The 47th annual meeting of Japan Society of Protistology

Oral presentations

- Structure and function of oligosaccharide chains in mating pheromone (Gamone1) of Blepharisma
 - OTerue Harumoto¹, Yoshikazu Yamagishi², Shoko Iwasaki³, Mayumi Sugiura¹, Mayumi Kobayashi^{3, 4}, Hideo lio² ¹Division of Natural Sciences, Nara Women's University, ²Graduate School of Science, Osaka City University,
 - ³Graduate School of Humanities and Sciences, Nara Women's University, ⁴DC2 (JSPS)
- The diversity of mating pheromone gamone1 leading speciation in ciliate *Blepharisma* **O**Mayumi Kobyashi^{1, 2}, Mari Takusagawa³, Mayumi Sugiura⁴, Terue Harumoto⁴

 - ¹Graduate School of Natural Science and Ecological Awareness, Nara Women's University.
 - ²Research Fellow of Japan Society for the Promotion of Science,
 - ³Graduate School of Medicine, Applied Molecular Bioscience, Yamaguchi University,
 - ⁴Division of Natural Sciences, Research Group of Biological Sciences, Nara Women's University

Molecular analyses of the Odd-mating type specific ciliary membrane protein, PcMSP: intragenic structure and intracellular localization of the polypeptide

- OYuta Chiba, Nobuyuki Haga
- Department of Biological Sciences, Senshu University of Ishinomaki
- A novel mechanism of rapid axopodial contraction in heliozoon Raphidiophrys contractilis ORisa Inoue, Motonori Ando Laboratory of Cell physiology, Graduate School of Education, Okayama University
- A study of spontaneous curvature of isolated membrane of Amoeba proteus and three-dimensional curvature of a living cell
 - OYukinori Nishigami¹, Atsushi Taniguchi², Shigenori Nonaka², Seiji Sonobe³, Masatoshi Ichikawa¹ ¹Graduate School of Science, Kyoto University, ²National Institute for Basic Biology, ³Graduate School of Science, University of Hyogo
- Predation mechanism of a suctorian, Hypophrya sp.
- OGo Kobashigawa, Tohru Yoshihisa, Seiji Sonobe, Grad. Sch. Life Sci., Univ. Hyogo
- Extension and contraction mechanism of the proboscis of a ciliate, Lacrymaria olor ORyuji Yanase, Tohru Yoshihisa, Seiji Sonobe Grad. Sch. Life Sci., Univ. Hyogo

Myosin like protein from gliding diatom

ONozomi Yamaoka¹, Yasutaka Suetomo², Tohru Yoshihisa¹, Seiji Sonobe¹ ¹Department of Life Science, University of Hyogo, ²Iwakuni City Microlife Museum

Toxicities of protozoan pigments for chemical defense extracted from the ciliate Blepharisma japonicum and Climacostomum virens-blepharismin and climacostol

- OMasayo Terazima¹, Hideo lio², Terue Harumoto³
- ¹Department of Registered Dietitians, Faculty of Health and Welfare, Tokaigakuin University,
- ²Department of Material Science & Chemistry, Osaka City University,
- ³Division of Natural Sciences, Faculty of Science, Nara Women's University
- Phormidium, cyanobacteria in soil, activates the roots of vegetable crops
 - Olkuko Shihira-Ishikawa¹, Yoshiaki Nakayama², Yasutaka Hanada³, Hiroshi Abe²
 - ¹Center for Advanced Photonics, ²Tokyo University of Agriculture, ³Hirosaki University
- Distribution and ecology of Aulographis japonica (Phaeodaria, Aulacanthida, Aulacanthidae) around Japan OYasuhide Nakamura¹, Rei Somiya², Ichiro Imai¹, Akihiro Tuji³, Fabrice Not⁴, Noritoshi Suzuki⁵
 - ¹Graduate School of Fisheries Sciences, Hokkaido University,
 - ²Graduate School of Fisheries Science and Environmental Studies, Nagasaki University,
 - ³Department of Botany, National Museum of Nature and Science,
 - ⁴Station Biologique de Roscoff, Centre National de la Recherche Scientifique (CNRS),
 - ⁵Graduate School of Science, Tohoku University
- Gliding motility and host cell invasion of foodborne disease-causing protist, Sarcocystis fayeri Takaya Sakura¹, Michiru Tahara¹, Ryuma Matsubara^{1, 2}, Akinori Yamano^{1, 2}, Shinji Izumiyama¹, Kenji Yagita¹, **O**Kisaburo Nagamune^{1,}
 - ¹Department of Parasitology, National Institute of Infectious Diseases.
 - ²Graduate School of Life and Environmental Sciences, University of Tsukuba,
 - ³Faculty of Life and Environmental Sciences, University of Tsukuba

