

**The 50th annual meeting of Japan Society of Protistology
The 1st annual meeting of the Japan Symbiosis Society**

Oral presentation

Early symbiosis of corals and zooxanthellae uncovered by field observations and laboratory experiments

○YAMASHITA Hiroshi, SUZUKI Go, SHINZATO Chuya, JIMBO Mitsuru, KOIKE Kazuhiko

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Search for symbiosis-related genes in lichens by using resynthesized thalli of *Usnea hakonensis*

○KONO Mieko¹, TERAI Yohey¹, OHMURA Yoshihito², SATTA Yoko¹

¹ Dept. of ESB, SOKENDAI, ² Dept. of Botany, National Museum of Nature and Science

Limit of the kleptochloroplast for use: The photosynthetic activity of *Rapaza viridis*

○MARUYAMA Moe¹, KOBAYASHI Koki², AWAI Koichiro², SUZAKI Toshinobu³, KASHIYAMA Yuichiro¹

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Relationship between the evolution of transmission mode of symbionts and niche shift of hosts induced by symbiosis

○UCHIUMI Yu, OHTSUKI Hisashi, SASAKI Akira

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Single cell transcriptome of the protists in the termite suggests that one of the symbiotic species contributes to efficient nitrogen utilization through chitin degradation

○NISHIMURA Yuki¹, OTAGIRI Masato², YUKI Masahiro¹, INOUE Jun-ichi¹, MORIYA Shigeharu², OHKUMA Moriya^{1,2}

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Comparative genomics of *Desulfovibrio* symbionts associated with protists in termite gut

○KASUYA Mariko¹, KUWAHARA Hirokazu¹, MURAKAMI Takumi¹, OHKUMA Moriya², HONGOH Yuichi^{1,2}

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Ultrastructure and molecular architecture of the kinetocyst (extrusive organelle) in *Raphidiophrys contractilis* (Centrohelida)

○KOBAYASHI Mayumi¹, SONG Chihong², MURATA Kazuyoshi², SUZAKI Toshinobu¹

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MITOCHONDRION-DIVIDING RING 1 (MDR1) assembles a contractile ring for mitochondrial division

○YOSHIDA Yamato¹, KUROIWA haruko², SHIMADA Takashi³, YOSHIDA Masaki⁴, OHNUMA Mio⁵, FUJIWARA Takayuki⁶,

IMOTO Yuuta⁷, YAGISAWA Fumi⁸, NISHIDA Keiji⁹, HIROOKA Shunsuke⁶, MISUMI Osami¹⁰, MOGI Yuko¹, AKAKABE

Yoshihiko¹¹, MATSUSHITA Kazunobu¹¹, KUROIWA Tsuneyoshi²

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Univ. of Ryukyus, ⁹ Grad. Sch. Sci., Kobe Univ., ¹⁰ Grad. Sch. Sci. Tech., Yamaguchi Univ., ¹¹ Dept. of Agric., Yamaguchi Univ.

Transmembrane nucleoporins Pom121/Pom82 differentiating nuclear pore complexes of functionally distinct nuclei of ciliate *Tetrahymena*

○IWAMOTO Masaaki¹, OSAKADA Hiroko¹, MORI Chie¹, HIRAOKA Yasushi^{1,2}, HARAGUCHI Tokuko^{1,2}

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The role of stomatin-like proteins in escape reaction of Paramecium

KAWANO Mutsumi¹, SETO Ayaka¹, ISHIDA Masaki², TOMINAGA Takashi³, ○HORI Manabu¹

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Rare earth ions driven Contraction of Tentacle in Nocticula and Reason of Beauty of its Luminescence in luminous Body

○ASAI Hiroshi

Reseach Institute of Science and Engineering in Waseda University

Poster Presentation

Bacteria localized on the egg surface of the scaphopod *Dentalium octangulatum*

○IKUTA Tetsuro¹, TAKAKI Yoshihiro¹, TAME Akihiro², FUJIKURA Katsunori¹, YOSHIDA Takao¹

