

# Module

## Common problems in zoological nomenclature



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## Casus 1 - Synonyms

You suspect that two different names are used for the same species...

**Q:** How do you establish which of the names is correct?

**A:** *Step 1:* establish if the different names really do apply to the same species by consulting the original description and do also try to examine the type(s)

*Step 2:* ‘the oldest fool is always right’; so the senior synonym becomes the correct species name, if...

*Step 3:* the senior synonym is an available name; if not take the next available synonym

## Casus 2 – Availability

In the literature you find a species name that you have never heard of before...

**Q:** How can you know if that species name is available?

**A:** Use the criteria of availability as stipulated in the Code (cf Chapter 4). The main conditions are:

- Binomial – a name must have been published in a consistently binomial work
- Properly published after 1757 (e.g. multiple copies)
- Mandatory use of Latin alphabet; forming a word
- Name must be used as valid for a taxon when proposed
- Name must be accompanied by a description or definition or indication of the taxon it denotes
- After 1999 all new names must be explicitly indicated as intentionally new (e.g. fam. nov., gen. nov., sp. nov, nom. nov.)

## **Example 1:**

Chemnitz (1780) published the name *Conus moluccensis*. Is the name available?

- . Yes because it's binomial in structure
- . Yes because it's properly published
- . Yes because it uses the Latin alphabet
- . Yes because it's published as valid
- . **No** because Chemnitz (1780) work is not consistently binominal in structure

**Q:** Can I know if a work is not consistently binominal even if I don't have the (often rare) work in my possession?

**A:** **No you need to find a copy and verify!**

**Note however:** rejected and invalid works in zoological nomenclature are listed in an official index! (

Melville & Smith, 1987 & Smith 2001)

## **Example 2:**

Internet gives the following synonymy list for this species

***Bothrops alternatus* Duméril, Bibron & Duméril, 1854**

*Craspedocephalus brasiliensis* Gray, 1849 Nomen nudum

*Bothrops alternatus* Duméril, Bibron & Duméril, 1854

*Lachesis alternatus* (Duméril, Bibron & Duméril, 1854)

*Lachesis inaequalis* Magalhães, 1925



*Trigonocephalus alternatus* (Duméril, Bibron & Duméril, 1854)

*Trimeresurus alternatus* (Duméril, Bibron & Duméril, 1854)

**Q1:** Why isn't the oldest name the valid one?

**A1:** It's a nomen nudum; thus *ipso facto* unavailable

**Q2:** Is *Lachesis inaequalis* Magalhães, 1925 a junior or senior synonym?

**A2:** Junior, it's the youngest name

**Q3:** Which principle of the Code do you need to decide?

**A3:** Principle of priority! The first available name must be used unless it is invalidated by the rules of the ICBN

### **Example3:**

Cherbonnier, a reknown French taxonomist, utilises the name *Polycheira fusca* (Quoy & Gaimard, 1833) for this species → However in a ruling of the ICZN the name *fusca* Quoy & Gaimard, 1833 as published in the binomen *Fistularia fusca* was suppressed for the purpose of the law of priority (Opinion 762, 1966). Cherbonnier, argues that, as the type still exists (and thus, that the name can be stabilized), he can still use the name in the genus *Polycheira*



**Q1:** Is it justified to use a suppressed specific name in another combination (here *Polycheira fusca*)?

**A1:** No, a species name that is suppressed remains unavailable unless there's another ruling

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**Subject: opinion 762**

**From:** [Yves Samyn <Yves.Samyn@naturalsciences.be>](mailto:Yves.Samyn@naturalsciences.be)  
**Date:** 14/06/2006 11:18  
**To:** [iczn@nhm.ac.uk](mailto:iczn@nhm.ac.uk)  
**Cc:** [Didier VandenSpiegel](mailto:Didier.VandenSpiegel@naturalsciences.be), [Claude Massin](mailto:Claude.Massin@naturalsciences.be), [cbd-gt@belgium.be](mailto:cbd-gt@belgium.be)

Dear Dr Polaszek,

Sorry for the disturbance, but my colleagues and I are faced with a small nomenclatural question which we think the Commission can reply to with just 'yes' or 'no'.

