

# 2010 Annual Meeting Program

Papers to be presented at the 43rd Annual Meeting at **Mie Prefecture Fine Arts Center**  
in Tsu, Mie, September 24–26, 2010

## Oral Presentations

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

### Oral Presentation Room # 1 (Gallery II, 2nd Floor)

#### September 24 (Friday)

#### Systematics, Phylogeny, Morphology, Distribution, and Fish Fauna (Chondrichthyes, Anguilliformes, and Cypriniformes)

- 1 9:15– Homology of gill arches in the hexanchiform sharks. Kenta SUDA\*, Kazuhiro NAKAYA, and Mamoru YABE
- 2 9:30– Genetic identification and morphology of six type muraenid leptocephali collected from the western North Pacific. Atsushi TAWA\*, Noritaka MOCHIOKA, Midori KOBAYAKAWA, Ryoichi UTSUMI, and Taku YOSHIMURA
- 3 9:45– Discovery of an ancient eel from the underwater cave in Palau, Micronesia. Masaki MIYA\*, Hitoshi IDA, G. David JOHNSON, Jiro SAKAUE, Tetsuya SADO, and Takashi ASAHIDA
- 4 10:00– Interrelationships of the cyprinid subfamily Cultrinae (Ostariophysi: Cypriniformes). Hiroaki TAKEUCHI\* and Kazumi HOSOYA
- 5 10:15– Morphological differentiation of the gudgeon *Pseudogobio esocinus* species complex. Koji TOMINAGA\* and Katsutoshi WATANABE
- 6 10:30– Divergence of Japanese *Gnathopogon* fishes and their genetic population structure. Ryo KAKIOKA\*, Tomoyuki KOKITA, Seiichi MORI, and Katsutoshi WATANABE
- 7 10:45– Intestinal morphology of the oily bitterling, *Tanakia limbata* (Cyprinidae, Acheilognathinae) and related taxa. Hitomi YAMANO\*, Chi-hong KIM, and Kazumi HOSOYA

<Lunch Break>

#### Systematics, Phylogeny, Molecular Genetics, Distribution, and Fish Fauna (Cypriniformes, Salmoniformes, Gadiformes, and Ophidiiformes)

- 8 14:00– Genetic population structure of the dark chub *Nipponocypris temminckii* in Tokai and Hokuriku districts, based on mitochondrial DNA sequence. Yasushi TANAKA\* and Shingo SEKI
- 9 14:15– Extinction of genetically pure populations of the natural monument loach 'Jindai-Dojo' in Mie Prefecture. Tadao KITAGAWA\*, Ryohei GOTO, Yosuke FUJIMOTO, Shin-ichiro MITSUKOCHI, Takayuki MATSUDA, Satomi YONEHARA, and Yota FUJII
- 10 14:30– Distribution of masu salmon complex around the boundary area. Naomasa KAWASHIMA\* and Hiroyasu GOTO
- 11 14:45– Low genetic differentiation between two geographically separated populations of demersal merlucciid fishes in the Southern Hemisphere. Hirohiko TAKESHIMA\*, Akimasa HATANAKA, Sho-ichi YAMADA, Yuji YAMAZAKI, Ikuo KIMURA, and Mutsumi NISHIDA
- 12 15:00– An undescribed species of the genus *Neobythites* (Ophidiidae) from Tosa Bay, Japan. Shinpei OHASHI\*, Jørgen NIELSEN, and Mamoru YABE

<Short Break>

**Systematics, Morphology, Molecular Genetics (Beloniformes, Scorpaeniformes, and Perciformes)**

- 13 15:30– Genetic analysis on medaka populations in the Yamato River system, Nara Prefecture, using the *Slc45a2* gene mutation responsible for the orange-red variants (himedaka). Koji NAKAI\*, Ryohei NAKAO, Shoji FUKAMACHI, Naoto KOYAMA, and Tadao KITAGAWA
- 14 15:45– Morphological differences between Northern and Southern populations of Medaka, *Oryzias latipes*. Toshinobu ASAI\*, Michihira YASUNAGA, Hiroshi SENOU, and Kazumi HOSOYA
- 15 16:00– An undescribed species of the genus *Pempheris* (Pempheridae) from Okinawa Island and Iriomote Island, Okinawa, Japan. Keita KOEDA\*, Tetsuo YOSHINO, Hideyuki IMAI, and Katsunori TACHIARA
- 16 16:15– Revision of the lionfish genus *Dendrochirus* (Scorpaenidae: Pteroinae). Mizuki MATSUNUMA\* and Hiroyuki MOTOMURA
- 17 16:30– Revision of the peristediid genus *Peristedion* around Japanese waters. Makoto ONO\*, Toshio KAWAI, and Mamoru YABE

**September 25 (Saturday)**

**Systematics and Molecular Genetics (Scorpaeniformes)**

- 18 9:00– Taxonomic study of a platycephalid species of the genus *Platycephalus* collected from Australia. Hisashi IMAMURA
- 19 9:15– Validity of *Hoplichthys regani* (Hoplichthyidae). Yuki NAGANO\*, Hisashi IMAMURA, and Mamoru YABE
- 20 9:30– Undescribed species of genus *Zesticelus* (Cottidae) from deep water off Ibaraki Prefecture, Japan. Ryo INAGAWA\* and Yoji NARIMATSU
- 21 9:45– Is the cottid genus *Alcichthys* monotypic? Tomoyo TADA\*, Fumihito MUTO, Dmitry PITRUK, and Mamoru YABE
- 22 10:00– Genetic characteristics and growth rate of freshwater sculpins population in the Honmyo-River. Keiko MURAOKA\*, Masafumi NAKAYAMA, Yasusi MIYAJIMA, Singo YAMASHITA, and Junji MIWA
- 23 10:15– Phylogenetic relationships of three types of *Cottus pollux* (small-egg, middle-egg and large-egg types), based on mitochondrial DNA and microsatellite DNA. Hideharu TSUKAGOSHI\*, Ryota YOKOYAMA, and Akira GOTO

