachn. Vol. 24(3): 222-223. E-F - ©Photo J. Lissner. All copyrights are retained by the original authors and copyright holders, used here by their courtesy.

Informal group of genera HARMOCHIRINES

Type genus *Harmochirus* Simon, 1885, of which type species is *Harmochirus brachiatus* (Thorell, 1877) [= *Ballus brachiatus* Thorell, 1877].

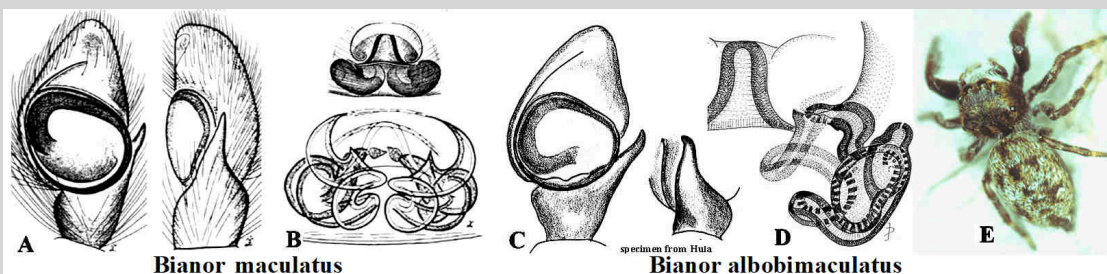
Mutual diagnostic characters of genera included. Palps with bulbus encircled by hair thin embolus. Epigyne with anterior half occupied by large membranous "window" bisected by prominent, sclerotized pocket.

Description. Small spiders with rather stout body, identifiable by their genital organs. In males bulbus is oval or round, often anteriorly truncated and flat, encircled by hair thin embolus, there is no conductor. Epigyne comparable with HABRONATTINES by single median pocket, located in about mid-length of epigyne, followed by median groove. The most striking feature is large, anterior, membranous "window", posteriorly limited by sclerotized rims, incompletely bisected by elongated pocket. Ducts anteriorly membranous, passing by characteristic "C" connector into sclerotized, entangled part, ultimately joining poorly visible spermathecae, in some species compact and internally convoluted. Enclosed illustrations are integral part of description.

Gen. *Bianor* Peckham, Peckham, 1885

Type species *Scythropa maculata* Keyserling, 1883 (25 recognizable species)
See more species at [Bianor-Q+M](#)

REMARKS. Differs from *Sibianor* by flattish, smooth tegulum in palps, without protuberance (compare *Sibianor* below), no clear difference among females of these genera (both have "c"-connection in internal epigyne).



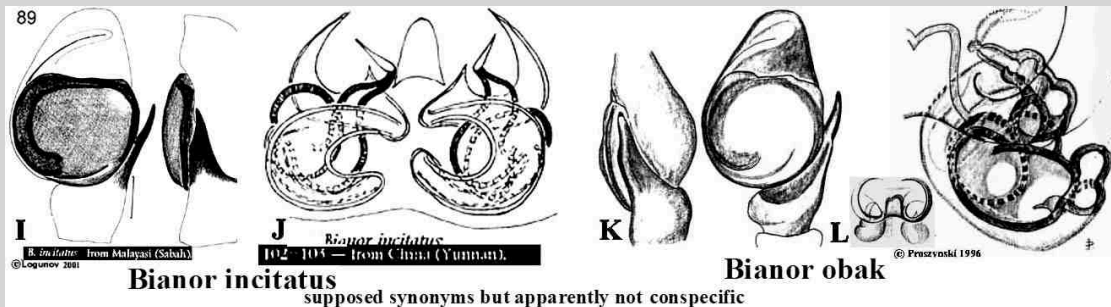
Bianor maculatus

Bianor albobimaculatus

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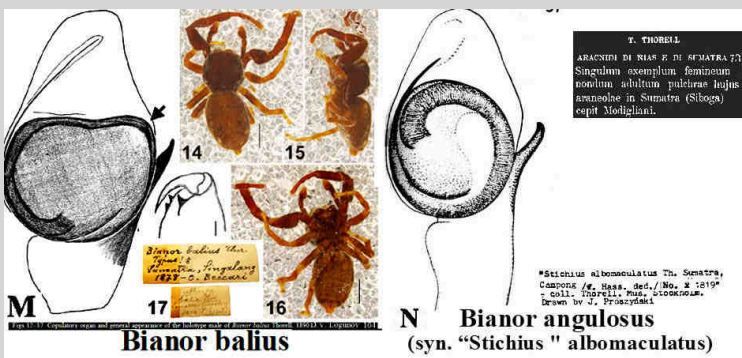
Bianor maculatus



