

**The Late Dr. Robert Wetsel Mitchell (1933-2010):
Over 32-year Study of Planarians**

By

MASAHARU KAWAKATSU and LINDA MITCHELL

INTRODUCTION

Obituary and In Memories of Dr. Robert Wetsel Mitchell were published in the *Biospeology – The Biology of Caves, Karst, and Groundwaters* – (Ed. Dr. William R. Elliott: 22 March, 2010). The deceased was known as a famous Texas cave biologist and invertebrate zoologist (mainly studied an arachnology). He was also known as a specialist of freshwater planarians who published many papers during from 1968 to 2004 (most of the articles were published with Kawakatsu).

This web article consists of three sections. In the Section I, a complete list of 49 papers and abstracts of freshwater planarians is given by year, author(s) and title. In the Section II, articles about the deceased are given with several papers on the relational problems of planarian taxonomy published by five turbellariologists.

In the Section III, a list of freshwater planarians studied by the late Dr. Mitchell and Kawakatsu (1968-2004) is given according to the 'New Higher Classification of Planarian Flatworms' (cf. Sluys, Kawakatsu, Riutort & Baguña, 2009). (See References of the Section III.) References for the Section III are listed by authors and year (i.e., according to the usual style of references citation). A short taxonomic note will also be given for some articles listed. This Section may be useful for turbellariologists who read this web article.

This web article is affectionately dedicated to the late Dr. Robert Wetsel Mitchell.

Acknowledgements. Kawakatsu is indebted to Dr. William R. Elliott (Missouri Department of Conservation) and Dr. James R. Reddell (The University of Texas at Austin) for their kindly supplying a tentative list of the late Dr. Mitchell's bibliography.

**I. 49 Papers (including abstracts) on Planarians Published by Mitchell,
Kawakatsu and Their Coauthors**

Compiled by Robert W. Mitchell † and Masaharu Kawakatsu

Note. The papers are listed by year, author(s) and title.

* Papers could not seen by Kawakatsu.



Fig. 1. Dr. R. W. Mitchell at the Texas Southmost College Esatasion Biologia, Rancho del Cielo, Mexico. January, 1971.

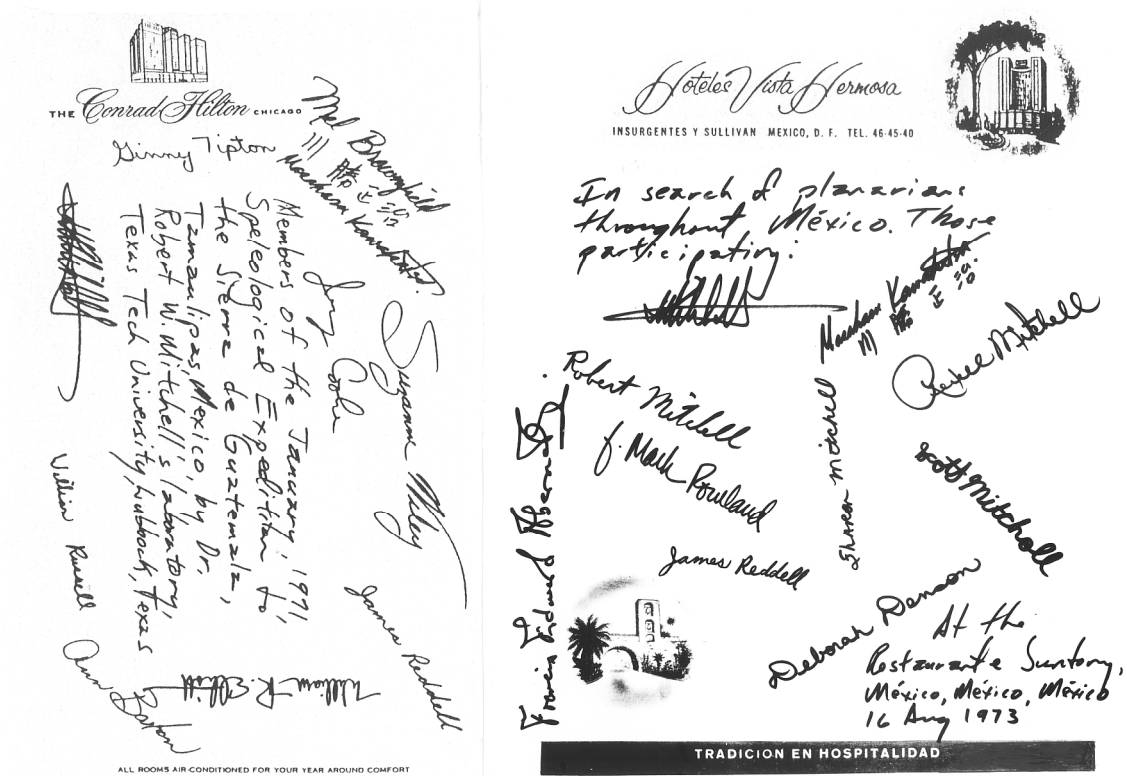


Fig 2. Promiscuous writings. Left: At Rancho del Cielo (January, 1971). Right: At Mexico City (August 16, 1973). After Kawakatsu (1974a / II-8 on p. 9). On page 2.

ミッチェル博士と アメリカ蜘蛛学会機関誌の創刊

川勝 正治*

アメリカの洞穴動物学者 R. W. ミッチェル博士からアメリカ蜘蛛学会 (The American Arachnological Society) の機関誌 “The Journal of Arachnology” を創刊し、近いうちに第1巻が出版されるので、日本の関係者にお知らせしてほしいとの連絡があった。この雑誌はミッチェル博士が主任編集者で年間10ドルで配布され、日本からの原稿も送ってほしいとのことである。詳細は、八木沼健夫博士 (567 大阪府茨木市安威230 追手門学院大学生物学研究室, 東亜蜘蛛学会) が専門誌に紹介されるはずであり、投稿については八木沼博士に相談されればよいと思う。

編集 Dr. Robert W. Mitchell: Department of Biology, Texas Tech University, Lubbock, Texas 79409

