

The 49th annual meeting of Japan Society of Protistology

Oral presentations

Morphological comparison of ectoplasmic nets of labyrinthulomycetes under various culture conditions with different cellulase activity

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Distribution, ecology and phylogenetic relationship of large unicellular zooplankton in the Kuroshio Region

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Evolution of algal-ciliate endosymbiosis in an experimental culture and the essential resources supplied from outside the symbiotic system required for its stable persistence

Kenta Nishikubo, ○Toshiyuki Nakajima

Dept. Biol., Ehime Univ.

A search for habitat distribution of *Stentor pyriiformis* and development of its culture method

○Yuuji Tsukii

Lab. Biol., SRC, Hosei Univ.

The regeneration of *Spirostomum ambiguum*

○Maho Shimada, Masashi M. Hayakawa

Osaka Pref. Toyonaka High Sch.

Molecular genotyping and pathogenicity of *Toxoplasma gondii* isolated in Japan

Junpei Fukumoto^{1,2}, Akinori Yamano^{1,2}, Takaya Sakura¹, Ryuma Matsubara^{1,2}, ○Kisaburo Nagamune^{1,3}

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Localization and function of peroxiredoxins in *Entamoeba histolytica*

Yoshida Kazuhiro¹, Takashi Makiuchi¹, Makoto Kazama¹, Naoko Fukunishi², ○Hiroshi Tachibana¹

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Organelle transplant revealed a quality control system for mitosome in *Entamoeba histolytica*

○Makoto Kazama¹, Sanae Ogiwara², Takashi Makiuchi¹, Kazuhiro Yoshida¹, Kumiko Tsukui³, Tomoyoshi Nozaki^{3,4}, Hiroshi Tachibana¹

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Parasitol., Natl. Inst. Infect. Dis., ⁴Grad. Sch. Life Environ. Sci., Univ. Tsukuba.

Repeat unit variation in *Plasmodium vivax* merozoite surface protein-9 and immune responses from vivax malaria patients in Thailand

○Sunisa Songsaigath^{1,2}, Takashi Makiuchi¹, Chaturong Putaporntip², Somchai Jongwutiwes², Hiroshi Tachibana¹

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Interspecies conjugation between different megakaryotypes in ciliate *Blepharisma*

○Ayu Sugino¹, Mayumi Sugiura², Terue Harumoto²

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Identification of a novel IDO involved in the biosynthesis of gamone 2 in the ciliate *Blepharisma*

○Mayumi Sugiura¹, Hajime J. Yuasa², Terue Harumoto¹

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Behavior of chromosomes at mitosis and meiosis in *Tetrahymena thermophila*

○Toshiro Sugai, Osamu Numata
Life Environ. Sci., Univ. Tsukuba

Immaturin-calcium ion hypothesis for life cycle phase transition in *Paramecium*

○Nobuyuki Haga
Dept. Biol. Sci., Senshu Univ. Ishinomaki

Grl1 (Granule lattice protein 1) is a candidate protein for K antigens in *Tetrahymena thermophila*

○Takahide Ota
Div. Tumor Biol., Dept. Life Sci., Med. Res. Inst., Kanazawa Med. Univ.

Investigation of factors related to contraction of the proboscis of *Lacrymaria olor*

○Ryuji Yanase, Tohru Yoshihisa, Seiji Sonobe
Grad. Sch. Life Sci., Univ. Hyogo

Study on oriented movement of *Tetrahymena* in response to a current of fluid

○Yukinori Nishigami, Takuya Ohmura, Masatoshi Ichikawa
Grad. Sch. Sci., Kyoto Univ.

Investigation on the function of cortical granules in *Blepharisma hyalinum*

○Nozomi Tamura¹, Mayumi Sugiura², Terue Harumoto²
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Involvement of kinesin-14 in meiosis of ciliate *Tetrahymena*

Yasuharu Kushida^{1,2}, Masak Takaine^{1,3}, Kentaro Nakano¹, Toshiro Sugai¹, Krishna Kumar Vasudevan⁴,
Mayukh Guha⁴, Yu-yang Jiang⁴, Jacek Gaertig⁴, ○Osamu Numata¹
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Characterization of a putative EF-hand motif protein FAP85 of *Chlamydomonas* flagella

○Junya Kirima¹, Hiroaki Kojima², Kazuhiro Oiwa^{1,2}
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Poster presentations

Growth of *Paramecium bursaria* fed on free-living *Chlorella*

○Sosuke Iwai, Kota Fukushi
Fac. Educ., Hirosaki Univ.

Rapid identification of bacteria from *Paramecium bursaria* culture medium by PCR analysis of 16S rRNA genes

○Eiko Himi
Inst. Plant Sci. Resources, Okayama Univ.

