

Program

Papers to be presented at the 41st Annual Meeting in Matsuyama, September 20–23, 2008

Oral Presentations

(Each Speaker has been allocated 15 min, i.e. 12 min for presentation and 3 min for questions)

Oral Presentations (Room#1)

September 21 (Sunday)

Taxonomy, Phylogeny, and Morphology

- 1 8:30– Undescribed species of *Biwia*, obtained from Lake Biwa and River Yodo basin in Japan. *Seigo KAWASE, Kenji TSUJI, Jun-Ichi MIYAZAKI, and Kazumi HOSOYA*
 - 2 8:45– Taxonomic status of a goby, called *Lophogobius bleekeri*. *Koichi SHIBUKAWA, Toshiyuki SUZUKI, and Hiroshi SENOU*
 - 3 9:00– *Sebastes steindachneri* Hilgendorf, 1880, a senior synonym of *S. wakiyai* Matsubara, 1934 and *S. paradoxus* Matsubara, 1943. *Yoshiaki KAI and Tetsuji NAKABO*
 - 4 9:15– Phylogenetic classification of *Davidijordania* (Perciformes: Zoarcidae). *Gento SHINOHARA and Ik-Soo KIM*
 - 5 9:30– An undescribed species of the genus *Trichonotus* collected from Vanuatu. *Eri KATAYAMA and Hiromitsu ENDO*
 - 6 9:45– Morphological and genetic differences between two species of *Cyathopharynx* (Cichlidae). *Tetsumi TAKAHASHI*
 - 7 10:00– First record of a ponyfish, *Secutor indicus*, from Japan (Leiognathidae). *Seishi KIMURA, Shoji HOKI, Morihiko YAMADA, and Hiroyuki MOTOMURA*
- <Short Break>
- 8 10:30– An undescribed species of the genus *Poecilopsetta* (Pleuronectiformes: Poecilopsettidae) from New Caledonia and New Zealand. *Kunio AMAOKA and Toshio KAWAI*
 - 9 10:45– Gene flow at multiple temporal scales of *Lethenteron japonicum* populations. *Yuji YAMAZAKI, Terumi NAGAI, Ryota YOKOYAMA, and Akira GOTO*
 - 10 11:00– The origin of the vertebrates inferred from hagfish developmental studies. *Kinya OTA and Shigeru KURATANI*

- 11 11:15– A phylogenetic hypothesis on the sister group of the family Pentacerotidae (order Perciformes).
Seong-Yong KIM, Hajime MIYAHARA, Hisashi IMAMURA, and Kazuhiro NAKAYA
- 12 11:30– Sensory papillae of cardinalfishes (Perciformes: Apogonidae). *Takeshi YAMAKAWA*
- 13 11:45– Cephalic lateral line systems of the cyprinid subfamily Cultrinae. *Hiroaki TAKEUCHI and Kazumi HOSOYA*
- <Lunch Break>
- 14 13:30– Morphological changes of largemouth bass *Micropterus salmoides* by hybridization with Florida bass *Micropterus floridanus* in Ikehara Reservoir and Lake Biwa, Japan. *Koji YOKOGAWA*
- 15 13:45– Telencephalic ascending gustatory pathways in goldfish, *Carassius auratus*. *Takeshi KATO, Hiroaki SOMIYA, and Naoyuki YAMAMOTO*
- 16 14:00– Terminal nerve of the elasmobranch fish, red stingray, *Dasyatis akajei*. *Hiroyoshi YASUKAWA, Hiroaki SOMIYA, and Naoyuki YAMAMOTO*
- 17 14:15– Distribution of GnRH receptors in the brain of the dwarf gourami *Colisa lalia*. *Naohiro IWAKOSHI, Hiroaki SOUMIYA, and Naoyuki YAMAMOTO*
- 18 14:30– Comparison of cephalic lateral line systems in *Zacco* and its related taxa. *Toyoaki FUKUDA, Tomohiko FUJITA, Toshihiko MORIMUNE, and Kazumi HOSOYA*
- 19 14:45– Development of intestinal coiling pattern of Itasenpara Bitterling, *Acheilognathus longipinnis*. *Hitomi YAMANO, Rikiya OGAWA, Yoshikazu NAGATA, and Kazumi HOSOYA*

September 22 (Monday)