<Short Break>

**Systematics and Molecular Genetics (Scorpaeniformes and Perciformes)**

- 24 10:45– Adaptive radiation of Baikalian cottoids: molecular phylogeny of *Procottus* fishes. Ryota YOKOYAMA\*, Valentina G. SIDELEVA, Hiroshi TAKAHASHI, Hiroyuki MUNEHARA, Izumi KINOSHITA, and Akira GOTO
- 25 11:00– Review of the family Gerreidae from the Indo-West Pacific with two undescribed species. Yukio IWATUKI\*, Seishi KIMURA, Tetsuo YOSHINO, Pogonoski JOHN, and Last PETER
- 26 11:15– Taxonomic review of the genus *Cheimerius matsubarae* (Sparidae). Fumiya TANAKA\* and Yukio IWATUKI
- 27 11:30– A taxonomic revision of the genus *Chalinochromis* (Perciformes, Cichlidae) from Lake Tanganyika. Fumihito TASHIRO\*, Kazuhiro NAKAYA, and Mamoru YABE
- 28 11:45– A taxonomic revision of *Neolamprologus modestus* species complex (Perciformes, Cichlidae) in Lake Tanganyika. Ryohei OKADA\*, Kazuhiro NAKAYA, and Mamoru YABE

<Lunch Break>

**Systematics, Molecular Genetics, and Distribution (Perciformes)**

- 29 13:30– Geographic color variation of *Chrysiptera cyanea* clarified by population genetic structure. Kensuke IWAMOTO\*, Naoki SAKUGAWA, Chih-wei CHANG, Akihiro TAKEMURA, and Hideyuki IMAI
- 30 13:45– Taxonomic status of pinguipedid *Parapercis elongata* (Perciformes: Pinguipedidae). Tomoyuki YAMANAKA\*, Hisashi IMAMURA, and Tetsuo YOSHINO
- 31 14:00– River-scale factors associated with distribution patterns of *Gymnogobius cylindricus* in the western part of Seto Inland Sea. Ryutei INUI\*, Katsuhisa EGUCHI, Jun NAKAJIMA, and Norio ONIKURA
- 32 14:15– Morphological characters and occurrence patterns of larvae and juveniles of *Gymnogobius taranetzi* and *G. breunigii* collected in Lake Shinji and Nakaumi Lagoon. Toshihiro YOKOO\*, Masahiro HORINOUCI, and Futoshi ARANISHI
- 33 14:30– Taxonomic review of the *Taenioides cirratus* species group found in Japan. Takaki KURITA\* and Tetsuo YOSHINO
- 34 14:45– An undescribed species of the genus *Stiphodon* from the Ryukyu Archipelago. Ken MAEDA\*, Nozomi YAMASAKI, and Katsunori TACHIHARA

<Short Break>

**Systematics, Molecular Genetics, and Distribution (Perciformes, Pleuronectiformes, Tetraodontiformes, etc.)**

- 35 15:15– Comparison of morphology between fossil tuna cranium and extant tuna species. Akiko NAGATA\*, Takashi KITAGAWA, Takeshi KON, Teruya UYENO, and Shingo KIMURA
- 36 15:30– Review of *Samariscus* (Samaridae) collected from off New Caledonia. Kunio AMAOKA\* and Toshio KAWAI
- 37 15:45– Intra-generic relationships of seven species of *Lagocephalus* puffers based on AFLP and mtDNA sequence analyses. Hiroyuki MIYOSHI, Hiroshi TAKAHASHI, Harumi SAKAI\*, Hiroyuki DOI, Noritaka MOCHIOKA, Midori KOBAYAKAWA, Shigeru SATO, Takashi SATO, and Keiichi MATSUURA
- 38 16:00– Taxonomic review of the south and southeast Asian freshwater puffer, *Tetraodon cutcutia* (Tetraodontiformes: Tetraodontidae). Prachya MUSIKASINTHORN
- 39 16:15– Molecular genetic study on the origin of endemic fishes in Lake Biwa. Ryouichi TABATA\*, Takefumi KOMIYA, Ryo KAKIOKA, and Katsutoshi WATANABE
- 40 16:30– Rockpool fish assemblage structure in southwestern coast of Yaku-shima Island, northwestern Pacific. Atsunobu MURASE\* and Tomoki SUNOBE
- 41 16:45– Materials used for descriptions of Japanese fishes in the Histoire Naturelle des Poissons by Cuvier and Valenciennes. Yuko TAKIGAWA\* and Tetsuo YOSHINO

**Oral Presentation Room # 2 (Small Hall, Basement)**

**September 24 (Friday)**

**Conservation**

- 42 9:15– Genetic status of Ryukyu-ayu on the Amami-oshima Island. Kei'ichiro IGUCHI\*, Hirohiko TAKESHIMA, and Mutsumi NISHIDA
- 43 9:30– Genetic population structure of endangered spot-ear brook perch, *Coreoperca kawamebari*, in Tokushima Prefecture inferred by mitochondrial DNA sequence analysis. Takaaki SHIMIZU\*, Yoichi SATO, and Motohiro TAKAGI

