

2014 Annual Meeting Program

Papers to be presented at the 47th Annual Meeting of the Ichthyological Society of Japan at Kanagawa Prefectural Museum of Natural History, November 14-17, 2014

Oral Presentation

(Each presentation has been allowed 15 min, i.e. 12 min for presentation and 3 min for questions; *speaker)

Oral Presentation Room #1 (SEISA Museum Theater, 1st Floor)

November 15 (Saturday)

Ecology, Conservation

- 1 09:30- Male and bisexual life history polymorphisms in anadromous fishes-II: Why does Arctic lamprey adopt a bisexual polymorphism?
Akira GOTO* and Yuji YAMAZAKI
- 2 09:45- Habitat use of alien piscivorous chub establishing in small agricultural ditches
Yoshihisa KURITA*, Norio ONIKURA and Ryutei INUI
- 3 10:00- Reproductive characteristics of *Pseudorasbora* sp. "Ushi-motsugo" under captive condition
Moe MIYANISHI*, Tetsuro KITAGAWA, Yuka ODA and Kazumi HOSOYA
- 4 10:15- Spawning habitat selectivity of Honmoroko in inlets to Nishinoko and Ibanaike Lagoon
Takeshi KIKKO*, Daisuke ISHIZAKI, Yoshitaka KATAOKA and Yoshiaki KAI
- 5 10:30- Ecology of *Lefua echigonia* in the headwaters of the Tatarazawa, Atugi City-2
Hidetaka SUMIKURA* and Naoyuki SUGURO
- 6 10:45- Growth and longevity of the Japanese eight-barbel loach in a small marsh in the Kako River system
Shigeru AOYAMA*, Tomohiro TABATA, Toshio DOI and Jinsuke AKADA

<Break>

<General Meeting of Members, 11:15-12:00 (Room #1)>

<Lecture of the Awardee, 12:00-12:30 (Room #1)>

<Lunch>

<Poster Session Core Time on Odd-Numbered Paper, 13:30-14:30>

Ecology, Conservation

- 7 14:30- Life history of boreal *Noemacheilus barbatulus toni* introduced into a temperate river in Kanagawa, Japan
Rui HATAKEYAMA* and Tadashi KITANO
- 8 14:45- Sexual difference in feeding cycle of *Pangasianodon gigas*: Long-term monitoring in an aquarium
Koki IKEYA*, Jun HATANO, Ryo KUNIZAKI, Ryota NOGUCHI, Akiyo SUDA, Daiki NAKANO, Manabu KUME and Kenichi OHARA
- 9 15:00- Reproductive ecology of Sakhalin taimen (*Hucho perryi*), Salmonidae, in a tributary of Kushiro river, Hokkaido
Eishige KOMIYAMA*

- 10 15:15- The ecology of Kunimasu, *Oncorhynchus kawamurae* in Lake Saiko
Toshihiro AOYAGI*, Takumi OKAZAKI, Hideki OOHAMA and Kosho TANIZAWA
- 11 15:30- Feeding territory and morphological changes of dorsal fin of landlocked Ryukyu-ayu in Okinawa-jima Island
Syo HORIBE* and Katsunori TACHIHARA

<Break>

- 12 16:00- Patterns of sex change in Pomacentridae: protandry, protogyny and reversed sex change
Tetsuo KUWAMURA*, Tatsuru KADOTA and Shohei SUZUKI
- 13 16:15- Reconfirmation of the internal gamete association in *Vellitor centropomus*, Cottidae
Yasunori KOYA*, Naoya MITSUHASHI, Satoshi AWATA and Hiroyuki MUNEHARA
- 14 16:30- The molecular phylogeny and diversity of reproductive characters in *Alcichthys* group, Cottidae
Yoshinori KAAI*, Yasunori KOYA, Satoshi AWATA and Hiroyuki MUNEHARA
- 15 16:45- Utilization of sea squirts and sponges as oviposition site in nine sympatric marine sculpins
Satoshi AWATA*, Tomohito GOTO, Yasunori KOYA, Hirohiko TAKESHIMA, Aya YAMAZAKI and
Hiroyuki MUNEHARA

Oral Presentation Room #1 (SEISA Museum Theater, 1st Floor)

November 16 (Sunday)

Behavior, Ecology, Genetics, Resources

- 16 09:30- Microhabitat use and seasonal appearance pattern of *Pseudogobius masago* at Sashiki tidal flat, Okinawa-jima
Island
Taiga KUNISHIMA* and Katsunori TACHIHARA
- 17 09:45- Mating system of pair and behavior of non-paired fish in the gobiid fish, *Pterotris hanae*
Mizuki KIMURA*, Syu NAKACHI, Masao NAKANO and Izumi AKAGAWA
- 18 10:00- Tracking the spawning migration by an archival tag in Japanese barramundi, *Lates japonicus*
Izumi KINOSHITA* and Yasushi MITSUNAGA
- 19 10:15- Feeding habits of largemouth bass in a reservoir in Gifu Prefecture
Taiga YODO*, Akira NONOME, Hiroaki KITAMURA, Ryota TAKAKURA and Yoshito NAKANISHI
- 20 10:30- Intestinal microbial flora of coral reef scarids
Kohji MABUCHI* and Koji INOUE

<Break>

- 21 11:00- Genetic population structures of three carangid species in the South China Sea
Nozomu MUTO*, Ryo KAKIOKA, Osman MUDA, Sukchai ARNUPAPBOON, Kamolrat
PHUTTHARAKSA, Arnold GAJE, Ramon CRUZ, Ulysses ALAMA, Rex TRAI FALGAR, Ricardo
BABARAN, Hirohiko TAKESHIMA, Hiroyuki MOTOMURA, Fumihito MUTO and Satoshi ISHIKAWA
- 22 11:15- Which is the most effective enhancement method for stream-dwelling masu salmon and red-spotted masu
salmon, fry stocking, eyed-egg stocking and acceleration of reproduction?
Tomoyuki NAKAMURA*

