

## Poster session

- P-1 Thermal gel forming ability of fish muscle is evaluated by the primary sequence of myosin heavy chain  
Misaki Uemura, Kairi Fukiage, Takuto Yamamura, Goki Oshima, Nanami Mizusawa, Daisuke Ikeda and Shugo Watabe
- P-2 Expression profiles of genes related to amino acid metabolism from kuruma shrimp acclimated at different salinities  
Hiroki Koyama, Nanami Mizusawa, Masataka Hoashi, Engkong Tan, Ko Yasumoto, Mitsuru Jimbo, Daisuke Ikeda, Takehiko Yokoyama, Shuichi Asakawa, Sanit Piyapattanakorn and Shugo Watabe
- P-3 TGF- $\beta$  superfamily in aging of zebrafish skeletal muscle  
S. Toma, W.T. Wang, Y. Kijima, A.K. Elbially, Y. Igarashi, S. Asakawa, S. Watabe and S. Kinoshita
- P-4 The analysis of the exosome from the aquatic animals  
Shinya Nishiumi, Md Assaduzaman, Shuichi Asakawa, Shigeharu Kinoshita, Kazutoshi Yoshitake, Testuhiko Yoshida, Kiyohito Nagai, Yasunori Iwahashi, Fumito Omori, Kaoru Maeyama, Kenji Ono and Shugo Watabe
- P-5 Comparative genomic analysis of red seabream iridovirus (RSIV)-type megalocytivirus isolated from cultured marine fish in Japan  
Channapha Sakseepipad, Reiko Nozaki, Yutaka Fukuda, Hidemasa Kawakami, Ikuo Hirono and Hidehiro Kondo
- P-6 Comprehensive gene expression analysis on gill flukes for identification of vaccine antigen gene  
Yuki Tanabe, Germaine Lau Gek Khin, Satoshi Kawato, Reiko Nozaki, Hidemasa Kawakami, Hidehiro Kondo and Ikuo Hirono
- P-7 Intra-tissue distribution of tetrodotoxin in a newt and pufferfishes by means of the immunoenzymatic method using novel polyclonal antibody  
Rika Kawaura, Shigeru Sato, Masafumi Amano, Naoki Takemura, Nanami Mizusawa and Shugo Watabe
- P-8 Towards the elucidation of the origin of tetrodotoxin (TTX): metagenomic analysis of toxic flatworm  
Ryo Yonezawa, Shiro Itoi, Yoji Igarashi, Kazutoshi Yoshitake, Shigeharu Kinoshita, Haruo Sugita and Shuichi Asakawa
- P-9 The diurational and nutritional dynamics of gut microbiome in the leopard coral grouper *Plectropomus leopardus*  
Miyuki Mekuchi, Taiga Asakura, Tomofumi Yamaguchi, Kenji Sakata, Kazuhisa Teruya and Jun Kikuchi
- P-10 Effect of oxytetracycline on the transfer of antibiotic resistance genes within the zebrafish gut  
Rabeb Teber, Yoji Igarashi, Kazutoshi Yoshitake, Susumu Mitsuyama, Shigeharu Kinoshita and Shuichi Asakawa