Bianor incitatus

Bianor obak

supposed synonyms but apparently not conspecific



Bianor balius

Bianor angulosus
(syn. "Stichius " albomaculatus)

A-B - *Bianor maculatus*, C-D - *Bianor albobimaculatus*, D - same, F-H - *Bianor maculatus*, I-J - *Bianor incitatus*, K-L - *Bianor obak*, M - *Bianor balius* (compare with fig. I), N - *Bianor angulosus*: (synonym. specimen of "*Stichius*" *albomaculatus* from Sumatra, identified by Thorell, coll. Mus. Stockholm, and fragment of the original description of specimen kept in Mus. Genoa).
SOURCE: A-B - Davies Todd, Żabka 1989: 1989. Mem. Queens. Mus.: 245, t47, C-D - Prószyński 2003a . Ann. zool.,39-42, figs 113-114,21, E - ©photo by B. Knoflach, F-H - ©Photo R. Whyte, I-J - Logunov D.V. 2001. Arthropoda Selecta, 9 (4): 236-240, figs. 89-104, K-L - Berry, Beatty, Prószyński 1996. J. Arachn. 24(3): 220-222, figs 18-24. M - Logunov, 2019: 101, f. 1-3, 5-10, N - Prószyński 1984a. Atlas rysunków diagnostycznych mniej znanych Salticidae (Araneae). Zeszyty Naukowe Wyższej Szkoły Rolniczo-Pedagogicznej, Siedlce : 57. All ©Copyrights are retained by the original authors and copyright holders, used here by their courtesy.
ATTENTION: Existing documentation confirm introduced by Logunov synonymy of *Bianor incitatus* (fig. I-J) with *Bianor angulosus* (fig. N), but not *Bianor obak* (fig. K-L) which is distinctly different species.

Correction to list of synonyms:

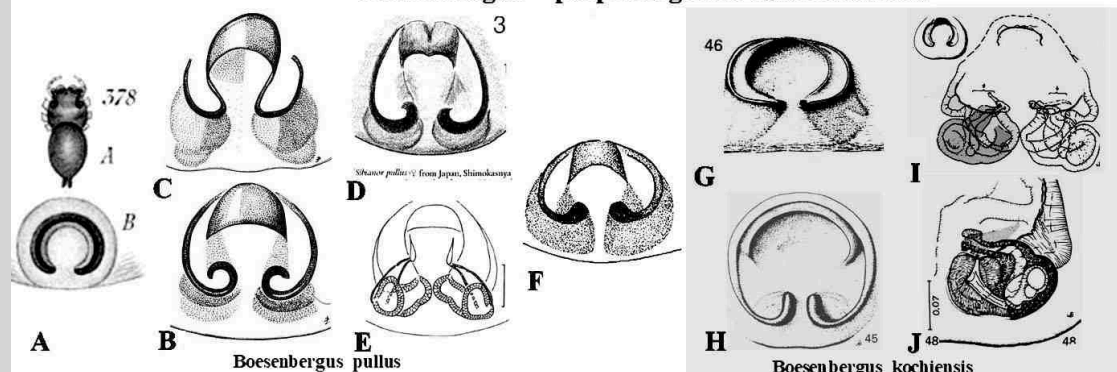
Stichius albomaculatus: Prószyński, 1984a: 57 removal from synonymy of *Bianor incitatus* Thorell, 1890
Stichius albo-maculatus Thorell, 1890 70 ("nicht zu deuten!" per Roewer in the WSC).
Stichius albomaculatus Prószyński, 1984a: 57.
Stichius albomaculatu Logunov, 2001a: 281 (species dubius).
Bianor incitatus Logunov, 2001a: 236, f. 87-104.

Gen. Boesenbergus gen. n. Prószyński (in preparation)

Type species *Bianor pullus* (3 recognizable species)
See more species at [Sibianor-Q+M](#)