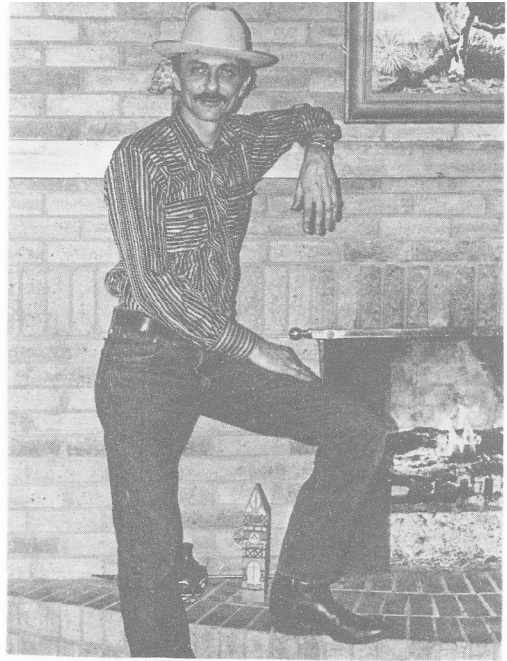
入会申込み The American Arachnological Society, c/o Mel E. Thompson, Secretary-Treasurer, Whittier Narrows Nature Center, 1000 N. Durfee Avenue, South El Monte, California 91733, U.S.A.

ミッチェル博士は研究分野の広い学者で、渦虫類学者でもあり、私は個人的に親しくしている。

博士の研究はテキサス南部とメキシコの洞穴動物相の解明で、教室員 (J. A. L. Cooke, M. Rowland, R. E. Smith, W. Suzanne, W. R. Elliott の各氏ら) やメキシコ洞穴研究協会 (Association for Mexican Studies, Austin) の James R. Reddell 博士らと共にたびたび調査旅行をしておられる。また、国際洞穴学雑誌 (International Journal of Speleology; Verlag von J. Cramer) の編集者のひとりでもある。博士自身の主な研究分野はハナダニ類、洞穴生のクモ類 (特に節腹目クコムシ科——発生・生態のほとんどわかっていなかった特殊な群)、洞穴生盲目のサソリ類、洞穴生のメクラグモ類、洞穴生のヤスデ類、洞穴生の鞘翅類、洞穴生のサンショウウオ、テキサスとメキシコの洞穴地下水生の盲目魚 *Astyanax* (カラシン科の魚で、ネオンテトラやピラニアに近い群) などの生態・分類・分布で、テキサス洞穴のホラアナウズムシ属 *Sphaloplana* 5種の分類と生態 (1968) も報告された。

ミッチェル博士と私との最初の交渉は、私が日本産と朝鮮産のホラアナウズムシ類の原稿をまとめていた1967年春からで、お互の原稿コピーを交換して検討した。それ以後親しく連絡をとっていたが、1970年12月

* KAWAKATSU, Masaharu: Dr. Robert W. MITCHELL, an American biospeologist, and “The Journal of Arachnology”.




Robert W. Mitchell

図1 ミッチェル博士。1971年1月、博士のお宅の居間で撮影。私の求めに応じてウエスタン・スタイルをされたもの。カットはメキシコ洞穴産の *Cryptocellus osorioi* (クコムシ) で、“The Southwestern Naturalist” 14巻 (1966) の表紙用図案として画かれた原図。この図は博士のデスク用紙にも刷られている。また、博士のレターペーパーには盲目のサソリ *Typhlochactas reddelli* の淡彩図が印刷されている。

にシカゴで開かれた“故 Hyman 博士追悼記念シンポジウム——渦虫類の生物学”に私達が招待講演者として参加したとき、初めて顔を合わせた。その帰途、博士のお宅に招かれてご家族 (興棟と3人の子供さん達) とも親しくなり、メキシコ北部のSierra de Guatemala (ガテマラ山地) の洞穴調査にも同行した。この旅行の最後の日に、タンピコ (Tampico; メキシコ湾沿いの小さな市) のモーテルで別れるとき“川勝博士! ぜひ我々の調査団のメンバーとしてメキシコにもどってきて欲しい! あなたの協力が必要だから”テキサス弁まる出しの博士の言葉が忘れられない。

こうして、私達のささやかな国際協力研究が始まり、メキシコの洞穴生プラナリア類の分類を二人で担当することになった。また、私の考えで、地下水生と地上水生とのプラナリア類の関連性も追跡し、あわせてメキシコと南北両アメリカ大陸の渦虫類相をも研究することになった。この線に沿って、私達の共著論文がすでに4篇完成した。今年 (1973) 夏休みの間、ミッチェル博士とご家族や教室員と共にユカタン半島の洞穴調査に出かける予定。

——藤女子大学・短期大学教授・理博・本会賛助——

Fig. 3. Dr. R. W. Mitchell and The Journal of Arachnology. After Kawakatsu (1973b / II-7 on p. 9). On page 3.

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- 1). Mitchell, R. W., 1968. New species of *Sphalloplana* (Turbellaria; Paludicola) from the caves of Texas and a reexamination of the genus *Speophila* and the family Kenkiidae. *Annales de Spéléologie*, 23 (3): 597-620.
 - 2). Mitchell, R. W., 1969. A comparison of temperate and tropical cave communities. *The Southwestern Naturalist*, 14 (1): 73-88. For "Turbellaria", see pp. 74, 77: Literature Cited.
 - 3). Reddell, J. R. & R. W. Mitchell, 1969. A checklist and annotated bibliography of the subterranean aquatic fauna of Texas. *International Center for Arid and Semi-Arid Land Studies, Special Report*, (24), 48 pp. For "Turbellaria", see pp. 3-4.
 - 4). Mitchell, R. W., 1970. The cave adapted flatworms of Texas: Systematics, natural history, and responses to light and temperature. (Abstract.) *American Zoologist*, 10 (4): 547.
 - 5). Mitchell, R. W. & Reddell, J. R., 1971. The invertebrate fauna of Texas caves. In: Ernest L. Lundelius Jr. & Slaughter, B. H. (eds.), *Natural History of Texas Caves*. Pp. 35-90. *Gulf Natural History*. Dallas, Texas. For Platyhelminthes, see pp. 39-40 (figs 4-6).
 - 6). Mitchell, R. W. (& Kawakatsu, M.), 1971. The ecology of freshwater planarians in Texas caves (Color Slides). Explanatory by M. Kawakatsu. Programme of the 42nd Ann. Meet. of the Zool. Soc. of Japan held in Sendai, on Oct. 6-9, 1971, p. 15. (In Japanese.) Abstract in *The Zoological Magazine (Tôkyô)*, 80 (11-12): 470-471. (In Japanese.)
 - 7). Reddell, J. R. & Mitchell, R. W., 1971. A checklist of the cave fauna of México. II. Sierra de Guatemala, Tamaulipas. *Association for Mexican Cave Studies Bulletin*, 4: 181-215. For "Turbellaria", Tricladida, see pp. 182-183 (photos).
 - 8). Mitchell, R. W. & Kawakatsu, M., 1972. A new family, genus, and species of cave-adapted planarian from Mexico (Turbellaria, Triclada, Maricola). *Occasional Papers, The Museum, Texas Tech University*, (8): 1-16.
 - 9). Mitchell, R. W. & Kawakatsu, M., 1972 (1973). Freshwater cavernicole planarians from Mexico: New troglobitic and troglophilic *Dugesia* from caves of the Sierra de Guatemala. *Annales de Spéléologie*, 27 (4): 639-681. Achev d'imprimer le 16 mai 1973.
 - 10). Mitchell, R. W. & Kawakatsu, M., 1973. A new cave-adapted planarian (Tricladida, Paludicola, Planariidae) from Chiapas, México. *Association for Mexican Cave Studies Bulletin*, 5: 165-170.