- 23 11:30- Age, growth and maturation of three *Lutjanus* species around Okinawa Island
Katsuya ARAKI* and Katsunori TACHIHARA
- 24 11:45- Population analysis of sailfin sandfish in the Sea of Japan, on the basis of meristic characters
Masanori ODA*, Ryota KOUMOTO and Kunihiro FUJIWARA

<Lunch>

<Poster Session Core Time on Even-Numbered Paper, 13:30-14:30>

Ecology, Genetics, Education

- 25 14:30- Universal primers for environmental DNA from fishes and its analysis using an NGS platform
Masaki MIYA*, Yukuto SATO, Tsukasa FUKUNAGA, Tetsuya SADO, Keiichi SATOH, Toshifumi MINAMOTO, Hiroki YAMANAKA, Hitoshi ARAKI and Wataru IWASAKI
- 26 14:45- Key sites for conservation of threatened fishes in five river systems flowing in the Fukuoka urban area
Norio ONIKURA*, Jun NAKAJIMA, Ryutei INUI and Jun KANETO
- 27 15:00- Report on the status of restoration Japanese eight-barbel loach *Lefua echigonia* in Kawasaki City, Kanagawa Prefecture Ikuta Park Biotope
Aya ENOMOTO* and Naoyuki SUGURO
- 28 15:15- The genetic structure and the estimation of native populations of yamame *Oncorhynchus masou* in Kanagawa prefecture
Hiroaki KANEKO*, Naoyuki SUGURO and Naruo NIKAWA
- 29 15:30- Variation in morphometric characteristics detected from *Orestias luteus* in carachi from Lake Titicaca
Keiichiro IGUCHI*, Masaya SAKODA, Salinee THAMTHAVORNVANICH, Tetsumi TAKAHASHI and Takaharu NATSUMEDA

<Break>

- 30 16:00- Habitat classification of estuarine tidal flat based on gobiid fauna: Focus on the sediment movement and river bed deformation
Ryutei INUI*, Yoshihisa AKAMATSU and Akihiko KOYAMA
- 31 16:15- Distribution and genetic diversity of *Gymnogobius urotaenia* and *G. petschiliensis* around the Kinki district
Hitoshi HARA*, NORIO HIRAI and MINORU ISHII
- 32 16:30- Swimming behavior of sculpin (*Cottus pollux*) and flow characteristics around the weir (2)
Keiko MURAOKA*, Satoru NAKANISHI and Yuichi KAYABA
- 33 16:45- A practice of marine environmental education by using fish transparent specimens
Atsunobu MURASE*, Takashi ISHIMARU, Yoshihiro KASE, Hiroshi KOHNO, Yuki SAITO, Kouji FURUSE and Takayuki MIYAJIMA

Oral Presentation Room #2 (Lecture Room, 1st Floor)

November 15 (Saturday)

Taxonomy, Phylogeny, Genetics

- 34 09:30- Morphological verification of a close relationship of the orders Gadiformes and Zeiformes
Kyoji MOEITA, Hisashi IMAMURA* and Mamoru YABE
- 35 09:45- Taxonomic review of the genus *Encrasicholina* (Engraulidae)
Harutaka HATA* and Hiroyuki MOTOMURA
- 36 10:00- Phylogenetic relationships of the family Congridae and related taxa
Shinta SAKURAI*, Hisashi IMAMURA and Mamoru YABE
- 37 10:15- Morphology, ploidy and genotype of *Carassius*-complex in Lake Kasumigaura
Mikumi TAKADA*, Hirohiko TAKESHIMA, Tappei MISHINA, Shin-ichiro S. MATSUZAKI, Tomiji HAGIWARA, Takahiro MOROSAWA, Kei ichiro IGUCHI, Katsunori TACHIHARA, Katsutoshi WATANABE and Mutsumi NISHIDA
- 38 10:30- Molecular phylogeography of the vulnerable *Rasbora baliensis* (Actinopterygii: Cyprinidae)
Wahyu Endra KUSUMA* and Yoshinori KUMAZAWA
- 39 10:45- Distribution and genetic diversity of dark Chub, *Candidia sieboldii*
Haruka MATSUOKA*, Norio HIRAI and Minoru ISHII

<Break>

<General Meeting of Members, 11:15-12:00 (Room #1)>

<Lecture of the Awardee, 12:00 – 12:30 (Room #1)>

<Lunch>

<Poster Session Core Time on Odd-Numbered Paper, 13:30-14:30>

Taxonomy, Phylogeny, Genetics, Biogeography

- 40 14:30- Morphological difference of *Hemibarbus barbuis* and *H. labeo* in the Lake Biwa-Yodo river system, Japan
Kazuhiro TANAKA* and Kazumi HOSOYA
- 41 14:45- The historical geographical distribution of the botid *Parabotia curtus*, inferred based on ecological niche modeling
Katsutoshi WATANABE*, Tsukasa ABE, Yuichi KANO and Akihisa IWATA
- 42 15:00- Comparative morphology and phylogenetic systematics of the family Ophidiidae and related taxa (Ophidiiformes)
Shinpei OHASHI*
- 43 15:15- Genetic architecture underlying parallel evolution of trophic traits in freshwater stickleback populations: the case of Japanese populations
Yuto SUZUKI*, Seiichi MORI and Tomoyuki KOKITA
- 44 15:30- Phylogenetic relationships of the family Hoplichthyidae (Teleostei: Scorpaeniformes)
Yuki NAGANO*