Here's the case (Echinodermata: Holothuroidea: Apodida; Chiridotidae).

The name *fusca* Quoy & Gaimard, 1833, as published in the binomen *Fistularia fusca* was suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy in Opinion 762 (1966).

Subsequent authors have however continued to use the name *fusca* Quoy & Gaimard, 1833 in another genus (*Polycheira*) giving the name *Polycheira fusca* (Quoy & Gaimard, 1833).

Can you confirm us that this cannot be done, unless there's a new ruling by the Commission?

We would be using the oldest subjective synonym available; here: *Polycheira rufescens* (Brandt, 1835)

This is important for us as we are establishing a new series (called *AbcTaxa*) devoted to capacity building in taxonomy and collection management. As we want to show only 'good practices' in taxonomy, you'll understand that we don't want to sin against the nomenclatural rules.

My colleagues and I thank you in advance for your insight and your precious time.

Yours sincerely,

Dr Yves Samyn

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**Subject:** opinion 762

**From:** ICZN-AP <ICZN-AP@nhm.ac.uk>

**Date:** 15/06/2006 11:52

**To:** 'Yves Samyn'

Dear Yves,

You are quite correct on all points. It is the specific name that is suppressed, with the author(s) and date, as they appear in the particular combination cited. So it is not the combination being suppressed, but the specific name. Citing the suppressed specific name in another combination is therefore not allowed by the Code. The next available synonym should be used, as you correctly suggest.

Many thanks for taking the trouble to confirm your opinion on this matter. If all editors were this conscientious we would be faced with far fewer problems in animal nomenclature.

Best wishes, Andrew.

Dr Andrew Polaszek  
Executive Secretary,  
International Commission on Zoological Nomenclature  
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## Casus 3 – Priority

You have discovered two subjective synonyms  
published in the same year ...

**Q1:** Which is the senior – to be used - name?

**A1:** If one name was proposed at a higher rank than the other,  
then the highest rank automatically has precedence

Example

*vulgaris* Schmidt & *sinensis* Chang are proposed in the same year; *sinensis*,  
proposed for a species takes precedence over *vulgaris* because the latter was  
proposed for a subspecies

**A2:** If ranking cannot be used, ‘Determination by the First  
Reviser’ counts

Example

*Strix scandiaca* Linnaeus, 1758 & *S. nyctea* Linnaeus, 1758 are considered  
subjective synonyms. Lönnberg (1931), as first revisor, gave precedence to  
*Strix scandiaca*

## Casus 4 – Homonymy

Which of the two primary homonyms is valid?

**Example:**

*Cerithium morus* Lamarck, 1822



*Cerithium morus* Brugière 1792



→ The oldest: *Cerithium morus* Brugière 1792

## Casus 4 – Homonymy

Which of the two primary homonyms is valid?  
How can the youngest be cited?

### **Example:**

***Cerithium morus* Lamarck, 1822**



***Cerithium morus* Brugière 1792**



→ ***Cerithium morus* Lamarck, non Brugière 1792**

## Casus 4 – Homonymy

Which of the two primary homonyms is valid?

How can the youngest be cited?

How can the youngest get his valid name?

### **Example:**

***Cerithium morus* Lamarck, 1822**



***Cerithium morus* Brugière 1792**



→ The first available synonym: ***Cerithium albifasciatum* Sowerby, 1855**

## Casus 5 – replacement names

What to do if there's no name to replace a homonym?