¹ JAMSTEC, ² Marine Work Japan

Overexpression of coral immune system leads to breakdown of the coral-algal endosymbiosis

○YUYAMA Ikuko

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RNA-seq approaching to ecological functions of termite symbiotic system

○MORIYA Shigeharu¹, OTAGIRI Masato¹

¹ RIKEN, CSRS

A new, compact, highly sensitive and low cost biological monitoring device using protozoa to detect toxic substances in water

○ISLAM MD Shafiqul¹, YOSHIMURA Chisato², KOBAYASHI Mayumi³, CHEN Lin⁴, HIGUCHI Rina³, SUZAKI Toshinobu³

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Some rare and little-known centrohelid heliozoans (Protista, Centrohelida) of Europe

○GAPONOVA P. Liudmyla

Institute for Evolutionary Ecology of the National Academy of Sciences of Ukraine

Major vault proteins identified as food recognition proteins in *Raphidiophrys contractilis*

○KARASAWA Munehiro, BHADRA Mousumi, KOBAYASHI Mayumi, SUZAKI Toshinobu

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Ectosymbiotic bacterial microbiota on the surface of nematodes in gut of a wood-feeding *Panesthia* cockroach

○ONOUCHI Shu¹, MURAKAMI Takumi¹, OHKUMA Moriya², HONGOH Yuichi^{1,2}

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Phylogenetic diversity and morphology of the symbiotic gut protists from higher termites and cockroaches
○TAKAHASHI Yudai¹, IGAI Katsura¹, MORIKAWA Takahiro¹, SUGAYA Kaito¹, OHKUMA Moriya², KOBAYASHI Seiki³,
INOUE Tetsushi⁴, YAMADA Akinori⁴, HONGOH Yuichi^{1,2}
¹ Life Sci. & Tech., Tokyo Tech, ²JCM, RIKEN, ³ Med., Keio Univ., ⁴ Fish. & Environ. Sci., Nagasaki Univ.

Phylogenetic positions of gregarine-like parasites isolated from intestinal tracts of terrestrial arthropods, and search for their nonphotosynthetic plastids
○MIYATA Ryosuke¹, MATSUO Eriko¹, NAKAYAMA Takuro², TANIFUJI Goro³, CHIKAMI Yasuhiko⁴, YAHATA Kensuke⁵,
INAGAKI Yuji^{1,6}
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Cultivation of an anaerobic ciliate strain GW7 that possesses symbiotic methanogen and bacteria
○TAKESHITA Kazutaka¹, YAMADA Takanori¹, NARIHIRO Takashi², KAMAGATA Yoichi², SHINZATO Naoya^{1,2}
¹ Tropical Biosphere Res. Cent., Univ. Ryukyu, ² Bioprocess Res. Inst., AIST

Morphology and phylogeny of a haptophyte *Chrysocromulina parkeae* and its endosymbiont
○TSUKAKOSHI Chinatsu¹, SUZUKI Shigekatsu², NAKAMURA Atsushi¹, HAGINO Kyoko³, ISHIDA Ken-ichiro⁴
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⁴ Univ., ⁴ Faculty of Life and Environ. Sci., Univ. of Tsukuba

Species richness and distribution pattern of leaf-inhabiting endophytic fungi in a broad-leaved deciduous forest
○OKI Minae¹, MURAKAMI Masashi¹
Chiba Univ. Community Ecology Lab.