<Break>

- 45 16:00- Genetic diversity and endemism of Leopard Coralgroup, *Plectropomus leopardus*, in the Ryukyu Islands
Kaoru KURIWA*, Kensuke IWAMOTO, Ryo GOTOH, Yuichi AKITA, Masato UEHAEA, Itaru OHTA,
Akihiko EBISAWA, Katsunori TACHIHARA and Hideyuki IMAI
- 46 16:15- Taxonomic review of the cardinalfish genera *Rhabdamia* and *Verulux* (Apogonidae)
Tomohiro YOSHIDA* and Hiroyuki MOTOMURA
- 47 16:30- Monophyly of the genus *Equulites* (Leiognathidae) and two morphs of *Equulites elongatus*
Hiromu SUZUKI* and Seishi KIMURA
- 48 16:45- Morphological evidence of a close relationship of Caristiidae, Bramidae and Icosteidae
Takafumi KANEKO*, Hisashi IMAMURA and Mamoru YABE

Oral Presentation Room #2 (Lecture Room, 1st Floor)

November 16 (Sunday)

Taxonomy, Phylogeny, Genetics, Biogeography

- 49 09:30- Ichthyological contribution by Francis-Frederik Steenackers who collected fish specimens from the Lake Biwa,
which were described by Sauvage
Yuko TAKIGAWA* and Tetsuo YOSHINO
- 50 09:45- On the fishes collected by H. M. S. Challenger in the "Inland Sea" and Kobé in 1875
Kiyotaka HATOOKA* and So ISHIDA
- 51 10:00- Taxonomic review of the Japanese fishes described by Nyström (1887)
Tetsuo YOSHINO* and Yuko TAKIGAWA
- 52 10:15- Phylogeography on the western Pacific clade of *Dentex* (Sparidae)
Satoru N. CHIBA*, Fumiya TANAKA, Hideyuki IMAI, Stephen J. NEWMAN and Yukio IWATSUKI
- 53 10:30- Systematic taxonomy of Pempheridae based on molecular analyses and comparative reevaluation of
morphological characters
Keita KOEDA*, Tetsuo YOSHINO, Hideyuki IMAI and Katsunori TACHIHARA

<Break>

- 54 11:00- An alternative hypothesis on the phylogenetic position of the family Microcanthidae
Natsuki SUGIHARA*, Hisashi IMAMURA and Mamoru YABE
- 55 11:15- Phylogenetic relationships of the family Polynemidae (Pisces: Perciformes)
Shihua KANG*, Hisashi IMAMURA and Mamoru YABE
- 56 11:30- Taxonomy and morphology of the zoarcoid fish named "Natsushima-choja-genge"
Gento SHINOHARA* and Munehiro TAKAMI
- 57 11:45- Population history of *Petroschmidtia teraoi* infers glacial refugia in the western North Pacific
Kay SAKUMA*, Yuji UEDA, Gento SHINOHARA, Tomonori HAMATSU and Shigeaki KOJIMA

- 58 12:00– Phylogenetic systematics of the family Cyclopteridae (Perciformes: Cottoidei)
Kanami OKU*, Hisashi IMAMURA and Mamoru YABE

<Lunch>

<Poster Session Core Time on Even-Numbered Paper, 13:30-14:30>

Taxonomy, Morphology, Evolution

- 59 14:30– Comparative osteology and myology of the pectoral girdle in Baikalian Cottoid fishes
Yoshiko SASAKI*, Hisashi IMAMURA and Mamoru YABE
- 60 14:45– An undescribed species of the cottid genus *Andriasheviccottus* from off Kumaishi, Hokkaido in the Sea of Japan
Osamu TSURUOKA*, Norihira MIYAKE and Mamoru YABE
- 61 15:00– Record of a chiasmodontid fish *Pseudoscopelus obtusifrons* from Japan
Seishi KIMURA*, Junji YONEZAWA and Marcelo R. S. MELO
- 62 15:15– Review of the *Enneapterygius philippinus* species group (Perciformes: Tripterygiidae)
Satokuni TASHIRO* and Hiroyuki MOTOMURA
- 63 15:30– Diversity of the surface structures of suckers and paired-fin pads in teleostean fishes
Eri KATAYAMA*, Shinpei OHASHI, Fumihito TASHIRO, Gento SHINOHARA, Toshio KAWAI and
Keiichi MATSUURA

<Break>

- 64 16:00– Global patterns of diversification in the evolutionary history of gobioid fishes
Takeshi KON*, Tetsuya SADO, Lukas RUBER, Takashi P. SATOH, Tetsuo YOSHINO, Mutsumi NISHIDA
and Masaki MIYA
- 65 16:15– The pattern of parallel evolution of the freshwater *Rhinogobius* gobies in the Ryukyu Islands
Yo YAMASAKI*, Hirohiko TAKESHIMA, Yuichi KANO, Mutsumi NISHIDA and Katsutoshi WATANABE
- 66 16:30– Male characters of *Engyprosopon mogkii*, and review of the genus *Engyprosopon*
Kunio AMAOKA*
- 67 16:45– Unique scale structures of the rare tetraodontiform fish, *Triodon macropterus*, with comments on opening and
closing system of its large ventral dewlap
Keiichi MATSUURA*, Atsushi KANEKO and Eri KATAYAMA

Poster Presentation

(Core-time: 13:30-14:30 on November 15 for odd-numbered papers and on
November 16 for even-numbered papers; *corresponding author)

- 68 Distribution of retinal ganglion cells in the Japanese nine-spot ratfish, *Hydrolagus barbouri*
Kaori MUGURUMA* and Naoyuki YAMAMOTO