- 44 9:45– Establishment of brown trout in the Odori River of the Jinzu River basin, Gifu Prefecture. Daisuke ISHIZAKI\*, Yoshinori TANIGUCHI, and Taiga YODO
- 45 10:00– The appearance patterns and the spawning habitat of domestic alien species, *Opsariichthys uncirostris uncirostris* inhabiting dams in Kyushu Island, Japan. Takashi IHARA\*, Ryutei INUI, Takeshi OHATA, and Norio ONIKURA
- 46 10:15– Extermination method of invasive alien fish, bluegill *Lepomis macrochirus* by conducting water level drawdown of reservoirs controlled by dams. Tomonori OSUGI\*, Yoichi IWAMI, Kazumasa KUMAZAWA, Wataru KOKETSU, and Shigekazu NAKAZAWA
- 47 10:30– Invasion of *Rhinogobius flumineus* to two streams in southern Mie Prefecture and its influence to native *Rhinogobius* gobies. Taiga YODO\*, Tatsuya SATO, Daisuke ISHIZAKI, and Masanori KOHARA
- 48 10:45– Artificial fertilizations of the endangered freshwater fish in Hokkaido, Japan. Hajime MATSUBARA\*, Yuki KUBARA, Daisuke IWATA, Masaharu SHIMIZU, Takamasa SUZUKI, Takuma KAWASAKI, Hiroka YOSHIKAWA, Takuto IMAI, Yoshifumi HORIE, Ayaka CHIBA, Masaki ICHIMURA, and Shigeru SHIRAI

<Lunch Break>

### Ecology and Conservation

- 49 14:00– Occurrence pattern of larvae and juvenile Itasenpara bitterling *Acheilognathus longipinnis* in a lowland reach of reservoirs along the Moo River in Himi, Toyama, Japan. Masaki NISHIO\*, Yuji YAMAZAKI, and Kaneaki EDO
- 50 14:15– Response of the parasitic cyprinid *Pungtungia herzi* to an introduced host species, *Coreoperca kawamebari*. Hideyuki YAMANE\*, Shuhei UMEDA, Koji TOMINAGA, and Katsutoshi WATANABE
- 51 14:30– Seasonal development of gonads of the endangered ‘ezo’ eight-barbell loach. Takamasa SUZUKI\*, Hajime MATUBARA, Masaharu SHIMIZU, Takuma KAWASAKI, Hiroka YOSHIKAWA, Takuto IMAI, Yuki KUBARA, Daisuke IWATA, and Shigeru SHIRAI
- 52 14:45– Environmentally related variations in reproductive traits of nonnative guppy, *Poecilia reticulata* on Okinawa-jima Island. Satoshi SHIOMI\* and Katsunori TACHIARA
- 53 15:00– Why does not Biwa salmon have the introgression from Amago salmon in Lake Biwa? Masayuki KUWAHARA\*, Kei'ichiro IGUCHI, Hiroshi TAKAHASHI, Takeshi KIKKO, and Seiji KURUMI

<Short Break>

### Ecology

- 54 15:30– Relationship between male reproductive characters and reproductive mode in Cottidae. Yasunori KOYA\*, Youichi HAYAKAWA, Takuzou ABE, Alexander MARKEVICH, Mamoru YABE, and Hiroyuki MUNEHARA
- 55 15:45– Spawning biology of *Cyclopteroopsis bergi*. Takuzo ABE\* and Toshifumi WADA
- 56 16:00– Reversed sex change of divorced males: field experiments on polygynous and protogynous fishes. Tetsuo KUWAMURA\*, Taturu KADOTA, and Shohei SUZUKI
- 57 16:15– Age, growth and maturity of *Terapon jarbua* around Okinawa-jima Island. Masaya YOSHIDA\* and Katsunori TACHIARA
- 58 16:30– Reproductive biology of the amphidromous goby *Sicyopterus japonicus* in the Ota River, Wakayama. Midori IIDA\*, Shun WATANABE, and Katsumi TSUKAMOTO

## September 25 (Saturday)

### Ecology and Ethology

- 59 9:00– The feeding strategy of the megamouth shark predicted by its hyoid arch: A biomechanical approach. Taketeru TOMITA\*, Keiichi SATO, Kenta SUDA, Junro KAWAUCHI, and Kazuhiro NAKAYA

- 60 9:15– Feeding behavior of Goblin Shark, *Mitsukurina owstoni*. Kazuhiro NAKAYA\*, Kenta SUDA, Makoto OHNO, Toshihiko SATO, and Katsuhiko TAKANO
- 61 9:30– Feeding territory and variations in behavior patterns of the Ryukyu-ayu in subtropical streams. Satoshi AWATA\*, Tetsuya TSURUTA, Shin-ichiro ABE, Yasuji TAMAKI, and Kei'ichiro IGUCHI
- 62 9:45– Observation of bioluminescence of *Chlorophthalmus borealis* in captivity. Chiharu FUJII\*, Shinya YAMAUTI, and Toshiro SARUWATARI
- 63 10:00– Underwater observations of the rare tetraodontiform fish, *Triodon macropetrus*. Keiichi MATSUURA\* and Atsushi KANEKO
- 64 10:15– Diversification of behavioral traits in the Japanese threespine stickleback: comparison among inter- and intra-ecotypes in the Pacific Ocean form. Tomoyuki KOKITA\*, Ayumi ISHIKAWA, and Seiichi MORI