- 11). Mitchell, R. W., 1973.* Letter to Ellen M. Benedict. In: Ellen M. Benedict, Malheur Cave research project. The rediscovery of the flatworm *Kenkia rhynchida*. *The Speleograph*, 9 (11): 182-183.
- 12). Mitchell, R. W. & Reddell, J. R., 1973.* The cave fauna of Mexico. (Abstract.) In: Panos, V. (ed.), *International Speleology, 1973. Abstracts of Papers*, p. 146. 6th International Congress of Speleology. Olomouc, Czechoslovakia, 1973.
- 13). Mitchell, R. W., 1974. The cave-adapted flatworms of Texas: Systematics, natural history, and responses to light and temperature. In: Riser, N. W. & M. P. Morse (eds.), *The Hyman Memorial Volume --- Biology of the Turbellaria*, pp. 402-430. McGraw-Hill Book Company, New York, etc.
- 14). Teshirogi, W. & Mitchell, R. W., 1976. The regenerative capacities of transverse sections from the cave adapted flatworms of Texas, *Sphalloplana zeschi* Mitchell. *Programme of the 47th Annual Meeting of the Zoological Society of Japan Held in Hiroshima on Oct. 2-4, 1976*, p. 124. *The Zoological Magazine, Tôkyô*, 85: 355. (In Japanese.)
- 15). Mitchell, R. W., 1978.* A photographic survey of the Mexican cave fauna. (Abstract.) In: Ernst H. Kasting, E. H. & K. Kasting (eds.), *1978 NSS Convention Program*, p. 30.
- 16). Mitchell, R. W., 1979.* A photographic survey of the Mexican cave fauna. (Abstract.) *The NSS Bulletin*, 41 (4): 112.
- 17). Kawakatsu, M. & Mitchell, R. W., 1981a. A note on the morphology of *Dugesia tigrina* (Girard, 1850) from Louisiana., U.S.A. (Turbellaria, Tricladida, Paludicola). *Proceedings of the Japanese Society of Systematic Zoology*, 20: 1-6, pl. 1.
- 18). Kawakatsu, M. & Mitchell, R. W., 1981b. An additional note on *Dugesia guatemalensis* Mitchell et Kawakatsu (Turbellaria, Tricladida, Paludicola), a troglomorphic planarian from Mexico. *Journal of the Speleological Society of Japan*, 6: 37-41.
- 19). Kawakatsu, M. & Mitchell, R. W., 1981c. Redescription of *Kenkia rhynchida*, a troglomorphic planarian from Oregon, and a reconsideration of the family Kenkiidae and its genera (Turbellaria, Tricladida, Paludicola). *Annotationes Zoologicae Japonenses*, 54: 125-141.
- 20). Kawakatsu, M. & Mitchell, R. W., 1981d. Freshwater planarians from the southern United States and México: *Dugesia dorotocephala* and *Dugesia* sp. (Turbellaria, Tricladida, Paludicola). *Annotationes Zoologicae Japonenses*, 54: 191-206.
- 21). Kawakatsu, M. & Mitchell, R. W., 1982. A note on the morphology of *Cura foremanii* (Girard, 1852) from four localities, U.S.A. (Turbellaria, Tricladida, Paludicola). *The Bulletin of Fuji Women's College*, (20), ser. II: 91-100.

- 22). Kawakatsu, M. & Mitchell, R. W., 1983a. Record of a cave-adapted planarian (Turbellaria, Tricladida, Maricola) from Guatemala. (Abstract.) *Biological Science News*, (146): 20 (z-5). (In Japanese.)
- 23). Kawakatsu, M. & Mitchell, R. W., 1983b. Record of a cave-adapted planarian (Turbellaria, Tricladida, Maricola) from Guatemala. *Annotationes Zoologicae Japonenses*, 56 (4): 291-298.
- 24). Kawakatsu, M. & Mitchell, R. W., 1984a. *Oahuhawaiiiana kazukolinda* gen. et sp. nov. (Turbellaria, Tricladida, Maricola), a new freshwater planarian from Honolulu, Oahu Island, Hawaii, U.S.A. *Zoological Science, Tôkyô*, 1 (3): 487-500.
- 25). Kawakatsu, M. & Mitchell, R. W., 1984b. *Oahuhawaiiiana kazukolinda* gen. et sp. nov. (Turbellaria, Tricladida, Maricola), a new freshwater planarian from Honolulu, Oahu Island, Hawaii, U.S.A. (Abstract.) *Biological Science News*, 151: 19 (z-26). (In Japanese.)
- 26). Kawakatsu, M. & Mitchell, R. W., 1984c. A list of retrobursal triclads inhabiting freshwaters and aquatic probursal triclads regarded as marine relicts, with corrective remarks on our 1984 paper published in *Zoological Science, Tôkyô*. *Occasional Publications, Biological Laboratory of Fuji Women's College, Sapporo (Hokkaidô)*, (11): 1-8.
- 27). Kawakatsu, M. & Mitchell, R. W., 1984d. Redescription of *Dugesia azteca* (Benazzi et Gianini, 1971) based upon the material collected from the type locality in Mexico, with corrective remarks (Turbellaria, Tricladida, Paludicola). *Bulletin of the National Science Museum, Tôkyô*, ser. A (Zoology), 10 (2): 37-50.
- 28). Kawakatsu, M. & Mitchell, R. W., 1984e. Occurrence of *Dendrocoelopsis americana* (Hyman, 1939) in Soda Water Well, Texas, U.S.A. (Turbellaria, Tricladida, Paludicola). *Proceedings of the Japanese Society of Systematic Zoology*, 28: 1-11, pls. I-III.
- 29). Kawakatsu, M. & Mitchell, R. W., 1984f. Redescription of *Dugesia arimana* Hyman, 1957, based upon material from Trinidad, St. Vincent and Venezuela (Turbellaria, Tricladida, Paludicola). *The Bulletin of Fuji Women's College*, (22), ser. II: 63-77.
- 30). Kawakatsu, M. & Mitchell, R. W., 1984g. Redescription of *Dugesia festai* (Borelli, 1898) based upon material from Venezuela and Peru (Turbellaria, Tricladida, Paludicola). *Bulletin of the Biogeographical Society of Japan*, 39 (1-8): 1-12.
- 31). Kawakatsu, M. Mitchell, R. W. & Inoue, S., 1984. A freshwater planarian from South Chile collected by the members of two Japanese limnobiological expeditions into Chile: *Cura patagonica* (Borelli, 1901) (Turbellaria, Tricladida, Paludicola). *The Journal of the Faculty of Agriculture, Hokkaidô University*, 61, (Part 4): 377-398.