Diversity of growth and development abilities in cellular slime molds at low temperatures OHidenori Hashimura, Kei Inouye Graduate School of Science, Kyoto University Eccentric mitochondrial genome found in diatom parasite Hemistasia phaeocysticola OAkinori Yabuki Basic Research Area, Department of Marine Biodiversity Research, Japan Agency for Marine-Earth Science and Technology (JAMSTEC) Regulation of maltose rereleasing in symbiotic Chlorella; Chlorella variavilis isolated from Paramecium bursaria OAika Shibata¹, Fumio Takahashi², Masahiro Kasahara², Nobutaka Imamura³ ¹Graduate School of Life Sciences, Ritsumeikan University, ²Department of Biotechnology, College of Life Sciences, Ritsumeikan University, ³Department of Pharmacy, College of Pharmaceutical Sciences, Ritsumeikan University The inheritance of mating types in a strain with two mating types in Paramecium caudatum OAkira Yanagi Department of Human Education, Faculty of Human Studies, Ishinomaki Senshu University Suprachromosomal chromatin structure during micronuclear division in Paramecium caudatum OToshiro Sugai, Osamu Numata Life and Environmental Sciences, University of Tsukuba Microtubule dynamics during conjugation in Tetrahymena II; A study of mechanism of crescent formation Yasuharu Kushida¹, Masakatsu Takaine², Toshiro Sugai², Kentaro Nakano², **O**Osamu Numata² ¹Department of Cell Physiology, the Jikei University School of Medicine, ²Faculty of Life and Environmental Sciences, University of Tsukuba Functional genomics using transcriptome data of Paramecium bursaria OHideo Dohra¹, Yuuki Kodama², Haruo Suzuki³, Manabu Sugii⁴, Tatsuya Kitazume⁵, Katsushi Yamaguchi⁵, Shuji Shigenobu⁵, Masahiro Fujishima³ ¹Research Institute of Green Science and Technology, Shizuoka University, ²Faculty of Life and Environmental Science, Shimane University, ³Graduate School of Science and Engineering, Yamaguchi University, ⁴Media and Information Technology Center, Yamaguchi University, ⁵National Institute for Basic Biology Molecular phylogenetic analyses of immaturin ONobuyuki Haga¹, Yasuhiro Takenaka², Toshinori Usui¹ Yuta Chiba¹, Tomoaki Abe¹ ¹Department of Biological Sciences, Senshu University of Ishinomaki, ²Department of Diabetes and Endocrinology, Saitama Medical University Quantitative verification of Vorticellidae contraction by well known theory of peptide a-helix- random coil transition OHiroshi Asai Advanced Research Institute for Science and Engineering in Waseda University Selection processes in early stages of the evolution of endosymbiosis between an alga and a ciliate using an experimental model ecosystem OToshiyuki Nakajima, Toshiyuki Matsubara, Yoichiro Ohnishi Department of Biology, Ehime University Timing of differentiation of a perialgal vacuole membrane enclosing a symbiotic Chlorella in early infection process between Paramecium bursaria and alga OMasahiro Fujishima¹, Junpei Yamashita¹, Yuuki Kodama² ¹Graduate School of Science and Engineering, Yamaguchi University, ²Faculty of Life and Environmental Science, Shimane University Role of SAS-6 self-association in assembly of the cartwheel and centriole Akira Noga¹, Michel Steinmetz², Manuel Hilbert², OMasafumi Hirono¹ ¹Department of Biological Sciences, University of Tokyo, ²Laboratory of Biomolecular Research, Paul Scherrer Institute Poster presentations Observation of the histone modification in Tetrahymena thermophila OAkifumi Maruyama^{1, 2}, Masaaki Iwamoto², Yasushi Hiraoka^{1, 2, 3}, Tokuko Haraguchi^{1, 2, 3} Graduate School of Science, Osaka University, ²Advanced ICT Research Institute, NICT, ³Graduate School of Frontier Biosciences, Osaka University Effects of high-light stress on the endosymbiotic algae in Paramecium bursaria OYoshiki Fujimori¹, Takashi Miura², Sosuke Iwai

