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PREPRINT OF PAPERS GIVEN AT THE FOURTH INTERNATIONAL SYMPOSIUM ON THE TURBELLARIA

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by

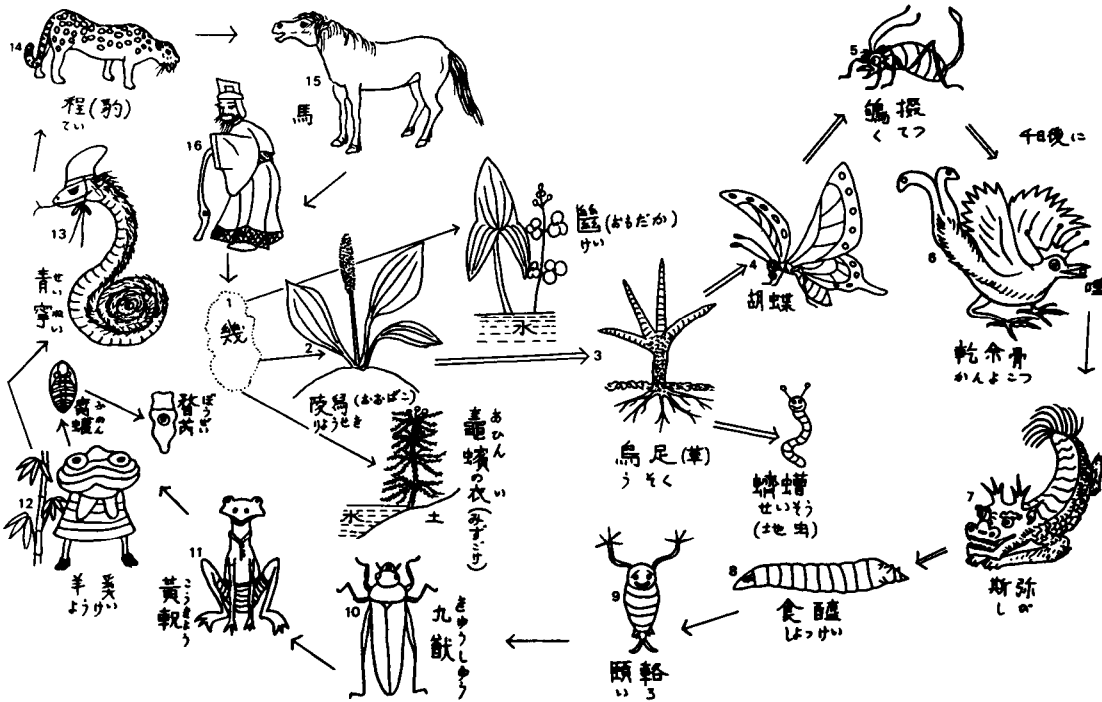
Masaharu KAWAKATSU, Sachiko TAMURA

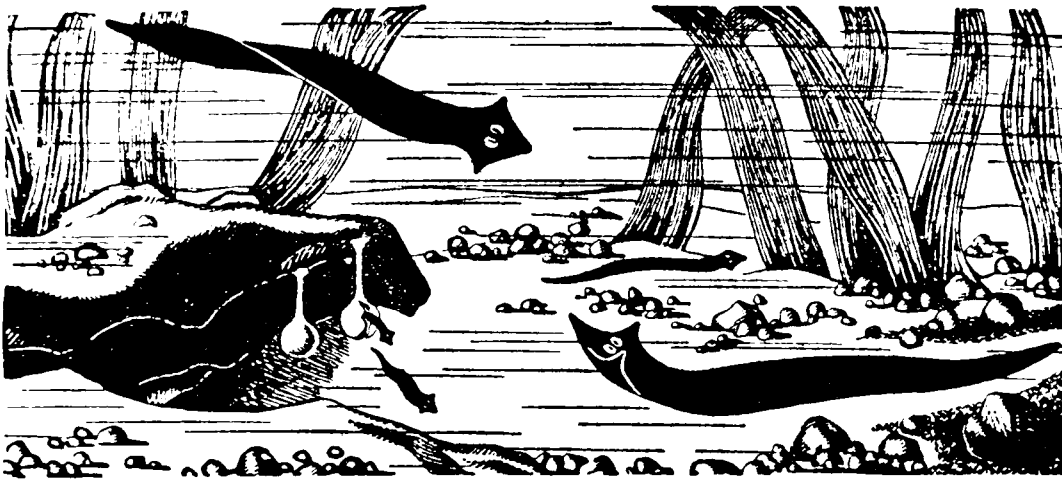
and

Kuang Yang LUE

(昭和59年7月 / 5日)