Evidence of non-tandemly repeated rDNAs and their intragenomic heterogeneity in *Rhizophagus irregularis*
○MAEDA Taro¹, OKUMA Nao^{1,3}, KOBAYASHI Yuuki^{1,2}, KAMEOKA Hiromu^{1,2}, TAKEDA Naoya¹, YMAGUCHI Katsushi¹,
BINO Takahiro¹, SHIGENOBU Shuji¹, KAWAGUCHI Masayoshi¹
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Analysis of microbial taxonomic composition and gene expression using Total RNA-seq in Negro River, Amazon
○TSUBOI Arisa^{1,2}, HONGOH Yuichi¹, MORIYA Shigeharu²
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Analysis of microbial ecosystem in activated sludge by artificial phage
○NISHIDA Akifumi¹, NAKAGAWA Mayuko², AYUKAWA Shotaro³, YAMAMURA Masayuki¹
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Evolution and maintenance of tubeworm-chemosynthesis bacteria mutualism
○SATO Masato¹, SASAKI Akira¹
¹ The Graduate University for Advanced Studies

Heavy metal tolerance of Japanese knotweed (*Reynoutria japonica* Houtt.) growing on mine site and effects of the endophytic fungi

○HOJO Yuki¹, YAMAJI Keiko²

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Analysis of correlation between squalene productivity and mevalonic acid pathway rate limiting enzyme HMG-CoA reductase activity in Thraustochytrids

○SUZUKI Taichi¹, FUJIHARA Naomichi¹, ITO Junko¹, YOSHIDA Masaki², SUZUKI Iwane², ISHIDA Ken-ichiro²

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A report of a novel phagotrophic bacterium

○SHIRATORI Takashi¹, SUZUKI Shigekatsu², ISHIDA Ken-ichiro¹

¹ Faculty of Life and Environmental Sciences, University of Tsukuba, ² Center for Environmental Biology and Ecosystem Studies, National Institute for Environmental Studies

Mitochondrial genome of a protist branched at the base of Euglenozoa

○YAZAKI Euki¹, SHIRATORI Takashi¹, KUME Keitaro², HASHIMOTO Tetsuo^{1,3}, ISHIDA Ken-ichiro¹, INAGAKI Yuji^{1,3}

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Elucidation of nuclear proliferation machinery in *Plasmodium* liver-stage parasites

○ARAKI Tamasa^{1,2}, KAWAI Satoru³, KOBAYASHI Hirotaka⁴, KATAOKA Michiyo⁴, NAGAMUNE Kisaburo^{1,2}, NOZAKI Tomoyoshi^{1,5}, ANNOURA Takeshi¹

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Morphological traits of giant cells in the ciliate *Blepharisma stoltzei*

○ISAKA Yuki¹, SUGIURA Mayumi², HARUMOTO Terue²

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An attempt at cryopreservation of ciliate *Blepharisma*

○SASAKI Asumi¹, SUGIURA Mayumi², HARUMOTO Terue²

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Toward the elucidation of mechanism to block interspecies conjugation in *Blepharisma*

○SUGINO Ayu¹, SUGIURA Mayumi², HARUMOTO Terue²

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The function of cortical granules and toxicity of the contents in *Blepharisma hyalinum*

○TAMURA Nozomi¹, SUGIURA Mayumi², HARUMOTO Terue²

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Analysis of calmodulin-binding protein in crude dynein fraction of *Tetrahymena* cilia

○KOI Wakana, UENO Hironori
Aichi University of Education, Cell biology lab.

Extension and contraction mechanism of the proboscis of a ciliate, *Lacrymaria olor*

○YANASE Ryuji¹, NISHIGAMI Yukinori², YOSHIHISA Tohru¹, SONOBE Seiji¹
¹ Grad. Sch. Life Sci., Univ. Hyogo, ² Dept. Phys., Grad. Sch. Sci., Kyoto Univ.

A Function of Crystals in Ciliate *Paramecium bursaria*

○TSUKAGOSHI Ryosuke¹, KODAMA Yuuki²
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Changes in cell protein composition of the cell surface of *Chlorella variabilis* associated with intracellular symbiosis

○HIGUCHI Rina, SUZAKI Toshinobu
Dept. Biol., Grad. Sch. Sci., Kobe Univ.