**Example:**

**Parathyone Deichmann, 1957**



*P. surinamensis* Semper, 1868

*P. suspecta* Ludwig, 1875

**Parathyone Cherbonnier, 1988**



*P. incurvata* Cherbonnier, 1988



*Ekmanothyone nom. nov*

*Ekmanothyone incurvata* (Cherbonnier, 1988)

## Casus 6 – interpreting synonymy lists

**Example 1 (Wouters, 1962):**

### Hermanites excancellata (Neviani, 1928)

- 1878 *Cythere macropora*, BOSQUET. – BRADY, Antwerp Crag, p. 392-393; pl. 67, fig. 1a-1d; pl. 66, fig 6a-6d (non BOSQUET) (pars).
- 1894 *Cythere cancellata* LIENENKLAUS. - LINENKLAUS, Tertiär N.W. – Deutschl., p. 204-205; pl. 14, fig. 5a-5b.
- 1918 *Cythereis cancellata* LIENENKLAUS. – KUIPER, Oligo-Miocän Niederl, p. 60-62; pl. 3, fig. 25a-25b.
- 1928 *Cythereis excancellata* n.n. – NEVIANI, Vallebjaja, p. 91-93 (nomen novum pro *Cythere cancellata* LIENENKLAUS, 1894, non *Cythere cancellata* BRADY, 1868)
- 1962 *Cythereis excancellata* NEVIANI. – RUGGIERI, Suddivisione, p. 167.
- 1962 *Quadracythere excancellata* (NEVIANI, 1928). – BASSIOUNI, Mittelmiozän N.W.-Deutschland., p. 26-28; pl. 3, fig. 1-3.
- 1963 *Hermanites excancellata* (NEVIANI, 1928). – MORKHOVEN, Post-Paleozoic Ostr., II, p. 205.

## Casus 6 – interpreting synonymy lists

### Example 2 (Massin, unpublished):

#### *Holothuria (Mertensiothuria) hilli* Lesson, 1830

*Holothuria (Fistularia) hilli* Lesson, 1830: 226, pl. 78;

*Holothuria hilli*; Cherbonnier, 1951: 532, fig. 1; Tortonese, 1953: 42, fig. 5; Cherbonnier, 1955: 153, pl. 32, fig. g-r; Macnae & Kalk, 1958: 36ss; Kalk, 1958: 213ss; Kalk, 1959: 7, 22; Macnae & Kalk, 1962: 104ss; James, 1969: 62; Cherbonnier, 1963: 5; Cherbonnier, 1966: 56; Nagabhushanam & Rao, 1972: 290; Lawrence, 1980: 202; Grosenbaugh, 1981: 51; Branch & Branch, 1981: 249; Kropp, 1982: 446, 449; James, 1983: 98; James, 1983: 93; James, 1988: 404; Zoutendijk, 1989: 2; Colin & Arneson, 1995: 262, fig. 1234 (colour plate); James, 1995: 273; Weinberg, 1997: 246 (colour plate); Solis-Marin et al., 1997: 256; Hickman, 1998: 47 (colour plate); Lioa, 1998: 80; Kerr et al., 1998: 786; Conand, 1999: 10ss; Baine & Forbes, 1998: 4; Zulfigar & Tan Shau Hwai, 1999: 76; Roberts et al., 2000: 264, fig. 3d; James 2001: 7, fig. 15, (B/W photo); Zulfigar et al., 2001: 364; Conand & Mangion 2002: 28.

*Holothuria (Holothuria) hilli*; Vandenspiegel & Jangoux, 1989: 225.

...

