

## **The Type Material of Evanioidea and Stephanoidea (Hymenoptera) in the Museum and Institute of Zoology PAS, Warsaw**

**Tomasz HUFLEJT**

Museum and Institute of Zoology, PAS, Warsaw, Poland

**Abstract.** One hundred and sixty-five type specimens, described by G. Enderlein, of four families of Hymenoptera: Aulacidae, Evaniidae, Gasteruptiidae and Stephanidae, housed in the Museum and Institute of Zoology of the Polish Academy of Sciences in Warsaw are listed.

**Key words:** Type specimens, Hymenoptera, Aulacidae, Evaniidae, Gasteruptiidae and Stephanidae.

The following list includes 165 type specimens of Evanioidea and Stephanoidea (Hymenoptera) held in the Museum and Institute of Zoology of the Polish Academy of Sciences in Warsaw (MZPW - Museum Zoologicum Polonicum, Warszawa). There is the type material of 43 species and 7 varieties described by Günter Enderlein between 1901 and 1913. These specimens have been contributed by the author to the collection of the former Zoological Museum in Stettin (Szczecin), and next in 1945, they were incorporated to the present collection in Warsaw.

All specimens are labelled types by the Enderlein's determination labels, and furthermore (except for two specimens of *Evania sauteri*) they bear either red labels with the inscription "Type", or yellow ones with the inscription "Co=Typus". Because no holotype designations in the the original descriptions were made by Enderlein, the type specimens may be regarded as the holotypes only in these cases when new taxa were described from a single specimen, in the remaining cases however, the type material must be regarded as the syntype series. Up to now, no lectotypes were designated.

All specimens have two museum registration labels attached. One of them is white and bear the inscription in print "Mus. Zool. Polonicum Warszawa 12/45", the second one is red with the following inscription in print: "Mus. Zool. Polonicum Warszawa Typus n. [museum type number] [original name, author and year] [kind of the type]".

These types are listed in alphabetical order by the original genus and the species under their respective families and superfamilies. The species group name is followed by the author, year and page number of the

original publication. Next, the number of specimens in the type-series is given, and compared with the number of specimen housed in MZPW. Data for each type specimen are the kind of type, sex, museum registration number and the information contained on locality label enclosed in quotation marks. The condition of specimens (i.e. parts missing) is described only for the holotypes. For clarification or to point out an error, the occasional notes are included. No taxonomic changes and no synonymies are given in this catalogue.

## EVANOIDEA

### AULACIDAE

*Pristaulacus comptipennis* Enderlein, 1912a: 265

This species was described from eight females; four of them reside in MZPW.

SYNTYPE female No. 1493 labelled "Hoozan Formosa H. Sauter I.10".

SYNTYPE female No. 1494 labelled "Hoozan Formosa H. Sauter V.1910".

SYNTYPES females No. 1495-1496 labelled "Hoozan Formosa H. Sauter V.10".

*Pristaulacus Kiefferi* Enderlein, 1912a: 266

This species was described from one female and one male; the latter specimen resides in MZPW.

SYNTYPE male No. 1497 labelled "Darjeeling Sikkim H. Rolle Berlin, S.W.11".

### EVANIIDAE

*Brachygaster conjungens* Enderlein, 1909: 257

This species was described from nine females; all of them reside in MZPW.

SYNTYPES females No. 1482-1490 labelled "Formosa Takao 29.3.07. H. Sauter S.".

*Brachygaster laevis* Enderlein, 1906a: 244

This species was described from three males; all of them reside in MZPW.

SYNTYPES males (?) No. 1399-1401 labelled "S. Catarina Lüderwaldt".

Notes. The species was originally described as a male only, but on studying in a later period some additional material the same author stated in the subsequent paper (Enderlein, 1909: 260) that these specimens seem to be females ("Die vorliegenden Exemplare scheinen ♀ zu sein (nicht ♂, wie l.c. angegeben)"). One of the specimens bears a determinational label on which the mark "♂" has been corrected by hand on "♀".