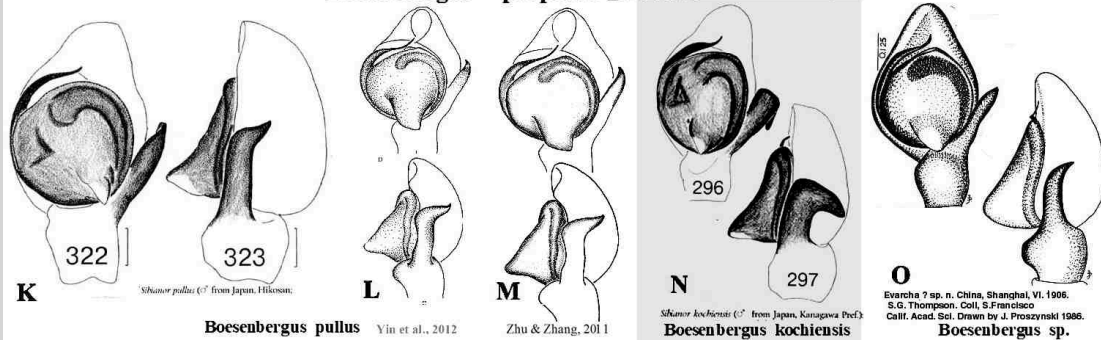
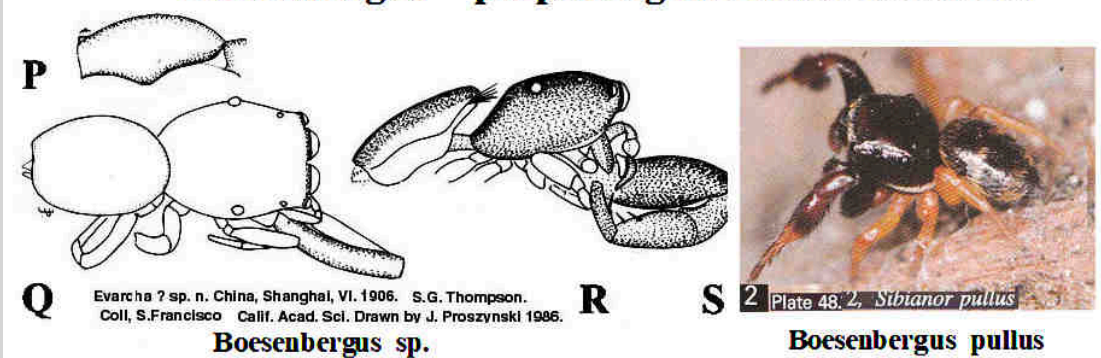
Remarks. Genus resembling *Sibianor* and *Pellenes* (*Pelmutus*, *Pelpaucus*) by palps and epigyne. In males characterized by enormous tibial apophysis and presence of tegular protuberance near the posterior rim of bulbus, "embolus" broad (hair-like hidden in sheath?), palpal femur with protuberance, at least in one species male leg I is robust, with femur I almost as long as carapace. Epigyne in original drawing is not divided transversally, has broad central space, encircled by lateral semicircular grooves which are almost as long as epigyne, it is distorted by inclined position in anterior slope of abdomen (fig. B & C), to show show it in position comparable with other genera, the specimen must be fixed in oblique position in opposite direction. Spermathecae and ducts form sclerotized compact body with internal spaces, not resembling *Bianor*. This diagnosis may require correction, due to insufficient and unclear documentation.

Boesenbergus – proposed gen. n. (separated from Harmochirus)



Boesenbergus pullus

Boesenbergus kochiensis

Boesenbergus – proposed gen. n. (separated from Harmochirus)**Boesenbergus** – proposed gen. n. (separated from Harmochirus)

A-F, K-M, S - *Boesenbergus pullus*, G-J, N - *Boesenbergus kochiensis*, O-R - *Boesenbergus sp.*

PROPOSED NEW GENUS. A-F, K-M, S - *Boesenbergus pullus* (originally "*Bianor* " *pullus*), [A- epigyne of the holotype specimen, B - revision of epigyne of the same holotype specimen, in a position as in original drawing, C - revision of the same epigyne adjusted to the standard, horizontal position, D-E - epigyne and its internal structures as interpreted by Logunov, F - epigyne as interpreted by Yin et al.], G-J, N - *Boesenbergus kochiensis*, G-J - epigyne and its internal structure as interpreted by Bohdanowicz, K - palp as interpreted by Logunov, L - palp as interpreted by Yin et al, M - palp as interpreted by Zhou & Zhang, N - palp as interpreted by Logunov], O-R - *Boesenbergus sp.*"China, Shanghai, VI. 1906 S.C. Thompson". Coll. California Acad. Sci., San Francisco, S - *Boesenbergus pullus* - photograph from Japan.