<Short Break>

#### Ecology and Ethology

- 65 10:45– Swimming ability and behavior of gobioid larvae. Masashi KONDO\*, Ken MAEDA, Nozomi YAMASAKI, and Katsunori TACHIARA
- 66 11:00– Developmental change of retinal ganglion cell topography in bluegill regarding their feeding habits. Yuuki GOMI\*, Taeko MIYAZAKI, and Kouichi KAWAMURA
- 67 11:15– Stomach content analysis of Lancetfish, *Alepisaurus ferox*, around Okinawa Islands. Misaki YAMAUCHI\*, Kotaro YOKAWA, Yukio TAKEUCHI, and Katsunori TACHIARA
- 68 11:30– Environmental factors of streams where early foods of white-spotted charr and masu salmon are abundant. Tomoyuki NAKAMURA
- 69 11:45– Stable nitrogen isotope ratio of fish mucus: its fractionation, turnover, and applications. Atsushi MARUYAMA\*, Hiroyuki SHIMONAKA, and Takuya ITOU

<Lunch Break>

#### Ecology, Conservation, and Population Dynamics

- 70 13:30– Estimating microhabitats of cichlid fishes by diatom species composition in their stomachs. Kohei SHINOHARA\*, Atsushi MARUYAMA, and Taisuke OTSUKA
- 71 13:45– Food habit of young Pacific bluefin tuna *Thunnus orientalis* around Japan. Tamaki SHIMOSE\*, Hikaru WATANABE, Toshiyuki TANABE, and Tsunemi KUBODERA
- 72 14:00– Ecology of *Lefua echigonia* and biota in Yato pond. Naoyuki SUGURO\* and Kazumi HOSOYA
- 73 14:15– Habitats of the *Acentrogobius* species complex. Shoko MATSUI\*, Ryutei INUI, Masahiro UENO, and Yoh YAMASHITA
- 74 14:30– Fluctuation factor of natural resource of amphidromous ayu in the Sagami River. Shozo TAKAMURA
- 75 14:45– A comparison of the life history and population dynamics of Golden venus chub *Hemigrammocypripis rasborella* between canals and irrigation ponds. Noriyasu SUZUKI\*, Emi HATAKEYAMA, and Yasushi HARADA

<Short Break>

#### Ecology

- 76 15:15– Growth difference between native and stocked ayu in the Nagara River. Shizuo AINO\*, Taiga YODO, and Motoi YOSHIOKA
- 77 15:30– Fs-LA-ICP-MS measurement of otolith Sr:Ca and Ba:Ca composition reveal differential use of freshwater habitats for three amphidromous *Sicyopterus* species. Clara LORD\*, Hélène TABOURET, Christophe PECHEYRAN, Philippe KEITH, and Katsumi TSUKAMOTO

- 78 15:45– A parasitological approach to fish migration: a case study in Japanese eels. Hirotaka KATAHIRA\*, Kouki MIZUNO, Tetsuya UMINO, and Kazuya NAGASAWA
- 79 16:00– Presence of shelter and competitor reduces metabolic costs of fishes. Shin-ichiro MATSUZAKI\*, Masaki SAKAMOTO, and Noriko TAKAMURA
- 80 16:15– Six-year effects of bluegill on the population of two native fishes in experimental ponds. Osamu KATANO\*, Tomoyuki NAKAMURA, and Shoichiro YAMAMOTO
- 81 16:30– Cascading effect by exotic piscivore fish for farm pond fish assemblage. Shun WATANABE\* and Nobuyuki AZUMA

## Poster Presentations

(Core-time: 13:00–14:00 on September 24 for even-numbered papers and on September 25 for odd-numbered papers; \*corresponding author)

### Poster Presentation Room (Gallery I, 2nd Floor)

- 82 An undescribed species of the genus *Apristurus* (Carcharhiniformes: Scyliorhinidae) collected from Somalia, the Indian Ocean. Junro KAWAUCHI\*, Kazuhiro NAKAYA, and Mamoru YABE
- 83 Presence of the sperm in uterus and oviducal gland in *Sphyrna zygaena*. Rui MATSUMOTO\*, Minoru TODA, and Senzo UCHIDA
- 84 An undescribed species of the genus *Bathyraja* (Rajidae) collected from off Ibaraki Prefecture, Japan. Satoshi OKUNO\*, Kazuhiro NAKAYA, and Mamoru YABE
- 85 An undescribed species of “*Albula argentea* complex” (Albuliformes: Albulidae) in the East Asia. Koichi HIDAKA\* and Yukio IWATSUKI
- 86 Osteology of cyprinid fish, *Zacco platypus*, *Nipponocypris temminckii* and *N. sieboldii*. Shinya MIYATA\*, Yoshitaka YABUMOTO, and Hiromichi HIRANO
- 87 Distribution pattern of *Acheilognathus cyanostigma* in Midori River System, northern Kyushu Island, Japan. Takeshi OHATA\*, Haruhiko OURA, Ryutei INUI, Jun NAKAJIMA, and Norio ONIKURA
- 88 Comparative transcriptomics of a *Gnathopogon* species pair to detect genes involved in adaptation to the Lake Biwa environments. Hiroki KUMADA\*, Noboru OKUDA, and Tomoyuki KOKITA
- 89 Phylogeography of the Chinese false gudgeon, *Abbottina rivularis*, in Japan and adjacent area, with implication on artificial disturbance. Nian-Hong JANG-LIAW\*, Koji TOMINAGA, Chungung ZHANG, Yahui ZHAO, Jun NAKAJIMA, Norio ONIKURA, Sang-rin JEON, and Katsutoshi WATANABE
- 90 Mitochondrial phylogenomics of the Balitorinae (Balitoridae). Tetsuya SADO\*, Kenji SAITOH, Mutsumi NISHIDA, and Masaki MIYA
- 91 Structure and effective size of *Parabotia curta* populations. Katsutoshi WATANABE\*, Tsukasa ABE, and Akihisa IWATA
- 92 An undescribed *Glossanodon* species collected from Tosa Bay, southern Japan (Argentinidae). Hiromitsu ENDO\* and Kazuya NASHIDA
- 93 Introduced white-spotted charr (*Salvelinus leucomaenis*) in upper streams of different rivers, Kyushu Island and two locations of possible natural distribution of the species from Kyushu and Shikoku Islands, Japan. Megumi KAWAKAMI\*, Yukio IWATSUKI, and Shingo SEKI
- 94 An undescribed *Diaphus* species from Kyushu–Palau Ridge and Tosa Bay (Myctophidae). Ryotaro KIYOSAWA\* and Hiromitsu ENDO