- 32). Kawakatsu, M., Mitchell, R. W. & Kishida, Y., 1984. A freshwater planarian from central Peru collected by the members of Kanazawa University Expedition into the Peruvian Andes: *Dugesia rincona* Marcus, 1954 (Turbellaria, Tricladida, Paludicola). *Biology of Inland Waters, Nara*, (3): 1-18.
- 33). Kawakatsu, M., Mitchell, R. W., Hirao, Y. & Tanaka, I., 1984. Occurrence of *Dugesia dorotocephala* (Woodworth, 1897) (Turbellaria, Tricladida, Paludicola) in Honolulu, Hawaii. *Biological Magazine of Okinawa*, 22: 1-9.
- 34). Kawakatsu, M., Mitchell, R. W., Yussof, S., Oki, I. & Tamura, S., 1988. Karyological and taxonomic studies of the *Dugesia* species in Southeast Asia. XIII. Ecology and taxonomy of *Dugesia batuensis* from Batu Caves in Malaysia. *Programme of the 59th Annual Meeting of the Zoological Society of Japan held in Sapporo, on October 8-10, 1988*. P. 29. (In Japanese.) English Abstract in *Zoological Science (Tôkyô)*, 5: 1334.
- 35). Oki, I., Tamura, S., Mitchell, R. W., Yussof, S. & Kawakatsu, M. 1998. Karyological and taxonomic studies of the *Dugesia* species in Southeast Asia. XIV. Chromosomes of *Dugesia batuensis* from Batu Caves in Malaysia. *Programme of the 59th Annual Meeting of the Zoological Society of Japan held in Sapporo, on October 8-10, 1988*. P. 29. (In Japanese.) English abstract of this lecture in *Zoological Science (Tôkyô)*, 5: 1334.
- 36). Kawakatsu, M. & Mitchell, R. W., 1989a. *Dugesia deharvengi* sp. nov., a new troglobitic freshwater planarian from Tham Kubio Cave, Thailand (Turbellaria; Tricladida; Paludicola). *Bulletin of the Biogeographical Society of Japan*, 44: 175-182.
- 37). Kawakatsu, M. & Mitchell, R. W., 1989b. Record of a troglobitic planarian from Tanette Cave located in the Maros Karst, Sulawesi (Celebes), Indonesia (Turbellaria, Tricladida, Paludicola). *The Bulletin of Fuji Women's College*, (27), ser. II: 35-40.
- 38). Kawakatsu, M. & Mitchell, R. W., 1989c. Karyological and taxonomic studies of *Dugesia* species in Southeast Asia. XVI. Two troglobitic species from Thailand and Sulawesi (Indonesia). *Programme of the 60th Annual Meeting of the Zoological Society of Japan held in Kyôto, on October 4-6, 1989*. P. 15. (In Japanese.) English abstract of this lecture in *Zoological Science (Tôkyô)*, 6: 1221.
- 39). Kawakatsu, M., Mitchell, R. W., OKI, I., Tamura, S. & Yussof, S., 1989. Taxonomic and karyological studies of *Dugesia batuensis* Ball, 1970 (Turbellaria, Tricladida, Paludicola), from Batu Caves in Malaysia. *Journal of the Speleological Society of Japan*, 14: 1-14, pl. 1 (color).
- 40). Kawakatsu, M., Teshirogi, W., Wu, S.-K. & Mitchell, R. W., 1989. Freshwater planarians of Colorado, with special reference to their vertical distribution in the Rocky Mountain National Park region. *Natural History Inventory, Colorado*, 10: 1-26.