July 15, 1984





藤女子大学・藤女子短期大学 生物研究室 渦虫類拾遺集 第 / 3号

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FUJI WOMEN'S COLLEGE, SAPPORO (HOKKAIDÔ), JAPAN. No. 13

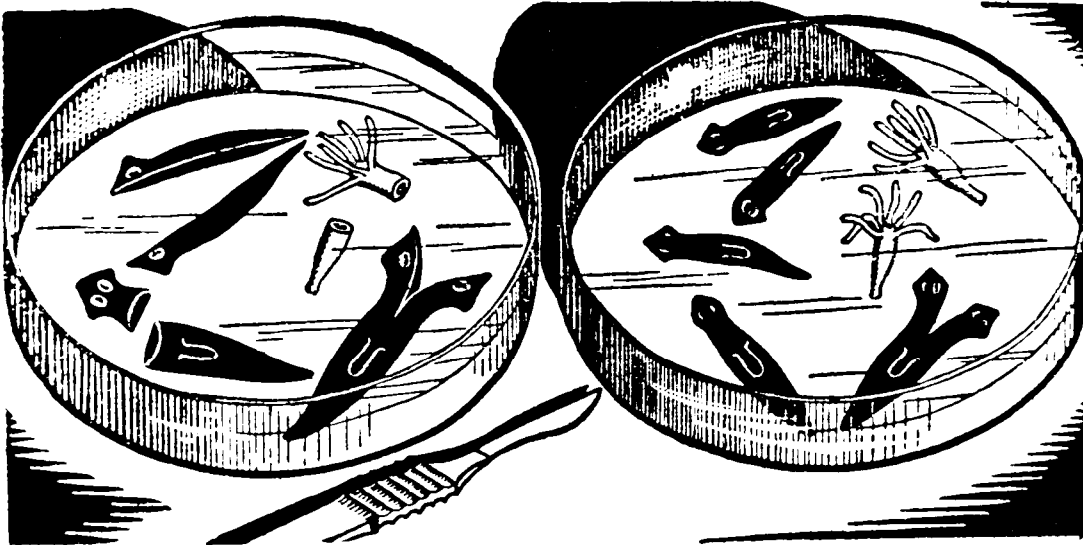
## WHAT IS PLANARIAN?

PLANARIAN REGENERATION: MORGAN'S THEORY  
AND CHILD'S PHYSIOLOGICAL GRADIENT THEORY

by

Masaharu KAWAKATSU

(昭和59年9月 / 日 完成 / 昭和60年4月20日 出版)



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OCCASIONAL PUBLICATIONS, BIOLOGICAL LABORATORY OF  
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No. 14

## SOME COLLECTING METHODS OF FRESHWATER PLANARIANS

by

Masaharu KAWAKATSU, Masayuki TAKAI,  
Hiroshi HORI, Akira MUTO,  
Syozo OSAWA and Kuang Yang LUE

(昭和60年6月20日)

June 20, 1985



OFFSET REPRODUCTION OF FIGURES AND  
PHOTOGRAPHS IN THE 1984 PAPER  
PUBLISHED IN "BIOLOGY OF INLAND WATERS",  
NARA, JAPAN.

by

Masaharu KAWAKATSU

(昭和6 / 年7月 / 日)

July 1, 1986



In 1984, the following taxonomic paper was published by KAWAKATSU, MITCHELL and KISHIDA. A freshwater planarian from Central Peru collected by the members of the Kanazawa University Expedition into the Peruvian Andes: Dugesia rincona MARCUS, 1954 (Turbellaria, Tricladida, Paludicola).

This English paper was published in No. 3 issue of "Biology of Inland Waters" (Nara, Japan), on pages 1-18 (+pls. 1-4). Unfortunately, the reprints were not supplied due to the printer's mistakes. Its mimeographed copy prepared in the Printing Office of Fuji Women's College was distributed to the colleagues, but the reproduction somewhat lacks clearness in detail. Figures and photographs printed in the taxonomic papers of this kind are sometimes cited by other taxonomists studying the same animal group. This production by the offset printing method of those included in the 1984 paper is intended to that effect.