- 95 First records of two ophidid fishes, *Bassozetus glutinosus* and *B. robustus* (Ophidiiformes: Ophidiidae), collected from Suruga Bay, Japan. Munehiro TAKAMI\*, Shinichi TOMIYAMA, and Atsushi FUKUI
- 96 Characterization of cross-order microsatellite markers in Acanthopterygii. Ryo O. GOTOH\*, Satoshi TAMATE C., and Naoto HANZAWA
- 97 Records of three pipefishes and a seahorse collected from Kochi Prefecture. Yohko TAKATA\*, Eri KATAYAMA, Yasuko MATSUNO, and Hiromitsu ENDO
- 98 Morphological comparison between *Sebastes vulpes* and *S. zonatus* from Miyako, Iwate Prefecture, Japan. Nozomu MUTO\*, Yoshiaki KAI, Tsutomu NODA, and Tetsuji NAKABO
- 99 *Inimicus cirrhosus* McKay, 1964: a valid stonefish (Synanceiidae) from Australia. Gota OGIHARA\* and Hiroyuki MOTOMURA
- 100 An undescribed species of the genus *Lepidotrigla* (Triglidae) collected from the East China Sea. Akihiro ONO\*, Toshio KAWAI, and Mamoru YABE
- 101 *Peristedium indicum* Brauer, 1906, a junior synonym of *Paraheminodus murrayi* (Günther, 1880). Toshio KAWAI
- 102 The difference of inheritance patterns between wild hybrids and artificial hybrids of *Hexagrammos*. Miho HORITA\*, Motoko KIMURA, and Hiroyuki MUNEHARA
- 103 Genetic diversity and population structure of the fourspine sculpin, *Cottus kazika* based on mitochondrial DNA control region. Naoya ISHIGURO\*, Tsuyoshi MIZUNO, and Daisuke TAHARA
- 104 Phylogenetic and evolutionary studies of the liparids based on the complete mtDNA sequences. Takashi P. SATOH\*, Masaki MIYA, Tetsuya SADO, Peter R. MØLLER, James W. ORR, and Mutsumi NISHIDA
- 105 Validity of the serranid fish *Aulacocephalus schlegelii* Günther, 1859. Teguh PERISTIWADY, Seishi KIMURA\*, and James MACLAINE
- 106 Phylogeography of *Coreoperca kawamebari* inferred from mtDNA and AFLP markers. Hiroshi TAKAHASHI\*, Tomoaki SUGITA, and Katsutoshi WATANABE
- 107 An undescribed species of the genus *Rhabdamia* (Apogonidae) from Kagoshima Prefecture, southern Japan. Tomohiro YOSHIDA\*, Kohji MABUCHI, and Hiroyuki MOTOMURA
- 108 Molecular phylogeny of the cardinalfishes (Apogonidae) and non-monophyly of *Apogon* sensu lato. Kohji MABUCHI\*, Thomas FRASER, Yoichiro AZUMA, and Mutsumi NISHIDA
- 109 Structure of myostatin gene promoter regions in sea breams. Eman ABBAS\*, Atsushi TAKAYANAGI, Nobuyoshi SHIMIZU, and Mikio KATO
- 110 An undescribed species of the genus *Upeneus* (Mullidae) from southern Japan. Masahiro YAMASHITA\*, Daniel GOLANI, and Hiroyuki MOTOMURA
- 111 Two species of *Parupeneus* fishes collected from Hyuga Nada. Ayumi YAMANE\* and Yukio IWATSUKI
- 112 Relationships and morphological characters of the family Trichonotidae. Eri KATAYAMA\*, Takashi SATOH, and Hiromitsu ENDO
- 113 Morphology of a shallow-water eelpout, *Hadropareia middendorffii* Schmidt, 1904 (Perciformes: Zoarcidae). Gento SHINOHARA\* and Mikhail NAZARKIN
- 114 Osteology of a zoarcid fish, *Lycenchelys tohokuensis*. Mutsumi YAMAMOTO\*, Hisashi IMAMURA, and Mamoru YABE
- 115 Taxonomy of *Lycodes teraoi* Katayama, 1943 (Pisces: Zoarcidae) with a comment on its systematic position. Mikhail NAZARKIN\* and Gento SHINOHARA
- 116 Larvae and juveniles of *Chiasmodontidae* collected from Western and Central Pacific. Kazuyuki BAN\*, Atsushi FUKUI, and Seinen CHOW

