

MISCELLANEOUS PAPERS ON "TURBELLARIANS"

By

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ARTICLE I

A LIST OF PUBLICATIONS ON JAPANESE "TURBELLARIANS" (2013) ... INCLUDING TITLES OF PUBLICATIONS ON FOREIGN "TURBELLARIANS" WRITTEN BY THE JAPANESE AUTHORS...

Compiled and annotated by MASAHARU KAWAKATSU, MIYUKI KAWAKATSU
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In a series of publications, of which this is the forty-fifth, we have collected and classified chronologically the titles of papers and records with regard to our "Turbellarians", which were published during the year 2013. As usual we have added the English titles of Japanese papers with no foreign language. Titles in Japanese are omitted in this version.

The pdf versions of 'A List of Publications on Japanese Turbellarians' (published after 2001) are available at Kawakatsu's website: <http://www.riverwin.jp/pl/> . Left button: planarian.net mirror. See also Left buttons: Miscellaneous 05, 06, 07, 08, 09, 10, 11, 12 and 13.

Digital versions of various taxonomic and ecological papers published by Kawakatsu's team are available at Kawakatsu's private collection (magneto-optical disc). Digital versions of teaching guides and popular scientific articles are also available (mainly in Japanese).

Notice. Kawakatsu's Old Home Page (<http://victoriver.com>) was closed at the end of March, 2012. His new homepage was opened after August 2012 (<http://www.riverwin.jp/pl/>). All of the web articles contained in the old HP were transferred into the New HP by the middle of 2013. See also the 'Note for Faubel, A.' in the 2012 web article.

The pdf versions of <A List of Publications on Japanese Turbellarians> (published 2001-2004) are available at Kawakatsu's New Website: <http://www.riverwin.jp/pl/> . Left button: Planarian.net mirror. Land planarian indices series: 2001, 2002, 2003 and 2004.

For the recent publications of this series (2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012 and 2013), see the same Website. Left buttons: Miscellaneous 05, Miscellaneous 06, Miscellaneous 07, Miscellaneous 08, Miscellaneous 09, Miscellaneous 10, Miscellaneous 11, Miscellaneous 12, Miscellaneous 13.

October 31, 2014. Sapporo and Kisarazu, Japan.

A LIST OF PUBLICATIONS ON JAPANESE “TURBELLARIANS” (2013)

Additional Key to the Japanese Journals

Caving Journal. The Speleological Society of Japan. Fukuoka City, Fukuoka Prefecture, Japan.

Cromosome Science. The Society of Chromosome Research. Tôkyô-To, Japan.

INFORMATION. International Information Institute, Koganai, Tôkyô-To, Japan.

SHIRAKAMI-SANCHI. Bulletin of the Shirakasm Institute for Environmental Sciences, Hirosaki University. Aomori Prefecture, Japan.

Science Report of the Toyohashi Museum of Natural History. Toyohashi City, Aichi Prefecture, Japan.

2010 (Heisei 22-Nen)

Ishida, S. Studies on the chromosomal polymorphism of Japanese freshwater planarian, *Seidlia auriculata*. INFORMATION, 13 (3A), pp. 767-773.

Nagasawa, R., Ogura, S., Takahashi, M. & Ishida, S. Karyotypes analysis of 7 species in Polyclads. INFORMATION, 13 (3A): 759-766.

Nodono, H. & Matsumoto, M. The mechanism underlying the switching of reproductive strategies in planarian: Pluripotent stem cell transplantation using microsatellite markers to identify donor-derived cells. Develop. Biol., 344 (1): 423- .

Suzuki, T., Yoshida, W. & Ishida, S. Studies on the chromosomal polymorphisms of Japanese freshwater planarian, *Seidlia auriculata*. INFORMATION, 13 (3A): 767-773.

2011 (Heisei 23-Nen)

Miyashita, H., Nakagawa, H., Kobayashi, K., Hoshi, M. & Matsumoto, M. Effects of 17 β -estradiol and bisphenol A on the formation of reproductive organs in planarian. Biol. Bull., 220: 47-56.