Molecular Genetics

- 20 8:30– Genetic structure of Kyusyu populations of *Rhodeus ocellatus kurumeus* inferred from mtDNA. *Takuya MIYAKE, Kouichi KAWAMURA, Jun NAKAJIMA, and Norio ONIKURA*
- 21 8:45– Genetic population structure of amphidromous populations of the middle egg type of *Cottus pollux*, based on mitochondrial DNA sequence data. *Hideharu TSUKAGOSHI, Midori SUGIYAMA, Ryota YOKOYAMA, and Akira GOTO*
- 22 9:00– Cryptic species within the gudgeon *Pseudogobio esocinus* in western Japan, inferred from mitochondrial and nuclear DNA data. *Koji TOMINAGA, Jun NAKAJIMA, and Katsutoshi WATANABE*
- 23 9:15– Re-examination of the genomic constitution of the northern-southern hybrid populations of Medaka. *Naoto KOYAMA, Kouki KUME, and Tadao KITAGAWA*
- 24 9:30– Genome scan to detect candidate regions involved in adaptive divergence between two lineages of ice goby. *Sayaka TAKAHASHI and Tomoyuki KOKITA*

- 25 9:45– Genetic identification of fish eggs collected in Sendai Bay and off Johban, Japan. *Kenji SAITOH, Shinji UEHARA, and Taro TEGA*
- 26 10:00– Evidence of highly restricted gene flow within and among localities in an intertidal goby, *Chaenogobius annularis*. *Shotaro HIRASE, Manami KANNO, and Akihiro KIJIMA*
- <Short Break>
- 27 10:30– Verification of effectiveness of HiCEP on exploring adaptive gene in ayu. *Hirohiko TAKESHIMA, Yoichiro AZUMA, Kei'ichiro IGUCHI, and Mutsumi NISHIDA*
- 28 10:45– Mitochondrial DNA divergence and population structure of *Misgurnus anguillicaudatus* and *Paramisgurnus dabrianus* in Ehime Prefecture. *Takaaki SHIMIZU, Motohiro TAKAGI, and Hiroshi MURAKAMI*
- 29 11:00– Natural hybridization between *Takifugu* species revealed by AFLP analysis. *Yutaro ZENKE, Hiroshi TAKAHASHI, Harumi SAKAI, Hiroyuki DOI, Keiichi MATSUURA, and Mutsumi NISHIDA*
- 30 11:15– Genetic structure and phylogenetic relationships of the two sibling species, *Cottus amblystomopsis* and *C. nozawae*, having different life-history cycles. *Maya URANISHI, Ryota YOKOYAMA, and Akira GOTO*
- 31 11:30– Genetic population structure of the dark chub *Zacco temmincki* in West Japan, inferred from mitochondrial DNA sequences. *Yasushi TANAKA and Shingo SEKI*
- 32 11:45– Genetic diversity and population structure of the Blacktip Grouper, *Epinephelus fasciatus*, in Japan. *Kaoru KURIIWA, Satoru N. CHIBA, and Hiroyuki MOTOMURA*

<Lunch Break>

Distribution and Fish Fauna

- 33 13:30– Phylogeography of Siberian stone loach, *Barbatula toni*. *Ryota YOKOYAMA, Manabu SAIJO, and Akira GOTO*
- 34 13:45– Ecology of mesopelagic micronekton fishes in the East China Sea and the adjacent sea. *Masatoshi MOKU, Noriyuki IGAWA, and Akihiro YAMAUCHI*
- 35 14:00– Distribution of larvae and juveniles of *Cottus kazika* and *Cottus reinii* around the Koza Estuary in Wakayama. *Kazuto MIWA, Shigeo HARADA, and Kouji NAKAYAMA*
- 36 14:15– Settlement pattern of chaetodontid juveniles at Yokonami Peninsula, Kochi Prefecture. *Sosuke OGURI, Tomonori HIRATA, Siori HIRATA, Hideaki YAMADA, Youhei NAKAMURA, and Kosaku YAMAOKA*
- 37 14:30– Formation of the primary freshwater fish fauna in western Japan: Problems and approaches. *Katsutoshi WATANABE, Takefumi KOMIYA, Ryo KAKIOKA, Koji TOMINAGA, Hiroshi TAKAHASHI, and Seiichi MORI*
- 38 14:45– Analysis of habitat requirements for fish composition in Abashiri river by using generalized linear model. *Minoru KANAIWA, Takuya INOUE, and Atsuya YAMAMOTO*

