

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; Nongkodjadjar, 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 Pilzen
Zellen / Type / *Dasydrosophila dentata* var. *mi-*
nut.a 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 Nongkodjadar 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 Pilsen / 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 *Dottopsomyia*.
- 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 Semarang 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 seni-*
lis 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 sumatren-*
sis 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, cir-
cumdata, convergens, gratioiosa, hirsuta, birti-
cornis, jacobsoni, limbipennis, lineata, lugens,
menisigra, minuta (= *birtominuta*), *montium,*
nigra De Meijere (= *meijerei*), *nigra* Duda (= *bir-*
tonigra), *nigrofemorata, nodosa, parabrun-*
nea, paradentata, pictipes, pilicrus, pugionata,
pumilio, pygmaea, quadripunctata, scutellata,
seminigra, senilus, sublineata, sumatrensis.

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

Liodrosophila: contracta, fasciata.

Mycodrosophila: alienata, gratioiosa, parallelnervis.

Phortica: radiata, varipes.

Sphaerogastrella: javana.

Sphyrnoceps: brunnea.

Siegunia: convergens, nigrifrons.

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