

The Japanese Journal of PHYCOLOGY

Volume 40, 1992

Contents

No. 1 (10 March)

Timothy J. Entwistle and Orlando Necchi Jr.: Phylogenetic systematics of the freshwater red algal order Batrachospermales [Timothy J. Entwistle · Orlando Necchi Jr.: 淡水産紅藻カワモヅク目の系統解析]	1- 12
Donald F. Kraun and J. Craig Bailey: Karyology and cytophotometric estimation of nuclear DNA variation in seven species of Ulvales (Chlorophyta) [Donald F. Kraun · J. Craig Bailey: アオサ目(緑色植物門)の7種における核型分析と顕微測光による核DNAの変動]	13- 24
Yasutsugu Yokohama, Tetsu Hirata, Taku Misonou, Jiro Tanaka and Hiroyuki Yokochi: Distribution of green light-harvesting pigments, Siphonaxanthin and Siphonein, and their precursors in marine green algae [横浜康継・平田徹・御園生拓・田中次郎・横地洋之: 海産緑藻における緑色光捕獲色素 siphonaxanthin および siphonein とそれらの前駆物質の分布]	25- 31
Makoto Mizuno: Influence of salinity on the growth of marine and estuarine benthic diatoms [水野真: 海産および河口産底生珪藻の増殖におよぼす塩分濃度の影響]	33- 37
筒井功・大野正夫: 和歌山県白浜産クロメの成長・成熟と形態の季節的变化 [Isao Tsutsui and Masao Ohno: Growth, maturation and seasonal changes in morphological characteristics of <i>Ecklonia kurome</i> at Shirahama, Wakayama Prefecture]	39- 46
Taiju Kitayama and Tadao Yoshida: First report of <i>Phaeophila dendroides</i> (P. Crouan et H. Crouan) Batters (Ulvophyceae, Chlorophyta) from Japan [北山太樹・吉田忠生: 日本新産緑藻 <i>Phaeophila dendroides</i> (P. Crouan et H. Crouan) Batters]	47- 50
Hiroshi Yabu, Norishige Yotsukura and Tsuyoshi Sasaki: Chromosome number in <i>Chorda filum</i> (L.) Lamour. (Laminariales, Phaeophyta) [藪熙・四ツ倉典滋・佐々木剛: 褐藻ツルモの染色体数]	51- 52
Masahiro Notoya and Yusho Aruga: Tissue culture of parthenogenetic and normal young sporophytes of <i>Ecklonia cava</i> Kjellman (Laminariales, Phaeophyta) [能登谷正浩・有賀祐勝: カジメの单為発生体および幼胞子体からの組織培養]	53- 55
浜田仁: 接合藻の和名の提唱と学名の由来について [Jin Hamada: Proposal of Japanese names for Conjugatophyceae and the origins of scientific names]	57- 60
Makoto M. Watanabe, Kiyoshi N. Satake, Tomiji Hagiwara, Sachiko Ono and Kenichi Aizawa: NIES-Collection The Microbial culture collection at the National Institute for Environmental Studies [渡辺信・佐竹潔・萩原富司・小野幸子・相沢賢一: NIESコレクション—国立環境研究所微生物系保存施設]	61- 81
新刊紹介 [Book Review]	83- 84
学会録事 [Announcement]	85- 86
日本藻類学会第16回大会 (プログラム・講演要旨) [The XVIth Annual Meeting of the Japanese Society of Phycology (program and abstracts)]	87-107
日本学術会議だより [Japan Science Council News]	109-110

No. 2 (20 June)

Alan J. K. Millar and Michael J. Wynne: An account of <i>Delesseria aemula</i> sp. nov. (Delesseriaceae, Rhodophyta) from New South Wales, Australia [Alan J. K. Millar · Michael J. Wynne: オーストラリア, ニューサウスウェールズ産の一新種 <i>Delesseria aemula</i> sp. nov. (紅藻, コノハノリ目)について]	111-119
---	---------