Growth of *Paramecium bursaria* feeding on *Chlamydomonas* and the microcosm experiments

○FUKUSHI Kota¹, FUJITA Kyosuke², IWAI Sosuke²
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Flagella-associated protein in *Chlamydomonas* flagella, FAP85 is one of the microtubule inner proteins (MIPs)

○KIRIMA Junya¹, OIWA Kazuhiro^{1,2}
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A novel *Chlamydomonas* mutant, *lpp1*, has defects in maintaining structural integrity of flagellar axonemes

○ KOGA Hiroki¹, TOH Mishio², NOGA Akira², DOHRA Hideo³, WAKABAYASHI Ken-ichi⁴, HIRONO Masafumi^{1,2}
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A novel *Chlamydomonas* mutant, *awa1*, displays a membrane-dependent abnormality in flagellar motility

○SAKAI Masashi¹, ONO Kotaro¹, KAI Ryutaro¹, MIWA Aya¹, NOGA Akira^{1,2}, NAKAZAWA Yuki¹, HIRONO Masafumi¹
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Where is the driving force for *Volvox* swimming?

○UDA Kaho, UENO Hironori
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Phylogenetic and morphological analyses of the cercozoan species closely related to chlorarachniophytes

○KATO Yuta¹, SHIRATORI Takashi², ISHIDA Ken-ichiro²
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The essential vitamin for *Aurantiochytrium* sp. is only B1 (Thiamin)

○TANI Narumi, YONEDA Kohei, SUZUKI Iwane, SUZUKI Taichi, ISHIDA Ken-ichiro, YOSHIDA Masaki
Grad. Sch. Life Environ. Sci., Univ. Tsukuba

Study on the regulatory mechanism for induction of zoospore in *Aurantiochytrium* sp. 18w-13a

○HATA Hironori, SUZUKI Iwane, YOSHIDA Masaki, YONEDA Kohei,
Grad. Sch. Life Environ. Sci., Univ. Tsukuba

Analysis on the formation of siliceous scales in *Raphidiophrys contractilis*

○CHEN Lin¹, CHIHARA Akane², KOBAYASHI Mayumi², NAGAO Kento², SUZAKI Toshinobu²
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Taxonomic study of branched filamentous green algae within Ulvales

○NAMBA Noriaki¹, NAKAYAMA Takeshi²
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Genome analysis of the rickettsial endosymbiont living in the cytoplasm of a photosynthetic organism

○KAWAFUNE Kaoru¹, KUWAHARA Hirokazu¹, SAKAMOTO Tomoaki², KURATA Tetsuya³, HIROOKA Shunsuke⁴, MIYAGISHIMA Shin-ya⁴, MATSUZAKI Motomichi⁵, NOZAKI Hisayoshi⁶, HONGO Yuichi¹
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Community structure of symbiotic protists in *Reticulitermes* spp. in Okinawa and Amami Islands

○SUZUKI Masanori¹, KITADE Osamu²
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Diversity and characterization of phosphagen kinases in protists

○YANO Daichi¹, FUNADANI Ryoji¹, MATUOKA Tatsuomi¹, SUZUKI Tomohiko¹
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Multigene phylogeny of deep-branching stramenopiles

○THAKUR Thakur¹, SHIRATORI Takashi², ISHIDA Ken-ichiro²
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A locomotion mode in agarose gel different from swimming and gliding in Tetrahymena

○OTA Takahide
Dep. Life Sci., Med. Res. Inst., Kanazawa Med. Univ.

Stentor pyriformis with algal endosymbionts is nutritionally autotrophic

○TSUKII Yuuji
Lab. Biol., Sci. Res. Ctr., Hosei Univ.