2012 (Heisei 24-Nen)

Kobayashi, K., Nakagawa, H., Maezawa, T. & Hoshi, M. Existence of two sexual races in the planarian species switching between asexual and sexual reproduction. *Zool. Sci. (Tôkyô)*, 29: 265-272.

Nodono, H., Ishino, Y., Hoshi, M. & Matsumoto, M. Stem cells from innate sexual but not acquired sexual planarians have the capability to form a sexual individual. *Molec. Reproduc. Develop.*, 09 / 2012.

Nodono, H. & Matsumoto, M. Reproductive mode and ovarian morphology regulation in chimeric planarians composed of asexual and sexual neoblasts. *Molec. Reproduc. Develop.*, 79 (7): 451-460.

Tasaka, K., Yokoyama, N., Nodono, H., Hoshi, M. & Matsumoto, M. Innate sexuality determines mechanisms of telomere maintenance. *Internat. Jour. Develop. Biol.*, 57: 69-72.

Yoshida, W., Nishitani, S-i, Okano, D. & Ishida, S. Molecular phylogenetic relationship and karyotypes of freshwater planarians (Platyhelminthes: Tricladida). *Chromosome Sci.*, 15: 77 (Abstracts of the 63rd Ann. Meet. Asahikawa, 2012).

2013 (Heisei 25-Nen)

Abe, Y. & Hosoi, T. Proposal of the Pied Piper's hypothesis. Abstracts of the 38th Conference of the Speleological Survey. *Caving Jour.*, (47): 11. (Jap.)

Note. The following English explanation of the Japanese abstract of this paper is given by Kawakatsu as follows:

Comparative ecological and molecular biological studies of a planarian, *Dugesia japonica* Ichikawa et Kawakatsu, 1964 inhabiting in a cave stream of the 'Iwai-Dani-no-Mizu-Ana Cave' and an epigeal stream located in the cave-side, Maibara City, Shiga Prefecture, Kinki Region, Honshû, Japan.

It was observed in a laboratory culture that cave-dwelling planarian specimens have a fondness for bat-guano than the epigeal planarian specimens. From the comparison of mitochondria DNA (cytochrome c oxidase subunit I gene), the subterranean worms are different from the epigeal worms studied.

It seems that a group of the epigeal population of *D. japonica* advanced into cave waters attracted by the presence of bat-guano in the new subterranean settlement.

The authors of the present paper propose that a 'Hypothesis of the Pied Piper of Hamelin' for the mutual relationship between epigeal and hypogean populations of a common planarian species. Namely, an ancestor group of the epigeal water population migrated into cave waters never to return.

Abé, H., Komatsu, T., Kokubu, Y., Natheer, A., Rothäusler, E. A., Shishido, H., Yoshizawa, S. & Ajisaka, T. Invertebrate fauna associated with floating *Sargassum horneri* (Fucates: Sargassaceae) in the East China Sea. *Species Diversity*, 18 (1): 75-85.

Note. On p. 78, Table 2. St. Nos. 2 and 8. Turbellaria is recorded.

Abé, H., Komatsu, T., Kokubu, Y., Natheer, A., Rothäusler, E. A., Shishido, H., Yoshizawa, S. & Ajisaka, T. Invertebrate fauna associated with floating *Sargassum horneri* (Fucates: Sargassaceae) in the East China Sea. *Taxa (Proc. Jap. Soc. Syst. Zool.)*, (35); 45. (Jap., Abstract.)

Agata, K. What kind of science can we conduct after genomic analysis of the planarian *Dugesia japonica*? Second European Meeting on Planarian Biology held in Dresden, Germany, Sept. 1-4, 2013, Abstract Book, p. 30.

Note. Publications from the Dr. Agata's team, see the following website. http://mdb.biophys.kyoto-u.ac.jp/index_E.html .