- 69 *Hydrolagus eidolon* (Jordan and Hubbs, 1925), a junior synonym of *Hydrolagus purpureus* (Gilbert, 1905)
(Chimaeriformes: Chimaeridae)
Takuya IWAI*, Toshio KAWAI and Mamoru YABE
- 70 First record of parasites from bluntnose sixgill shark *Hexanchus griseus* in Japan
Akira KURASHIMA*, Toshiya SHIMIZU, Nobuhiro MANO, Kazuo OGAWA and Toshihiko FUJITA
- 71 Morphological differences of three Japanese species of *Dipturus* (Rajiformes: Rajidae)
Ryo MISAWA* and Hiromitsu ENDO
- 72 Habitat preferences of chondrichthyans in Malaysia, Indonesia and Thailand
Masaya KATOH*, Ahmad ALI, DHARMADHI, FAHMI, Chavalit VIDTHAYANON and Annie Lim Pek KHIOK
- 73 Revision of the *Myrophis microchir* species group (Ophichthidae: Myrophinae)
Yusuke HIBINO* and Seishi KIMURA
- 74 Experimental captive breeding and exhibition of live larva of *Engraulis japonicus*
Tetsuo TAKESHIMA*, Toshishige ITOH, Toru SAKURAI, Saki TOMINAGA and Michio YONEDA
- 75 Population structure of *Carassius* fishes in the Japanese Archipelago
Tappei MISHINA*, Mikumi TAKADA, Hirohiko TAKESHIMA, Keiichiro IGUCHI, Mutsumi NISHIDA and Katsutoshi WATANABE
- 76 Current status of the oily bitterling, *Tanakia limbata* in the Naka-ikemi Wetland, Fukui Prefecture
Azusa NAKAMURA*, Tetsuro KITAGAWA, Yuka ODA, Sigeru MASUDA and Kazumi HOSOYA
- 77 Reproductive characteristics of autumn spawner, the "Kanehira" *Acheilognathus rhombeus* by the Schale's method
Tetsuro KITAGAWA*, Yuka ODA and Kazumi HOSOYA
- 78 Population viability analysis for endangered Itasenpara bitterling in the Himi region, Japan
Yuji YAMAZAKI* and Masaki NISHIO
- 79 Diverged host mussel selectivity and genetic variation in reproductive traits of *Acheilognathus* bitterlings
Toshiki HAYASHI*, Junichi KITAMURA, Masaki NISHIO, Daiki TERAUCHI, Koichiro KASAMA and Tomoyuki KOKITA
- 80 Artificial maturation effect of sex hormone for Chinese rosy bitterling *Rhodeus ocellatus ocellatus*
Yuka ODA*, Tetsuro KITAGAWA, Azusa NAKAMURA, Moe MIYANISHI and Kazumi HOSOYA
- 81 Morphological variation and genetic population structure of the cyprinid *Pseudogobio esocinus* in Lake Biwa
Chiharu ENDO*, Koji TOMINAGA, Tappei MISHINA, Yo YAMASAKI, Hirohiko TAKESHIMA and Katsutoshi WATANABE
- 82 The geographical variations of morphological characters in *Lefua* sp., "Nagare-hotoke-dojō"
Taiki ITO*, Kazuhiro TANAKA and Kazumi HOSOYA
- 83 Distribution of *Lefua* sp.1 in relation to environmental characteristics in eastern Ehime streams
Shingo AOKI* and Mikio INOUE

- 84 Food habits and food selectivity of the torrent catfish in tributaries of the Chikuma River System, Nagano Prefecture
Takaharu NATSUMEDA*, Tetsuya TSURUTA, Hirohiko TAKESHIMA, Satoshi AWATA and Keiichiro IGUCHI
- 85 Diet of domestic alien species *Liobagrus reini* and native *Cottus pollux* in the Aki river, Tokyo Metropolis
Hiromu OGAWA*, Osamu KATANO, Masashi YOKOTA and Carlos Augusto STRUSSMANN
- 86 Feeding ecology of the channel catfish *Ictalurus punctatus* in the littoral zone of Lake Kitaura, Ibaraki Prefecture, Japan
Tomoki ENDO*, Seiya KANEKO, IGARI KENTA, Kouki KANO, Ryoji NAKAZATO, Ryohei KAMEI, Seiji USUI and Wataru HYAKUNARI
- 87 Comparative mitogenomics of endemic fishes in Lake Biwa: the sign of natural selection and the adaptation to the lake environment
Ryoichi TABATA*, Hirohiko TAKESHIMA, Shotaro HIRASE, Mutsumi NISHIDA and Katsutoshi WATANABE
- 88 Annual change of fish assemblages in the estuary of the Ano River, Mie Prefecture
Yasutomo NITTA*, Taiga YODO and Motoi YOSHIOKA
- 89 The habitat of fishes in 17 inlets of the Lake Biwa
Daisuke ISHIZAKI*, Takeshi KIKKO, Toshiaki MIZUNO, Takamaru NAGATA and Takuya OKUBO
- 90 Fish assemblage structures in the canal systems around Lake Kasumigaura
Kenta IGARI*, Tomoki ENDO, Kouki KANO and Seiya KANEKO
- 91 A natural history museum as a platform for accumulating verifiable information on non-native fishes: an example of KPM
Yusuke MIYAZAKI*, Atsunobu MURASE and Hiroshi SENOU
- 92 Invasion of *Coreoperca kawamebari* in Minokamo, Gifu, Japan
Takahiko MUKAI*, Taiga YODO and Yoshinori TANIGUCHI
- 93 Current state of genetic introgression by the orange-red commercial variety himedaka on wild medaka populations in Kanto district, Japan
Ryohei NAKAO*, Yuka IGUCHI and Tadao KITAGAWA
- 94 Development of new nuclear DNA marker for detecting the genetic introgression from himedaka to wild medaka populations
Yuka IGUCHI*, Ryohei NAKAO, Keisuke TAKATA and Tadao KITAGAWA
- 95 Ichthyofauna of coastal region of the Nakanoshima Island in the Oki Islands, the Japan Sea
Yu KIKUCHI*, Kenta SUDA, Hisashi IMAMURA and Mamoru YABE
- 96 Preliminary list of ground fishes collected by the bottom trawls from the Sea of Okhotsk off Hokkaido
Akira TOHKAIRIN*, Tomonori HAMATSU, Yoshiaki KAI and Tetsuji NAKABO
- 97 Recovery process of demersal fish assemblage of Moun Bay, Kesenuma, after the earthquake disaster
Kouji NAKAYAMA*, Yoichiro KUMAGAI, Makoto HATAKEYAMA and Masaru TANAKA
- 98 Influence of artificial constructions on fishes at east coast in Okinawa-jima Island
Akio NAKAMURA* and Katsunori TACHIHARA

