

LIST OF TYPE SPECIMENS OF DROSOPHILIDAE (DIPTERA) IN THE COLLECTIONS OF THE RIJKSMUSEUM VAN NATUURLIJKE HISTORIE IN LEIDEN

by

GERHARD BÄCHLI

Zoologisches Museum, Universität Zürich-Irchel, Switzerland

ABSTRACT

The type specimens of Drosophilidae (Diptera) in the collections of the Rijksmuseum van Natuurlijke Historie in Leiden are listed. The collection of Drosophilidae contains 65 type specimens of 47 species out of 8 genera. Of these species 27 and 16 were described by Duda and De Meijere, respectively. All flies were collected in Java, Sumatra, or Simalur (Simeuluë) Islands.

Key words: Drosophilidae; type specimens; Indonesia.

INTRODUCTION

In 1926 Duda published descriptions of species of Drosophilidae based on material collected in Fort de Kock, Sumatra, by Edward Jacobson. Most of the specimens were sent back by Duda to the Museum in Leiden (Bächli, 1974, 1984), where they now represent the main part of the Drosophilidae collection. The specimens bear a label in Duda's handwriting and normally, a second, more legible label, perhaps in Jacobson's handwriting.

All 27 species described by Duda (1926) as new are represented by type specimens. In addition there are 16 species described by De Meijere, 2 species described by Bächli, and 2 species described by Tsacas & Chassagnard and by Van der Wulp, respectively. Together with the specimens in the Zoological Museum Amsterdam (Bächli, in press) and in the Zoological Museum Berlin (Bächli, 1984), this collection is fundamental for the study of the Indonesian drosophilid fauna.

The following list contains 65 type specimens of 47 species, which are arranged in alphabetical order. In total there are 7 holotypes, 4 paratypes, 7 lectotypes, 7 paralectotypes, and 40 syntypes. For species described before 1970 the essential details of collection sites and number of specimens are cited. The type specimens recorded are listed with details of the labels, as far as is considered to be essential. Different labels are separated by a slash (/). Remarks on the status and the condition of the type specimens are added where

needed. In addition, some comments are given, especially on the systematic position and synonymy. These data are based on the catalogue of Wheeler (1981).

Compared with the published data all expected species are represented by type specimens. However, the number of specimens is less than expected, due to the fact that many specimens have been sent to other museums, as shown by Bächli (1974).

ALPHABETIC LIST OF SPECIES

abbreviata De Meijere, 1911: 400 (*Drosophila*)
Citation: Semarang, Februar, März, Jacobson leg.
1 paralectotype: E. Jacobson Samarang Java Feb
1910 / *Drosophila abbreviata* De Meijere det.
Comment: This species is now included in
Leucophenga.

acrostichalis Duda, 1926: 61 (*Dettopsomyia*)
Citation: ... 3 ♂ (Fort Kock).

1 syntype ♂: Larven in feulenden Früchten / Fort
de Kock (Sumatra) 920 M. leg. E. Jacobson
1925 / Type / *Dettopsomyia acrostichalis* n.
sp. ♂ d. Duda / *Dettopsomyia acrostichalis* ♂
Duda det. O. Duda 1926 Type! / (abdomen
partly destroyed).

albonotata De Meijere, 1911: 408 (*Drosophila*)
Citation: Wonosobo (Java), April, 1 Ex., Semarang,
März, mehrere Exemplare an der Unterseite
eines Bambusstengels, Jacobson leg.

1 syntype ♀: E. Jacobson Semarang Java Mrt 1910 / 1596 / *Drosophila albonotata* De Meijere det.

alienata Duda, 1926: 58 (*Mycodrosophila*)

Citation: ... nur ein einziges ♀ (Fort de Kock).

Holotype ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / auf Pilzen / Type / *Mycodrosophila alienata* n. sp. Duda ♀ det. Duda 1926 Type.

brunnea De Meijere, 1916a: 59 (as *Sphyrnoceps brunneus*)

Citation: Sinabang, Februar.

1 syntype ♂: Java Jacobson / *Sphyrnoceps brunneus* det. De Meijere.

calceolata Duda, 1926: 105 (*Drosophila*)

Citation: ... 1 ♂, 1 ♀ aus Fort de Kock.

1 syntype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1926 / *Drosophila calceolata* n. sp. ♀ Type det. Duda / Type / *Drosophila calceolata* ♂ Duda det. O. Duda 1926 Type!