Chinone, A. & Matsumoto, M. Meiotic chromosome behavior in the triploid planarian: Function of rad51 homolog in gametogenesis. ISDB 17th Internat. Congress of Develop. Biol., Cancun, Mexico, June 16-20, 2013. Abstracts p. 51.

Inoue, T. Restoration of the brain function in planarian. Second European Meeting on Planarian Biology held in Dresden, Germany, Sept. 1-4, 2013, Abstract Book, p. 46.

Kanda, M., Hikosaka-Katayama, T., Hikosaka, A., Nakano, H., Koyanagi, R., Fujie, M. & Satoh, N. Towards genome decoding of all the animal phyla 4: Acoelomorphs, *Waminoa* and *Praesagittifera*. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 25-28, 2013, p. 156. (Jap.)

Kawakatsu, M., Froehlich, E. M. & Jones, H. D. Miscellaneous papers on "Turbellarians". ARTICLE II. Additions and corrections of the previous land planarian indices of the world (Platyhelminthes, Seriata, Tricladida, Continenticola, Geoplanoidea). Additions and corrections of the previous land planarian indices of the world-21. Kawakatsu's Web Library on Planarians: December 25, 2013. <http://www.riverwin.jp/pl/> . Left button: Miscellaneous 13. Pp. 14-34.

Note. This web article consists of 2 web articles: ARTICLE I (by Kawakatsu, M., Kawakatsu, M-y. & Kawakatsu, T.) and ARTICLE II (by Kawakatsu, M., Froehlich, E. M. & Jones, H. D.). See each web article according to the alphabetical order of the authors' names.

Kawakatsu, M., Kawakatsu, M-y. & Kawakatsu, T. Miscellaneous papers on "Turbellarians". ARTICLE I. A list of publications on "Turbellarians". ARTICLE I. A list of publications on Japanese "Turbellarians" (2012)... Including titles of publications on foreign "Turbellarians" written by the Japanese authors... Kawakatsu's Web Library on Planarians: December 25, 2013. <http://www.riverwin.jp/pl/> . Left button: Miscellaneous 13. Pp. 1-13.

Kazama, T., Komatsu, Y. & Kobayashi, R. A study for the propulsive mechanism of the swimming of polyclad flatworms by the analysis of flapping dynamics. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2013, p. 196. (Jap.)

Kobayashi, K., Maezawa, T., Nakagawa, H. & Hoshi, M. Existence of two sexual races in the planarian species switching between asexual and sexual reproduction. Abstract of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2013, pp. 22-23. (Jap.)

Matsumoto, M., Ueda, K., Takagi, S., Yoshitake, L. & Gojyobori, T. Comprehensive screening of sexualization-induced genes in planarian. ISDB 17th Internat. Congress of Develop. Biol., Cancun, Mexico, June 16-20, 2013. Abstracts p. 51.

Mitsumori, A., Obinata, T., Takai, R. & Sato, N. Analysis of expression regions of planarian troponin. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2013, p. 111. (Jap.)

Morita, N. & Saito, Y. The effect of different feeds on the growth and maturation of a polyclad *Pseudostylochus obscurus*. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2013, p. 195. (Jap.)

Nishi, H. Record of an alien freshwater planarian from Umedagawa River in Toyohashi, Aichi Prefecture, Japan. Sci. Rep. Toyohashi Mus. Nat. Hist., (23): 27-28. (Jap. with Eng. title.)

Note. *Girardia dorocephala* (Woodworth, 1897) is recorded. Cf. Kawakatsu, Nishino, Ogata, Kuranishi, Kobayashi & Ohtaka, 2012. <http://www.riverwin.jp/pl/> . Left button: Girardia JP .

Nishimura, Y., Kawaguchi, E., Yazawa, S., Nishimura, O., Inoue, T., Agata, K. & Umesono, Y. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2012, p. 115. (Jap.)

Nodono, H. [A report on the 17th International Congress of Developmental Biology, Cancun, Mexico, June 16-20, 2013]. Mail Magazine of the Zoological Society of Japan (August 1, 2013), 2 pages. (Jap.)
http://www.zoology.or.jp/news/index.asp?patten_cd=12&page_no=660 .