- 41). Kawakatsu, M., Mitchell, R. W., Oki, I., Tamura, S. & Yussof, S., 1990. Taxonomic and karyological studies of *Dugesia batuensis* Ball, 1970 (Turbellaria, Tricladida, Paludicola). (Abstract.) *Proceedings of the Ôsaka Prefectural Institute of Public Health*, (28): 193. (In Japanese.)
- 42). Kawakatsu, M. (color photos: Mitchell, R. W., Miyazaki, T. & Murayama, H.). 1991. [An article on planarians; Explanation of color photos; Classification table of the Phylum Platyhelminthes: Turbellaria]. In: [The Asahi Weekly Encyclopedia: Animals on the Globe, No. 63, Invertebrates ③, Earthworms, lugworms, flatworms, and others], pp. 2= 84-86, 96. The Asahi-Shinbun Sha (Newspaper), Tôkyô. (In Japanese.)
- 43). Mitchell, R. W., 1991. To Prof. Dr. Wataru Teshirogi on the Occasion of His Retirement. A Commemorative Publication of Prof. Dr. Wataru Teshirogi's Retirement, p. 35. The Commemorative Association on the Occasion of the Retirement of Prof. Dr. Wataru Teshirogi. March, 1991. Hirosaki, Japan.
- 44). Kawakatsu, M. & Mitchell, R. W., 1995a. New taxonomic data on an American triclad, *Seidlia remota* (Smith, 1988), with a proposal that generic recognition be extended to the subgenus *Seidlia*. (Abstract). *Program of the 66th Annual Meeting of the Zoological Society of Japan held in Hachiôji, on September 15-17, 1995*: 41. (In Japanese.) English abstract in *Zoological Science*, Tôkyô, 12-Suppl.: 32.
- 45). Kawakatsu, M. & Mitchell, R. W., 1995b. Two new freshwater cavernicolous planarians (Turbellaria, Tricladida, Paludicola) from Sulawesi (Celebes), Indonesia. *Special Bulletin of the Japanese Society of Coleopterology*, (4): 81-103.
- 46). Kawakatsu, M., Vaughan, C. C. & Mitchell, R. W., 1995. *Dendrocoelopsis americana* (Hyman, 1939) from Christian School Cave, the Ozark Plateau, Oklahoma, U.S.A. (Turbellaria, Seriata, Tricladida, Paludicola). *The Bulletin of Fuji Women's College*, (33), ser. II: 71-78.
- 47). Kawakatsu, M. & Mitchell, R. W., 1998. Redescription of a North American freshwater planarian, *Seidlia remota* (Smith, 1988), with taxonomic notes of *Seidlia* and *Polycelis* species from the Far East and Central Asia (Turbellaria, Seriata, Tricladida, Paludicola). *The Bulletin of Fuji Women's College*, (36), ser. II: 95-110.
- 48). Kawakatsu, M., Mitchell, R. W., Sluys, R. & Sasaki, G-Y., 2002. A list of triclad turbellarians from México in Kawakatsu's Collection. *Kawakatsu-&-Sasaki's Webpages on Planarians, Sapporo and Tôkôo*, (37): 1-10 + photos 1-24 on 2 color plates. <http://victoriver.com> . Left button: planarian.net mirror, No. 37.
- 49). Kawakatsu, M. & Mitchell, R. W., 2004. Platyhelminthes: DugesIIDae and Dimarcusidae. In: Yule, C. M. & Y.-H. Sen (eds.), *Freshwater Invertebrates of the Malaysian Region*. Pp. 55-65. Academy of Sciences Malaysia, Kuala Lumpur, Malaysia. Sponsor: Monash University, Malaysia.

II. 25 Papers about R. W. Mitchell (Including Several Papers on the Relational Problems of Planarian Taxonomy by Drs. Kawakatsu, Kenk, Benazzi, Sluys, and Özdikmen)

Compiled by Masaharu Kawakatsu

Note. The papers are listed by year, author(s), and title.

- 1). Mohr, C. E. & Poulson, T. L. (eds.), 1966. The Life of the Cave. Pp. 1-232. *McGraw-Hill Book Co., New York, etc.*
Note. Dr. Mitchell was one of the Special Consultants for the Life of The Cave. His photo who using an aspirator is printed on p. 21 of the Book (bottom one, monochrome). For that photo in color, see Elliot (2010, In Memoriam, the first photo of the Images).
- 2). Kawakatsu, M., 1971. [An account of a three weeks' trip through the United States and Mexico.] *Shigaku-kenshû, (Tôkyô)*, 51: 199-211. (In Japanese.)
- 3). Kenk, R., 1972. Freshwater Planarians (Turbellaria) of North America. Biota of Freshwater Ecosystems. Identification Manual No. 1. Pp. i-iv + 1-81. *U. S. Environmental Protection Agency, Washington, D. C.*
Note. For *Sphalloplana mohri* Hyman, 1939, from caves in Texas, see p. 55. Dr. Kenk considered that 4 new *Sphalloplana* species described from Texas caves by Mitchell (1968) are synonyms of *S. mohri*. See also Kenk (1974, 1976, 1989).
- 4). Benazzi, M., 1973. Priority of the name *Opisthobursa mexicana* Benazzi, 1972 over *Dimarcus villalobosi* Mitchell and Kawakatsu, 1972. *Accademia Nazionale dei Lincei*, ser. VIII, 54 (1): 133-134.
- 5). Benazzi, M. & Gianini, E., 1973. A remarkable cave planarian: *Opisthobursa mexicana* Benazzi, 1972. *Accademia Nazionale dei Lincei*, Anno CCCLXX (1973), (171): 47-54 + pls. I-IV. See 'Postscriptum' on p. 54.
Note. See Kawakatsu & Mitchell (1983a: 293, Footnote 1). See also Sluys (1990).
- 6). Kawakatsu, M., 1973a. [Animals from the Mexican caves.] *The Hokkaidô Shinbun (Newspaper)*, October 4 and 5, 1973. 2 pp. (In Japanese.)
- 7). Kawakatsu, M., 1973b. Dr. Robert W. Mitchell, an American biospeologist, and "The Journal of Arachnology". *Collecting & Breeding, Tôkyô*, 35 (11): 255. (In Japanese.)
Note. See Fig 3 in this publication. See also Elliot (2010).
- 8). Kawakatsu, M., 1974a. [A report of a six weeks' trip through caves in the United States and Mexico]. *Japan Caving*, 19 (1): 23-29. (In Japanese.)
- 9). Kawakatsu, M., 1974b. [Libbie H. Hyman Memorial Symposium – Biology of the Turbellaria.] *The Heredity (Iden), Tôkyô*, 28 (7): 62-72; (8): 61-67. (In Japanese.)
Note. A photo of Dr. Mitchell and his family is included (on p. 61, fig. 11).

- 10). Kenk, R., 1974. Index of the genera and species of the freshwater Triclad (Turbellaria) of the World. *Smithsonian Contributions to Zoology*, (183): i-ii + 1-90.
Note. For *Sphalloplanas mohri* Hyman, 1939, see p. 64.
- 11). Kawakatsu, M., 1975. [Planarians from the Mexican Caves]. *Tôsho Kôkô Tsûshin Seibutsu*, (Tôkyô), (138): 6-7. (In Japanese.)
- 12). Kawakatsu, M., 1976. [Mexico: Its nature and landscape]. *The Heredity (Iden)*, Tôkyô, 30 (3): 34-45. (In Japanese.)
Note. This is an account of travels in Mexico (1971 and 1973) with Dr. Mitchell, his family, Drs. Reddell, Elliott, and Abernethy. Cf. Kawakatsu, Mitchell, Sluys & Sasaki (2002) listed in Section I (48).
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Note. See Kawakatsu, Mitchell & Kishida (1984) in the Section I (32).
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Note. This web page contains many portraits and photographs of the deceased and his coresearchers; several obituaries are also printed.
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Note. The genus *Mitchellia* Kawakatsu et Chapman, 1983, was replaced by *Novomitchellia* Özdikmen, 2010. Cf. Kawakatsu & Chapman (1983). Section II (15). See also Kawakatsu, Kawakatsu, M-y. & Kawakatsu, T. (2011: 10-11). Section II (25).
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Note. See the following Section on pp. 10-11. *Faubelus neupommerensis* (Faubel, 1983) in the family Faubelidae Özdikmen, 2010 (Polycladida, Acotylea, Leptoplaniidae); *Novomitchellia sarawakana* (Kawakatsu et Chapman, 1983) (Tricladida, Maricola, Cavernicola, Dimarcusiidae Mitchell et Kawakatsu, 1972).