*Brachygaster Lüderwaldti* Enderlein, 1906a: 241

This species was described from one male; it resides in MZPW.

HOLOTYPE male No. 1398 labelled "S. Catarina Lüderwaldt".

*Brachygaster magnus* Enderlein, 1905: 712

This species was described from five males; one of them resides in MZPW.

SYNTYPE male No. 1365 labelled "Peru. Pachitea-Fluss Staudinger V.".

*Evania abdominalis* Enderlein, 1913b: 248

This species was described from one female; it resides in MZPW.

HOLOTYPE female No. 1516 labelled "Sumatra Soekaranda Dr. H. Dohrn S."

Condition of specimen: two apical segments of left antenna, right foreleg and left hindleg beyond femur missing.

*Evania Bradleyi* Enderlein, 1909: 248

This species was described from one female and one male; both of them reside in MZPW.

SYNTYPE female No. 1414 labelled "Formosa Takao 27.7.07. H. Sauter S."

SYNTYPE male No. 1415 labelled "Formosa Yentempo. 20.5.07. H. Sauter S."

*Evania erythrocneme* Enderlein, 1913b: 249

This species was described from one male; it resides in MZPW.

HOLOTYPE male No. 1517 labelled "Batavia".

Condition of specimen: five apical segments of both antennae, right foretarsus except basal segment, claws of right hindtarsus missing.

*Evania formosana* Enderlein, 1909: 250

This species was described from thirty eight males; only one of them was not found in MZPW.

SYNTYPES males No. 1444-1447 labelled "Formosa Takao 8.8.07. H. Sauter S."

SYNTYPE male No. 1448 labelled "Formosa Takao 11.8.07. H. Sauter S."

SYNTYPE male No. 1449 labelled "Formosa Takao 19.8.07. H. Sauter S."

SYNTYPES males No. 1450-1455 labelled "Formosa Takao 22.8.07. H. Sauter S."

SYNTYPES males No. 1456-1459 labelled "Formosa Takao 11.9.07. H. Sauter S."

SYNTYPES males No. 1460-1463 labelled "Formosa Takao 16.9.07. H. Sauter S."

SYNTYPES males No. 1464-1467 labelled "Formosa Takao 20.9.07. H. Sauter S."

SYNTYPE male No. 1468 labelled "Formosa Takao 29.9.07. H. Sauter S."

SYNTYPE male No. 1469 labelled "Formosa Takao 2.10.07. H. Sauter S."

SYNTYPE male No. 1470 labelled "Formosa Takao 12.10.07. H. Sauter S."

SYNTYPE male No. 1471 labelled "Formosa Takao 31.10.07. H. Sauter S."

SYNTYPES males No. 1472-1477 labelled "Formosa Takao 2.11.07. H. Sauter S."

SYNTYPES males No. 1478-1480 labelled "Formosa Takao 4.11.07. H. Sauter S."

Notes. The date of capture on two specimens not agrees with the data given in the original description, but I believe both specimens belong to the type-series.

*Evania fumipennis* Enderlein, 1901: 190

This species was described from two males; one of them resides in MZPW.

SYNTYPE male No. 1360 labelled "N. Kamerun Joh.-Albrechtshöhe L. Conradt S."

*Evania hirsuta* Enderlein, 1906a: 238

This species was described from one male; it resides in MZPW.

HOLOTYPE male No. 1394 labelled "Malaka".

*Evania hirsuta* Enderl. var. *rufofemorata* Enderlein, 1906a: 240

This variety was described from one male; it resides in MZPW.

HOLOTYPE male No. 1395 labelled "Malaka".

*Evania Kriegeriana* Enderl. var. *trochanterica* Enderlein, 1906a: 241

This variety was described from two males; both of them reside in MZPW.  
SYNTYPES males No. 1396-1397 labelled "Soekaranda Januar 1894 Dohrn".

*Evania miniacea* Enderlein, 1905: 710

This species was described from three males; one of them resides in MZPW.  
SYNTYPE male No. 1363 labelled "Peru Marcapata Staudinger V."  
Notes. Collector's name (O. Garlepp.) given in the original description is lacking on label.