Nodono, H., Aboobaker, A. & Matsumoto, M. Telomere biology in the switching of reproductive modes in planarian *Dugesia ryukyuensis*. ISDB 17th Internat. Congress of Develop. Biol., Cancun, Mexico, June 16-20, 2013. Abstracts p. 165.

Rouhana, L., Weiss, J. A., Forsthoefel, L. L.-H., King, R. S., Inoue, T., Shibata, N., Agata, K. & Newmark, P. A. RNA interference by feeding in vitro-synthesized double-stranded RNA to planarians: methodology and dynamics. Develop. Dyn., 242: 718-730.

Shimoyama, S., Inoue, T. & Agata, K. Molecular analysis of feeding behavior in planarians. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2013, p. 190. (Jap.)

Sluys, R. Serendipity in science: the curious case of a maricolan planarian with a freshwater ecology. Second European Meeting on Planarian Biology held in Dresden, Germany, Sept. 1-4, 2013, Abstract Book, p. 64.

Note. This paper will be published in *Zoologica Scripta* in 2015 (44:72-91).
Sluys, R., Vila-Farre, M., Álvarez-Presas, M., Riutort, M., Kawakatsu, M. & Tulp, A. The diet and distribution of *Pentacoelum kazukolinda* (Kawakatsu & Mitchell, 1984) comb. nov. (Platyhelminthes, Tricladida), a maricolan planarian with a freshwater ecology. Doi. 10.1111/zsc.12084.

Takagi, S., Ueda, K., Nodono, H. & Matsumoto, M. Expression and functions of prohormone convertase 2 during sexualization in planarian. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2013, p. 199. (Jap.)

Uda, K., Dehara, Y., Abe, K. & Saigan, M. Isolation and characterisation of the aspartate racemase gene from the planarian *Dugesia japonica*. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2013, p. 169. (Jap.)

Umesono, Y. The molecular logic for planarian regeneration. Abstracts of the 84th Ann. Meet. of the Zool. Soc. of Japan held in Okayama, on September 26-28, 2013, p. 32. (Jap.)

Umesono, Y., Tasaki, J., Nishimura, O., Hosoda, K., Inoue, T. & Agata, K. The molecular logic for planarian regeneration along the anterior-posterior axis. *Nature*, 500 (Letter): 73-77. Doi:10.1038/nature12359.

Note. It is a new locality for this species (cf. Kawakatsu & Nishino, 2012: Lake Biwa, etc., Springer). *Phagocata kawakatsui* Okugawa, 1956 (loc. Yogo Lake area in Shiga Prefecture, Kinki Region, Honshû. Japan) was used as one of the materials.

Yoshida, W., Longshi, L. & Sasaki, C. The first record of two freshwater planarians (*Phagocata sibirica*, *Phagocata* sp.) from Mt. Ghangbai water system in China. Shirakami-Sanchi (Bull. Shirakami Inst. Environ. Sci., Hirosaki Univ.), 2: 1-8.

Zoological Society of Japan. Zoological Science Award 2013. Hikosaka-Katayama, T., Koike, K., Yamashita, H., Hikosaka, A. & Koike, K. (2013). Mechanisms of material inheritance of dinoflagellate symbionts in the acoelomorph worm *Waminoa litus*. *Zool. Sci. (Tôkyô)*, 29: 559-567. *Zool. Soc. of Japan: Information for the Members of the Society*: June 10, 2013. (Jap.)

Zoological Society of Japan. Zoological Science Award 2013. Kobayashi, K., Maezawa, T., Nakagawa, H. & Hoshi, M. (2013). Existence of two sexual races in the planarian species switching asexual and sexual reproduction. Zool. Sci. (Tôkyô), 29: 265-272. Zool. Soc. of Japan: Information for the Members of the Society: June 10, 2013. (Jap.)

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