**III. A List of Freshwater Planarians (Tricladida: Maricola,
Cavernicola and Continenticola) Studied by Mitchell (1968-1979),
Mitchell & Kawakatsu (1971-1973) and
Kawakatsu & Mitchell (1981-2004)**

Compiled by Masaharu Kawakatsu

The following taxonomic list contains 38 taxa (1 family, 12 genera, 24 species and 1 undescribed species) those studied by Mitchell (1968-1979), Mitchell & Kawakatsu (1971-1973) and Kawakatsu & Mitchell (1981-2004). Twelve taxa (1 family, 2 genera and 9 species) of them were reported as new ones.* The planarian samples studied were collected from the U.S.A. (including Oahu Island in Hawaii), Mexico, Venezuela, Trinidad and Tobago, Saint Vincent, Chile, Peru, Japan, Thailand, Malaysia (West Malaysia), and Indonesia (Sulawesi).

All of the planarian species studied are shown in the following taxonomic list. They arranged taxonomically according to the 'New Higher Classification of Planarian Flatworms' proposed by Sluys, Kawakatsu, Riutort & Baguña (2009). A necessary 'Note' will be added for some of the taxa listed.

'REFERENCES' given at the end of this Section III are minimized of the necessity.

*Those will be shown by Gothic characters in the following list.

LIST OF PLANARIAN TAXA STUDIED

Phylum PLATHELMINTHES Schneider, 1873 / PLATYHELMINTHES Claus, 1887
Clade Rhabditophora Ehlers, 1985
Subclade Eulecithophora De Beauchamp, 1961 sense in Soppot-Ehlers, 1997
Superorder Seriata Bresslau, 1933 sense in Sopott-Ehlers, 1997
Order *T r i c l a d i d a* Lang, 1884
Suborder Maricola Hallez, 1892
Superfamily Bdellouroidae Diesing, 1862
Family Bdellouridae Diesing, 1862
Subfamily Palombiellinae Sluys, 1989

Genus *Oahuhawaiiiana* Kawakatsu et Mitchell, 1984

Oahuhawaiiiana kazukolinda Kawakatsu et Mitchell, 1984

Type locality and distribution: Manoa River, Honolulu, Oahu Island, Hawaii, U.S.A.
Known only from the type locality.

Literature: Kawakatsu & Mitchell (1984a, b, c).

Etymology: The specific name for this unusual planarian has been compounded from the given names of Mrs. Kawakatsu (Kazuko) and Mrs. Mitchell (Linda), whose help to us

through the years has been invaluable during the course of our studies. Cf. Kawakatsu & Mitchell (1984a: 489).

Order *Tricladida* Lang, 1884
Suborder *Cavernicola* Sluys, 1990
Family ***Dimarcusidae* Mitchell et Kawakatsu, 1972**

Genus *Opisthobursa* Benazzi, 1972
Junior synonym: ***Dimarcus* Mitchell et Kawakatsu, 1972**

Opisthobursa mexicana Benazzi et Gianini, 1972
Synonym: ***Dimarcus villalobosi* Mitchell et Kawakatsu, 1972**

Type locality and distribution: Las Grutas de Coconá, Tabasco, México. Known only from the type locality.

Literature: Benazzi (1972); Mitchell & Kawakatsu (1972).

Note. Benazzi (1972) gave a very short description of his new species *Opisthobursa mexicana* from Las Grutas de Coconá (Publication date: March 31, 1972). Since the original description of *Dimarcus villalobosi* from the same cave was published by Mitchell & Kawakatsu on December 22, 1972, it appears that *Opisthobursa mexicana* has the temporal priority. Cf. Benazzi (1973). See also Benazzi & Gianini (1971).

Although Benazzi (1975) proposed a new family *Opisthobursidae*, it is clear that *Dimarcusidae* Mitchell et Kawakatsu, 1972, has a priority. For the family *Dimarcusidae*, see Sluys (1990).

***Opisthobursa?* sp. of Kawakatsu & Mitchell, 1983**

Locality and distribution: Grutas de Languin, Departamento de Alta Verapaz, Guatemala.

Literature: Kawakatsu & Mitchell (1983).

Genus *Novomitchellia* Özdikmen, 2010
Junior homonym: ***Mitchellia* Kawakatsu et Chapman, 1983**

Novomitchellia sarawakana (Kawakatsu et Chapman, 1983)
Synonym: ***Mitchellia sarawakana* Kawakatsu et Chapman, 1983**

Type locality and distribution: Water Polo Cave, Sarawak, Malaysia (East Malaysia)

Literature: Kawakatsu & Chapman (1983).

Note. Özdikmen (2010: 1116) pointed out that *Mitchellia* Kawakatsu et Chapman, 1983 (Platyhelminthes: Tricladida: Cavernicola: Dimarcusidae) is a junior homonym of the genus *Mitchellia* Koninck, 1887 (Mollusca: Gastropoda: Prosobranchia: Archaeogastropoda: Scoliostrimatidae: Mitchellinae). See also the Section II: Kawakatsu, Kawakatsu, M-y. & Kawakatsu, T. (2011).

Order Tricladida Lang, 1884

Suborder Continenticola Carranza, Littlewood, Clough, Ruiz-Trillo, Bagaña et Riutort, 1998

Superfamily Planarioidea Stimpson, 1857

Family Planariidae Stimpson, 1857

Genus *Polycelis* Ehrenberg, 1831

Polycelis coronata brevipenis Kenk, 1972

Localities of the samples examined: The Rocky Mountains, Colorado, U.S.A.

Literature: Kawakatsu, Teshirogi, Wu & Mitchell (1989); Kawakatsu & Mitchell (1998).