*Evania Müggenburgi* Enderlein, 1901: 188

This species was described from four males; one of them resides in MZPW.  
SYNTYPE male No. 1359 labelled "N. Kamerun Joh. Albrechtshöhe 14.VII.-17.VIII.96 L. Conradt S.".

*Evania oblonga* Enderlein, 1909: 246

This species was described from one male; it resides in MZPW.  
HOLOTYPE male No. 1413 labelled "Formosa Takao 8.8.07. H. Sauter S."  
Condition of specimen: two apical segments of left antenna missing.

*Evania orientalis* Szépl. var. *nigritarsis* Enderlein, 1906a: 230

This variety was described from one female and eight males; all of them reside in MZPW.  
SYNTYPE female No. 1368 labelled "Java occident. Sukabumi 2000' 1893 H. Fruhstorfer".  
SYNTYPES males No. 1369-1371 labelled "Dohrn Sumatra Soekaranda".  
SYNTYPE male No. 1372 labelled "Sumatra Soekaranda Dr. H. Dohrn S."  
SYNTYPES males No. 1373-1374 labelled "Soekaranda Januar 1894 Dohrn".  
SYNTYPES males No. 1375-1376 labelled "Dohrn Sumatra Liangagas".

*Evania orientalis* Szépl. var. *tibialis* Enderlein, 1906a: 230

This variety was described from one male; it resides in MZPW.  
HOLOTYPE male No. 1377 labelled "Sumatra Soekaranda Dr. H. Dohrn S."  
Condition of specimen: eight apical segments of both antennae, right foretarsus and right midtarsus except basal segment missing.

*Evania rimiceps* Enderlein, 1906a: 236

This species was described from one female and five males; the female specimen was not found in MZPW, all males reside here.  
SYNTYPES males No. 1389-1392 labelled "Dohrn Sumatra Soekaranda".  
SYNTYPE male No. 1393 labelled "Malaka".

*Evania rimosa* Enderlein, 1906a: 228

This species was described from one female; it resides in MZPW.  
HOLOTYPE female No. 1367 labelled "Fernando Po. Conradt".  
Condition of specimen: left hindleg except coxa and trochanter missing.

*Evania rufoniger* Enderlein, 1913c: 320

This species was described from two males; one of them resides in MZPW.  
SYNTYPE male No. 1518 labelled "Kankau (Formosa) H. Sauter VII.1912".

*Evania satanas* Enderlein, 1906a: 231

This species was described from five females and one male; one female was not found in MZPW, remaining specimens reside here.

SYNTYPES females No. 1378-1379 labelled "Dohrn Sumatra Soekaranda".

SYNTYPE male No. 1380 labelled "Dohrn Sumatra Soekaranda".

SYNTYPES females No. 1381-1382 labelled "Sumatra Soekaranda Dr. H. Dohrn S.".

*Evania Sauteri* Enderlein, 1909: 250

This species was described from thirty one females; twenty eight of them reside in MZPW.

SYNTYPE female No. 1416 labelled "Formosa Takao 16.6.07. H. Sauter S.".

SYNTYPES females No. 1417-1420 labelled "Formosa Takao 8.8.07. H. Sauter S.".

SYNTYPES females No. 1421-1422 labelled "Formosa Takao 11.8.07. H. Sauter S.".

SYNTYPE female No. 1423 labelled "Formosa Takao 19.8.07. H. Sauter S.".

SYNTYPES females No. 1424-1427 labelled "Formosa Takao 22.8.07. H. Sauter S.".

SYNTYPE female No. 1428 labelled "Formosa Takao 28.8.07. H. Sauter S.".

SYNTYPES females No. 1429-1431 labelled "Formosa Takao 11.9.07. H. Sauter S.".

SYNTYPES females No. 1432-1433 labelled "Formosa Takao 16.9.07. H. Sauter S.".

SYNTYPES females No. 1434-1435 labelled "Formosa Takao 20.9.07. H. Sauter S.".