*Holothuria (Thymiosycia) hilli*; Rowe, 1969: 147; Clark & Rowe, 1971: 178, pl. 28, fig. 9; A.M. Clark & Taylor, 1971: 91; Liao, 1975: 214; Rowe & Doty, 1977: 232, figs 4b, 8b; Levin, 1979: 22; Sloan et al., 1979: 123; Levin, 1980: 53; Liao, 1980, 115; Mary Bai, 1980: 13, textfig. 9I; Tortonese, 1980: 107; Humphreys, 1981: 35; Price, 1981: 9; Price, 1982: 11; fig. 51a-d'; Mukhopadhyay & Samanta, 1983: 307, fig. 8A-C; Price, 1983: 93; Rowe, 1983: 158; Leonardo & Cowan, 1984: 38, textfig.; Reyes-Leonardo, 1984a: 147, pl. 4 fig. 2a-f; Liao, 1984: 222; A.M. Clark, 1984: 99; Conand & Chaudry, 1985: 295; Richard, 1985: 457; James, 1985 [1988]: 404; Price & Reid, 1985: 6; Marsh, 1986: 73; Cannon & Silver, 1986: 25, fig. 7e, textfig.; Féral & Cherbonnier, 1986: 92 (colour plate); Cutress & Rowe, 1987: 267, figs 2c, 6e; George & George, 1987: 247; Cherbonnier, 1988: 85, fig. 34A-L; Mukhopadhyay, 1988: 8, fig. 7a-b1; Jangoux et al., 1989: 163; Conand, 1989: 28; Chao & Chang, 1989: 118, figs 17, 30D; Pauley, 1989: 27; James, 1989: 126; Levin & Dao Tan Ho, 1989: 57; Imaoka, 1991: 178, fig. 3A-D; James, 1991: 23; Mukhopadhyay, 1991: 407; Kerr et al., 1993: 782ss; Marsh et al., 1993: 64; Kerr, 1994: 169; Marsh, 1994a: 11; Marsh, 1994b: 57; Rowe & Gates, 1995: 302; Liao & A.M. Clark, 1995: 463, fig. 276a-d; James, 1995a: 59, pl. 1D, fig. 2G-H; Pawson, 1995: 189; Massin, 1996b: 30, fig. 20A-G; Gosliner et al., 1996: 280, fig. 1032 (colour plate); Liao, 1997: 141, fig. 83a-d; Rowe & Richmond, 1997: 304 (colour drawing); Liao, 1998: 80; Erhardt & Beansch, 1998: 1084 (colour plate); Forbes et al., 1999: 42, textfig + colour plate + map; Bussarawit & Thongtham, 1999: 35; Massin, 1999: 55 figs 44 (map), 11D (colour plate); Samyn, 2000: 15; Lane et al., 2000: 489; Samyn & Vanden Berghe, 2000: 28; Schoppe, 2000: 113, colour plate; Putchakarn & Sonchaeng, 2004: 426; Sastry et al., 2004: 64; James, 2004: 123; Marsh & Morrison, 2004: 303, 339; Thandar & Samyn, 2004: 255; Kumara et al., 2005: 25; Solis-Marin et al., 2005: 133; Sastry, 2005: 110.

*Holothuria (Mertensiothuria) hilli*; Samyn & Massin, 2003: 2500, figs 5A-E, 11C, 12F (colour plate); Samyn, 2003: 45, fig. 53A (map); Rowe & Richmond, 2004: 3301; Samyn et al., 2005: 15.

*Psolus monacaria* Lesson, 1830: 225, fig. 78.

...

*Holothuria monacaria*; Selenka, 1867: 331; Semper, 1868: 78, 276; Semper, 1869: 120; Ludwig, 1882: 134; Ludwig, 1883: 155, 165; Lampert, 1885: 72; Théel, 1886: 172, 217, pl. 8, fig. 10; Sluiter, 1887: 189; Bell, 1887: 140; Ludwig, 1887: 1224; Ludwig, 1888: 806; Bell, 1888: 385; Lampert, 1889: 808; Ludwig, 1889-92: 330; Thurston, 1890: xxx; Sluiter, 1894: 103; Thurston, 1895: 115; Koehler, 1895: 381; Koehler, 1885: 281; Sluiter, 1895: 77; Lampert, 1896: 54; Bedford, 1898: 841; Bedford, 1899: 146; Ludwig, 1899: 557; Sluiter, 1901: 11; Pearson, 1903: 201; Fisher, 1907: 659; Koehler & Vaney, 1908: 11; Clark, 1908: 310; Bedot, 1909: 160; Pearson, 1910: 180; Mitsukuri, 1912: 112; Pearson, 1913: 71, pl. 10, fig. 13; Ohshima, 1915: 216; Erwe, 1919: 182, fig. 2; Clark, 1920: 150; Clark, 1921: 180; Clark, 1923: 163; Clark, 1925: 103; Gravely, 1927: 164; Clark, 1932: 233; Domantay, 1933: 67, pl. 1, fig. 10; Engel, 1933: 9, pl. 1, fig. 3, textfig. 9-10; Panning, 1935: fig. 10e; Tortonese, 1936: 234; Sérène, 1937: 26; Clark, 1938: 526, pl. 16, fig. 17; Clark, 1946: 436; Dawydoff, 1952: 117; Endean, 1953: 57; Endean, 1956: 131; Endean, 1957: 253; Chang & Liao, 1964: 40, figs 1-2; Clark & Davies, 1966: 600; Clark & Rowe, 1967: 126; James, 1969: 62; Townsley & Townsley, 1972: 176; Daniel & Halder, 1974: 428; Rho & Shin, 1986: 247, pl. 1, figs 1-11; Satyamurti, 1976: 47; James, 1988: 404; Verbist, 1993: 116; Rho & Won, 1995: 345.