<Short Break>

- 39 15:15– Deep-sea fish fauna of Kumano-nada, central Japan. *Hiromichi SAKAKIBARA, Seishi KIMURA, Yoichi MAEKAWA, and Toru NAKAMURA*

Conservation

- 40 15:30– Present Status and Problems in the Medaka Biotope in Odawara City. *Naoyuki SUGURO and Shun ANZAI*
- 41 15:45– Ecological impacts of invasive alien fishes on native fishes, reviewed from prefectural red data books. *Katsuki NAKAI*
- 42 16:00– Distribution of Japanese native mtDNA haplotypes of *Cyprinus carpio* in Lake Biwa. *Kohji MABUCHI, Hiroshi SENOU, Hirohiko TAKESHIMA, Katsuki NAKAI, and Mutsumi NISHIDA*
- 43 16:15– Optimal early food of an endangered cyprinid, *Hemigrammocypripis rasborella*. *Ryota MIYAMOTO, Naoyuki SUGURO, Kosuke TAKAKU, and Kazumi HOSOYA*
- 44 16:30– Bile corrected from nesting male attracts maturing female in largemouth bass. *Yasufumi FUJIMOTO, Kiyotaka TAKAHASHI, and Shigeru SATO*

<Short Break>

- 45 17:00– Fishes appearance in the artificial grass bed installed in dam reservoir. *Hiroaki TAKAHASHI, Masaki SHIBUYA, and Akira KOJIMA*
- 46 17:15– The in-situ conservation of endangered bittering Zenitanago *Acheilognathus typus* in the Akita City Zoo, Akita Prefecture. *Hideki SUGIYAMA, Toshimi KUSANAGI, and Mamoru KOMATSU*
- 47 17:30– Life history, genetic population structure and management units of ninespine stickleback, *Pungitius* sp. in the Mogami River. *Keisuke TAKATA, Mayu KONISHI, Satoshi ITOH, Kiyoshi WATANABE, Kouji SATOH, Masayuki KAWAUCHI, Akihiko OHI, and Toshikazu MARUYOSHI*

Physiology and Histology

- 48 17:45– Sex change of *Scolopsis monogramma* on Okinawajima-Island. *Yuichi AKITA and Katsunori TACHIHARA*
- 49 18:00– The sonic organ of *Priacanthus macracanthus* (Perciformes Priacanthidae). *Daisuke NISHIHARA, Naoyuki YAMAMOTO, Hiroaki SOMIYA, Tetsuo YOSHINO, and Atsushi ONUKI*

Oral Presentations (Room#2)

September 21 (Sunday)