1 syntype ♀ *D. calceolata* n. sp. ♀ Duda det. O. Duda 1926 Type!

circumdata Duda, 1926: 84 (*Drosophila*)

Citation: ... ein ♀ aus Fort de Kock.

Holotype ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Acanthophila circumdata* n. sp. ♀ Type det. Duda 1926.

contracta Duda, 1926: 55 (*Liodrosophila*)

Citation: ... 3 ♀ aus Fort de Kock.

1 syntype ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Liodrosophila contracta* n. sp. ♀ Type d. Duda 1926.

convergens De Meijere, 1911: 400 (*Drosophila*)

Citation: Semarang, März, April, Jacobson leg.

1 syntype ♀: E. Jacobson Semarang Java Apr 1909 / *Drosophila convergens* De Meijere det.

Comment: This species is now included in *Stegana*.

fasciata Duda, 1926: 54 (*Liodrosophila*)

Citation: ... aus Fort de Kock 2 ♂, 2 ♀

2 syntypes ♂ ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Liodrosophila fasciata* Duda Type d. Duda 1926.

flavicosta Duda, 1926: 53 (*Leucophenga subpollinosa* var. *flavicosta*)

Citation: ... bei Fort de Kock... 3 ♂ von var. *flavicosta*.

Lectotype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / var. *flavicosta* ♂ d. Duda /

Type / *Leucophenga subpollinosa* De Meij. var. *flavicosta* ♂ Duda det. O. Duda 1926 / *L. flavicosta* Duda ♂ vid. Bächli '67, No. 4276.

gratiosa De Meijere, 1911: 404 (*Drosophila*)

Citation: Batavia, Dezember; Semarang, Dezember, auf *Polyporus*, Jacobson leg.

3 syntypes ♂ ♀: E. Jacobson Batavia Dec 1908 / *Drosophila gratiosa* De Meijere det.

Comment: This species is now included in *Mycodrosophila*.

hirsuta Duda, 1926: 97 (*Drosophila fenestrarum* var. *hirsuta*)

Citation: ... aus Fort de Kock 1 ♂, 5 ♀.

2 syntypes ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / *fenestrarum* var. *hirsuta* d. Duda / Type / *Drosophila fenestrarum* var. *hirsuta* Duda det. O. Duda 1926 Type!

hirticornis De Meijere, 1914: 261 (*Drosophila*)

Citation: Gunung Ungaran, September; Nongkodjadar, Januar, Jacobson leg.

1 paralecotype ♀: E. Jacobson Goenoeng Oengaran Java Sept 1910 / *Drosophila hirticornis* De Meijere det. / *D. (H.) hirticornis* D. M. Paratypus ♀ H 419 G. Bächli det. 1972.

jacobsoni Duda, 1926: 50 (*Leucophenga*)

Citation: 1 ♂ Jacobson leg. 1925 bei Fort de Kock, Sumatra.

Holotype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / ♂ det. Duda 1926 *Leucophenga jacobsoni* n. sp. Duda / *Leucophenga jacobsoni* ♂ Duda det. O. Duda 1926 Type! / Museum Leiden / *L. jacobsoni* Duda vid. Bächli, '67, ♂ No. 4277.

jacobsoni Duda, 1926: 59 (*Dettopsomyia*)

Citation: ... aus Fort de Kock: 9 ♂, 4 ♀.

1 syntype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Dettopsomyia jacobsoni* n. sp. ♂ (Typus) det. Duda 1926 / (left wing missing).

1 syntype ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Dettopsomyia jacobsoni* n. sp. ♀ (Typus) d. Duda 1926.

jacobsoni Duda, 1926: 66 (*Drosophila latifrons* var. *Jacobsoni*)

Citation: ... vier ♂ und ein ♀ (Fort de Kock).

Lectotype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / auf Pilzen / *Dasydrosophila latifrons* var. *Jacobsoni* ♂ (Typus) det. Duda 1926 / Type / *Dasydrosophila latifrons*

Duda var. *Jacobsoni* Duda ♂ det. O. Duda 1926
Type / *D. (H.) jacobsoni* Duda Lectotypus ♀ H
404 G. Bächli det. 1972.