- 99 A practice of marine environmental education by using Chirimen-monsters
Yuki SAITO*, Takashi ISHIMARU, Chihiro KAKUBARI, Yoshihiro KASE, Hiroshi KOHNO, Naho MIYAZAKI and Akiko YATABE
- 100 Spatial dynamics of Land-locked trout in the whole headwater system -Effect of the local process-
Takahiro OKUYA*, Yawara FUKE, Senri SUEKUNI and Mikio INOUE
- 101 A trial of detection of stocked charr in Chugoku region
Koji FUNO*, Eiji HOSOI and Kazushi SOTA
- 102 Predomination of introduced trout over native charr in the upper Azusa stream, central Japan
Satoshi KITANO*
- 103 Expanding distribution of the invasive brown trout *Salmo trutta* in the Matsumoto region, Nagano
Masayuki YAGYU*, Kenji OTSUKI, Junichi MIMA and Satoshi KITANO
- 104 Distribution patterns of Antarctic myctophid *Electrona antarctica* off Adélie land, East Antarctica
Kentaro FUJII*, Atsushi TANIMURA and Masato MOTTEKI
- 105 Fishes of the genus *Trachipterus* collected from Wakasa Bay, Sea of Japan
Fumihito TASHIRO*, Takashi P SATOH, Keita W. SUZUKI and Keiichi SATO
- 106 Taxonomic status of *Halieutaea stellata* and *H. sp.*
Yoshihiro TAKADA*, Yoshiaki KAI and Naoki YAGISHITA
- 107 Fishes of the genus *Myripristis* (Holocentridae) from southern Kyushu and the Ryukyu Islands
Keisuke EGUCHI* and Hiroyuki MOTOMURA
- 108 Secondary contact of two local populations in the Omono type of ninespine sticklebacks (genus *Pungitius*) within the
Omono River system
Hiroshi TAKAHASHI*, Tetsuya TSURUTA and Akira GOTO
- 109 Comparative morphology among newly and native populations of threespine stickleback after the 2011 Tsunami
Manabu KUME*, Shotaro NISHIDA and Seichi MORI
- 110 Morphology and distribution of three species of *Helicolenus* from the North Pacific (preliminary report)
Akane YOSHIKAWA*, Yoshiaki KAI and Tetsuji NAKABO
- 111 Spawning and Early life history of Hilgendorf's saucord *Helicolenus hilgendorfi* in an aquarium
Ryosuke MIMORI*
- 112 An undescribed species of the genus *Ebosia* (Scorpaenidae: Pteroinae) from the western Indian Ocean
Mizuki MATSUNUMA and Hiroyuki MOTOMURA*
- 113 *Satyrichthys kingeri*, a junior synonym of *Satyrichthys laticeps* (family Peristediidae)
Toshio KAWAI*
- 114 Seasonal variation in the occurrence and feeding of adult *Lateolabrax latus* on a temperate-subtropical rocky shore
Seiji ARAKAKI*, Neil HUTCHINSON and Mutsunori TOKESHI
- 115 Review of the *Lutjanus bengalensis* complex in the genus *Lutjanus* (Lutjanidae)
Kento TSUZAKI*, Fumiya TANAKA and Yukio IWATSUKI