Genus *Seidlia* Zabusov, 1911

Seidlia schmidtii (Zabusov, 1916)

Locality of the samples examined: A spring in Sunderland, Franklin Co., Massachusetts, U.S.A.

Literature: Smith (1988); Kawakatsu & Mitchell (1995a, 1998); Sluys, Smolders, Kawakatsu, Pietsch & Kuranishi (2009).

Note. *Seidlia remota* (Smith, 1998) was at first described as *Polycelis remota* Smith, 1988 (the type locality, see above). The species was transferred into the genus *Seidlia* by Kawakatsu & Mitchell (1995a; see also Kawakatsu & Mitchell, 1998). *S. remota* is now considered as a junior synonym of *Seidlia schmidtii* (Zabusov, 1916) distributed in Kamchatka, the Kuril Islands and the northern part of Hokkaidô in Japan. Cf. Sluys, Smolders, Kawakatsu, Pietsch & Kuranishi (2009).

Family Dendrocoelidae Hallez, 1892

Genus *Dendrocoelopsis* Kenk, 1930

Dendrocoelopsis americana (Hyman, 1939)

Localities of the samples examined: Soda Water Well, near Rockwall, Rockwall Co., Texas; Christian School Cave, the Ozark Plateau, Oklahoma, U.S.A.

Literature: Kawakatsu & Mitchell (1984e); Kawakatsu, Vaughan & Mitchell (1995).

Order Tricladida Lang, 1884

Suborder Continenticola Carranza, Littlewood, Clough, Ruiz-Trillo, Bagaña et Riutort, 1998

Superfamily Planarioidea Stimpson, 1857

Family Kenkiidae Hyman, 1937

Genus *Sphalloplana* De Beauchamp, 1931

Sphalloplana mohri Hyman, 1938

Synonymy: *Sphalloplana kutscheri* Mitchell, 1968; *Sphalloplana sloani* Mitchell, 1968; *Sphalloplana zeschi* Mitchell, 1968; *Sphalloplana reddelli* Mitchell, 1968.

Localities of the samples examined: Spanish Wells Cave, Zesch Ranch Cave, Cascade Caverns, and Ezell's Cave, Texas, U.S.A.

Literature: Mitchell (1968, 1970, 1974); Mitchell (& Kawakatsu), 1971; Kawakatsu (Mitchell, Miyazaki & Murayama), 1991; Teshirogi & Mitchell (1976). See also the present web article (Sections I and II).

Genus *Kenkia* Hyman, 1937

Kenkia rhynchida Hyman, 1937

Locality of the samples examined: Malheur Cave, Harney Co., Oregon, U.S.A. This troglotic planarian is only known from this type locality.

Literature: Kawakatsu & Mitchell (1981c); Kawakatsu (Mitchell, Miyazaki & Murayama, 1991). Cf. Sluys & Kawakatsu (2006).

Order *Tricladida* Lang, 1884

Suborder *Continenticola* Carranza, Littlewood, Clough, Ruiz-Trillo, Bagueña et Riutort, 1998

Superfamily *Geoplanoidea* Stimpson, 1857

Family *DugesIIDae* Ball, 1974

Genus *Girardia* Ball, 1974

Girardia arimana (Hyman, 1957)

Localities of the samples examined: Caracas in Venezuela; tamana Cave, Trinidad; St. Vincent, West Indies.

Literature: Kawakatsu & Mitchell (1984f, 1984g).

Girardia azteca (Benazzi et Gianini, 1971)

Locality of the samples examined: A pond and mountain streams associated with it, near Mexico, D. F. Mexico. This species is only known from this type locality.

Literature: Kawakatsu & Mitchell (1984d). See also Kawakatsu, Mitchell, Sluys & Sasaki (2002).

***Girardia barbara* (Mitchell et Kawakatsu, 1973)**

Type locality and distribution: La Cueva de la Capilla, Municipio de Juamave, Tamaulipas, Mexico.

Literature: Mitchell & Kawakatsu (1972 (1973)). See also Kawakatsu, Mitchell & Sluys & Sasaki (2002).

Girardia dorocephala (Woodworth, 1897)

Localities of the samples examined and distribution: Various localities in Texas and some other States, U.S.A.; many localities in Mexico. This North American species is also found in Oahu Island in Hawaii, U.S.A.

Literature: Kawakatsu & Mitchell (1981d); Kawakatsu, Mitchell, Hirao & Tanaka (1984); Kawakatsu, Mitchell, Sluys & Sasaki (2002).

Note. Recently, *G. dorocephala* is found in several localities in Central Japan. Cf. Kawakatsu, Nishino & Ohtaka (2007); Kawakatsu, Tsuruda, Kimura, Chinone, Murayama & Yamamoto (2008); Sluys, Kawakatsu & Yamamoto (2009, 2010). See also Kawakatsu (2009).

Girardia festae (Borelli, 1898)

Localities of the samples examined and distribution: Peru; Caracas in Venezuela.
Literature: Kawakatsu & Mitchell (1984f).

***Girardia guatemalensis* (Mitchell et Kawakatsu, 1973)**

Type locality and distribution: La Cueva de las Perlas, Municipio de Jaumave, Tamaulipas, Mexico. This species is also found from a small spring, Ojo de Agua de Olla de Nubes, in the Sierra de Guatemala, Mexico.

Literature: Mitchell & Kawakatsu (1972 (1973), 1983b).

***Girardia mackenziei* (Mitchell et Kawakatsu, 1873)**

Type locality and distribution: La Cueva de Los Llanos, 15 km ESE San Cristobal de las Casas, Chiapas, Mexico. Known only from the type locality.

Literature: Mitchell & Kawakatsu (1973).

Girardia rincona (Marcus, 1964)

Locality of the samples examined: A mountain stream discharging into a lake in “La Oroya” district, the central part of the “Cordillera de Los Andes” district, the central part of the “Cordillera de Los Andes”, approximately 200 km NE of Lima, Peru.

Literature: Kawakatsu, Mitchell & Kishida (1984); Kawakatsu (1986).

Girardia tigrina (Girard, 1850)

Localities of the samples examined: Many localities from the U.S.A. and Mexico.

Literature: Kawakatsu & Mitchell (1981a, 1981d); Kawakatsu, Mitchell, Sluys & Sasaki (2002).