SOURCE: A-original drawings by Boesenberg, Strand 1906. Abh. senck. naturf. Ges., 30: 354, f 378 [Bianor pullus ... "Typus! Saga, W. Doenitz, 1882. Senckenbg. Mus. 3542, Frankfurt M.", B-C - Prószyński 1984a. Atlas rysunków diagnostycznych mniej znanych Salticidae (Araneae). Zeszyty Naukowe Wyższej Szkoły Rolniczo-Pedagogicznej, Siedlce: 55-56, D-E - as interpreted by Logunov, F, L - Yin et al. 2012: 1466, f. 799a-g. , G-J - Bohdanowicz in: Bohdanowicz A., Prószyński J. 1987. Annales zoologici, Warszawa, 41, 2: 60-61, f 45-48, M - palp as interpreted by Zhou & Zhang, 2011: 513, f. 377A-D, N - Logunov D.V. 2001a [2000] . Arthropoda Selecta, Moscow 9 (4): 268, f 296-305, O-R - Prószyński 1995-2016 Database of Salticidae, Logunov not yet described , S - © Ono, Ikeda, Kono. Salticidae of Japan, Tokai Univ. Press, 2009: 583, pl 482.

Boesenbergus pullus Prószyński – proposed gen. n.

Selected taxonomic references (copied with modifications from World Spider Catalog)

Bianor pullus Bösenberg & Strand, 1906: 354, pl. 14, f. 378 (Df).

Bianor pullus Wesolowska, 1981a: 70, f. 81-82 (f).

Harmochirus pullus Prószyński, 1984a: 55-56 (Tf from *Bianor*).

Harmochirus pullus Yaginuma, 1986a: 236, f. 131.4 (f).

Harmochirus pullus Bohdanowicz & Prószyński, 1987: 57, f. 38-41 (f, not m, =*H. insulanus*).

Harmochirus pullus Logunov & Wesolowska, 1992: 119, f. 6A-B, 7A-B (mf).

Sibianor pullus Logunov, 2001a: 273, f. 322-328 (Tmf from *Harmochirus*).

Sibianor pullus Zhu & Zhang, 2011: 513, f. 377A-D (mf).

Sibianor pullus Yin et al., 2012: 1466, f. 799a-g (mf).

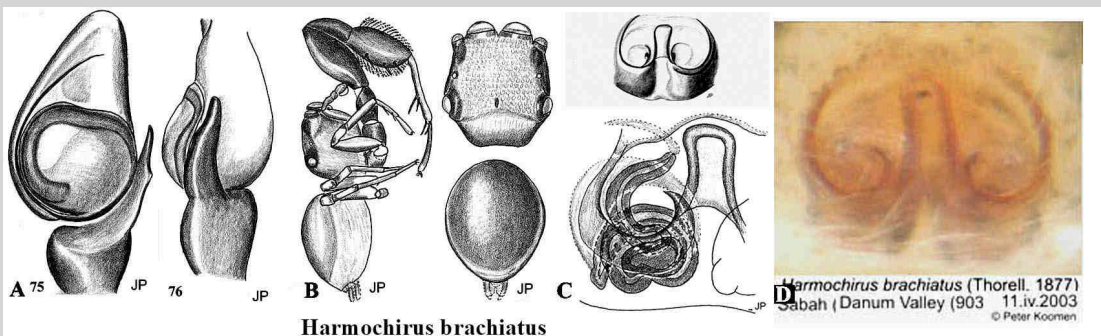
Sibianor pullus Kim & Lee, 2014: 131, f. 93A-D, pl. 26 (mf).

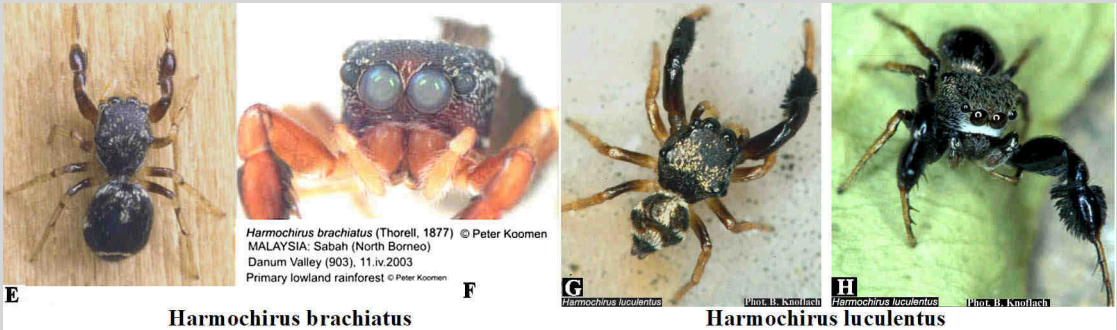
Boesenbergus pullus Prószyński 2020 – proposed – salticidae.pl/4-genera/2_4_harmoch.html.