SYNTYPES females No. 1436-1438 labelled "Formosa Takao 29.9.07. H. Sauter S.".

SYNTYPE female No. 1439 labelled "Formosa Takao 12.10.07. H. Sauter S.".

SYNTYPES females No. 1440-1441 labelled "Formosa Takao 2.11.07. H. Sauter S.".

SYNTYPES females No. 1442-1443 labelled "Formosa Takao 4.11.07. H. Sauter S.".

Notes. The date of capture on one specimen not correspond with published information, but I believe it belongs to the type-series.

*Evania setosa* Enderlein, 1906a: 233

This species was described from two females and one male; all of them reside in MZPW.

SYNTYPE female No. 1383 labelled "Sumatra Soekaranda Dr. H. Dohrn S.".

SYNTYPE female No. 1384 labelled "Dohrn Sumatra Soekaranda".

SYNTYPE male No. 1385 labelled "Dohrn Sumatra Soekaranda".

*Evania simillima* Enderlein, 1906a: 236

This species was described from one male; it reside in MZPW.

HOLOTYPE male No. 1388 labelled "Dohrn Sumatra Soekaranda".

Condition of specimen: six apical segments of left antenna missing.

*Evania sumatrensis* var. *xanthops* Enderlein, 1906a: 235

This variety was described from two males; both of them reside in MZPW.

SYNTYPES males No. 1386-1387 labelled "Dohrn Sumatra Soekaranda".

*Evaniella Hoffmannsi* Enderlein, 1909: 254

This species was described from one female; it reside in MZPW.

HOLOTYPE female No. 1481 labelled "Peru Chanchamayo Hoffmanns".

Condition of specimen: right hindtarsus, left hindtarsus except basal segment, right forewing missing; mesonotum mostly bitten by *Anthrenus*.

*Evaniellus peruanus* Enderlein, 1905: 714

This species was described from two males; one of them resides in MZPW.  
SYNTYPE male No. 1366 labelled "Peru Pachitea-Fluss Staudinger V."

*Evaniscus rufithorax* Enderlein, 1905: 711

This species was described from four males; one of them resides in MZPW.  
SYNTYPE male No. 1364 labelled "Bolivia Mapiri Staudinger V."

*Semaeomya* (sic!) *minutissima* Enderlein, 1909: 259 [err. typogr.]

This species was described from one specimen; it resides in MZPW.  
HOLOTYPE [sex undetermined] No. 1491 labelled "S. Catarina Lüderwaldt."  
Condition of specimen: no part missing.

*Semaeomyia minutissima* Enderlein, 1909: 259. See *Semaeomya* (sic!) *minutissima* Enderlein, 1909: 259 [err. typogr.]

*Semaeomyia Catharinensis* Enderlein, 1909: 260

This species was described from one male; it resides in MZPW.  
HOLOTYPE male No. 1492 labelled "S. Catarina Lüderwaldt."  
Condition of specimen: left hindleg beyond trochanter missing.

*Zeuxevania globiceps* Enderlein, 1903: 41

This species was described from two males; one of them resides in MZPW.  
SYNTYPE male No. 1362 labelled "Nyassa Lac, Langenburg Dr. Fülleborn S. Ende 1.99".

## GASTERUPTIIDAE

*Gasteruption corniculigerum* Enderlein, 1913c: 322

This species was described from four females and two males; two females and one male reside in MZPW.  
SYNTYPE female No. 1519 labelled "Formosa Silam 7.1.08 H. Sauter".  
SYNTYPE male No. 1520 labelled "Kankau (Koshun) Formosa H. Sauter VIII.1912".  
SYNTYPE female No. 1521 labelled "Kosempo Formosa H. Sauter 1911 7.April".

*Gasteruption rufescenticorne* Enderlein, 1913c: 324

This species was described from one female and two males; one female and one male reside in MZPW.  
SYNTYPE female No. 1522 labelled "Fuhosho Formosa H. Sauter III 09".  
SYNTYPE male No. 1523 labelled "Formosa Takao 31.VII 07 H. Sauter S."