*Holothuria monacaria viridis* ; Clark, 1938 : 527

*Holothuria (Holothuria) monacaria*; Panning, 1935b: 69, fig. 47a-u; Domantay, 1936: 398, pl. 6, fig. 67.

*Thelenota monacaria* ; Brandt, 1835 : 55.

*Stichopus monacaria* ; Selenka, 1868 : 117.

*Holothuria flammea* Quoy & Gaimard, 1833 : 117, pl. 6, figs 5-6.

*Stichopus flammeus* ; Brandt, 1835 : 73 ; Selenka, 1867 : 320.

*Stichopus gyrisfer* Selenka, 1867 : 319.

...

*Holothuria gyrifer* ; Deichmann, 1937 : 371 ; Domantay, 1954 : 345.

*Brandtothuria gyrifer* ; Deichmann, 1958 : 294, pl. 1, figs 16-18.

*Holothuria (Thymiosycia) gyrifer* ; Rowe, 1969 : 147.

*Labidodemas leucopus* Haacke, 1880 : 46.

*Labidodemas neglectum* Haacke, 1880 : 48.

*Holothuria decorata* von Marenzeller, 1881 : 137, pl. 4, fig. 12 ; Ludwig, 1882 : 135 ; Ludwig, 1883 : 116 ; Théel, 1886 : 218 ; Ludwig, 1887 : 2 ; Ludwig, 1889-92 : 330 ; Mitsukuri, 1896 : 407 ; Bedford, 1899 : 146 ; Jangoux & De Ridder, 1990 : 207 ; .

*Holothuria (Thymiosycia) decorata* ; Imaoka, 1991 : 174, figs 1A-H, 2A-G

*Holothuria (Thymiosycia) decorata* var *quattuoricava* Imaoka, 1991 : 180, figs 1A-J, 2A-J, 3A-B

*Holothuria isuga* Mitsukuri, 1912 : 87, textfig 18a-f.

*Holothuria macleari* Bell, 1884 : 152, pl. 9, fig. G ; Clark, 1909 : 560 ; Mitsukuri, 1912 : 98, textfig. 20 ; Daniel & Halder, 1974 : 423

*Holothuria minax* Théel, 1886 : 173, pl. 8, fig. 8 ; Ludwig, 1889-92 : 330 ; Mitsukuri, 1896 : 408 ; Ekman, 1926 : 452, fig. A◎.

*Holothuria ondaatjei* Bell, 1887 : 654.

*Holothuria fasciola* Quoy & Gaimard, 1833 : 133 ; Brandt, 1835 : 74 ; Selenka, 1867 : 341.

*Holothuria fusco-punctata* Quoy & Gaimard, 1833 : 132; Brandt, 1835 : 75 ; Daniel & Halder, 1974 : 417.

*Holothuria umbrina* Rüppell & Leuckart, 1828 : 10, pl. 2, fig. 4a-b ; Panning, 1951 : 171, figs 1-7.

