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<https://doi.org/10.5109/26912>

出版情報 : ESAKIA. 53, pp.13-16, 2013-03-29. Entomological Laboratory, Faculty of Agriculture, Kyushu University

バージョン :

権利関係 :



Construction of Two Type Specimen Databases, TachikawaType and M.ChujoType

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Abstract. Two new type specimen files of KONCHU database, TachikawaType and M.ChujoType were constructed and are available to the public via the Internet. Each record consists of scientific names (family, genus and species), type locality, sex, collection date, collector, bibliographical information (title of the original description, journal, volume, page) etc., according to the format of the Darwin Core of the Global Biodiversity Information Facility (GBIF). In this paper, we present each home page of the two files. The database is administered by a SIGMA management system and can be accessed by visiting the following URL: <http://konchudb.agr.agr.kyushu-u.ac.jp/tachikawatype/> and <http://konchudb.agr.agr.kyushu-u.ac.jp/chujotype/>

Key words: Bioinformatics, KONCHU database, type specimen, parasitic wasp. Coleoptera, TachikawaType, M.ChujoType, SIGMA.

We have already produced the type specimen database, ELKUType, based on the Collection of the Entomological Laboratory of Kyushu University and have opened this database to the public via the Internet (Tadauchi et al., 2002; Tadauchi et al., 2009). We recently produced two new type specimen files, TachikawaType and M.ChujoType, both donated to the Kyushu University by Dr. Tetsusaburo Tachikawa and Dr. Michio Chujo, respectively. In this paper, we present the top pages of the two files. The databases are administered by a SIGMA management system and can be accessed by visiting the following URL: URL: <http://konchudb.agr.agr.kyushu-u.ac.jp/tachikawatype/> and <http://konchudb.agr.agr.kyushu-u.ac.jp/chujotype/>

The type specimen database TachikawaType is based on Dr. Tachikawa's parasitic wasp type collection donated to the Entomological Laboratory, Kyushu University. Dr. Tachikawa assisted Prof. Keizo Yasumatsu of the Entomological Laboratory of Kyushu University, who succeeded using *Anicetus beneficus* for biological control in Japan for the first time. He studied parasitic wasps,

especially the taxonomy of the family Encyrtidae and published a revision of the family in Japan (Tachikawa, 1963). The number of type specimens is 463 in total, containing the holotypes described by himself and paratypes described by other researchers.

The type specimen database M.ChujoType is based on Dr. Michio Chujo's Coleoptera type collection donated to the Entomological Laboratory, Kyushu University. Dr. M. Chujo took the role of leadership at the dawn of the development period of Japanese entomological science. He studied beetles, mainly the taxonomy of the families Chrysomelidae and Erotylidae, and published many revisions and catalogues of the families (M. Chujo, 1969; M. Chujo and S. Kimoto, 1961). The number of type specimens is 257 in total, containing the holotypes described by himself.

The database is written in English and is administered by a SIGMA text database management system running on a workstation in the Research Institute for Information Technology, Kyushu University. The home pages of the TachikawaType and M.ChujoType are presented in Figs.

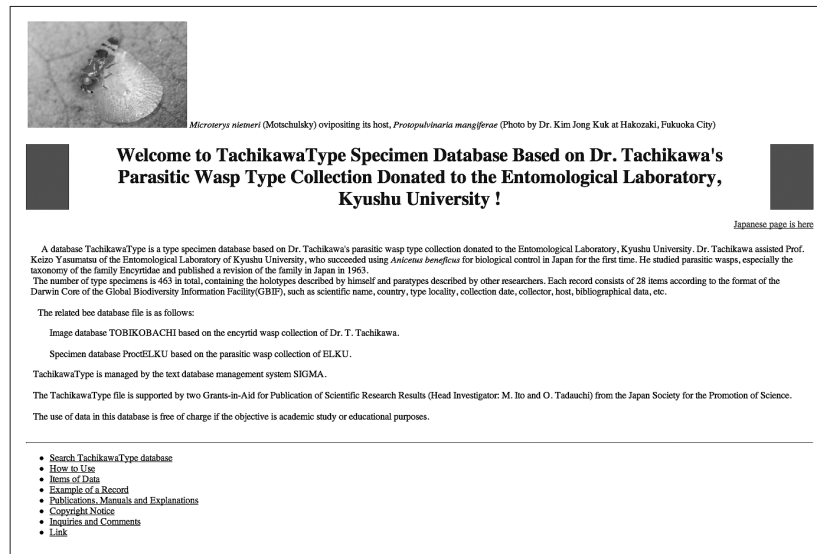


Fig. 1. A home page of a type specimen database file TachikawaType in the AIIIC in English version.

1-2. Operation of the SIGMA system is explained in Arikawa et al. (1987, 1988).

Each record is composed of 28 items selected from the Darwin Core format of the GBIF. Data and tags are the following 28 items.