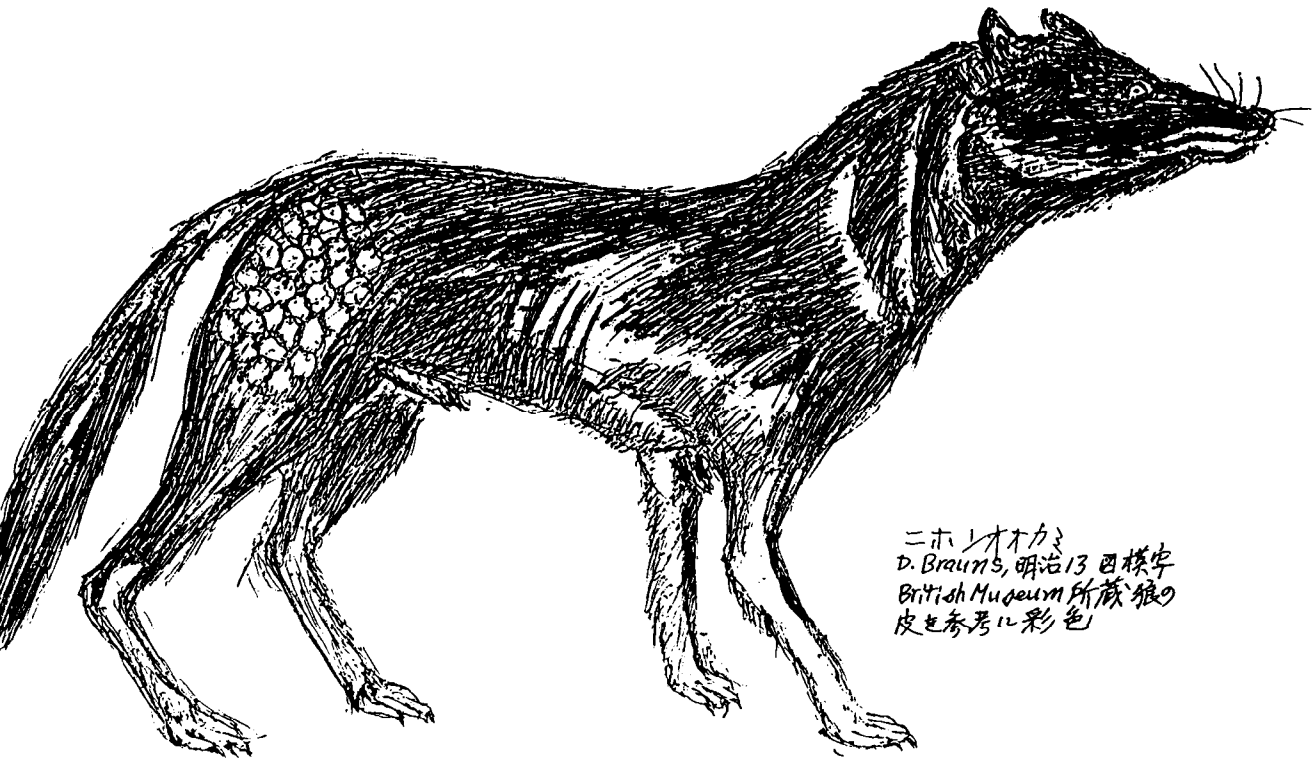
THE EVOLUTION THEORY OF AN ANCIENT  
CHINESE THINKER, ZHUĀNG-ZĪ  
(ZHOU ZHUĀNG)

by

Hisao SUGINO, Masaharu KAWAKATSU,  
Kuang Yang LUE, Atsushi KATAYAMA  
and Diva Diniz CORRÊA

(昭和6 / 年 8 月 / 5 日)

August 15, 1986



ニホシオオカミ  
D. Braun's, 明治13 図模写  
British Museum 所蔵狼の  
皮を参考し彩色

# EMENDATIONS OF SPECIFIC NAMES OF LAND PLANARIANS: GENUS BIPALIUM STIMPSON, 1858

by

Masaharu KAWAKATSU

According to the kind advices of Dr. Jun-ichi AOKI (Professor of the Institute of Environmental Science and Technology, Yokohama National University, Yokohama), Dr. Teiji KIFUNE (Professor of the Department of Parasitology, School of Medicine, Fukuoka University, Fukuoka), and Dr. Roman KENK (U. S. National Museum of Natural History, Smithsonian Institution, Washington, D. C.), it becomes clear that some specific names of land planarians described by two Japanese authors should be amended. The writer is indebted to these gentlemen for their interest in that publication. He is also grateful to Dr. Masamichi TAKEDA (Department of Zoology, National Science Museum, Tôkyô) for encouraging him to proceed with his continuing studies on triclad turbellarians.

The emendations required by the rules of the International Code of Zoological Nomenclature (ICZN), third edition (1985) are as follows.