*Holothuria zihuatanensis* Caso, 1964 : 107, pls 1 (1-10), 2(1-13), 3, textfig 1-2 ; Caso, 1976 : figs 45-47.

*Stichopus (Holothuria) patagonicus* Perrier, 1904 : 13 ; Perrier, 1905 : 11, pl. 1, figs 1-3/



# State of the art Synonymies



***Holothuria (Mertensiothuria) hilla* Lesson, 1830**

*Holothuria decorata* Marenzeller, 1882

*Holothuria fasciola* Quoy & Gaimard, 1833

*Holothuria flammea* Quoy & Gaimard, 1833

*Stichopus flammeus* Brandt, 1835

*Holothuria fuscopunctata* Quoy & Gaimard, 1833

*Stichopus gyrisfer* Selenka, 1867

*Labidodemas leucopus* Haacke, 1880

*Holothuria macleari* Bell, 1884

*Holothuria minax* Théel, 1886

*Holothuria monacaria* Lesson, 1830

*Labidodemas neglectum* Haacke, 1880

*Holothuria ondaatjei* Bell, 1887

*Holothuria umbrina* Rüppell & Leuckart, 1828

*Holothuria zihuatanensis* Caso, 1964

e.g. *Holothuria*:  
**430 nomina; only  
some 165 valid**

## **Casus 7 – types**

You find that a name is represented by syntypes and that these are deposited in different collections...

**Q1:** What can you do to stabilize the name?

**A1:** Designate one of the syntypes as a lectotype so that this specimen becomes the unique name-bearer of the nominal species group taxon (art 74.1)

**Q2:** What status do the remaining syntypes get?

**A2:** Paralectotypes, which are no longer name-bearers

**Q3:** Which specimen to choose as the lectotype?

**A3:** The one that has been described is recommended

## **Example (Gutiérrez, 1995):**

Bolívar (1888) described *Pseudosymploce excisa* from specimens (syntypes) deposited in the Gundlach collection (IES) and MNCN (Madrid).

After collections comparison with the Bolívar original description, the male specimen in Gundlach collection was designated as lectotype, the specimens in Madrid thus automatically became paralectotypes

*P. excisa*, wild endemic cockroach from  
Guantánamo mountains, Cuba



## **Example (Gutiérrez, in prep)**

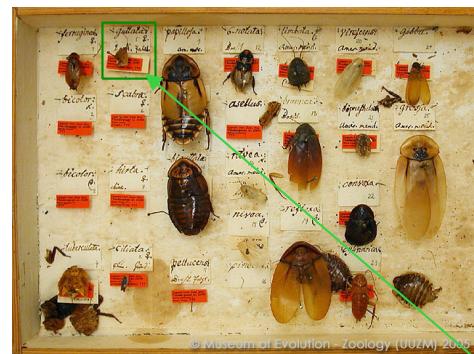
### **Where is the type?**

*Blatta guttata* Thunberg, 1810 (St. Barthelemy, Guadalupe) is listed and considered a member of the genus *Eurycotis* by some authors (Rehn & Hebard, 1927; Gurney, 1942; Princis, 1969) only from its original diagnosis:

“Ferruginea abdominis incifuris macula marginali flava”

With the study of Thunberg collection in Sweden it is defined that:

- B. guttata* is not an *Eurycotis*
- It is a different genus, family and it is a Juvenile!!!



## Casus 7 – types

Taxonomic study reveals that a name-bearing type is unidentifiable (i.e. it is a *nomen dubium*)...