- 117 Comparative morphology of the infraorbitals of the family Uranoscopidae. Vilasri VEERA\*, Hisashi IMAMURA, and Mamoru YABE
- 118 The lateral line system and its innervation in four species of two gobiid subfamilies. Ryu ASAOA\* and Kunio SASAKI
- 119 Diversity of adhesive apparatus on the eggs in the gobioid genus *Schindleria*. Masako HARA\*, Takeshi KON, Shigeo NAKAMURA, and Mutsumi NISHIDA
- 120 Distribution and Habitat of *Siphonogobius nua* in Shizuoka Prefecture. Kazuki ARAO\*, Yoshiro KITAHARA, and Hiroaki MORIGUCHI
- 121 Cryptic species of the gobioid genus *Kraemeria* from Japan and Palau. Takeshi KON\*, Jiro SAKAUE, and Toshiyuki SUZUKI
- 122 Genetic population structures of *Gymnogobius castaneus* in Shonai District, Yamagata Prefecture. Satoru N. CHIBA\*, Ryosuke KAKEHASHI, Yasuyuki SUZUKI, and Naoto HANZAWA
- 123 Comparisons of skeletal and muscular systems in some scombrid fishes. Masanori NAKAE\*, Gento SHINOHARA, Keiichi MATSUURA, and Kunio SASAKI
- 124 A first Japanese record of *Crossorhombus valderostratus* (Bothidae) from Kagoshima Prefecture, southern Japan. Yuta OHASHI\*, Akihiko SHINOMIYA, Masahide ITOU, and Hiroyuki MOTOMURA
- 125 An undescribed species genus *Cynoglossus* (Cynoglossidae) collected from the Malacca Strait. Taichi NAGAO\*, Hisashi IMAMURA, and Mamoru YABE
- 126 Genetic characterization of the interspecific hybrid among porcupine fish (genus *Chilomycterus*) as inferred from AFLP and mtDNA sequence analyses. Hiroyuki DOI, Kenta TAMAI\*, Yutaro ZENKE, Hiroshi TAKAHASHI, Harumi SAKAI, and Toshiaki ISHIBASHI
- 127 Genuine freshwater fish fauna in irrigation canals in northern Kyushu Island, Japan. Norio ONIKURA\*, Jun NAKAJIMA, Takahiko MUKAI, and Shinji FUKUDA
- 128 Fish fauna of the south western part of Sea of Japan. Yoshiaki KAI\* and Tetsuji NAKABO
- 129 Larval and juvenile fish fauna in surf zones of western Ise Bay. Masanori KOHARA\*, Kingo TSUMOTO, Taiga YODO, and Motoi YOSHIOKA
- 130 Evaluation of accuracy for estimated population size with the variation of species and size. Minoru KANAIWA\*, Atsumi NAKANO, and Atsuya YAMAMOTO
- 131 The analysis of environmental factors determining fish habitat preferences in upstream of Abashiri River. Kouta TABATA\*, Minoru KANAIWA, and Atsuya YAMAMOTO
- 132 Marine fishes newly confirmed in Oita Prefecture coast. Kazuo HOSHINO\*, Atsushi ISHIDA, and Jun'ya TATSUKAWA
- 133 The Kuromatsunai lowland fault zone as a dispersal barrier to freshwater fishes. Yusuke MIYAZAKI\*, Akira TERUI, Nobuo HATAI, Hitoshi SAITOH, Kousei TAKAHASHI, and Izumi WASHITANI
- 134 Occurrence and morphological development of larvae and juveniles in *Nematalosa come* – “fresh fish” on the dining table in Okinawa Prefecture. Masato UEHARA (HORI)\* and Katsunori TACHIHARA
- 135 Distribution and stream environment of Masou Salmon juvenile in the stream. Yuki TANAKA\*, Jun ASHIZAWA, and Takashi MARUYAMA
- 136 Differences in the occurrence patterns between two *Mola* species off Sanriku, and their relationships with sea surface temperature. Etsuro SAWAI\*, Yusuke YAMANOUE, Yoichi SAKAI, and Hiroaki HASHIMOTO
- 137 Using carbon and nitrogen stable isotope ratio and trace elements to estimate the fish migration in agricultural ditch. Naoki KOSEKI\*, Izumi WATANABE, and Nobuyuki AZUMA
- 138 Stable isotope ratios reveal moving behavior of a landlocked sculpin in the Lake Biwa. Shinpei KAWATA, Daisuke TAHARA\*, and Atsushi MARUYAMA