## STEPHANOIDEA

### STEPHANIDAE

*Diastephanus carinifrons* Enderlein, 1906b: 293

This species was described from one female; it resides in MZPW.  
HOLOTYPE female No. 1403 labelled "Sumatra Soekaranda Dr. H. Dohrn S."  
Condition of specimen: apical segments of left antenna missing, abdomen glued on label.

*Diastephanus flavidentatus* Enderlein, 1913a: 204

This species was described from six females; two of them reside in MZPW.

SYNTYPE female No. 1500 labelled "Kankau (Koshun) Formosa H. Sauter V.1912".

SYNTYPE female No. 1501 labelled "Taihorin Formosa H. Sauter 1911; 7.XII".

*Diastephanus Dohrni* Enderlein, 1906b: 291. See *Diastephanus* (sic!) *Dohrni* Enderlein, 1906b: 291 [err. typogr.]*Diastephanus maculifemur* Enderlein, 1906b: 294

This species was described from two females; both of them reside in MZPW.

SYNTYPE female No. 1404 labelled "Perak".

SYNTYPE female No. 1405 labelled "Malaka".

*Diastephanus parviceps* Enderlein, 1906b: 296

This species was described from one female; it resides in MZPW.

HOLOTYPE female No. 1406 labelled "Dohrn Sumatra Soekaranda".

Condition of specimen: left foretarsus except basal segment, clawal segment of left midtarsus, tibia with tarsus of right midleg and right hindtarsus missing.

*Diastephanus ruficollis* Enderlein, 1913a: 205

This species was described from one female and three males; one male resides in MZPW.

SYNTYPE male No. 1502 labelled "Kankau (Koshun) Formosa H. Sauter V.1912".

*Diastephanus* (sic!) *Dohrni* Enderlein, 1906b: 291 [err. typogr.]

This species was described from one female; it reside in MZPW.

HOLOTYPE female No. 1402 labelled "Soekaranda Januar 1894 Dohrn".

Condition of specimen: apical segments left antenna, right foretarsus except basal segment, claws of both hindlegs missing.

*Foenatopus annulitarsus* Enderlein, 1913a: 206

This species was described from seven females; three of them reside in MZPW.

SYNTYPES females No. 1503-1504 labelled "Taihorin Formosa H. Sauter 1911; 7.VIII".

SYNTYPE female No. 1505 labelled "Kankau (Koshun) Formosa H. Sauter VI.1912".

*Foenatopus formosanus* Enderlein, 1913a: 207

This species was described from many specimens of both sexes; six females and four males reside in MZPW.

SYNTYPE female No. 1506 labelled "Kankau (Koshun) Formosa H. Sauter V.1912".

SYNTYPE male No. 1507 labelled "Kankau (Koshun) Formosa H. Sauter V.1912".

SYNTYPE male No. 1508 labelled "Kankau (Koshun) Formosa H. Sauter VIII.1912".

SYNTYPE male No. 1509 labelled "Kosempo Formosa H. Sauter 1911"; "7.VII".

SYNTYPE male No. 1510 labelled "Kosempo Formosa H. Sauter".

SYNTYPE female No. 1511 labelled "Kankau (Koshun) Formosa H. Sauter 1912"; ".IV".

SYNTYPES females No. 1512-1513 labelled "Taihorin Formosa H. Sauter 1911"; "7.XII".

SYNTYPE female No. 1514 labelled "Kosempo Formosa H. Sauter VI.09".

SYNTYPE female No. 1515 labelled "Kosempo Formosa H. Sauter VII.09".

Notes. The number of specimens composed the type-series is uncertain. A detailed list of the type material includes 20♀ and 11♂, and it differs from the Enderlein's statement that he regarded 18♀ and 12 ♂ as types. Three specimens have small additional labels with the date of capture. The date of capture on three specimens not correspond with published information, but I believe they belong to the type-series.

*Foenatopus indicus* (Westw.) var. *sulcaticollis* Enderlein, 1906b: 298

This variety was described from one female; it resides in MZPW.

HOLOTYPE female No. 1407 labelled "Dohrn Sumatra Soekaranda".