Gen. Harmochirus Simon, 1885

Type species *Harmochirus brachiatus* (12 species)

See more species at Harmochirus-Q+M



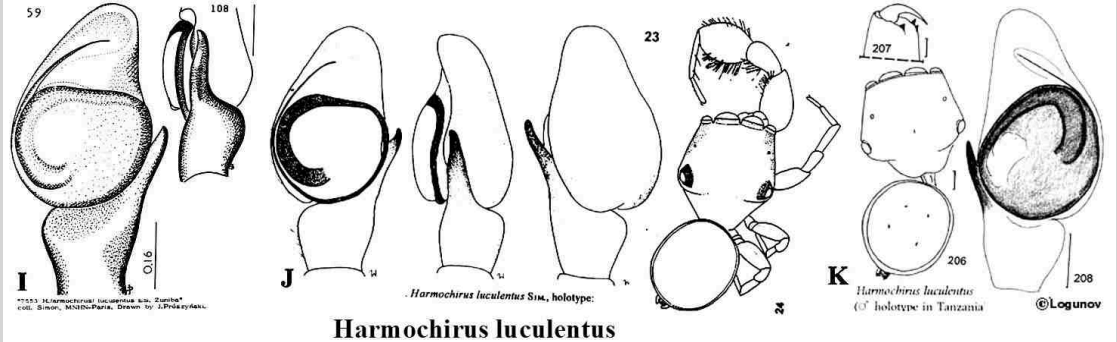


Harmochirus brachiatus

Harmochirus luculentus

A-C - *Harmochirus brachiatus* (Bali), D - *Harmochirus brachiatus* [?] Sabah: Danum Valley, E-F - *Harmochirus brachiatus* [?], G-H - *Harmochirus luculentus* [?].

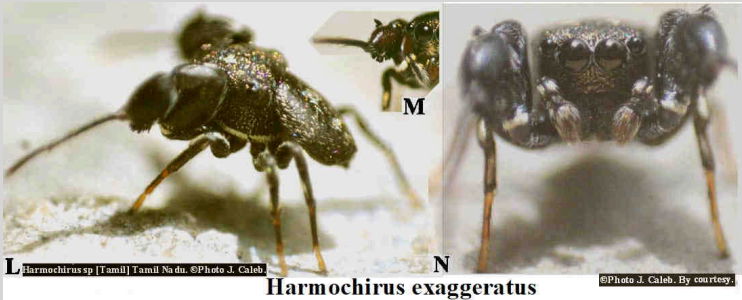
SOURCE A-C - Prószyński, Deeleman-Reinhold, 2010. Arthr.selec., 19(3): 166-168, 73-78, D-F - © Photo P. Koomen, G-H - © Photo B. Knoflach. All ©copyrights are retained by the original authors and copyright holders, used here by their courtesy.



Harmochirus luculentus

I-J - Three interpretations of the same specimen from coll. Simon "7553" ("type!") *Harmochirus luculentus*.

SOURCE: J - Prószyński 1987: 59, 108, J - Wesolowska 1994. Genus, 5 (3): 203, f 14-15, K - Logunov 2001a. Arthr. Sel., 9 (4): 254-260, figs 214-221. All ©copyrights are retained by the original authors and copyright holders, used here by their courtesy. All ©copyrights are retained by the original authors and copyright holders, used here by their courtesy.



