The 51th annual meeting of Japan Society of Protistology Oral presentations

Oral presentations

A mechanism of crystal retention in *Paramecium bursaria*

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Genome and transcriptome analysis of *Paramecium* symbiotic algae revealing gene expansion related to endosymbiotic relationships

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Does Autophagy machinery remain in obligate diatom endosymbionts in dinoflagellates?

○Euki Yazaki[1], Tadaaki Uehara[2], Hirokazu Sakamoto[3], Noboru Mizushima[3], Tetsuo Hashimoto[1,4], Yuji Inagaki[1,4]
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Localization of centrin-related proteins in the haptonema of haptophyte algae

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Accumulation of ciliates on a wall

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Effect of temperature on resting cyst formation in ciliated protozoan *Colpoda cucullus*

○SHIMADA Yuto[1], MATSUOKA Tatsuomi[2], ARIKAWA Mikihiko[2]
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How do diatom-predators find their preys?

○YABUKI Akinori[1], ISAJI Yuta[2], SUGA Hisami[2], ITO Kaoru[1], NAKAMURA Tamiko[1], OHKOUCHI Naohiko[2], FUJIKURA Katsunori[1]
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The role of immaturin in the life-cycle phase transition of *Paramecium*

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A novel *Chlamydomonas* mutant, *pma2*, displays abnormal cell size and flagella number

○MIWA Aya, HARADA Misaki, NAITO Sayaka, HIRONO Masafumi
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Function of the siliceous scales in the centrohelid heliozoan *Raphidiophrys contractilis*

○Toshinobu SUZAKI[1], Sakie OTANI[1], Kento NAGAO[1], Mikihiko ARIKAWA[2]
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Fitness benefits of symbiosis for the algal endosymbiont in *Paramecium bursaria*
○IWAI Sosuke, FUJITA Kyosuke, TAKANISHI Hiroki, FUKUSHI Kota
Faculty of Education, Hirosaki Univ.

Identification and characterization of novel host organelle-recruitment factor of *Toxoplasma gondii*
FUKUMOTO, Junpei[1,2], SAKURA, Takaya[1], MATSUBARA, Ryuma[1,2], TAHARA, Michiru[1], MATSUZAKI, Motomichi[1], ○NAGAMUNE, Kisaburo[1,3]
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Study on the acquisition mechanism of resistance to actin polymerization inhibitor in *Tetrahymena* -Presence of actin homeostasis control mechanism-
○NUMATA Osamu, SHIMIZU Yuhta, AKASAWA Daiki, NAKANO Kentaro
Grad. Sch. of life and Env. Sci., Tsukuba Univ.

Identification of chromatin remodeling factors potentially responsible for gametic pronuclei production in the ciliate *Tetrahymena thermophila*
○FUKUDA Yasuhiro[1], AKEMATSU Takahiko[2], TADA Chika[1], NAKAI Yutaka[1,3]
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Fission and subsequent death of mitochondria prior to the programmed nuclear death of *Tetrahymena*
○SUGIHARA Kie, ENDOH Hiroshi
Grad. Sch. of Nat. Sci. and Technol., Kanazawa Univ.

Understanding ecosystem dynamics by microcosms using Protists
○HOSODA Kazufumi
Institute for Academic Initiatives, Osaka Univ.

Poster presentations

Toward the elucidation of the giant formation mechanism in ciliate *Blepharisma*: Exploration of genes involved in the formation of new cilia
○OKITA Kazusa[1], HARUMOTO Terue[2], SUGIURA Mayumi[2]
[1]Dep. of Chem. Biol. and Environ. Sci., Nara Women's Univ., [2]Research Group of Biol. Sci., Div of Natural Sci., Nara Women's Univ.

Morphological traits and formation process of giant cells in the ciliate *Blepharisma stoltei*
○ISAKA Yuki[1], SUGIURA Mayumi[2], HARUMOTO Terue[2]
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Exploration of *tryptophan 5-monooxygenase* (*TMO*) involved in Gamone2 biosynthesis in *Blepharisma stoltei*
○SATO Ena[1], SUGIURA Mayumi[2], HARUMOTO Terue[2]
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An attempt at cryopreservation of several species of ciliate *Blepharisma*
○SASAKI Asumi[1], SUGIURA Mayumi[2], HARUMOTO Terue[2]
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The seasonal dynamics of some centrohelid and actinophryid heliozoans species (Centrohelida, Actophryida) in artificial pond

○Liudmyla P. GAPONOVA
Laboratory of Preservation and Renewal of Biodiversity, Institute for Evolutionary Ecology of the National Academy of Sciences of Ukraine

An efficient method for culturing endosymbiotic algae of *Paramecium bursaria* using yeast

○MAEDA Ippei[1], SATOH Kenta[2], SAKURADA Fumiaki[2], MIURA Takashi[2], IWAI Sosuke[2]
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Symbiosis between the ciliate *Paramecium bursaria* and yeasts

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Evolution of symbiosis between an alga and a bacterium during a long-term culture of an experimental model ecosystem

○ABE Yuichi[1], FUJII Yosuke[1], MATSUURA Masayuki[1], TSUBOI Mutsue[2], MATSUMOTO Chisa[2], HORISAWA Sakae[3], SAKUMA You[1], NAKAJIMA Toshiyuki[1]
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Resource exchanges and the essential resources required from the environment in the evolution of endosymbiosis between a green alga and a ciliate: Experimental analysis using a three-species model ecosystem

○MATSUDA Tatsuya[1], SAKO Soichiro[1], NISHIKUBO Kenta[2], NAKAJIMA Toshiyuki[2]
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The localization of fluorescent glucose derivatives and swimming velocities in *Tetrahymena therophila*

○YANAGIDA Mio, NAKANO Hirofumi, UENO Hironori
Aichi University of Education

Symbiotic Protist Composition of *Reticulitermes* Termites in the Tokara Islands

○KITADE Osamu[1], NODA Satoko[2]
[1]Coll. of Sci., Ibaraki Univ., [2]Faculty of Life and Env. Sci., Univ. of Yamanashi

Shortening and extension of proboscis in the ciliate *Lacrymaria olor*

○YANO Yuuki[1], ISHIDA Hideki[2]
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National BioResource Project about Pathogenic Protozoa in NEKKEN

○KAZAMA Makoto[1], YAGUCHI Takashi[2], HIRAYAMA Kenji[1], KANEKO Osamu[1]
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A possibility to use volvox as organisms for an easy experiment in education programs and the effect its population density has on growth rate.

○Takumi OTAGAKI, ○Miru TAKEUCHI, Taki KATO, Mayu KIMURA, Yuki HATTORI
Genenral Science Course of Kobe high school, 3rd grade

JSP Symposium
"Protists is so attractive for science education"

Community of Young Protistologists in JSP
SHIBATA Aika
Dept. of Biotechnology, College of Life Sciences, Ritsumeikan Univ

Fast and simple method for identification of marine plankton
SUETOMO Yasutaka
Iwakuni City Microlife Museum

Researches and Experiments on Cell Motility of Protists
SONOBE Seiji
Grad. Sch. Life Sci., Univ. Hyogo

Endosymbioses and Evolution of Photosynthetic Organisms
MIYAGISHIMA Shin-ya
Dept. of Cell Genetics, National Inst. of Genetics

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

Species diversity and Ecology of free living protists in soil environments
SATOSHI Shimano
Sci. Res. Cent., Hosei Univ.