Tadao Yoshida and Paul C. Silva: On the identity of <i>Fucus babingtonii</i> Harvey (Fucales, Phaeophyta) [吉田忠生・Paul C. Silva: エゾイシゲの学名について]	121-124
Michio Masuda, Tsuyoshi Abe and Yuzuru Saito: The conspecificity of <i>Laurencia yendoi</i> Yamada and <i>L. nipponica</i> Yamada (Ceramiales, Rhodophyta) [増田道夫・阿部剛史・齋藤 譲: 紅藻キタソゴとウラソゴは同一種]	125-133
Hiroo Satoh, Hideo Tanaka and Takashi Koike: Light condition and photosynthetic characteristic of the subsurface chlorophyll maximum at a station in Solomon Sea [佐藤博雄・田中英夫・小池 隆: ソロモン海における亜表層クロロフィル極大層の光環境と光合成特性]	135-142
Daisuke Fujita, Hidetsugu Akioka and Tomitaro Masaki: Regeneration of <i>Lithophyllum yessoense</i> Foslie in culture [藤田大介・秋岡英承・正置富太郎: 培養によるエゾイシゴロモの再生]	143-149
Ikuko Shihira-Ishikawa and Toshihisa Nawata: The structure and physiological properties of the intact <i>Valonia</i> cell [石川依久子・繩田利寿: バロニア細胞の構造と生理学的性質]	151-159
中原紘之・市村輝宜: 接合藻類と羽状珪藻類にみられる配偶子のう接合の由来 [Hiroyuki Nakahara and Terunobu Ichimura: Convergent evolution of gametangiogamy both in the Zygnematalean green algae and in the pinnate diatoms]	161-166
Kazuyuki Miyaji: The occurrence of <i>Rhizoclonium riparium</i> and <i>R. tortuosum</i> (Chlorophyceae) on the coast of Hokkaido, Japan [宮地和幸: 北海道でのホソネダシグサとナガモツレ; 両種の出現]	167-172
Hajime Yasui: Karyological observation in the young sporophytes of <i>Costaria costata</i> (Turner) Saunders (Laminariales, Phaeophyta) [安井 肇: スジメの初期胞子体に於ける核学的観察]	173-175
Hiroyuki Ito: Chrysophytes in the southern part of Hyogo Prefecture, Japan (III) A new variety, <i>Mallomonas acaroides</i> var. <i>obtusa</i> (Synurophyceae, Mallomonadaceae) [伊藤裕之: 兵庫県南部産黄金藻 (III) シヌラ藻綱マロモナス科の新変種: <i>Mallomonas acaroides</i> var. <i>obtusa</i>]	177-180
Hiroyuki Ito and Eiji Takahashi: Chrysophytes in the southern part of Hyogo Prefecture, Japan (IV) Two new species, <i>Spiniferomonas hamata</i> and <i>S. nichollsii</i> (Chrysophyceae, Paraphysomonadaceae) [伊藤裕之・高橋永治: 兵庫県南部産黄金藻 (IV) 2新種 <i>Spiniferomonas hamata</i> と <i>S. nichollsii</i> (黄金藻綱, パラビソモナス科)]	181-184
都筑幹夫・下山直美・渡辺美由紀: IAM カルチャーコレクション保存株の利用状況 (1987-1991) [Mikio Tsuzuki, Naomi Shimoyama and Miyuki Watanabe: Distribution of algal strains from IAM Culture Collection between 1987 and 1991]	185-188
日本藻類学会第16回大会ワークショップ参加記 [The Workshop of the XVIth Annual Meeting of the Japanese Society of Phycology]	189-193
学会録事 [Announcement]	194-201
学会会則 [Regulation of the Society]	202
投稿案内 [Information for authors]	203
Information for authors [投稿案内]	204
日本学術会議だより [Japan Science Council News]	205-206
No. 3 (20 September)	
Taizo Motomura: Disappearance of centrioles derived from female gametes in zygotes of <i>Colpomenia bullosa</i> (Phaeophyceae) [本村泰三: 褐藻ワタモ受精過程での雌性配偶子由来セントリオールの消失]	207-214
Keitaro Kiyosawa: Toxicities of pH buffer solutions to <i>Chara</i> internodal cells [清沢桂太郎: 車軸藻節間細胞に対する pH 緩衝液の毒性]	215-227
Adam T. Wilczok, Makoto M. Watanabe, Sanae Kawahara, Kazuo T. Suzuki and	