- 116 Taxonomic status of the species *Rhabdosargus haffara* (Sparidae)
Fumiya TANAKA* and Yukio IWATSUKI
- 117 An unidentified species of the genus *Gymnocranius* (Lethrinidae) from Seychelles, the Indian Ocean
Ryohei MIKI*, Fumiya TANAKA and YUKIO IWATSUKI
- 118 Age, growth and maturity of two tide pool damselfishes, *Chrysiptera cyanea* and *C. glauca* in Okinawa-jima Island
Natsumi KAMATA*
- 119 Labridae fishes of Kushimoto, Wakayama
Yoshihiko KOTERA*
- 120 Life history and sex change of *Stethojulis interrupta terina* (Labridae) in Tateyama Bay
Toshiaki SHITAMITSU* and Tomoki SUNOBE
- 121 Morphological characters of the *Hexagrammos* hybrids
Misaki ARATANI and Hiroyuki MUNEHARA*
- 122 AFP activity of cottid fishes distributing from the Arctic to the North Pacific Ocean
Aya YAMAZAKI*, Yuichi HANADA, Sakae TSUDA and Hiroyuki MUNEHARA
- 123 Genetic population structure of *Cottus pollux* on Kyushu Island
Kazuki KANNO*, Yoshihisa KURITA, Norio ONIKURA and Jun NAKAJIMA
- 124 Distinct differences in population structure between sister species with different life histories, amphidromous *Cottus hangiongensis* and fluvial *C. koreanus*
Hideharu TSUKAGOSHI*, Ryota YOKOYAMA and Akira GOTO
- 125 First records of *Dictyosoma tongyeongensis* (Stichaeidae) from Japan
Yoshiaki KAI*, Shinichiro IKEGUCHI, Jin-Koo KIM and Tetsuji NAKABO
- 126 Comments on the systematic position of the zoarcoid fish named "Natsushima-choja-ge"n
Munehiro TAKAMI* and Gento SHINOHARA
- 127 Mate acquisition tactics and reversed sex change of widowed males after removing females of their harems in a sandperch *Parapercis cylindrica*
Keita OGISO*, Tomoki SUNOBE, Shohei SUZUKI and Tetsuo KUWAMURA
- 128 Seasonal changes in goby's utilization of *Upogebia yokoyai* burrows
Yumi HENMI*, Yousuke IWATA and Gyo ITANI
- 129 The freshwater amphidromy of Sicydiinae
Shun WATANABE*, Midori IIDA and Katsumi TSUKAMOTO
- 130 The lateral line system in different developmental stages of *Rhinogobius flumineus*
Masanori NAKAE*, Akira KURASHIMA and Eri KATAYAMA
- 131 Landlocked *Rhinogobius* sp.CO have ability to return amphidromous migration style
Kentaro HIRASHIMA*
- 132 Mating system and juvenile hermaphroditism of *Trimma marinae* (Teleostei: Gobiidae)
Kazuya FUKUDA* and TOMOKI SUNOBE

- 133 Phylogeography of *Apocryptodon punctatus* in Japanese coastal waters
Shoko MATSUI*, Ryutei INUI, Yoh YAMASHITA and Kouji NAKAYAMA
- 134 Notes on retaining red and yellow coloration in preserved fish specimens
Hiroki IWATSUBO* and Hiroyuki MOTOMURA
- 135 Automatic classification of fishes based on morphological traits from images
Yuya SUZUMURA*
- 136 Introduction of Marine Fish Resource Bank of Korea (MFRBK)
Jin-Koo KIM*, Jung-Hwa RYU, Soo-Jeong LEE, Young-Sun SONG, Se-Hun MYOUNG, Seung-Eun BAE,
Hyo-Jae YU, Woo-Jun LEE and Sang-Yun HAN
- 137 Pair formation, home range and habitat shift of blotched foxface *Siganus unimaculatus*
Atsushi NANAMI*
- 138 Sexual dimorphism of two ribbonfishes around Okinawa-jima Island
Shohei KOIZUMI*, Keita KOEDA and Katsunori TACHIHARA
- 139 Identification of tuna bones from the Kajika-zawa Wharf Remains of Yamanashi Prefecture
Fumihito MUTO*, Kuniko HANAMORI, Manabu UETSUKI and Satoshi ISHIKAWA
- 140 Comprehensive phylogenetic analysis of flatfishes based on whole mitochondrial genome sequences
Takashi P. SATOH*, Masaki MIYA and Mutsumi NISHIDA
- 141 Taxonomic review of *Cynoglossus lighti* Norman, 1925 (Cynoglossidae) from Japan
Taiga NAITO* and Hiromitsu ENDO
- 142 Breeding of two species of the Genus *Torquigener*
Takayuki SONOYAMA*, Hiroyuki DOI, Toshiaki ISHIBASHI and Keiichi MATSUURA

Lecture of the Awardee

Room #1 (SEISA Museum Theater) November 15 (Saturday) 12:00 – 12:30

Exploring freshwater fish diversity and habitat environment around East and
Southeast Asia

Yuichi KANO

Symposium

November 17 (Monday)

Oral Presentation Room #2 (Lecture Room, West, 1st Floor)

Amphidromy in fishes: its life-history diversification and evolution

Conveners: Shun WATANABE, Kei'ichiro IGUCHI and Akira GOTO

1. 09:30-09:35 Introduction of the present symposium
Shun WATANABE*
2. 09:35-10:05 Origin and evolution of diadromy
Katsumi TSUKAMOTO*
- [Life-history diversity, distribution and phylogeny of freshwater amphidromous fishes]
3. 10:05-10:25 Variety of amphidromy in *Plecoglossus altivelis*
Tsuguo OTAKE*
4. 10:25-10:45 Migration ecology of amphidromous sculpin (*Cottus* sp. ME) and landlocked sculpin (*Cottus reinii*) in the Lake Biwa water system
Daisuke TAHARA*
5. 10:45-11:05 Evolution of amphidromy and diversification process of the Gobioid fishes
Takeshi KON*

<Short Break>

6. 11:20-11:40 Amphidromous and freshwater resident life histories in *Rhinogobius* fishes in relation to their egg-clutch size
Kentarou HIRASHIMA*
7. 11:40-12:00 Life history evolution in *Gymnogobius* fishes
Shigeo HARADA*
8. 12:00-12:20 Migratory ecology of *Sicyopterus japonicus* and amphidromy in tropical regions
Midori IIDA*
9. 12:20-12:40 Variation of amphidromy: examples from gobioids inhabiting Okinawan streams
Ken MAEDA*, Masashi KONDO, Minoru SAITO, Midori IIDA and Katsunori TACHIHARA

<Lunch Break>

[On the other freshwater amphidromous organisms]

10. 14:00-14:20 Natural history of amphidromous gastropods
Yasunori KANO*
11. 14:20-14:40 Factors contributing to longitudinal distribution formation of amphidromous atyid shrimps
Tatsuo HAMANO*

<Short Break>

[Peculiarity of freshwater amphidromy compared to the other diadromous fish species, and their variations and evolution]