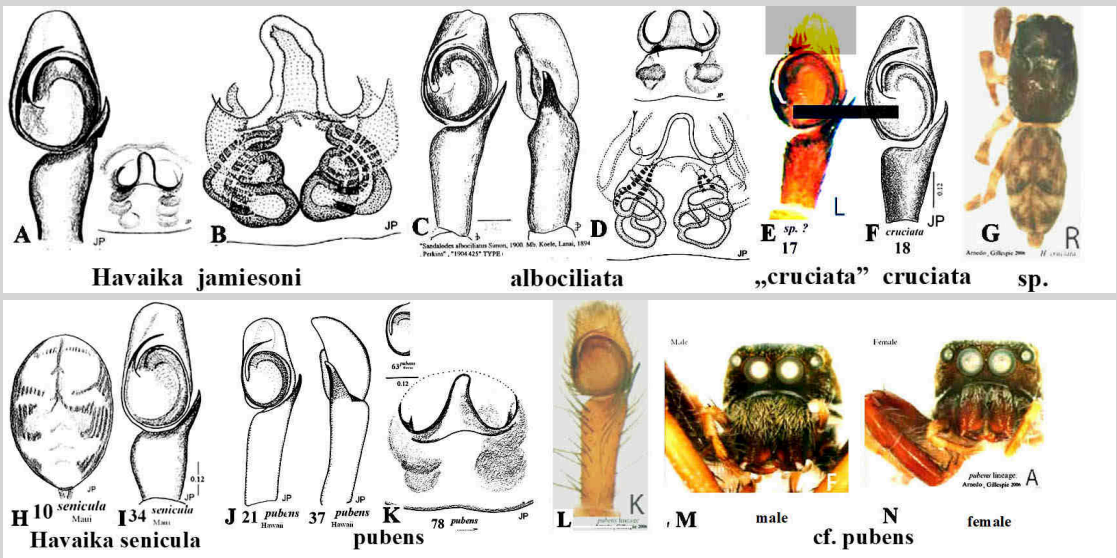
Harmochirus exaggeratus

L-N - *Harmochirus exaggeratus*

SOURCE: Caleb, Mathai, 2015. Mun. Ent. Zool.10 (1): 117-121, f 1-26. All ©copyrights are retained by the original authors and copyright holders, used here by their courtesy.

Gen. Havaika Prószyński, 2001

Type species *Havaika jamiesoni* (24 recognizable species)
See more species at [Havaika-Q+M](#)



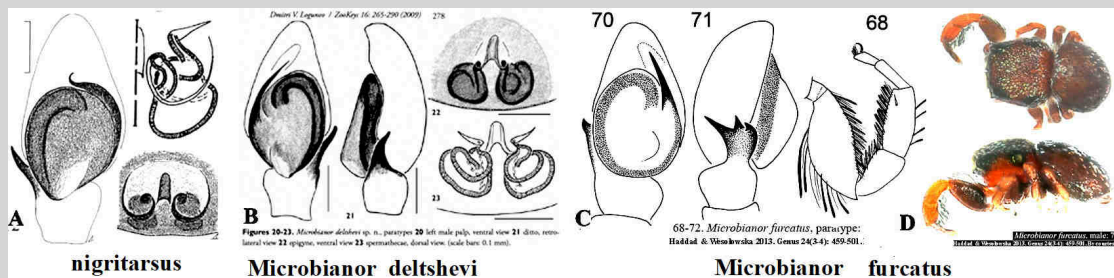
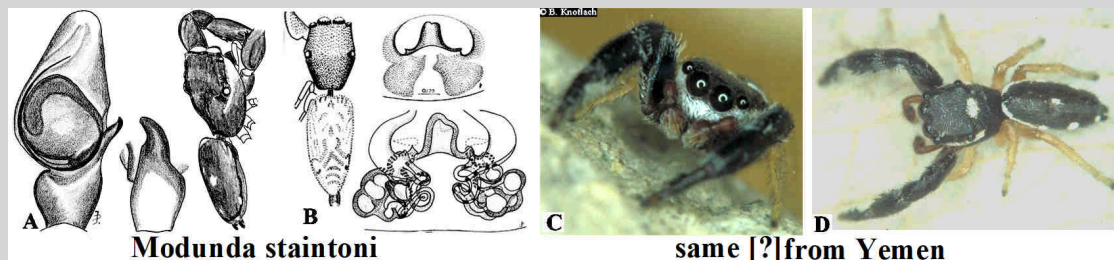
A-B - *Havaika jamiesoni*, C-D - *Havaika albociliata*, E - *H. cruciata* by Arnedo & Gillespie 2006, F - *H. cruciata* by Prószyński, G - *Havaika* sp., H-I - *Havaika senicula*, J-L - *Havaika puben*, M-N - *Havaika* cf. *pubens*.

SOURCE: A-D, H-K - Prószyński 2007b (2008): 16(4): 204, 10, 34, f 21, 37, 63, 78; 208-209, f 3-4, 31, 47, 60, 72, 88, E, G, L-N - Arnedo, M. A. & Gillespie, R. G. (2006). Molecular Phylogenetics and Evolution 41: 472-495. Arnedo, M. A. & Gillespie, R. G. (2006). Molecular Phylogenetics and Evolution 41: 472-495. All ©copyrights are retained by the original authors and copyright holders, used here by their courtesy.