**Nomen dubium**: A Latin term meaning “a name of unknown or doubtful application”

**Q1:** Can you yet stabilize that name?

**A1:** No, you must have it set aside through the plenary powers of the ICZN (art 75.5)

**Q2:** Can you still name the unidentifiable specimen?

**A2:** No, but you can designate a neotype for a specimen from the same locality (a ‘topotype’), whereby the unidentifiable specimen gets the same name (after approval of the ICZN)

# Example: Synonyms

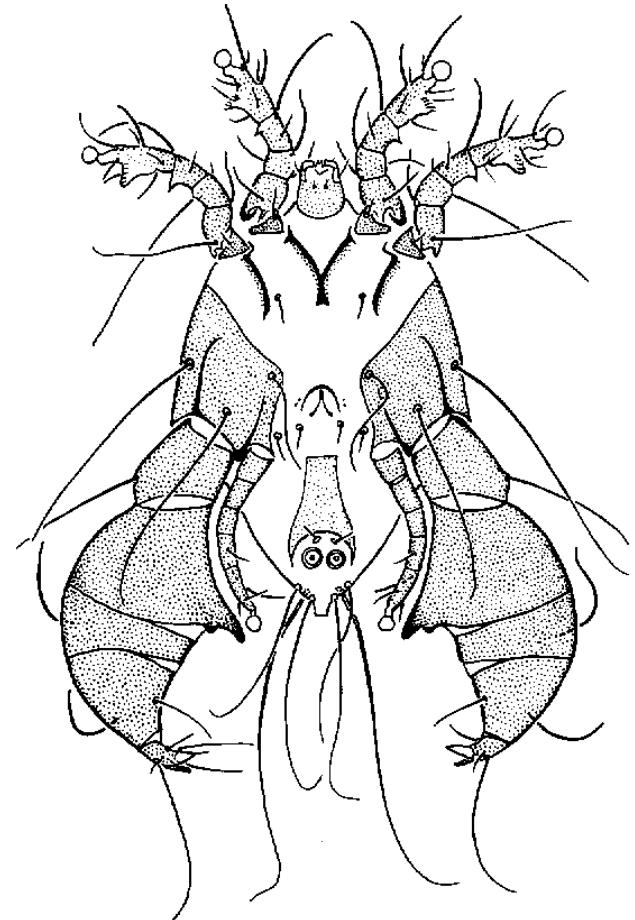
Genus *Sturnophagoides* Fain, 1967

- *S. bakeri* Fain, 1967
- *S. petrochelidonis* Cuervo & Dusbabek, 1987
- *S. brasiliensis* Fain, 1967

*Sturnophagoides halterophilus* Fain & Feinberg, 1970, Fain, 1988

*S. halterophilus* is considered as a synonym of *S. brasiliensis* because the description was based on a strongly heteromorphic male.

Frequently the phenomenon of polymorphism is reserved almost exclusively to males with two forms, called homeomorphs and heteromorphs.



# Example: About of types

## *Dermatophagooides pteronyssinus* (Trouessart, 1897)

- *Dermatophagooides scheremetewskyi*  
Bogdanov, 1864
- *Pachylichus crassus* Canestrini, 1894
- *Mealia pteronyssina*, Trouessart, in  
Berlesse 1897
- *Dermatophagooides pteronyssinus*,  
Dubinin, 1953; Fain, 1965
- *Mealia toxopei* Oudemans, 1928
- *Visceroptes saitoi* Sasa, 1948
- *Dermatophagooides saitoi* Sasa, 1950
- *Dermatophagooides sp.* Voorhorst et al.,  
1964
- *Dermatophagooides sp.* Voorhorst et al.,  
1964.
- *Dermoglyphus (Paralges) pteronyssoides*  
Trouessart, 1886: Gaud, 1968; Fain,  
Oshima & Bronswijk, 1974 (*nom.  
oblitum*)

(Fain, 1966) showed the reasons which have led us to choose *Dermatophagooides pteronyssinus* (Trouessart) instead of *D.scheremetewskyi* Bogdanov to represent the species of Pyroglyphidae most commonly found in houses in Europe. Unfortunately the types of this species are lost and original drawings of Bogdanov do not allow recognition of the species with certainty.

Samsinak, Vobrazkova & Dubinina (1982) have proposed to the International Commission of Nomenclature the inclusion of the name *Dermatophagooides pteronyssinus* (Trouessart, 1897) in the list of valid names (*nomina conservanda*) with as a synonym *D. scheremetewskyi*

Gracias por su atencion