- 1 paralectotype ♀: Fort de Kock (Sumatra) 920 M.
leg. E. Jacobson 1925 / *Jacobsoni* ♀ d.
Duda / Type / *Dasydrosophila latifrons* Duda
var. *Jacobsoni* Duda ♀ det. O. Duda 1926
Type! / *D. (H.) jacobsoni* Duda paratypus ♀ H.
405 G. Bächli det. 1972.

javana De Meijere, 1911: 422 (*Camilla*)

Citation: Batavia, October, 2 Ex.; Semarang, April,
mehrere Exx., Jacobson leg.

- 1 syntype ♂: E. Jacobson Samarang Java Apr
1909 / *Camilla javana* det. De Meijere.

Comment: This species is now included in
Sphaerogastrella.

limbipennis De Meijere, 1908: 156 (*Drosophila*)

Citation: Semarang, einige Exemplare, Jacobson
leg.

- 1 syntype ♀: Java Semarang Jacobson / *Drosop-*
hila limbipennis det. De Meijere / G. Bächli
vid. '67 No. 4553.

Comment: This species is now included in
Leucophenga.

lineata Van der Wulp, 1881: 57 (*Drosophila*)

Citation: Een ♀ te Soepajang in April.

Holotype ♀: Spj
4.77 / 119 / ♀ / Type / *Drosophila lineata*
Type V.. d. W. / (superficially dirty).

lugens Duda, 1926: 76 (*Drosophila*)

Citation: ... ein einziges ♂ (Fort de Kock).

Holotype ♂: Fort de Kock (Sumatra) 920 M. leg.
E. Jacobson 1925 / Type / *Paradrosophila lu-*
gens n. sp. Duda ♂ det. Duda 1926.

menisigra Bächli, 1974: 309 (*Drosophila*)

Citation in Bächli, 1974.

- 1 paratype ♀: Fort de Kock (Sumatra) 920 M. leg.
E. Jacobson 1925 / *Dasydrosophila latifrons*
var. *seminigra* n. var. (Typus) ♀ d.
Duda / Type / *Dasydrosophila latifrons* Duda
var. *seminigra* Duda ♀ det. O. Duda 1926
Type! / *D. (H.) menisigra* Paratypus ♀ H 60 G.
Bächli det. 1972.

minuta Duda, 1926: 70 (*Drosophila dentata* var.
minuta)

Citation: ... zahlreiche ♂ ♀ aus Fort de Kock.

Lectotype ♂: Fort de Kock (Sumatra) 920 M. leg.
E. Jacobson 1925 / auf Pil-
zen / Type / *Dasydrosophila dentata* var. *mi-*
nuta n. var. Ty-

pus ♀ det. O. Duda 1926 / *D. (H.) hirtominuta*
Lectotypus ♂ H 56 G. Bächli det. 1972.

- 1 paralectotype ♀: Fort de Kock (Sumatra) 920 M.
leg. E. Jacobson 1925 / *dentata* var. *minuta* ♀
d. Duda / Type / *Dasydrosophila dentata*
Duda var. *minuta* Duda ♀ det. O. Duda 1926
Type! / *D. (H.) hirtominuta* Paratype ♀ H 57
G. Bächli det. 1972.

Comment: The present name of this species is
Drosophila hirtominuuta Bächli, 1974.

montium De Meijere, 1916b: 205 (*Drosophila*)

Citation: Tjibodas, 5000-6000 Fuss, Koningsberger
leg.

- 1 paralectotype ♀: Tjibodas 5000-6000' Konings-
berger 1913 / *Drosophila montium* De Meij-
ere det.

nigra De Meijere, 1908: 153 (*Drosophila*)

Citation: Semarang, März, einige Exemplare, Ja-
cobson leg.

- 1 syntype ♂: Java III. '06 Semarang Jacobson / op
rottend vleesch / *Drosophila nigra* det. De
Meijere / *Drosophila nigricolor* det. De Meij-
ere.

Comment: The present name of this species is
Drosophila meijerei Wheeler, 1959.

nigra Duda, 1926: 68 (*Drosophila latifrons* var.
nigra)

Citation: ... 5 ♂, 5 ♀ aus Fort de Kock.

Lectotype ♂: Fort de Kock (Sumatra) 920 M. leg.
E. Jacobson 1925 / auf Pilzen / *Dasydrosop-*
hila latifrons var. *nigra* n. var. (Typus) ♂ det.
Duda / Type / *Dasydrosophila latifrons* Duda
var. *nigra* Duda ♂ det. O. Duda 1926 Type! / *D.*
(H.) hirtonigra Lectotypus ♂ H 402 G. Bächli
det. 1972.