Ecology

- 50 8:30– Migration patterns for native and invasive fishes in Lake Biwa and its tributary lagoons: Stable isotopic evidence. *Jun-ya SHIBATA, Jin-ichi KARUBE, Mamiko OISHI, Mana YAMAGUCHI, Yukiko GOUDA, and Noboru OKUDA*
- 51 8:45– Morphological characteristics related to the feeding habits and diets in *Zacco sieboldii*. *Toshihiko MORIMUNE, Ruiko HIRONO, Yuta INAMOTO, and Kazumi HOSOYA*
- 52 9:00– Inter-pond variation in food habit and morphology of largemouth bass. *Atsushi MARUYAMA and Katsuhiko YAMANAKA*
- 53 9:15– Parasite-mediated trophic transmission across ecosystems. *Takuya SATO, Katsutoshi WATANABE, Yasuaki NIIZUMA, Minoru KANAIWA, and Yasushi HARADA*
- 54 9:30– Migratory history in Japan Sea form of *Gasterosteus aculeatus* collected from Lake Ogawara, Japan. *Daisuke UENO and Takaomi ARAI*
- 55 9:45– Social factors affecting the sex differentiation of a bi-directional sex-changing wrasse *Halichoeres trimaculatus*. *Tetsuo KUWAMURA, Naomi TANAKA, Eiji OUCHI, Atsushi TAKEMOTO, and Naomi YAMANISHI*
- 56 10:00– Stable isotope ratios reveal migration behavior of a landlocked sculpin in the Lake Biwa water system. *Daisuke TAHARA, Ryosuke SUZUKI, and Atsushi MARUYAMA*
- <Short Break>
- 57 10:30– Environmental factor for the spawning of kissing loach. *Tsukasa ABE, Yasuharu SOMA, and Tatsuya SAKAMOTO*
- 58 10:45– inter-river variation in food-web structure associated with change in food habit of a pelagic fish. *Yusuke KONDO, Atsushi MARUYAMA, and Fumiko YOSHIOKA*
- 59 11:00– Strong assortative matings between 2 nine-spined stickleback species (*Pungitius p.* freshwater type and brackishwater type). *Yu-ichiro MEGURO and Akira GOTO*
- 60 11:15– Existing possibility of the stream resident population of Biwa salmon. *Masayuki KUWAHARA, Kei'ichiro IGUCHI, Hiroshi TAKAHASHI, Takeshi KIKKO, and Seiji KURUMI*
- 61 11:30– Morphological variation in crucian carp from the Yellow River. *Kei'ichiro IGUCHI, Ryo KAKIOKA, Katsutoshi WATANABE, Yahui ZHAO, and Chung-guang ZHANG*
- 62 11:45– Intra-clutch variation of hatching date in ayu. *Tetsuya TSURUTA and Kei'ichiro IGUCHI*
- <Lunch Break>
- 63 13:30– Effects of river flow on survivals of larvae and juveniles of Japanese grenadier anchovy *Coilia nasus*. *Yu KARASAKI, Keita W. SUZUKI, Kouji NAKAYAMA, and Masaru TANAKA*

- 64 13:45– Species area relationship of damselfish assemblages on small patch reefs and random placement model. *Akihisa HATTORI* and *Takuro SHIBUNO*
- 65 14:00– Global warming affects population dynamics of Isaza endemic to Lake Biwa: a preliminary report. *Youichirou SAKAI*, *Michio KUMAGAI*, and *Noboru OKUDA*
- 66 14:15– Differential consumption of *Niwaella delicata*. *Hiroyuki SAKANO*, *Shin-ichiro ABE*, *Sho KOBAYASHI*, *Satoshi KITANO*, and *Tamotsu NAGUMO*
- 67 14:30– Growth, maturity and age structure of the torrent catfish, *Liobagrus reini*, in the Koishiwara stream, a tributary of the Chikugo River. *Masaya NAKATANI*, *Motoyosi KAWAGISHI*, *Ryutei INUI*, *Jyun KANETO*, *Yuta TOMIYAMA*, and *Norio ONIKURA*
- 68 14:45– Feeding ecology of autumn-spawning bitterling *Acheilognathus longipinnis*. *Rikiya OGAWA* and *Yoshikazu NAGATA*

September 22 (Monday)

Ecology and Behavior

- 69 8:30– The larvae-tending behavior of the fresh water sculpin *Cottus nozawae* in River Omono, Akita prefecture. *Masayuki KUMAGAI*, *Hideki SUGIYAMA*, and *Akira GOTO*
- 70 8:45– Downstream movement of juvenile masu salmon and Japanese charr. *Jun ASHIZAWA*, *Yuki TANAKA*, *Takehiko UENO*, and *Takashi MARUYAMA*
- 71 9:00– Effects of competitor density and physical habitat structure on the competitive intensity of white-spotted charr. *Koh HASEGAWA* and *Shoichiro YAMAMOTO*
- 72 9:15– Reproductive ecology of *Tridentiger nudicervicus* in Ariake bay. *Motoyoshi KAWAGISHI*, *Ryutei INUI*, *Masaya NAKATANI*, and *Norio ONIKURA*
- 73 9:30– Life history of *Stenogobius* sp. on Okinawa Island. *Nozomi YAMASAKI*, *Ken MAEDA*, *Masashi KONDO*, and *Katsunori TACHIHARA*
- 74 9:45– Reproduction of ceratioid anglerfishes. One sided? or mutual love? in the abyss. *Toshiro SARUWATARI*
- 75 10:00– Age, growth and instream distribution of *Rhinogobius* sp. CB in the Genka River on Okinawa Island. *Naoki OGATA* and *Katsunori TACHIHARA*
- <Short Break>
- 76 10:30– Female changes egg number by male size, and male growth rate reduces as egg number increase. *Yu OTSUKA*, *Akinori OTANI*, *Hiroyasu SUZUKI*, and *Izumi AKAGAWA*
- 77 10:45– Survival, growth, and longevity in the fluvial eight-barbel loach, a long-lived balitorid. *Shigeru AOYAMA*
- 78 11:00– Feeding method of the megamouth shark, *Megachasma pelagios* (Lamniformes). *Kazuhiro NAKAYA*, *Rui MATSUMOTO*, and *Kenta SUDA*