- 139 A study on behavior of cat fish *Silurus asotus* in a stream of consolidated farmland using biotelemetry. Akira MORI\*, Yutaka YOSHIDA, Masakazu MIZUTANI, and Akira GOTO
- 140 Locomotive activity of diadromous and estuarine water fishes around Kozono Weir in Isuzu River, Miyazaki Prefecture. Shimon KAI\* and Takeshi KANDA
- 141 Benefits of sluice gate opening to migratory fishes at the Pak Mun Dam constructed in a tributary of the Mekong River. Pisit PHOMIKONG\*, Michio FUKUSHIMA, and Tuantong JUTAGATE
- 142 Migration ecology of Siamese mud carp, Cyprinidae, in the Mekong River. Michio FUKUSHIMA\*, Tuantong JUTAGATE, Chaiwut GRUDPAN, and Seichi NOHARA
- 143 Food habits of fishes in seagrass habitats in Trang, southern Thailand. Masahiro HORINOUCI\*, Prasert TONGNUNUI, Kusuto NANJO, Yukinori NAKANE, Yohei NAKAMURA, Kouki KANOU, Atsuko YAMAGUCHI, Ken OKAMOTO, and Mitsuhiko SANO
- 144 Serious damage to the stone flounder population caused by its food, Asari clam, shortage on the juvenile's nursery ground of Suo-nada Sea in the Seto Inland Sea, Japan. Toshihiro SHIGETA\*, Hironori USUKI, Motoharu UCHIDA, and Tatsuo MIYOSHI
- 145 Finding about *Carapus mourlani* and *Encheliophis boraborensis* by the X-rays photography. Takayuki SONOYAMA\*, Hideaki SHINDO, Daisuke TOKUDA, Hiroyuki DOI, and Toshiaki ISHIBASHI
- 146 Rearing and spawning of the deep-sea fish *Malacocottus gibber*. Yusuke TSURUWAKA\*, Yoshifumi YAJIMA, Yukari OHTA, and Yuji HATADA
- 147 Contributions of on-site reproduction, immigration from upper reach and eyed egg plantation to a population of amago salmon *Oncorhynchus masou ishikawae*. Tomoya TERAOKA\*, Tomohiko KAWABE, Yoshinaka MIZUNO, Hideyuki YAMADA, Takuya SATO, and Yasushi HARADA
- 148 Occurrence patterns of fishes and crustaceans in constructed salt-marsh pools. Kouki KANOU\*, Satoko NAKAYAMA, Masanori TARU, Takeshi YUHARA, Daisuke OKAZAKI, Hiroshi KOHNO, and Hikari KOBAYASHI
- 149 The invasion mechanism of competitively subordinate nonnative brown trout. Koh HASEGAWA\*, Chitose YAMAZAKI, Kazumasa OHKUMA, and Masatoshi BAN
- 150 Artificial microhabitat selection of eel *Anguilla japonica* in rearing experiments. Tomonari INOUE\*, Hirohumi GOTO, Sayaka TATENO, and Izumi AKAGAWA
- 151 What kind of males establish the territory in *Hypoptychus dybowskii*? - fed or non-fed -. Hideki NARITA\* and Izumi AKAGAWA
- 152 Temperature-dependent growth and survival rates in Japanese fluvial sculpin, *Cottus pollux*. Hiroko MURAMOTO\*, Sinobu ITOH, and Nobuyuki AZUMA
- 153 The respiration method of the Bullhead Shark *Heterodontus japonicus*: does the Bullhead Shark respire through its nose? Minoru TODA\*, Keiichi UEDA, and Senzo UCHIDA
- 154 Is there advantageous in adopting optimal clutch size in Isaza (*Gymnogobius isaza*)? Omar MYINT\* and Masanori KOHDA
- 155 Spawning period and egg size variation of honnmoroko *Gnathopogon caeruleus* in Lake Biwa and its satellite lake, Iba Naiko. Takeshi KIKKO\*, Jin SAEGUSA, Takahiro USUKI, Yasuhiro FUJIOKA, and Yoshiaki KAI
- 156 Breeding ecology and history of life of scarce freshwater fish *Acheilognathus typus* (Cyprinidae). Akiko MATSUI\* and Jyunichi KITAMURA
- 157 Food resource use of the freshwater perch *Coreoperca kawamebari*. Shuhei UMEDA\* and Katsutoshi WATANABE
- 158 Variation in the food selectivity of Japanese fluvial sculpin between tributaries within a water system. Takaharu NATSUMEDA\*, Tetsuya TSURUTA, Hirohiko TAKESHIMA, Satoshi AWATA, and Kei'ichiro IGUCHI

- 159 Habitat-utilization patterns of larvae and juveniles of the goby, *Tridentiger brevispinis*, in the littoral zones of Lake Kitaura. Wataru HYAKUNARI\*, Seiji USUI, Kouki KANO, Ryoji NAKAZATO, and Kazunori ARAYAMA
- 160 Habitat environment and conservation of the endangered freshwater species of *Luciogobius*. Naoyuki KANAGAWA\*, Yasuhiro KOKURYO, and Takahiko ITAI
- 161 Reduction of habitat area of *Pseudobagrus aurantiacus* in the Uranomyo River, Miyazaki Prefecture. Takesi KANDA, Ryosuke FUKUOKA\*, and Syota KANMERA
- 162 Characteristics of spawning bed of Arctic lamprey *Lethenteron japonicum* in the Ishikari River: Depth-dependent selection and suggestions for their conservation. Hokuto SHIRAKAWA\*, Seiji YANAI, and Akira GOTO
- 163 Large scale spatial patterns in bitterling species composition. Takahiro MOROSAWA
- 164 The distribution and abundance of Golden venus chub *Hemigrammocypripis rasborella* in a catchment of Suzuka River water system, and the planning of its re-introduction. Atsushi UENO\*, Noriyasu SUZUKI, and Yashushi HARADA
- 165 Effectiveness of paddy field as an initial growth environment for larvae and juvenile honnmoroko *Gnathopogon caeruleus*. Takeshi KIKKO, Morihito NEMOTO\*, Jin SAEGUSA, Yasuhiro FUJIOKA, and Yoshiaki KAI
- 166 Comparing *Misgurnus anguillicaudatus* population's utilization situation at 4 types paddies that farming methods are different. Kota TAWA\*, Kosuke NAKANISHI, Daisuke MURAKAMI, Kana NISHIJIMA, Baku KANBARA, Shigefumi KANAO, and Hiroichi SAWADA
- 167 Effects of environmental factors on winter fish assemblages in the backwaters of the Kiso River, central Japan. Manabu KUME\*, Junjiro NEGISHI, Shiro SAGAWA, Tetsuya MIYASHITA, Shigeyuki AOKI, Tetsuji OHMORI, Seiji SANADA, and Yuichi KAYABA
- 168 Fish fauna of "Yurikago-Suiden " when midseason drainage in Shiga Prefecture. Shigefumi KANAO\*, Toshinori FUNAO, Kouta TAWA, Toshiyuki HAZAMA, Akihiro HORI, Naoko NODA, Masayoshi MAEHATA, and Hiroichi SAWADA
- 169 Origin of fish species collected in ponds of a park of the Metropolitan area - phylogenetic analysis for conservation -. Kenzi TAKAMURA
- 170 Population survey on native fish and exotic crayfish in a farm pond after the eradication of exotic fishes. Ryosuke IIDA\*, Yasunori YOSHITSURU, Koji OOHATA and Yoshinori TANIGUCHI
- 171 The stream improvement effects on endangered freshwater fish community. Tetsuo TANAKA\* and Tsutomu NOBUMOTO
- 172 Fish assemblage structures in upstream and downstream areas of Tone estuary barrage. Seiji USUI\*, Kouki KANO, Wataru HYAKUNARI, Ryoji NAKAZATO, and Kazunori ARAYAMA
- 173 Monitoring study on freshwater sculpins in the Honmyo River - the comparison of transported area with native population habitat. Yasushi MIYAJIMA\*, Yoshihiro AGATA, Futoshi MIYAZAKI, Masafumi NAKAYAMA, Keiko MURAOKA, and Shingo YAMASHITA