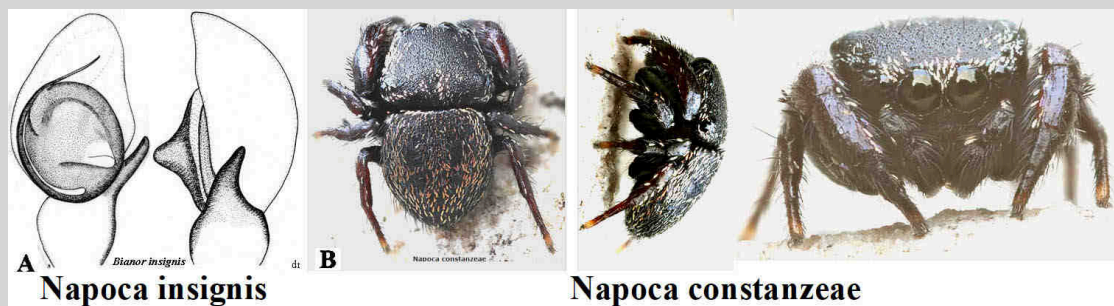
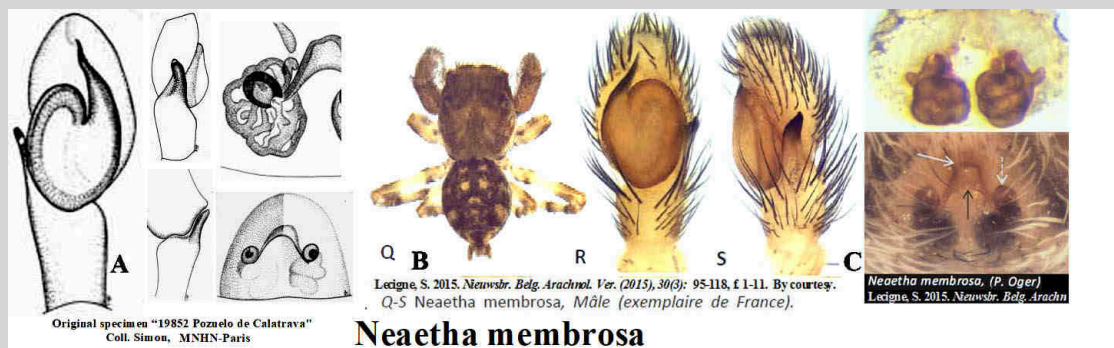
COMMENT. Note inconspicuous diagnostic differences between species shown at E and F, testifying to different species status.

Gen. Microbianor Logunov, 2000

Type species *Microbianor nigritarsus* (7 recognizable species)

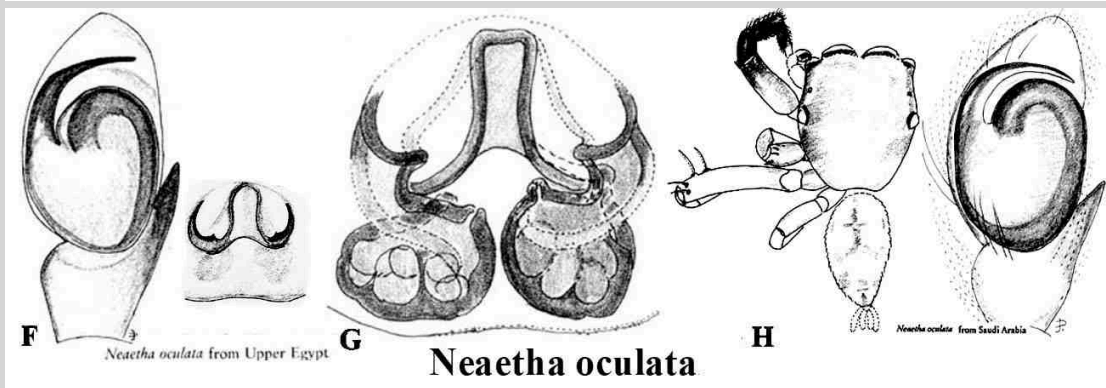
See more species at [Microbianor-Q+M](#)A - *Microbianor nigratarsus*, B - *Microbianor deltshevi*, C-D - *Microbianor furcatus*.SOURCE: A - Logunov D.V. 2000b. Cimbebasia, 16: 264-265, figs 11-20, B - Logunov 2009: ZooKeys 16: 276-278, f. 20-23, C-D - Haddad, Wesolowska 2013. *Genus* 24(3-4): 489-492, f 68-72, 75-76. All copyrights are retained by the original authors and copyright holders, used here by their courtesy.**Gen. *Modunda* Simon, 1901**Type species *Modunda staintoni* (5 recognizable species)See more species at [Modunda-Q+M](#)A-B - *Modunda staintoni*, C-D - same [?] from Yemen.

SOURCE: A-B - Proszynski 2003a. Ann. zool. 2003: 98-99, f 113, 116-117, 120, 123-129, C-D - ©Photo B. Knoflach. All copyrights are retained by the original authors and copyright holders, used here by their courtesy.