Kioshi Sugahara: Intracellular cadmium sequestration by the heavy metal-tolerant green algae <i>Chlorella vulgaris</i> and <i>Uronema confervicolum</i> [Adam T. Wilczok · 渡辺 信・川原早苗・鈴木和夫・菅原 淳: 重金属耐性緑藻 <i>Chlorella vulgaris</i> と <i>Uronema confervicolum</i> による細胞内カドミウムの不活性化]	229-238
Christine A. Orosco and Masao Ohno: Growth rates of <i>Gracilaria</i> species (Gracilariales, Rhodophyta) from Tosa Bay, southern Japan [C. A. Orosco · 大野 正夫: 日本南岸土佐湾産オゴノリ属海藻の成長速度]	239-244
Shigeru Kumano, Masao Nishiumi, Goh Okuzumi and Hiroshi Sato: Diatom assemblages at the estuary of Fukuda River in Kobe along the northwestern coast of Osaka Bay with special reference to the Holocene sedimentary history [熊野 茂・西海将雄・奥泉 剛・佐藤裕司: 大阪湾北西沿岸・福田川河口 (神戸市垂水) に於ける珪藻遺骸群集の遷移、特に完新世堆積環境の変遷について]	245-259
Takuji Uchida and Satoshi Arima: Regeneration of protoplasts isolated from the sporophyte of <i>Cladophoron okamuranus</i> Tokida (Chordariaceae, Phaeophyta) [内田卓司・有馬郷司: オキナワモズク胞子体から作出したプロトプラストの再生]	261-266
Hisayoshi Nozaki and Shuji Ohtani: <i>Gonium sociale</i> (Volvocales, Chlorophyta) from Antarctica [野崎久義・大谷修司: 南極産の <i>Gonium sociale</i> (緑藻・オオヒゲマワリ目)]	267-271
能登谷正浩・菊地則雄・有賀祐勝・三浦昭雄: 紅藻ウタツソノリの培養 [Masahiro Notoya, Norio Kikuchi, Yusho Aruga and Akio Miura: <i>Porphyra kinositaire</i> (Yamada et Tanaka) Fukuhara (Bangiales, Rhodophyta) in culture]	273-278
Donald Kaczmarczyk and Robert G. Sheath: Pigment content and carbon to nitrogen ratios of freshwater red algae growing at different light levels [Donald Kaczmarczyk · Robert G. Sheath: 異なる光条件下で生育した淡水産紅藻の色素含量と C/N 比]	279-282
Mitsuo Kajimura: Lectotypification of <i>Scinaia moniliformis</i> J. Agardh (Galaxauraceae, Rhodophyta) [梶村光男: ジュズフサノリ (紅藻植物門, ガラガラ科) の選定基準標本の選定]	283-285
加藤季夫: プロビオンカーミン染色によるピレノイド・センターの 2 つの型の識別 [Sueo Kato: Discrimination of two types of pyrenoid centres by staining with propionocarmine]	287-288
須藤俊造: 海藻・海草相とその環境条件との関連をより詰めて求める試み [Shunzo Suto: A trial to relate marine benthic floras more precisely to their environmental conditions]	289-305
有賀祐勝: 髮菜 <i>Nostoc flagelliforme</i> (藍藻) の生育地と分布 [Yusho Aruga: Habitat and distribution of "Facai", <i>Nostoc flagelliforme</i> (Cyanophyta)]	307-309
片山舒康: 小・中学校理科教科書における藻類の扱われ方 (1)これまでの教科書にみられる変遷 [Nobuyasu Katayama: "Algae" in science education at primary and lower secondary school level. (1) A survey of science textbooks for the last 40 years]	311-315
川嶋昭二: 海藻標本で描いた絵 [Shoji Kawashima: Picture painted by dried specimens of seaweed]	317-318
新刊紹介 [Book Reviews]:	319-320
学会録事 [Announcement]:	321-322
日本学術会議だより [Japan Science Council News]:	323-324