# Lecture of the Awardees

Oral Presentation Room # 2 (Small Hall, Basement)

September 24 (Friday) 12:00–12:30

Thinking outside the box: taxonomy, evolution and ecology of cichlid fish

Tetsumi TAKAHASHI

## Symposia

September 26 (Sunday)

Oral Presentation Room #2 (Small Hall, Basement)

The role of the Kuroshio Current in the formation of fish fauna in the  
Japanese Archipelago

Organized by Keiichi MATSUURA, Hiroshi SENOU, and Seishi KIMURA

- 1 9:30–9:40 The Kuroshio Current, unseen transportation and barrier systems for fishes in the seas around the Japanese Archipelago. Keiichi MATSUURA
- 2 9:40–10:10 Comparison of fish faunas along coastlines under the influence of the Kuroshio Current by using an image database of fishes. Hiroshi SENOU
- 3 10:10–10:40 Coastal fish fauna of Kochi Prefecture. Hiromitsu ENDO
- 4 10:40–11:10 Peculiar ichthyofauna of Yaku-shima Island and the influence of the Kuroshio Current. Hiroyuki MOTOMURA
- 5 11:10–11:40 Tropical amphidromy in oceanic islands: migratory of *Sicyopterus japonicus*. Shun WATANABE\*, Midori IIDA and Katsumi TSUKAMOTO
- 6 11:40–12:10 Vicariance and speciation of marine fishes in East Asia caused by Kuroshio Current –Family Atherinidae as an example–. Seishi KIMURA\* and Daichi SASAKI

<Lunch Break>

- 7 13:10–13:40 External characters and genetic structure of *Acanthopagrus latus* from East Asia. Yukio IWATSUKI\* and Satoru N. CHIBA
- 8 13:40–14:10 Effect of Kuroshio Current as a barrier in distribution of some coastal fishes –A case study of *Takifugu niphobles* and *Istiblennius enosimae*–. Tetsuo YOSHINO
- 9 14:10–14:40 Historical biogeography of the Blacktip Grouper, *Epinephelus fasciatus*, in the Western Pacific. Kaoru KURIWA

<Short Break>

- 10 15:00–15:30 Phylogeography of the extremely paedomorphic gobioid fish *Schindleria*. Takeshi KON
- 11 15:30–16:00 Characteristics of *Mola* sunfish species and their biogeography. Yusuke YAMANOUE and Etsuro SAWAI
- 12 16:00–16:30 Historical relationship between the East Asian and the temperate South Pacific reef fish faunas. Kohji MABUCHI

**Oral Presentation Room #1 (Gallary II, 2nd Floor)**

**Theory and practice of sustainable lotic ecosystem conservation in bitterling fishes (Cyprinidae, Acheilognathinae) and freshwater mussels (Unionidae)**

Organized by Jyun-ichi KITAMURA, Shiro SAGAWA and Seiichi MORI

- 1 10:00–10:15 Reproductive ecology, distribution and crisis of bitterling fishes and its host freshwater mussels. Jyun-ichi KITAMURA\*, Shiro SAGAWA, and Seiichi MORI
- 2 10:15–10:45 Recent advances in understanding of basic and applied ecology of unionoid mussels. Junjiro NEGISHI\*, Shiro SAGAWA, Yuichi KAYABA, Manabu KUME, and Shigeya NAGAYAMA
- 3 10:45–11:15 Toward an understanding of the floodplain habitat of *Acheilognathus longipinnis* and their conservation and restoration in the Kiso River: Characteristics of breeding water bodies and larval microhabitat. Shiro SAGAWA\*, Junjiro NEGISHI, Yuichi KAYABA, Kouki IKEYA, Manabu KUME, Jyun-ichi KITAMURA, and Kenzo SHIRAE
- 4 11:15–11:40 Current status of *Tanakia tanago* and mussels, and the effect of supportive breeding in an irrigation ditch in Tochigi Prefecture. Tadayuki SAKAI\*, Hitoshi KUBOTA, Takeo TAKAHASHI, and Takayoshi UEDA
- 5 11:40–12:10 Current status of the river environment and fish biodiversity in the developing areas of China. Yuichi KANO, Tatsuro SATO, Yukihiro SHIMATANI, Jun NAKAJIMA\*, and Jyun-ichi KITAMURA

<Lunch Break>

- 6 13:25–13:50 Southern red tabira bitterling *Acheilognathus tabira jordani* in Shimane Prefecture: conservation activity that cooperates with region through ecology research and view in the future. Chika OSHIUMI
- 7 13:50–14:20 Case studies of environmental restoration in river and creek for bitterlings in Kyushu Island. Jyun NAKAJIMA\* and Norio ONIKURA

<Short Break>

- 8 14:30–15:00 Future strategy, plan and practice of conservation, and state of bitterling fishes in the lotic ecosystem. Jyun-ichi KITAMURA
- 9 15:00–16:00 Discussion

# Meeting Venue

## Mie Prefecture Fine Arts Center