Gen. *Napoca* Simon, 1901Type species *Napoca insignis* (2 recognizable species)See more species at [Napoca-Q+M](#)Figure - . A - *Napoca insignis*, B - *Napoca constanzeae*.SOURCE: A - Proszynski 2003a. Ann. zool. 108-109, f 133-135 B - , ©Photo M. Schäfer in Logunov, D. V. & Schäfer, M. (2017). *Arthropoda Selecta* 26(3): 237, f. 1-3, 9-13, 17-21. All copyrights are retained by the original authors and copyright holders, used here by their courtesy.**Gen. *Neaetha* Simon, 1884**Type species *Neaetha membrosa* (8 recognizable species)See more species at [Neaetha-Q+M](#)**Neaetha membrosa**



Neaetha membroso



Neaetha oculata

A-E - *Neaetha membroso*: A - from Pozuelo de Calatrava" Typus[?], B-C - from France by S. Lecigne and P. Ogier, D-E - male and female - ©Photo M. Schäfer, F-H - *Neaetha oculata*.

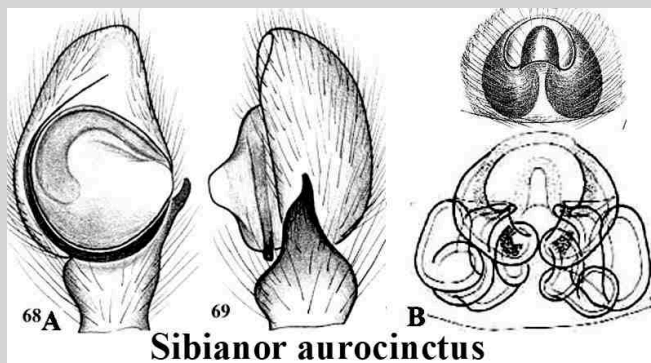
SOURCE: A - Proszynski 1984a. Atlas rysunków diagnostycznych mniej znanych Salticidae (Araneae). *Zeszyty Naukowe Wyższej Szkoły Rolniczo-Pedagogicznej*, Siedlce : 91-92, B-C - *Nieuwsbrief van de Belgische Arachnologische Vereniging* 30(3): 107, f. 4J-K, 4Q-S, D-E - ©Photo M. Schäfer, F-G - Proszynski 2003a. *Ann. zool.* 53(1): 109, f 453-455, H -Proszynski 1993 F. *Saudi Arab.* 13: 39-43, f 20-27. All ©copyrights are retained by the original authors and copyright holders, used here by their courtesy.

Gen. *Sibianor* Logunov, 2000

Type species *Sibianor aurocinctus* (14 recognizable species)

See more species at [Sibianor-Q+M](#)

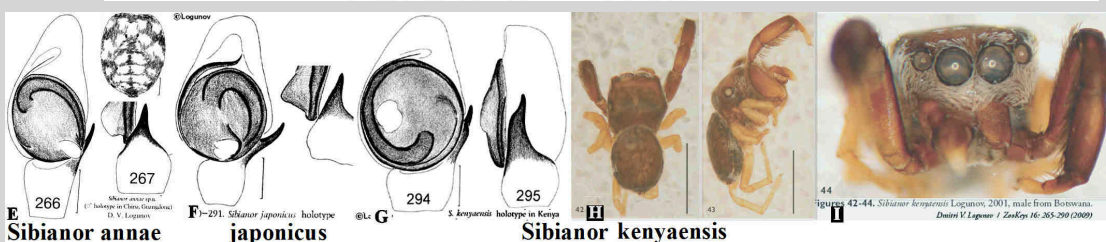
COMMENT: The genus *Sibianor* differs from *Bianor* by the presence of protuberance on tegulum, other characters seem similar.



Sibianor aurocinctus



Sibianor aurocinctus



Sibianor annae, **Sibianor japonicus**, **Sibianor kenyaensis**

A-D - *Sibianor aurocinctus*, E - *Sibianor annae*, G - *Sibianor japonicus*, G-I - *Sibianor kenyaensis*.

SOURCE: A-B - Zabka M. 1997. *F. Polski* 19: 5-187, f 60-69, H-I - photographs from the collection of German Arachnologische Gesellschaft, Logunov 2001a. *Arthr. Sel.*, 9 (4): 264, f 266-269; 267-268, figs 290-291; 294-295, photo 42-44. All ©copyrights are retained by the original authors and copyright holders, used here by their courtesy.