No. 4 (10 December)

Vijayaraghavan M. R. and Kaur Inderdeep: Antheridium development and spermatozoid release in <i>Sargassum vulgare</i> C. Agardh and <i>S. johnstonii</i> Setchell & Gardner [Vijayaraghavan M. R. · Kaur Inderdeep: <i>Sargassum vulgare</i> C. Agardh と <i>S. johnstonii</i> Setchell & Gardner の造精器の発達と精子の放出]	325-332
Isao Inouye, Yoshiaki Hara and Mitsuo Chihara: Further observations on <i>Olisthodiscus luteus</i> (Raphidophyceae Chromophyta): the flagellar apparatus ultrastructure	

[井上 勲・原 慶明・千原光雄：ラフィド藻 <i>Olisthodiscus luteus</i> の鞭毛装置の微細構造].....	333-348
Masahiro Notoya, Mikako Nagashima and Yusho Aruga: Tissue culture and the developmental condition of callus from young sporophytes of <i>Eisenia bicyclis</i> (Kjellman) Setchell (Laminariales Phaeophyta) [能登谷正浩・長嶋美香子・有賀祐勝：褐藻アラメ幼孢子体からの組織培養とカルス形成条件].....	349-352
Takeo Horiguchi and Richard N. Pienaar: <i>Amphidinium latum</i> Lebour (Dinophyceae), a sand-dwelling dinoflagellate feeding on cryptomonads [堀口健雄・Richard N. Pienaar：クリプト藻を捕食する砂地性の渦鞭毛藻 <i>Amphidinium latum</i> Lebour (渦鞭毛藻)について].....	353-363
Masaya Satoh, Shinichi Miyamura and Terumitsu Hori: Inter- and intraspecific variations of chloroplast DNA of the siphonous green algal genus <i>Caulerpa</i> (Caulerpales, Chlorophyta) [佐藤征弥・宮村新一・堀 輝三：囊状緑藻イワヅタ属 (<i>Caulerpa</i>)葉緑体DNAの種間および種内変異]	365-372
Kunshan Gao, Yusho Aruga, Kozi Asada, Toshiaki Ishihara, Toru Akano and Masataka Kiyohara: Photorespiration and CO ₂ fixation in the red alga <i>Porphyra yezoensis</i> Ueda [高 坤山・有賀祐勝・浅田浩二・石原利章・赤野 徹・清原正高：紅藻スサビノリの光呼吸とCO ₂ 固定]	373-377
Tadao Yoshida and Hideo Mikami: <i>Branchioglossum spiniferum</i> sp. nov. (Delesseriaceae, Rhodophyta) from north Kyushu, Japan[吉田忠生・三上日出夫：紅藻コノハノリ科の1新種トゲムラサキ <i>Branchioglossum spiniferum</i> について]	379-384
Hideo Mikami: <i>Yoshidaphycus</i> gen. nov., based on <i>Branchioglossum ciliatum</i> Okamura (Delesseriaceae, Rhodophyta) [三上日出夫：ヒゲムラサキ属 <i>Yoshidaphycus</i> (紅藻コノハノリ科)について].....	385-391
Masahiro Notoya and Yusho Aruga: Tissue culture of <i>Undaria pinnatifida</i> (Harvey) Suringar (Laminariales Phaeophyta) [能登谷正浩・有賀祐勝：褐藻ワカメの組織培養].....	393-395
高 坤山・有賀祐勝・浅田浩二・石原利章・赤野 徹・清原正高：流水条件下における紅藻スサビノリのCO ₂ 固定の促進効果 [Kunshan Gao・Yusho Aruga・Kozi Asada・Toshiaki Ishihara・Toru Akano and Masataka Kiyohara: Enhancement of photosynthetic CO ₂ fixation of the red alga <i>Porphyra yezoensis</i> Ueda in flowing seawater]	397-400
日本藻類学会秋季シンポジウム講演要旨 [Abstracts of the Symposium of the Japanese Society of Phycology]	401-402
新刊紹介 [Book Reviews]	403-404
訃報 [Obituary]	405-406
学会録事 [Announcement]	407-411
ニュース [News]	412
日本藻類学会創立40周年記念特集 [Notes for Fortieth Anniversary of the Japanese Society of Phycology]	413-430
日本学術会議だより [Japan Science Council News]	431-432
Contents of Volume 40 [第40巻総目次]	i-iv