- P-11 Metagenomic and metabolomic analyses of squid shiokara, a typical and traditional fermentation seafood in Japan  
Nanami Mizusawa, Daisuke Ouchi, Kanta Nishimura, Toshio Ito, Atsuko Nagaoka, Nobuhiko Ueki, Yoko Matsuoka, Jianrong Wan, Takehiko Yokoyama and Shugo Watabe
- P-12 Metagenomic analysis of environmental DNA extracted from seawater samples of the Ofunato Bay  
Saki Yanagisawa, Nanami Mizusawa, Jonaira Rashid, Atsushi Kobiyama, Yuri Ikeda, Toshiaki Kudo, Yuichiro Yamada, Md. Shaheed Reza, Mitsuru Jimbo, Daisuke Ikeda, Shigeru Sato, Takehiko Ogata, Shinnosuke Kaga, Shiho Watanabe, Kimiaki Naiki, Satoshi Segawa, Yoshimasa Kaga, Kazuho Ikeo, Katsuhiko Mineta, Vladimir Bajic, Takashi Gojobori and Shugo Watabe
- P-13 Bacterial function in the seawater at the Ofunato Bay, Sanriku, by shotgun metagenomic analysis  
Toshiaki Kudo, Md. Shaheed Reza, Atsushi Kobiyama, Jonaira Rashid, Yuri Ikeda, Yuichiro Yamada, Saki Yanagisawa, Kazuho Ikeo, Nanami Mizusawa, Daisuke Ikeda, Shigeru Sato, Takehiko Ogata, Mitsuru Jimbo, Shinnosuke Kaga, Shiho Watanabe, Kimiaki Naiki, Satoshi Segawa, Yoshimasa Kaga, Katsuhiko Mineta, Vladimir Bajic, Takashi Gojobori and Shugo Watabe
- P-14 Seasonal variation of microbial communities in the middle Tama River basin in 2018  
Nanami Mizusawa, Satomi Kuga, Saki Yanagisawa, Mariko Iijima, Maaya Watanabe, Yuichiro Yamada, Md. Shaheed Reza, Atsushi Kobiyama, Yuri Ikeda, Toshiaki Kudo, Daisuke Ikeda, Kazuho Ikeo, Shigeru Sato, Takehiko Ogata, Mitsuru Jimbo, Ko Yasumoto and Shugo Watabe
- P-15 Metagenomic microbial flora analysis on sediment of Ofunato Bay, Iwate Prefecture, Japan  
Yuri Ikeda, Atsushi Kobiyama, Nanami Mizusawa, Jonaira Rashid, Toshiaki Kudo, Yuichiro Yamada, Md. Shaheed Reza, Daisuke Ikeda, Shigeru Sato, Saki Yanagisawa, Takehiko Ogata, Shinnosuke Kaga, Shiho Watanabe, Kimiaki Naiki, Satoshi Segawa, Yoshimasa Kaga, Kazuho Ikeo, Katsuhiko Mineta, Vladimir Bajic, Takashi Gojobori and Shugo Watabe
- P-16 Relationship between quality of calcareous sediments and juvenile corals growth  
Yuko Kunieda, Sayaka Ushigome, Kiyomi Koiso, Natsuki Nakajima, Nanami Mizusawa, Ko Yasumoto, Jun Yasumoto, Mariko Iijima, Mina Yasumoto-Hirose, Haruna Amano, Mitsuru Jimbo and Shugo Watabe
- P-17 Phylogenetic relationships of prokaryotic symbionts in hard coral based on 16S rRNA sequences  
Miki Yuze, Mina Yasumoto-Hirose, Nanami Mizusawa, Ko Yasumoto, Jun Yasumoto, Mariko Iijima, Hiroaki Kasai, Haruna Amano, Mitsuru Jimbo and Shugo Watabe
- P-18 Studies on ecological effect of Labyrinthulids on the carbon cycle in marine environment (Labyrinthulea, Stramenopiles)  
Yoko Hamamoto, Takanori Shono, Ryosuke Nakai, Mayumi Ueda, Satoshi Nagai and Daisuke Honda
- P-19 Effects of acidified seawater on black band disease on the branching coral *Montipora digitata*  
Akira Iguchi, Aika Miyagi, Yuki Yoshioka, Hideyuki Yamashiro, Kazuhiko Sakai and Atsushi Suzuki

- P-20 Potential silencing of gene expression in somatic tissues by piwi interacting RNA (piRNA) in the pearl oyster, *Pinctada fucata*  
Songqian Huang, Yuki Ichikawa, Kazutoshi Yoshitake, Yoji Igarashi, Mariom, Shigeharu Kinoshita, Fumito Omori, Kaoru Maeyama, Kiyohito Nagai, Shugo Watabe and Shuichi Asakawa
- P-21 A model explaining RNA level fluctuations based on activity demands and RNA age  
Zhongneng Xu and Shuichi Asakawa
- P-22 General tendencies of horizontal gene transfer in prokaryotes  
Yoji Nakamura
- P-23 Decoding the mitochondria genome of the sea slug with the ability of kleptoplasty  
Mana Mura, Ryo Yonezawa, Yoji Igarashi, Hisanori Kohtsuka, Kazutoshi Yoshitake, Shigeharu Kinoshita and Shuichi Asakawa
- P-24 Transcriptome analysis of mandibular fats in Risso's dolphin reveals potential candidate genes involved in GO pathways and novel genes  
JDM Senevirathna, Yonezawa Ryo, Saka Taiki, Yogi Igarashi, Kazutoshi Yoshitake, Shigeru Kinoshita, Noriko Funasaka and Shuichi Asakawa
- P-25 Occurrence and distribution of larval and juvenile scombrotoxic fish in the water around the Japanese archipelago  
Hikaru Oyama, Hiroaki Ando, Junichi Kojima, Rei Suo, Noriyuki Takai, Haruo Sugita and Shiro Itoi
- P-26 Pufferfish ingests tetrodotoxin by feeding on toxic egg plates of the flatworm *Planocera multitentaculata*  
Taiki Okabe, Hikaru Oyama, Maho Kashitani, Yuta Ishimaru, Rei Suo, Haruo Sugita and Shiro Itoi