- 79 11:15– Ovarian structure and mode of egg production in a monogamous pipefish. *Atsushi SOGABE, Koji MATSUMOTO, Mizuki OHASHI, Aki WATANABE, Hiromi TAKATA, Yasunori MURAKAMI, Koji OMORI, and Yasunobu YANAGISAWA*
- 80 11:30– Laterality of behavioral and morphological features in Ayu. *Hisaki SAIDA, Kosaku YAMAOKA, and Michio HORI*
- 81 11:45– Comparison between the northern and southern populations of medaka in schooling behavior. *Takao HAMAGUCHI, Tatsuhiko IMASHIRO, and Kazumi HOSOYA*
- <Lunch Break>
- 82 13:30– Effects of color spots of female on male copulation behaviors in mosquitofish, *Gambusia affinis*. *Ichiro KODAMA, Akira YAMANAKA, Katsuhiko ENDO, and Yasunori KOYA*
- 83 13:45– Variation in male parental care between two geographic groups of the freshwater threespine stickleback. *Tomoyuki KOKITA and Seiichi MORI*

Ontogeny and Others

- 84 14:00– Larvae of pelagic and endemic sculpins (*Comephorus* and *Cottocomephorus*) in the Lake Baikal. *Izumi KINOSHITA, Yuta YAGI, Akira GOTO, Ryota YOKOYAMA, and V.G. SIDELEVA*
- 85 14:15– Pelagic larvae occurring around Ashizuri Peninsula impinged the Kuroshio Current. *Shin-ichiro OKA, Hiroyuki HIRAGA, and Izumi KINOSHITA*
- 86 14:30– Occurrence, body size and pelagic larval duration of gobioid species in the coral lagoons on Okinawa-jima Island. *Taiki ISHIHARA and Katsunori TACHIHARA*
- 87 14:45– Morphology and distribution of three muraenid leptocephali, *Gymnothorax kidako*, *G. minor* and *G. chlorostigma*. *Atsushi TAWA, Noritaka MOCHIOKA, Midori KOBAYAKAWA, Ryoichi UTSUMI, and Taku YOSHIMURA*
- <Short Break>
- 88 15:15– Morphology and habitat of ten *Luciogobius* species from Okinawa Island. *Ken MAEDA, Masashi KONDO, and Katsunori TACHIHARA*
- 89 15:30– Comparison of early distribution and feeding habits among *Coilia nasus*, *Sardinella zunasi* and *Ilisha elongata* in the bottom part estuary of Ariake Bay. *Yuta YAGI, Izumi KINOSHITA, Hiroshi UEDA, Shinji FUJITA, and Katsutosi KUNO*
- 90 15:45– Vertical distribution of *Parapristipoma trilineatum* larvae in Tosa Bay. *Jun-ichi NUNOBE, Izumi KINOSHITA, and Hiroshi UEDA*
- 91 16:00– Egg size of Japanese *Cobitis* species. *Jun NAKAJIMA and Norio ONIKURA*
- 92 16:15– Larval and juvenile fish fauna collected by light-traps at Ishigaki Island (Okinawa) and Yokonami (Kochi). *Yohei NAKAMURA, Sosuke OGURI, Kosaku YAMAOKA, Takuro SHIBUNO, and Yoshiro WATANABE*

- 93 16:30– Distribution pattern of *Neosalanx reganius* and *Salanx ariakensis* larvae in the Chikugo River Estuary. *Kotaro IINO, Youta KANEMATSU, Keita SUZUKI, Yu KARASAKI, Kouji NAKAYAMA, and Masaru TANAKA*