12. 14:55-15:15 Evolutionary process of amphidromy with reference to creation of species diversity in some fish taxonomic groups
Akira GOTO*
13. 15:15-15:35 Differences of freshwater amphidromy in relation to latitudinal variation
Shun WATANABE*
14. 15:35-15:55 Phylogenic constraint on amphidromy and intra-specific variation in life-history characteristics
Kei'ichiro IGUCHI*

[General Discussion]

15. 15:55-16:30 In search of the comprehensive understandings of the characteristics of freshwater amphidromy viewed from the life-history strategy and its evolutionary processes
Chairperson Shun WATANABE

Symposium

November 17 (Monday)

Oral Presentation Room #2 (Lecture Room, East, 1st Floor)

Evolutionary genetic mechanisms of adaptation and speciation in fishes: frontiers of research and future perspective

Conveners: Tomoyuki KOKITA and Katsutoshi WATANABE

1. 09:00–09:05 Introduction of the present symposium
Tomoyuki KOKITA*

Session 1 Methods of linking variation in phenotypes to variation in genotypes

2. 09:05–09:40 Connecting phenotype to genotype: Introduction to linkage mapping and linkage disequilibrium mapping
Kiyoshi KIKUCHI* and Sho HOSOYA

Session 2 Studies of adaptation and speciation in evolutionary model fishes

3. 09:40–10:10 Genetic basis for parallel evolution of “enlarged lip” in cichlids
Masato NIKAIDO*
4. 10:10–10:40 Genetic basis of colour dimorphism in a cichlid species
Tetsumi TAKAHASHI*

<Short Break>

5. 10:50–11:20 The genetic architecture underlying variation in developmental process of sexually dimorphic traits in the Japanese medaka
Maiko KAWAJIRI*
6. 11:20–11:50 Behavioral ecological genomics: evolutionary genetic mechanism of male reproductive strategy in the threespine stickleback
Tomoyuki KOKITA*
7. 11:50–12:20 Variation in DHA production capacity among threespine stickleback populations and its effects on freshwater colonization ability
Asano ISHIKAWA*

<Lunch Break>

8. 13:00–13:30 Molecular mechanisms underlying diverse sex-determining genes in medaka fishes
Yusuke TAKEHANA*
9. 13:30–14:00 Phenotypic and genomic divergence among closely related *Takifugu* pufferfishes
Sho HOSOYA* and Kiyoshi KIKUCHI
10. 14:00–14:30 Genomic islands: the genetic regions responsible for adaptation and speciation
Yohey TERAII*
11. 14:30–15:00 Search for causal genes of hybrid sterility of threespine sticklebacks
Kohta YOSHIDA*

<Short Break>

Session 3 Future perspective of adaptation and speciation studies in model and non-model fishes

12. 15:10-15:35 The endemic fish assemblage in Lake Biwa, an ancient lake in Japan: its origin and adaptive divergence
Katsutoshi WATANABE*
13. 15:35-16:00 Present status of genome sequencing of non-model fishes
Kenji SAITOH*
14. 16:00-16:25 Future perspective of adaptation and speciation research in fishes
Jun KITANO*
15. 16:25-17:00 General Discussion and Comments

Public Symposium

November 17 (Monday)

Oral Presentation Room #1 (SEISA Museum Theater, 1st Floor)

Recent status and problems of invasive alien fishes in Japan: What has changed in the 10 years since the enactment of the Invasive Alien Species Act?

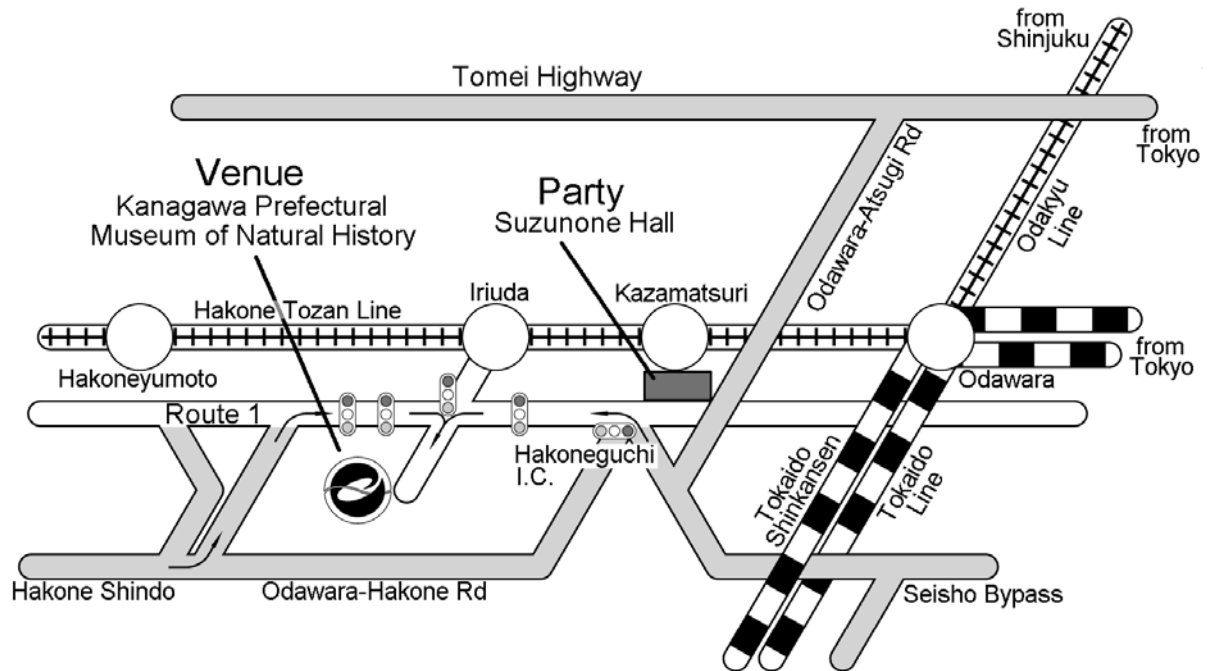
Conveners: Takahiko MUKAI, Taiga YODO, Katsuki NAKAI and Hiroshi SENOU