Study of post-meiotic DNA double-strand breaks occurring in the haploid germline nuclei of *Tetrahymena thermophila*

○Yasuhiro Fukuda¹, Takahiko Akematsu², Ronald E. Pearlman³, Chika Tada¹, Josef Loidl², Yutaka Nakai¹
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If an important parameter of thermodynamics reaction considers to be temperature, then that of enzymatic reaction is substrate concentration

○Hiroshi Asai
Inst. Sci. Engin., Waseda Univ.

Mass Culturing of *Paramecium bursaria* ~ For Bioethanol Production ~

○Wakako Endo, Miho Morishita
Konko Gakuen Junior & Senior High Sch.

Regulation of maltose synthesis and characteristics of the maltose transport system in the endosymbiont

Chlorella variabilis of *Paramecium bursaria*

○Aika Shibata¹, Fumio Takahashi², Masahiro Kasahara², Nobutaka Imamura³
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Cospeciation between parabasalium symbiont *Teranympa* and host termite.

○Daichi Shimizu¹, Osamu Kitade², Masahiro Yuki³, Moriya Ohkuma^{3,4}, Satoko Noda¹
¹Univ. Yamanashi, ²Ibaraki Univ., ³BMEP/RIKEN, ⁴JCM/RIKEN

Theoretical study about evolution of stalk/spore differentiation and recognition of other strain in *Dictyostelium discoideum*

○Kouki Uchinomiya
RIKEN, iTHES

Changes in ultrastructure and chemical composition of the cell wall of *Chlorella* in relation to endosymbiosis in *Paramecium bursaria*

○Rina Higuchi¹, Chihong Song^{1,2}, Toshinobu Suzaki¹
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Morphogenetic and molecular analyses of cyst wall components in the ciliated protozoan *Colpoda cucullus*

○Ryoji Funadani¹, Yoichiro Sogame¹, Katsuhiko Kojima², Toshikazu Takeshita², Keisuke Yamamoto¹, Tomoya Tsujizono¹, Futoshi Suizu³, Seiji Miyata⁴, Ken-Ichi Yagyu⁵, Tomohiko Suzuki⁶, Mikihiko Arikawa¹, Tatsuomi Matsuoka¹
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Identification of possible molecules involved in β -1,3-glucan-mediated food recognition in the centrohelid heliozoan *Raphidiophrys contractilis*

○Mayumi Kobayashi, Mousumi Bhadra, Toshinobu Suzaki
Dept. Biol., Grad. Sch. Sci., Kobe Univ.

Association of distribution of protists with environmental factors in Lake Shinji and Lake Nakaumi, Western Japan.

○Yukari Gobara¹, Yuuki Kodama², Hideki Ishida²
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Evaluation of sensitivity for antimetabolic agents in *Actinophrys sol*

○Shogo Matsui¹, Risa Ikeda², Motonori Ando^{1,2}
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JSP Symposium

"Potential interaction between the advancement of protistology and science education"

Principle of life disclosed by researches of cell motility

○Seiji Sonobe¹, Yukinori Nishigami², Atsushi Taniguchi³, Nozomi Yamaoka¹, Go Kobashigawa¹
¹Grad. Life Sci., Univ. Hyogo, ²Grad. Sci. Kyoto Univ., ³Lab. Spatiotemporal Regulations, NIBB

Drawing a perspective on teaching/learning materials of protists: from the viewpoint of history of science education

○Hiroki Fujii

Dept. Sci. Edu., Grad. Sch. Edu., Okayama Univ.

Teaching materials of protists on secondary school science: focus on protozoa

○Tadashi Maruoka

Biology educator, Kagawa Pref. High Sch.

Protists as a material for life science education in a combined junior and senior high school: use and future prospects

○Fukuto Tanaka

Seishin Girls' High Sch.

Close relationship between research subjects in Japan Society of Protistology and science education contents: from the viewpoint of the contents map of the life science domain in the course of study

○Risa Ikeda¹, Motonori Ando^{1,2}

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Let's bring up amateur protistologists

○Yuuji Tsukii

Lab. Biol., SRC, Hosei Univ.

Special lecture by a winner for the Award of the Japan Society of Protistology in the Field of Protistological Research

Immunity to malaria: protection and exacerbation

○Fumie Kobayashi

Dept. Infect. Dis., Kyorin Univ. Sch. Med.

Special lecture by a winner for the Award of the Japan Society of Protistology in the Fields of Education and Social Contribution

Enjoy the fascinating world of microorganisms at the Lake Biwa Museum.

○Yasushi Kusuoka

Lake Biwa Museum

Special lecture by a winner for the Encouragement Award for Young Protistologists

Contribution to increasing awareness of protists in general society and to actively utilizing protists in the field of school education.

○Yasutaka Suetomo

Iwakuni City Micro-life Museum