1. (BOX) Box
2. (DATE) Date Last Modified
3. (INST) Institution Code
4. (COLC) Collection Code
5. (NAME) Scientific Name
6. (BR) Basis of Record
7. (KING) Kingdom
8. (PHY) Phylum
9. (CL) Class
10. (OR) Order
11. (FAM) Family
12. (GEN) Genus
13. (SP) Species
14. (AU) Scientific Name Author
15. (COL) Collector
16. (COLY) Year Collected
17. (COLM) Month Collected
18. (COLD) Day Collected
19. (C) Country
20. (LOC1) State Province
21. (LOC2) County
22. (LOC3) Locality
23. (SEX) Sex
24. (REL) Relationship Type
25. (NOTE) Notes
26. (T) Title of the Original Description

27. (J) Journal
28. (VNP) Volume, No., Page

An example of the data in TachikawaType is as follows:

Box	1
Date Last Modified	2010. 10.18
Institution Code	ELKU
Collection Code	TachikawaType
Scientific Name	Homalotylus hyperaspicola
Basis of Record	S
Kingdom	Animalia
Phylum	Arthropoda
Class	Insecta
Order	Hymenoptera
Family	Encyrtidae
Genus	Homalotylus
Species	hyperaspicola
Scientific Name Author	Tachikawa, 1963
Collector	T. Tachikawa
Year Collected	1958
Month Collected	5
Day Collected	29
Country	JP
State Province	Shikoku, Ehime Pref.
County	Matsuyama
Locality	
Sex	F
Relationship Type	Host: larva of Hyperaspis japonica Crotch
Notes	Holotype
Title of the Original Description	Revisional studies on the

TWO TYPE SPECIMEN DATABASES



Welcome to M.ChujoType Specimen Database Based on Dr. M.Chujo's Coleoptera Type Collection Donated to the Entomological Laboratory, Kyushu University !

[Japanese page is here](#)

A database M.ChujoType is a type specimen database based on Dr. Michio Chujo's Coleoptera type collection donated to the Entomological Laboratory, Kyushu University. Dr. M. Chujo took the role of leadership at the dawn of the development period of Japanese entomological science. He studied beetles, mainly the taxonomy of the families Chrysomelidae and Eryvidae, and published many revisions and catalogues of the families.

The number of type specimens is 257 in total, containing the holotypes described by himself. Each record consists of 28 items according to the format of the Darwin Core of the Global Biodiversity Information Facility (GBIF), such as scientific name, country, type locality, collection date, collector, host, bibliographical data, etc.

M.ChujoType is managed by the text database management system SIGMA.

The M.ChujoType file is supported by a Grant-in-Aid for Publication of Scientific Research Results (Head Investigator: M. Ito and O. Tadauchi) from the Japan Society for the Promotion of Science.

The use of data in this database is free of charge if the objective is academic study or educational purposes.

- [Search M.ChujoType database](#)
- [How to Use](#)
- [Items of Data](#)
- [Example of a Record](#)
- [Publications, Manuals and Explanations](#)
- [Copyright Notice](#)
- [Inquiries and Comments](#)
- [Link](#)

Fig. 2. A home page of a specimen database file M.ChujoType in the AIC in English version.

Journal	Encyrtidae of Japan (Hymenoptera: Chalcidoidea) Memoirs of the Ehime University, Sect. VI (Agriculture)
Volume, No., Page	9(1): 204, 208-210
An example of the data in M.ChujoType is as follows:	
Box	2
Date Last Modified	2011-6-23
Institution Code	ELKU
Collection Code	Chujo-ChujoType
Scientific Name	Anadastus negrosensis
Basis of Record	S
Kingdom	Animalia
Phylum	Arthropoda
Class	Insecta
Order	Coleoptera
Family	Languriidae
Genus	Anadastus
Species	negrosensis
Scientific Name Author	Chujo, 1974
Collector	M. Sato
Year Collected	1970
Month Collected	7
Day Collected	16
Country	PH
State Province	Negros, [Negros Oriental]
County	Amlan
Locality	
Sex	U
Relationship Type	
Notes	Holotype

Title of the Original Description	Languriid-beetles from Philippines, Sarawak and Malaysia. Studies on the languriid-beetles (13)
Journal	Bulletin of the Japan Entomological Academy, Nagoya
Volume, No., Page	8(2): 17, 20-21

Acknowledgements

We are indebted to Prof. M. Ito of Tokyo University, Assoc. Prof. S. Kamitani and Mr. D. Yamaguchi of the Entomological Laboratory, Kyushu University for their various help. We are also thankful to Assoc. Prof. L. Westover of Kyushu University for his reading the original manuscript. This is a Contribution from the Entomological Laboratory, Faculty of Agriculture, Kyushu University, Fukuoka (Ser. 6, No. 121). This work was supported in part by Grants-in-Aid for Publication of Scientific Research Results (Head investigator: M. Ito) and for Publication of Scientific Research Results (Head investigator: O. Tadauchi).

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