Condition of specimen: right foretarsus except basal segment and left hindleg except coxa missing, ovipositor sheaths broken off, one valvula lacking, the second one glued on label.

*Foenatopus indicus* (Westw.) var. *sumbana* Enderlein, 1906b: 298

This variety was described from one female; it resides in MZPW.

HOLOTYPE female No. 1408 labelled "Sumba Grelak".

Condition of specimen: clawal segment of right hindtarsus missing.

*Hemistephanus Pehlkei* Enderlein, 1906b: 304

This species was described from one female; it resides in MZPW.

HOLOTYPE female No. 1412 labelled "Columbien (R. Magdalena) E. Pehlke S.".

Condition of specimen: apical part of left antenna missing.

*Hemistephanus peruanus* Enderlein, 1906b: 302

This species was described from one female; it resides in MZPW.

HOLOTYPE female No. 1411 labelled "Rio toro Chanchamayo Peru".

Condition of specimen: claws of right midleg missing.

*Neostephanus camerunus* Enderlein, 1906b: 299

This species was described from one female and one male; both of them reside in MZPW.

SYNTYPE female No. 1409 labelled "Kamerun. Barombi. Conradt".

SYNTYPE male No. 1410 labelled "Kamerun. Barombi. Conradt".

*Stephanus Hornianus* Enderlein, 1912b: 390

This species was described from four females and two males; one female and one male reside in MZPW.

SYNTYPE female No. 1498 labelled "Pankulam Ceylon W. Horn 99".

SYNTYPE male No. 1499 labelled "Pankulam Ceylon W. Horn 99".

Notes. The locality name in the original description is given erroneously as Penkulam.

*Stephanus pygmaeus* Enderlein, 1901: 197

This species was described from three females and seven males; one male resides in MZPW.

SYNTYPE male No. 1361 labelled "Neu-Guinea Milne-Bay Micholitz S. R. Krieger V.".



## REFERENCES

- Enderlein G. 1901. Neue Evaniiden, Stephaniden, Mutilliden (Apterogyna), Proctotrupiden und Chalcididen, mit einer Bestimmungstabelle der africanischen Stephaniden. *Archiv für Naturgeschichte*, Berlin, **67**: 187-220.
- Enderlein G. 1903. Zwei neue ostafrikanische Zeuxevania-Arten. *Berliner Entomologische Zeitschrift*, Berlin, **48**: 41-44.
- Enderlein G. 1905. Zur Klassifikation der Evaniiden. *Zoologischer Anzeiger*, Leipzig, **28**: 699-716.
- Enderlein G. 1906a. Neue Evaniiden, besonders aus Sumatra. *Entomologische Zeitung*, Stettin, **67**: 227-245.
- Enderlein G. 1906b. Neue Beiträge zur Kenntnis und Klassifikation der Stephaniden. *Entomologische Zeitung*, Stettin, **67**: 289-306.
- Enderlein G. 1909. Neue Evaniiden aus Formosa und Südamerika. *Entomologische Zeitung*, Stettin, **70**: 245-262.
- Enderlein G. 1912a. H. Sauter's Formosa-Ausbeute. Braconidae, Proctotrupidae und Evaniidae (Hym.). *Entomologische Mitteilungen*, Berlin-Dahlem, **1**: 257-267.
- Enderlein G. 1912b. Über einige Evaniiden und Stephaniden des Deutschen Entomologischen Museums. (Hym.). *Entomologische Mitteilungen*, Berlin-Dahlem, **1**: 388-391.
- Enderlein G. 1913a. Die Stephaniden Formosas. *Zoologischer Anzeiger*, Leipzig und Berlin, **42**: 202-212.
- Enderlein G. 1913b. Beitrag zur Kenntnis orientalischer Evaniiden. *Zoologischer Anzeiger*, Leipzig und Berlin, **42**: 248-250.
- Enderlein G. 1913c. Die Evaniidenfauna von Formosa. *Zoologischer Anzeiger*, Leipzig und Berlin, **42**: 318-327.