AUTHOR INDEX

- | | | | |
|-----------------|----------------------------------|----------------------|-------------------|
| Abe, T. | 125 | Motomura, T. | 207 |
| Aizawa, K. | 61 | Nakahara, H. | 161 |
| Akano, T. | 373, 397 | Nagashima, M. | 349 |
| Akioka, H. | 143 | Nawata, T. | 151 |
| Arima, S. | 261 | Necchi Jr. O. | 1 |
| Aruga, Y. | 53, 273, 307, 349, 373, 393, 397 | Nishiumi, M. | 245 |
| Asada, K. | 373, 397 | Notoya, M. | 53, 273, 349, 393 |
| Bailey, J.C. | 13 | Nozaki, H. | 267 |
| Chihara, M. | 333 | Ohno, M. | 39, 239 |
| Entwistle, T.J. | 1 | Ohtani, S. | 267 |
| Fujita, D. | 143 | Okuizumi, G. | 245 |
| Gao, K. | 373, 397 | Ono, S. | 61 |
| Hagiwara, T. | 61 | Orosco, C.A. | 239 |
| Hamada, J. | 57, 189 | Pienaar, R.N. | 353 |
| Hara, Y. | 333 | Saito, Y. | 125 |
| Hirata, T. | 25 | Sasaki, T. | 51 |
| Hori, T. | 365 | Satake, K.N. | 61 |
| Horiguchi, T. | 353 | Sato, H. | 245 |
| Ichimura, T. | 161 | Satoh, H. | 135 |
| Inderdeep, K. | 325 | Satoh, M. | 365 |
| Inouye, I. | 333 | Sheath, R.G. | 279 |
| Ishihara, T. | 373, 397 | Shihira-Ishikawa, I. | 151 |
| Ito, H. | 177, 181 | Shimoyama, N. | 185 |
| Kaczmarczyk, D. | 279 | Silva, P.C. | 121 |
| Kajimura, M. | 283 | Sugahara, K. | 229 |
| Kapraun, D.F. | 13 | Suto, S. | 289 |
| Katayama, N. | 311 | Suzuki, K.T. | 229 |
| Kato, S. | 287 | Takahashi, E. | 181 |
| Kawahara, S. | 229 | Tanaka, H. | 135 |
| Kawashima, S. | 317 | Tanaka, J. | 25, 319 |
| Kikuchi, N. | 273 | Tsutsui, I. | 39 |
| Kitayama, T. | 47 | Tsuzuki, M. | 185 |
| Kiyohara, M. | 373, 397 | Uchida, T. | 261 |
| Kiyosawa, K. | 215 | Vijayaraghavan, M.R. | 325 |
| Koike, T. | 135 | Watanabe, M. | 185 |
| Kumano, S. | 245 | Watanabe, M.M. | 61, 229 |
| Masaki, T. | 143 | Wilczok, A.T. | 229 |
| Masuda, M. | 125 | Wynne, M.J. | 111 |
| Mikami, H. | 379, 385 | Yabu, H. | 51 |
| Millar, A.J.K. | 111 | Yasui, H. | 173 |
| Misonou, T. | 25 | Yokochi, H. | 25 |
| Miura, A. | 273 | Yokohama, Y. | 25 |
| Miyaji, K. | 167 | Yoshida, T. | 47, 121, 379 |
| Miyamura, S. | 365 | Yotsukura, N. | 51 |
| Mizuno, M. | 33 | | |