- 1 paralectotype ♀: Fort de Kock (Sumatra) 920 M.
leg. E. Jacobson 1925 / var. *nigra* ♀ Dasy / dro
/ so / phila d. Duda / Type / *Dasydrosophila*
latifrons Duda var. *nigra* Duda ♀ det. O. Duda
1926 Type! / *D. (H.) hirtonigra* Paratypus ♀ H
403 G. Bächli det. 1972.

Comment: The present name of this species is
Drosophila hirtonigra Bächli, 1974.

nigrifrons De Meijere, 1911: 418 (*Stegana*)

Citation: Batavia, März, August, Jacobson leg.

- 1 syntype ♂: E. Jacobson Batavia Aug.
1908 / *Stegana nigrifrons* det. De Meijere.

nigrofemorata Duda, 1926: 110 (*Drosophila*)

Citation: ... 5 ♂, 5 ♀ aus Fort de Kock.

- 1 syntype ♂: Larven in faulenden Früchten / Fort

- de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Drosophila nigrofemorata* n. sp. ♂ Typus 1926 det. Duda.
1 syntype ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *D. nigrofemorata* n. sp. ♀ Typus 1926 det. Duda.
- nodosa** Duda, 1926: 103 (*Drosophila*)
Citation: ... aus Fort de Kock zwei ♀.
1 syntype ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Drosophila nodosa* n. sp. ♀ Duda 1926 det. Duda.
- obscura** De Meijere, 1911: 424 (*Amphoroneura*)
Citation: Batavia, März, August, Jacobson leg.
1 Syntype ♀: E. Jacobson Batavia Aug 1908 / *Amphoroneura obscura* det. De Meijere.
Comment: This species is now included in *Chymomyza*.
- parabrunnea** Tsacas & Chassagnard, 1976: 92 (*Drosophila*)
Citation in Tsacas & Chassagnard, 1976.
1 paratype ♀: Edw. Jacobson Pulu Babi Sim. Sum. 4. 1913 / *Drosophila brunnea* D. Meij. det. / *microvial* / *Drosophila* (*Scaptodrosophila*) *parabrunnea* n. sp. L. Tsacas & M. T. Chassagnard det. 1975 / Allotype.
1 paratype ♀: E. Jacobson Nongkodjadjar Java Jan 1911 / *Drosophila brunnea* De Meijere det. / *Drosophila* (*Scaptodrosophila*) *parabrunnea* n. sp. L. Tsacas & M. T. Chassagnard det. 1974.
- paradentata** Bächli, 1974: 286 (*Drosophila*)
Citation in Bächli, 1974.
1 paratype ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / *Dasydros. dentata* ♀, d. Duda / *Dasydrosophila dentata* Duda ♀ det. O. Duda 1926 / *D. (H.) paradentata* Paratypus H 55 ♀ G. Bächli det. 1972.
- parallelinervis** Duda, 1926: 57 (*Mycodrosophila*)
Citation: ... aus Fort de Kock 2 ♂, ein ♀.
1 syntype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Auf Pilzen / Type / *Mycodrosophila parallelinervis* Duda n. sp. ♂ Type det. Duda 1926.
- pictipes** De Meijere, 1911: 411 (*Drosophila*)
Citation: Wonosobo, April, Jacobson leg.
1 syntype ♀: E. Jacobson Wonosobo Java Apr 1909 / *Drosophila pictipes* De Meijere det.
Comment: This species is now included in *Dettopsomyia*.
- pilicrus** Duda, 1926: 74 (*Drosophila*)
Citation: 3 ♂, 4 ♀ aus Fort de Kock.
2 syntypes ♂ ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Paradrosophila pilicrus* n. sp. Typus d. Duda.
- pugionata** De Meijere, 1916a: 56 (*Drosophila*)
Citation: Sinabang, Februar.
1 syntype ♂: Edw. Jacobson Sinabang Simalur Sum. II. 1913 / 1891 / ♂ / *Drosophila pugionata* De Meijere det.
1 syntype ♀: Edw. Jacobson Sinabang Simalur Sum. II. 1913 / 1712.
1 syntype ♀: Edw. Jacobson Sinabang Simalur Sum. II. 1913 / 1886.
- pumilio** De Meijere, 1908: 153 (*Drosophila*)
Citation: Semarang, März, 2 Exx. auf faulem Fleisch erbeutet, Jacobson leg.
1 syntype: Java II. III. '06 Samarang Jacobson / *Drosophila pumilio* det. De Meijere / (abdomen missing).
- pygmaea** Duda, 1926: 102 (*Drosophila*)
Citation: ... ein einziges ♂ aus Fort de Kock.
Holotype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1926 / Type / det. Duda 1926 *Drosophila pygmaea* n. sp. ♂ Type.
- quadripunctata** De Meijere, 1908: 154 (*Drosophila*)
Citation: Semarang, Januar-März, einige Exemplare, Jacobson leg.
1 paralectotype ♂: Java I. '06 Samarang Jacobson / *Drosophila quadripunctata* De Meijere det. / Museum Leiden / *L. 4-punctata* D.M. Paratype ♂ vid. Bächli '67 No. 4278 / (head missing).
Comment: This species is now included in *Leucophenga*.
- radiata** Duda, 1926: 46 (*Phortica maculiceps* var. *radiata*)
Citation: Jacobson fand 1925 ein ♂ bei Fort de Kock.
Holotype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / *Phortica maculiceps* var. *radiata* ♂ det. Duda Type! 1926 / Type / *Phortica maculiceps* De Meij. var. *radiata* ♂ Duda det. O. Duda 1926 Type!
Comment: This is probably a synonym of *Amiota maculiceps*.
- scutellata** Duda, 1926: 70 (*Drosophila dentata* var. *scutellata*)
Citation: ... 1 ♂, 1 ♀ (Fort de Kock).