¹Faculty of Education, Hirosaki University, ²Graduate School of Education, Hirosaki University

Structural analysis of a Type-I mitochondrial plasmid in Paramecium caudatum OTatsuya Maeda, Hiroshi Endoh Grad. Sch. of Natural Sci. and Technol., Kanazawa Univ. Partitioning of the symbiotic algae at the host cell division in Paramecium bursaria OKenji Fujiwara, Sosuke Iwai Faculty of Education, Hirosaki University Nickel ion-inducible genes, NCI16 and PcGST1, and oxidative stress in Paramecium caudatum OYasuhiro Takenaka¹, Nobuyuki Haga², Ikuo Inoue¹, Takuya Awata¹, Shigehiro Katayama¹ ¹Department of Diabetes and Endocrinology, Saitama Medical University, ²Department of Biological Sciences, Faculty of Science and Technology, Senshu University of Ishinomaki The role of HCN channel in the escape reaction of *Paramecium* Shinobu Izutani¹, Emi Ohta¹, Takashi Tominaga², **O**Manabu Hori¹ ¹Dept. Biosci., Fac. Sci, Yamaguchi Univ., ²Inst. Neurosci., Tokushima BUNRI Univ. Velocity analysis of the IFT particles using Chlamydomonas flagellar mutants Takuya Takamura, OHironori Ueno Molecular Function & Life Sciences, Aichi university of Education A simple mechanism for maintaining the endosymbiotic algae: some insights from growth analysis of Paramecium bursaria Takuro Tamura, OSosuke Iwai Faculty of Education, Hirosaki University Special symposium "Crossover of Protistology" (Organized by JSP activation committee) Ecological roles of protists within microbial loop in freshwater and marine systems OShin-ichi Nakano Center for Ecological Research, Kyoto University Bacterial horizontal gene transfer in microbial ecosystem: perspective of gene dynamics in aquatic ecosystem OKazuaki Matsui Laboratory of Environmental Biological Science, Faculty of Science and Technology, Kinki University Diversity of mitochondrial genome structure of apicomplexan parasites OKenji Hikosaka Department of Microbiology and Immunology, Teikyo University School of Medicine Evolution of algal plastids via endosymbiotic events OYoshihisa Hirakawa Faculty of Life and Environmental Sciences, University of Tsukuba Symposium for high school teachers (public) (By cooperation of the Grant-in-Aid for Scientific Research on Innovative Areas "Matryoshka-type evolution") Parasitism, symbiosis, and matryoshka ~endosymbiosis and evolution~ OKisaburo Nagamune^{1, 2} ¹Department of Parasitology, National Institute of Infectious Diseases, ²Faculty of Life and Environmental Sciences, University of Tsukuba Special lecture by a winner for the Award of the Japan Society of Protistology in the Field of Protistological Research Mating types, syngens, and the species concept in Paramecium OYuuii Tsukii Lab. Biol., Sci., Hosei University Special poster presentation by a winner for the Encouragement Award for Young Protistologists Studies on mechanisms of sol-gel convertion in amoeboid locomotion using a model system OYukinori Nishigami

Graduate School of Science, Kyoto University