Molecular biological detection and identification of bovine coccidia in intestinal tissue

○OTSUBO Daisuke¹, KANAMORI Maki¹, OWAKI Keishi², YANAI Tokuma², TADA Chika¹, FUKUDA Yasuhiro¹, NAKAI¹
Yutaka¹

¹ Grad. Sch. Agric. Sci., Tohoku Univ., ² Appl. Biol. Sci., Gifu Univ.,

Identification and characterization of bovine *Eimeria* in intestinal tissue section with using molecular biological technique

○FUKUDA Yasuhiro¹, KANAMORI Maki¹, OTSUBO Daisuke¹, OWAKI Keishi², TADA Chika¹, YANAI Tokuma², NAKAI¹
Yutaka¹

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Occurrence of *Acanthamoeba* and its endosymbionts in housedust

○YAGITA Kenji, OKAMURA Tokiko

Dept. of Parasitol., Natl. Inst. Infect. Dis,

Phylogeny, Ultrastructure, and Mitochondrial Genome of a Novel Discobid Nanoflagellate from the Solomon Islands

○YABUKI Akinori¹, GYALTSHEN Yangtsho², HEISS A. Aaron², FUJIKURA Katsunori¹, KIM Eunsoo²
¹JAMSTEC, ²AMNH

Photokinesis of *Amoeba proteus*

○NISHIGAMI Yukinori, FUJIWARA Hisanori, ICHIKAWA Masatoshi

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Mass Culturing of *Paramecium bursaria* ~In order to Produce Bioethanol~

○SASAYAMA Karin, YAMAMOTO Ayano

Konko Gakuen Junior & Senior High School

Symposium

Opening remarks

○ISHIDA Ken-ichiro(Univ. Tsukuba)

The smoking gun; Evolutionary traces shown by the relic endosymbiont nuclei

○TANIFUJI Goro

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Evolution of endosymbiosis in dinoflagellate *Nusuttodinium* spp.

○ONUMA Ryo¹, HIROOKA Shunsuke¹, KANESAKI Yu², YOSHIKAWA Hirofumi³, MIYAGISHIMA Shin-ya¹

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Conflicting molecular interactions between host and Plasmodium liver-stage parasite: a fight for supremacy
○ANNOURA Takeshi¹, ARAKI Tamasa^{1,2}, KAWAI Satoru³, KOBAYASHI Hirotaka⁴, KATAOKA Michiyo⁴, KAKUTA Soichiro⁵,
WACKER Rahel⁶, KHAN M. Shahid⁷, HEUSSLER T. Volker⁶, NOZAKI Tomoyoshi^{1,8}
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Pathol., NIID, ⁵Research Support Center, Juntendo Univ. Grad. Sch. Med., ⁶Universitat Bern, Switzerland, ⁷Leiden University
⁸Medical Center, Netherlands, ⁸Dept.of Biomed.Chem. Grad.Sch.of Med., Univ. of Tokyo

Unexplored diversity of early diverging fungi -Taxonomic study on parasitic chytrids on algae-

○SETO Kensuke¹

¹Faculty of Science, Toho University

Single-cell genomics to decipher the symbiotic relationship between host protists and endo-/ectosymbiotic bacteria in the termite gut

○YUKI Masahiro¹, OHKUMA Moriya^{1,2}

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Phenotypic plasticity and transcriptome dynamics of host–parasitic plant interaction

○ICHIHASHI Yasunori^{1,2}, SHIRASU Ken^{1,3}

¹RIKEN CSRS, ²JST PRESTO, ³The University of Tokyo

Understanding mechanisms of coral symbiosis using genomics approaches

○SHINZATO Chuya

Atmosphere and Ocean Research Institute, The University of Tokyo

“Surprisingly” narrow dispersal of marine protists

○ISHITANI Yoshiyuki¹

¹Comp. Sci. Cent., Tsukuba Univ.

Closing remarks

○NAGAMUNE Kisaburo^{1,2}

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Workshop

Effect of temperature on community structure and diversity of termite symbiotic protists

○KITADE Osamu, NEMOTO Manami

College of Science, Ibaraki Univ.

Cellulase activity in the gut microbiota of higher termites

○IGAI Katsura¹, MORIKAWA Takahiro¹, TAKAHASHI Yudai¹, MORIYA Shigeharu², OHKUMA
Moriya³, INOUE Tetsushi⁴, YAMADA Akinori⁴, HONGOH Yuichi^{1,2}

¹Life Sci. & Tech., Tokyo Tech, ²CSRS, RIKEN, ³JCM, RIKEN, ⁴Fish., Nagasaki Univ.