Lectotype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Dasydrosophila dentata* var. *scutellata* Duda Type det. Duda 1926 / *D. (H.) scutellata* Holotypus ♂ H 58 G. Bächli det. 1972.

seminigra Duda, 1926: 68 (*Drosophila latifrons* var. *seminigra*)

Citation: ... 25 ♂, 9 ♀ (Fort de Kock).

Lectotype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / *Dasydrosophila latifrons* var. *seminigra* n. var. ♂ (Typus) d. Duda / Type / *Dasydrosophila latifrons* Duda var. *seminigra* ♂ Duda det. O. Duda 1926 Type! / *D. (H.) seminigra* Lectotypus ♂ H. 59 Bächli det. 1972.

senilis Duda, 1926: 91 (*Drosophila*)

Citation: 3 ♂, 7 ♀ aus Fort de Kock, Sumatra.

2 syntypes ♂ ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *Macropalpus senilis* n. sp. Typus det. Duda 1926.

sublineata Duda, 1926: 69 (*Drosophila latifrons* var. *sublineata*)

Citation: ... massenhaft ♂ ♀ (Fort de Kock).

Lectotype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / *Dasydrosoph. latifrons* var. *sublineata* ♂ Typus det. Duda / Type / *Dasydrosophila latifrons* Duda var. *sublineata* Duda ♂ det. O. Duda 1926 Type! / *D. (H.) sublineata* Holotypus ♂ H 61 G. Bächli det. 1972.

sumatrana Duda, 1926: 62 (*Dettopsomyia pictipes* var. *sumatrana*)

Citation: ... 2 ♂, 2 ♀ aus Fort de Kock.

2 syntypes ♂ ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1925 / Type / *pictipes* var. *sumatrana* d. Duda / *Dettopsomyia pictipes* De Meij. var. *sumatrana* Duda det. O. Duda 1926 Type!

Comment: This is a synonym of *Dettopsomyia pictipes* De Meijere, 1911.

sumatrensis Duda, 1926: 79 (*Drosophila*)

Citation: ... aus Fort de Kock 9 ♂, 6 ♀.

2 syntypes ♂ ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1926 / *Paradrosophila sumatrensis* n. sp. Typus det. Duda / Type / *Paradrosophila sumatrensis* Duda det. O. Duda 1926 Type!

varipes Duda, 1926: 47 (*Phortica*)

Citation: ... 6 ♂, 3 ♀ aus Fort de Kock.

1 syntype ♂: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1926 / Type / Museum Leiden / *Phortica varipes* Duda det. Type ♂.

1 syntype ♀: Fort de Kock (Sumatra) 920 M. leg. E. Jacobson 1926 / *Phortica varipes* ♀ Duda Type det. Duda 1926.

Comment: This species is now included in *Amiota*.

SYSTEMATICALLY ARRANGED LIST OF SPECIES

The species are listed in the original and present generic affiliation.

Synonyms are given in parentheses.

Amiota: radiata (= *maculiceps*?), *varipes*.

Amphoroneura: obscura.

Camilla: javana.