1. 13:00-13:20 Policy on alien species management in Japan ; toward the Aichi Target
Riichiro TATSUTA*
2. 13:20-13:40 The impact of exotic species introductions on native fish diversity on a national scale
Shin-ichiro MATSUZAKI*
3. 13:40-14:00 Ongoing illegal introductions of an invasive alien fish, Black bass, in Japan
Yusuke MIYAZAKI* and Hiroshi SENOU
4. 14:00-14:20 Expansion of range and increase within populations of Florida largemouth bass in
Japan
Tadao KITAGAWA* and Taiga YODO
- <Short Break>
5. 14:25-14:45 Control project and results of largemouth bass *Micropterus salmoides* in lake
Izunuma-Uchinuma Miyagi, Japan
Yasufumi FUJIMOTO*, Jun ASHIZAWA and Kiyotaka TAKAHASHI
6. 14:45-15:05 Works of alien species control and their results 2 An example for alien fish control in the
Mizoro-ga-ike in Kyoto City, Japan
Yasuhiro TAKEMON* and Kan ABEKURA
7. 15:05-15:25 Attempt to eradicate largemouth bass in three lakes and ponds in Nagano Prefecture
Osamu KATANO*
8. 15:25-15:45 The ecology of the introduced catfish *Ictalurus punctatus* in Lake Kasumigaura, Ibaraki
Prefecture, and its ecological and economic effects
Kazunori ARAYAMA*, Hiromi HANZAWA, Ryohei KAMEI and Kouki KANOU
9. 15:45-16:05 Intentional release and an attempt to countermeasure of mosquitofish (*Gambusia
affinis*) in Tokushima
Yushu TASHIRO*, Yoichi SATO and Yasunori KOZUKI
- <Short Break>
10. 16:10-16:30 Comparison of trout invasion problems between Hokkaido and Honshu regions
Koh HASEGAWA*, Jun-ichi TSUBOI and Takashi NAGASE
11. 16:30-16:50 Problems of domestic alien fishes in Japan

Takahiko MUKAI*

12. 16:50-17:10 Problems and perspectives in controlling alien fishes in Japan
Katsuki NAKAI*
13. 17:10-17:30 General Discussion

Meeting Venue
KANAGAWA PREFECTURAL MUSEUM
OF
NATURAL HISTORY

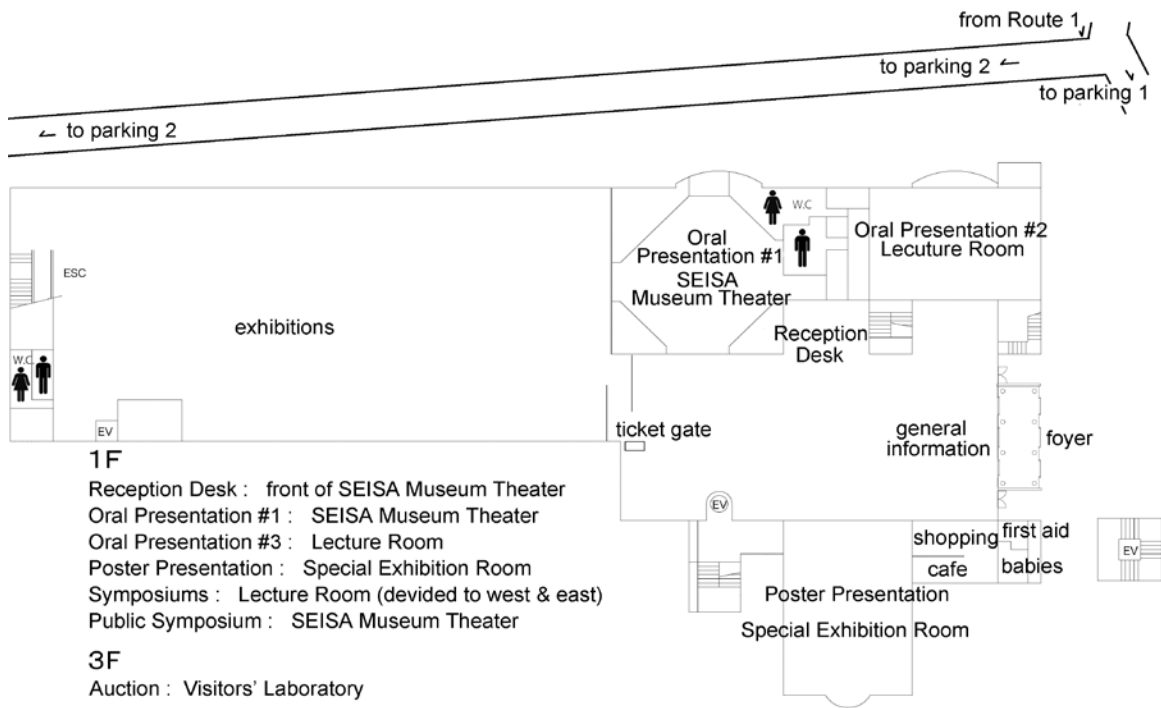


The venue is nearby Iriuda Stn (Hakone Tozan Line).

Party will take place at the Suzunone Hall (next to Kazamatsuri Stn, Hakone Tozan Line).

Floor Information

1st Floor



3rd Floor