Bipalium fulvum (KABURAKI, 1922)

Perocephalus fulvus n. sp. KABURAKI, 1922: 2, 7-8, 48, 54, pl. 1, fig. 3 (in color).

Perocephalus fulvus: KABURAKI, 1936: 506 (in Japanese).

Perocephalus fulvus: TU, 1940: 225, 249.

Perocephalus? fulvus: OKUGAWA, 1953: 43.

Bipalium fulvum: KAWAKATSU, 1983: 55, table 1 (in Japanese).

Cf. ICZN (1985; Art. 31 (b), Art. 34 (b)).

Species inquirenda. Type locality: Nikkô, Tochigi Prefecture, Honshû, Japan.

Bipalium glaucum (KABURAKI, 1922)

Placocephalus glaucus n. sp. KABURAKI, 1922: 2, 38-41, figs. 20-21, 48, 54, pl. 1, fig. 17 (in color).

Bipalium glaucus: TU, 1940: 221, 248.

Bipalium glaucus: OKUGAWA, 1953: 42.

Bipalium glaucus: KAWAKATSU, 1983: 55, table 1 (in Japanese).

Cf. ICZN (1985; Art. 31 (b), Art. 34 (b)).

Type locality: Yoshino, Wakayama Prefecture, Honshû, Japan.

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THE TURBELLARIA

Göttingen BUNDESREPUBLIK DEUTSCHLAND

August 9 - 14, 1987

by

Masaharu KAWAKATSU, Iwashiro OKI, Sachiko TAMURA,  
Koichi SEKIGUCHI, and Robert E. OGREN



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(昭和63年6月/5日) June 15, 1988

No. 19

INDEX TO THE SPECIES OF THE GENUS BIPALIUM  
(TURBELLARIA, TRICLADIDA, TERRICOLA):  
ADDITIONS AND CORRECTIONS

by

Robert E. OGREN and Masaharu KAWAKATSU





OFFSET REPRODUCTION OF FIGURES  
IN THE 1980 PAPER PUBLISHED IN THE  
"SCIENCE REPORTS OF THE HIROSAKI  
UNIVERSITY", JAPAN.

by

Masaharu KAWAKATSU

In 1980, the following taxonomic paper was published by KAWAKATSU, TESHIROGI and ISHIDA: Morphological variation of the copulatory apparatus of a Japanese freshwater planarian, *Polycelis (Seidlia) auriculata* IJIMA et KABURAKI, collected from five localities in the Tōhoku region, Honshū, Japan.

This English paper was published in No. 2 issue, Vol. 27, of the "Science Reports of the Hirosaki University", on pages 130-146. Unfortunately, diagrammatic sagittal views of the copulatory apparatus (Fig. 3 A-F, on pages 135-137) in this paper somewhat lacks clearness in detail. Figures printed in the taxonomic papers of this kind are sometimes cited by other taxonomists studying the same animal group. This production by the offset printing method of those included in the 1980 paper is intended to that effect.

Fig. 2 (on page 133) was also reproduced here in a large size.

Fig. 2. General structure and diagrammatic figures of the copulatory apparatus of *Polycelis auriculata* reproduced from Ijima and Kaburaki (1916; B) and Kaburaki (1922; A and C). Slightly retouched. Abbreviations of the original figures were changed according to those of Figure 3. bc, bulbar cavity; bs, bursa stalk; ca, common antrum; cb, copulatory bursa; cod, common ovovitelline duct; gp, genital pore; i, intestine; m, mouth; ma, male antrum; o, ovary; od, ovovitelline duct; ph, pharynx; pp, penis papilla; sd, sperm duct; t, testis.

On pages  
3-4.



▲  
On page 2.

Fig. 3. Diagrams showing the sagittal view of the copulatory apparatus of *Polycelis auriculata*. A: Specimen No. 1538 a from the Hibara-ko locality. Note the abnormal position of penis papilla. B: Specimen No. 1538 d from the Hibara-ko locality. C: Specimen No. 1625 a from the Sakunami locality. D: Specimen No. 1536 c from the Tashirota locality. E: Specimen No. 1537 a from the Zatōishi locality. F: Specimen No. 1539 e from the Iwaki-san Shrine locality. ap, atrial papilla; bc, bulbar cavity; bs, bursa stalk; ca, common antrum; cb, copulatory bursa; cg, cement gland; cod, common ovovitelline duct; ed, ejaculatory duct; gp, genital pore; ma, male antrum; mz, muscle zone surrounding the male antrum; pb, penis bulb; pg, penis gland; pp, penis papilla; sd, sperm duct; sv, spermiducal vesicle; v, vagina.