Chymomyza: obscura.

Dettopsomyia: acrostichalis, jacobsoni, pictipes, sumatrana (= *pictipes*)

Drosophila: abbreviata, albonotata, calceolata, circumdata, convergens, gratiosa, hirsuta, hirticornis, jacobsoni, limbipennis, lineata, lugens, menisigra, minuta (= *hirtominuta*), *montium, nigra* De Meijere (= *meijerei*), *nigra* Duda (= *hirtonigra*), *nigrofemorata, nodosa, parabrunnea, paradentata, pictipes, pilicrus, pugionata, pumilio, pygmaea, quadripunctata, scutellata, seminigra, senilus, sublineata, sumatrensis*.

Leucophenga: abbreviata, flavicosta, jacobsoni, limbipennis, quadripunctata.

Liodrosophila: contracta, fasciata.

Mycodrosophila: alienata, gratiosa, parallelinervis.

Phortica: radiata, varipes.

Sphaerogastrella: javana.

Sphyrnoceps: brunnea.

Stegana: convergens, nigrifrons.

ACKNOWLEDGEMENTS

I wish to express my thanks to Dr P. J. van Helsdingen of the Rijksmuseum van Natuurlijke Historie, Leiden, for permission to work on the collection and for helping me in solving special problems. Mrs B. Andrew checked the English text.

REFERENCES

- Bächli, G., 1974. Revision der von Duda beschriebenen Südostasiatischen Arten des *Drosophila*-Subgenus *Hirtodrosophila* (Diptera: Drosophilidae). — Mitteilungen aus dem Zoologischen Museum in Berlin 49: 267—315.
- Bächli, G., 1984. Die Drosophiliden-typen der Dipterenammlung des Zoologischen Museum in Berlin. — Mitteilungen aus dem Zoologischen Museum in Berlin 60: 229—261.
- Bächli, G., (in press). List of Type Specimens of Drosophilidae (Diptera) in the Collections of the Zoo-

- logical Museum Amsterdam. — Bulletin Zoologisch Museum, Amsterdam.
- Duda, O., 1926. Fauna sumatrensis (Beitrag Nr. 26). Drosophilidae (Dipt.). — Supplementa entomologica 14: 42—116.
- Meijere, J. C. H. de, 1908. Studien über südostasiatische Dipteren. II. — Tijdschrift voor Entomologie 51: 105—180.
- Meijere, J. C. H. de, 1911. Studien über südostasiatische Dipteren. VI. — Tijdschrift voor Entomologie 54: 258—432.
- Meijere, J. C. H. de, 1914. Studien über südostasiatische Dipteren. IX. — Tijdschrift voor Entomologie 57: 137—275.
- Meijere, J. C. H. de, 1916a. Fauna Simalurensis-Diptera. — Tijdschrift voor Entomologie 58 (Suppl.): 1—63.
- Meijere, J. C. H. de, 1916b. Studien über Südostasiatische Dipteren. XI. Zur Biologie einiger javanischen Dipteren nebst Beschreibung einiger neuen javanischen Arten. — Tijdschrift voor Entomologie 59: 184—213.
- Tsacas, L., & M. -T. Chassagnard, 1976. Identité de *Drosophila brunnea* De Meijere et description de nouvelles espèces orientales et africaines à pointe du scutellum blanche (Diptera, Drosophilidae). — Bulletin Zoologisch Museum, Amsterdam 5: 89—105.
- Wheeler, M. R., 1981. The Drosophilidae: A taxonomic Overview. In: M. Ashburner, H. L. Carson, & J. N. Thompson (eds.), The Genetics and Biology of *Drosophila*, 3a: 1—97. — Academic Press, London.
- Wulp, F. M. van der, 1881. Diptera. In: P. J. Veth (ed.), Midden-Sumatra, Reizen en onderzoekingen der Sumatra-expeditie 4(2), Natuurlijke Historie 9: 1—63, pls. 1—3.

(Autor's address: G. Bächli, Zoologisches Museum, Universität Zürich-Irchel, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland.)



Bächli, Gerhard. 1988. "List of type specimens of Drosophilidae (Diptera) in the collections of the Rijksmuseum van Natuurlijke Historie in Leiden." *Tijdschrift voor entomologie* 131, 1–6.

View This Item Online: <https://www.biodiversitylibrary.org/item/89704>

Permalink: <https://www.biodiversitylibrary.org/partpdf/66456>

Holding Institution

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Sponsored by

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.