Effects of losses of DNA repair genes on the reductive genome evolution in vesicomyid deep-sea symbiotic bivalves

○MARUYAMA Tadashi¹, SHIMAMURA Shigeru², TAKAKI Yoshihiro², YOSHIDA Takao³

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Physiological roles of TC1 symbiont residing in an anaerobic ciliate *Trimyema compressum*

○SHINZATO Naoya^{1,2}, TAKESHITA Kazutaka¹, NOBU K. Masaru², NIKOH Naruo³, KAMAGATA Yoichi²

¹Tropical Biosphere Res. Cent., Univ. Ryukyu, ²Bioprocess Res. Inst., AIST, ³Dept. Liberal Arts, Open Univ. Japan

DNA modification of the symbiotic dinoflagellate *Symbiodinium minutum*

○SHOGUCHI Eiichi¹, NARISOKO Haruhi¹, ROY Michael C.², SATOH Noriyuki¹

¹Marine Genomics Unit, OIST, ²Instrumental Analysis Section, OIST

Mitochondrial respiratory chain of the oyster parasite *Perkinsus marinus*

○YATSUZAKI Motomichi^{1,2,3}, KURODA Marie¹, MASUDA Isao¹, SAKUMOTO Hirokazu¹, SAKAMOTO Kimitoshi⁴, INAOKA

D. Ken^{1,2}, KITA Kiyoshi^{1,2}

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Function of the intermediate subunit of *Entamoeba histolytica* lectin

MAKIUCHI Takashi¹, KATO Kentaro², CHENG Xunjia¹, ○TACHIBANA Hiroshi¹

¹Tokai Univ. Sch. Med., ²NEKKEN, Nagasaki Univ.

Elucidating the mechanism of host mitochondrial recruitment by *Toxoplasma gondii*

○FUKUMOTO Junpei^{1,2}, SAKURA Takaya¹, MATSUBARA Ryuma¹, TAHARA Michiru¹, NAGAMUNE Kisaburou^{1,3}

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Genome analysis of symbiosis in green hydra and Chlorella

○HAMADA Mayuko^{1,2}, SCHRÖDER Katja³, KHALTURIN Konstantin², SHINZATO Chuya², BOSCH C.G. Thomas², SATOH Nori²

¹Ushimado Marine Institute, Okayama Univ., ²Okinawa Institute of Science and Technology Graduate Univ., ³Kiel Univ.

Re-visiting the contribution of Lynn Margulis in the endosymbiotic theory of plastids

○SATO Naoki¹

¹Life Sciences, Grad. School of Arts and Sciences, Univ. of Tokyo

Quantification of rotten wood-consumption by termite

○KIHARA Kumiko^{1,2}, NAKAGAWA Takafumi¹, YAMADA Akinori³, YOSHIMURA Tsuyoshi⁴

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Faecal transplantation for the treatment of *Clostridium difficile* infection in a marmoset

○YAMAZAKI Yumiko^{1,2}, KAWARAI Shinpei³, MORITA Hidetoshi⁴, KIKUSUI Takefumi⁵, IRIKI Atsushi²

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Identification and characterization of endophytic bacteria isolated from seeds of *Chenopodium quinoa*

○MURATA Yoshinori¹, TOYOSHIMA Masami¹, FUJITA Yasunari^{1,2}

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Fungi isolated from the pollen grains made by bumblebees

○DEGAWA Yousuke, HIRAO Akira

Sugadaira MRS, MRC, Univ. of Tsukuba

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

Study on the establishment mechanism of secondary symbiosis using the ciliate *Paramecium bursaria*

○KODAMA Yuuki

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

Novel and early branching protists illuminate eukaryotic evolution more clearly

○YABUKI Akinori

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