Note. *G. tigrina* is known as a cosmopolitan species. The species is found in warm-water aquaria and culture ponds of tropical fishes in Japan after the 1960's.

Recently, this exotic species is also found in streams and lakes in various areas of Japan. Sexually mature specimens of this naturalized species is not collected in Japan (i.e., tentative identification). Cf. Kawakatsu, Nishino & Ohtaka (2007); Chinone, Yamamoto & Kawakatsu (2008); Kawakatsu, Tsuruda, Kimura, Chinone, Murayama & Yamamoto (2008); Sluys, Kawakatsu & Yamamoto (2009, 2010). See also Kawakatsu (2009).

***Girardia typhlomexicana* (Mitchell et Kawakatsu, 1973)**

Type locality and distribution: La Cueva de la Mina, Municipio de Gómez Farias, Tamaulipas, Mexico.

Literature: Mitchell & Kawakatsu (1972 (1973)). See also Kawakatsu, Mitchell, Sluys & Sasaki (2002).

Genus *Cura* Strand, 1942

Cura foremanii (Girard, 1852)

Localities of the samples examined: Four localities from Illinois, North Carolina and Pennsylvania, U.S.A.

Literature: Kawakatsu & Mitchell (1982).

Genus *Dugesia* Girard, 1850

Dugesia batuensis Ball, 1970

Type locality and distribution: The Batu Caves, Kuala Lumpur, Malaysia (West Malaysia). Cave streams and a small epigeal stream in the vicinity.

Literature: Kawakatsu, Mitchell, Oki, Tamura & Yussof (1989). Cf. Kawakatsu (1972a, b; Kawakatsu, Mitchell, Yussof, Oki & Tamura (1988, 1990); Oki, Tamura, Mitchell, Yussof & Kawakatsu (1988). See also Kawakatsu & Mitchell (2004).

Note. Living hypogean specimens of *Dugesia batuensis* from the Batu Caves are whitish grey to pale brownish gray in color, except for body margins. Many small, irregularly-sized, pinkish-brown pigment spots are scattered over the dorsal side of the body. Epigeal specimens of *D. batuensis* with dark brown pigments were recorded from a small epigeal tributary of the Sungai Gombak, the NE of Kuala Lumpur, Selangor, Malaysia. Cf. Kawakatsu (1972a); Kawakatsu & Mitchell (2004).

***Dugesia deharvengi* Kawakatsu et Mitchell, 1989**

Type locality and distribution: The Cave “Tham Kubio”, Phu Phak Nao Karst, Khon Khaen Province, approximately 360 km NE of Bangkok, Thailand. Known only from the type locality.

Literature: Kawakatsu & Mitchell (1989a).

***Dugesia leclerci* Kawakatsu et Mitchell, 1995**

Type locality and distribution: Gua Tanette Cave, Kappand-Maros, Sulawesi, Indonesia. Known only from the type locality.

Literature: Kawakatsu & Mitchell (1995b). See also Kawakatsu & Mitchell (1989b).

***Dugesia uenorum* Kawakatsu et Mitchell, 1995**

Type locality and distribution: Lubang Pangni Cave, Direct of Camba, Sulawesi, Indonesia. Known only from the type locality.

Literature: Kawakatsu & Mitchell (1995b). See also Kawakatsu & Mitchell (1989b).

Genus *Romankenkius* Ball, 1974

Romankenkius patagonicus (Borelli, 1901)

Localities of the samples examined and distribution: Southern Chile (7 stations: 51° 04' - 53° 55' S. and 61° 05' - 73° 14' W; alt. 300-405 m). This species is also reported from Patagonia in Argentina.

Literature: Kawakatsu, Mitchell & Inoue (1984).

Note. Previously, this species was known as '*Cura patagonica* (Borelli, 1901)'. Cf. Sluys, Kawakatsu & Ponce de León (2005: 177-179).

REFERENCES (Section III)

Note. The following taxonomic papers cited in the Section III are listed by author(s) and year. This REFERENCES include 44 articles recorded from the Section I (37) and Section II (7). See the end of each article listed. For example, the Gothic number shown as **II-4** means the article already listed in the Section II, No. 4.

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Ball, I. R., 1974. A contribution to the phylogeny and biogeography of the freshwater triclads (Platyhelminthes: Turbellaria). In: Riser, N. W. & Morse, M. P. (eds.), Libbie H. Hyman Memorial Volume – Biology of the Turbellaria, pp. 339-399. McGraw Hill Book Co., New York, etc.

Benazzi, M., 1972. Notizie preliminari sulle planarie raccolte nella seconda spedizione Lincea in Messico. *Accademia Nazionale dei Lincei*, Ser. VIII, LII (3): 403-405.

Benazzi, M., 1973. Priority of the name *Opisthobursa mexicana* Benazzi, 1972 over *Dimarcus villalobosi* Mitchell and Kawakatsu, 1972. *Accademia Nazionale dei Lincei*, Ser. VIII, LIV (1): 133-134. **II-4**

- Benazzi, M., 1975 (1976). *Opisthobursa josephinae*, a new troglobitic planarian from Chiapas, Mexico. *Accademia Nazionale dei Lincei*, Ser. VIII. LIX (5): 533-536 + pls I-II.
- Benazzi, M. & Gianni, E., 1971. *Cura azteca*, nuova specie di planaria del Messico. *Accademia Nazionale dei Lincei*, Ser. III, 50 (4): 477-481 + pls. I and II.
- Benazzi, M. & Gianini, E., 1973. A remarkable cave planarian: *Opisthobursa mexicana* Benazzi, 1972. *Accademia Nazionale dei Lincei*, Anno CCCLXX (1973): 47-54 + pls. I-IV. **II-5**
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- Hallez, P., 1892. Catalogue des Turbellariés (Rhabdocoelides, Triclades et Polyclades) du Nord de la France & de la Cote Boulonnaise. Introduction au Catalogue des Triclades. I. Classification des Triclades. *Revue Biologique du Nord de la France*, IV: 304-326.
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Biological Laboratory of Fuji Women's College, Sapporo (Hokkaidô), Japan, (15):
1-8 (pls. 1-4). **II-17**

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- Kawakatsu, M. & Chapman, P., 1983. *Mitchellia sarawakana* gen. et sp. nov. (Turbellaria, Tricladida, Maricola), a new freshwater planaria from Water Polo Cave, Sarawak, East Malaysia. *Journal of the Speleological Society of Japan*, 8: 21-34. **II-15**
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