OCCASIONAL PUBLICATIONS, BIOLOGICAL LABORATORY OF  
FUJI WOMEN'S COLLEGE, SAPPORO (HOKKAIDÔ), JAPAN.

(平成元年//月/5日)

November 15, 1989

No. 21

MORPHOLOGICAL, KARYOLOGICAL AND TAXONOMIC  
STUDIES OF FRESHWATER PLANARIANS  
FROM SOUTH BRAZIL  
IX. THE FINAL REPORT

by

Masaharu KAWAKATSU

A project to study the South Brazilian freshwater planarian fauna was started in the spring of 1975 when the author received samples of non-identified animals collected from the vicinities of São Leopoldo, Estado de Rio Grande do Sul. The first joint paper by the author and the UNISINOS (Universidade do Vale do Rio dos Sinos) team members was published in December of 1976 based upon the material mentioned above (KAWAKATSU, HAUSER & FRIEDRICH, 1976).

In the winter of 1979 in Brazil, KAWAKATSU, who stayed at São Leopoldo by the invitation of UNISINOS, had a chance to collect a sufficient number of planarians from over thirty localities in Rio Grande do Sul. He also had a chance to visit São Paulo, and was able to make a short collecting trip in its vicinity by the courtesy of Dr. E. M. FROEHLICH and Dr. D. D. CORRÊA.

Several articles on taxonomic and karyological studies of Brazilian freshwater planarians, based upon these collections of both live and preserved specimens, were published during the past several years (1980-1986). Additional samples from Brazil, which were sent to KAWAKATSU from Dr. E. M. FROEHLICH, Dr. O. DE SOUZA LIMA, and the staff members of UNISINOS, were also employed for these studies.

PREPRINT OF PAPERS GIVEN AT THE SIXTH  
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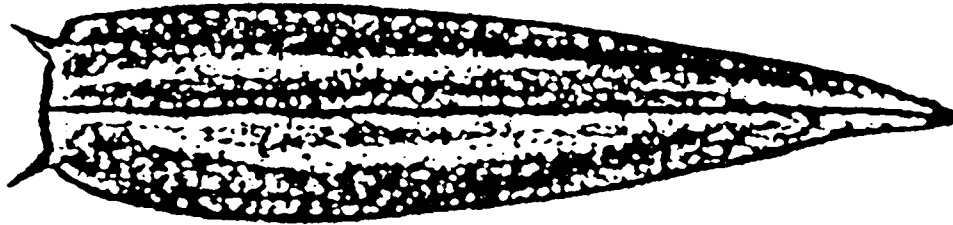
Hirosaki

JAPAN

August 7 - 12, 1990

by

Masaharu KAWAKATSU, Iwashiro OKI,  
Sachiko TAMURA, Robert E. Ogren,  
Tatsuya YAMADA, and Hitoshi MURAYAMA



*Prostheceraeus terricola*. SCHMARDA.

Taf. VI. Fig. 69.

Char.: *Corpus oblongo-lanceolatum*. *Dorsum convexum viride*. *Fascia mediana et margo purpureus*. *Tentacula subuliformia*.

Der Körper ist weniger flach als in andern Planarien, länglich, hinten lanzettförmig zugespitzt, vorne beinahe quer abgeschnitten. Die Fühler sind kurz und pfriemenförmig zugespitzt. Der Rücken ist stark convex, fast grasgrün, mit einer purpurrothen Längslinie nach seinem ganzen Verlaufe. Der Rand nicht wellenförmig, purpurroth gesäumt. Die Bauchfläche ist grünlichgrau. Die Länge 20<sup>mm</sup>, grösste Breite 5<sup>mm</sup>. Die Augen sind am innern Rande und der Basis der Fühler. Die Gruppe im Nacken habe ich nicht beobachtet. Die Mundöffnung ist im vordern Drittel. Die Geschlechtsöffnungen habe ich nicht aufgefunden.

Der Grund meiner unvollständigen Kenntniss dieser Thierform ist der Umstand, dass ich nur ein Exemplar in dem obern Theile des Quindiu-Passes ober der Region der Bergpalmen gefunden hatte, welches ich in Gallego skizzirte, das aber schon zu Grunde gegangen war, als ich es in meiner Abendstation in Tocho einer wiederholten nähern Prüfung unterziehen wollte.

Cited from Schmarda, L. K., 1859.

IN MEMORIAM

DR. ATSUHIKO ICHIKAWA,  
A WELL-KNOWN ZOOLOGIST  
(1904 - 1991)

by

Masaharu & Kazuko KAWAKATSU

and

Shin TAKEHISA