<Short Break>

- 94 17:00– Early development and upstream behavior of three *Rhinogobius* species from Okinawa Island. *Masashi KONDO, Naoki OGATA, Ken MAEDA, and Katsunori TACHIHRA*
- 95 17:15– Artificial fertilizations of Kichiji, *Sebastolobus macrochir*. *Hajime MATSUBARA, Daisuke IWATA, Takahiro KINOSHITA, Masaharu SHIMIZU, Kohei SATO, and Masao ITOH*
- 96 17:30– The relation between temperature and rate of development in the egg and embryo of pink salmon. *Toshiya SUZUKI*
- 97 17:45– Where should rudimental hermaphroditism “be disposed on the process of fish sexuality?” *Takehito FUJII*
- 98 18:00– Fish fauna of Bangkok and adjacent areas (the lower Chao Phraya River basin). *Prachya MUSIKASINTHORN*

Poster Presentations

(Core-time: 12:30–13:30 on Sept. 21 for odd-numbered papers and on Sept. 22 for even-numbered papers)

Poster Presentations (Room#3)

- 99 Genetic comparison of grenadier anchovy from Japan and Korea based on mtDNA analysis. *Kouji NAKAYAMA, Woo-Seok GWAK, Choong-Hoon JEONG, Keita SUZUKI, and Masaru TANAKA*
- 100 Does the sneaker of medaka always behave as sneaker? *Yasunori KOYA, Ayano TAKEUCHI, and Yukari KOIKE*
- 101 A single-dorsal-finned specimen of *Apristurus* from Tokyo Bay, and its identity. *Junro KAWAUCHI and Kazuhiro NAKAYA*
- 102 Possible hybridization between the invasive Lake-Biwa lineage and the domestic one of *Zacco platypus* in rivers of the Kanto plains. *Kenzi TAKAMURA and Mayuko NAKAHARA*
- 103 Does habitat complexity decrease foraging efficiency of permanent resident piscivorous fish in a seagrass habitat? *Masahiro HORINOUCI, Naoki MIZUNO, Yuka JO, Masashi FUJITA, Mitsuhiko SANO, and Yuzuru SUZUKI*
- 104 Host mussel utilization of the bitterling (*Tanakia tanago*) in the lowland Rivers, Japan. *Jyun-ichi KITAMURA, Toshihiro ISHINABE, and Hiroko MASE*
- 105 Adaptive evolution of odorant receptor gene families in natural populations of threespine stickleback. *Yasuyuki HASHIGUCHI and Mutsumi NISHIDA*
- 106 Age, growth, and maturity of *Opsariichthys uncirostris uncirostris* in a creek around Sea of Ariake, northwestern Kyushu Island, Japan. *Yoshihisa KURITA, Jun NAKAJIMA, Jun KANETO, Ryutei INUI, Takahiko MUKAI, Yoichi KAWAGUCHI, and Norio ONIKURA*
- 107 Freshwater fish fauna in Altai district and Altai Republic, Russia. *Satoru CHIBA, Ryo GOTOH, Yuri KARTAVSEV, and Naoto HANZAWA*
- 108 Nest site use of the stream goby *Rhinogobius* sp. YB in the Naon River and the Sumiyo River, Amami-oshima Island, Japan. *Daisuke TAKAHASHI and Kei'ichiro IGUCHI*
- 109 Bi-directional sex change and gonadal structure in gobiid fish, *Priolepis* sp.A. *Katsuya TOYOTA, Makoto SAKURAI, Hisaya MANABE, Akihiko SHINOMIYA, and Tomoki SUNOBE*
- 110 Dominant hierarchy in juvenile groups of false clown anemonefish. *Yasuo YAMANAKA, Koji MATSUMOTO, Masakazu KADOTA, and Akihisa HATTORI*
- 111 Taxonomic reexamination of a poorly known acropomatid fish *Amia (Amioides) grossidens* Smith and Radcliffe, 1922. *Yusuke YAMANOUE*
- 112 Mating system of *Pteragogus aurigarius* (Labridae) in Tateyama bay, central Japan. *Shota SHIMIZU, Atsunobu MURASE, Tomoya TAKAYAMA, Masakazu MASUKO, and Tomoki SUNOBE*
- 113 Classification and distribution of anguilliform leptocephali collected from the Ogasawara waters. *Masanori TAKAHASHI, Sekio SHINAGAWA, Mitsuo SAKAI, and Noritaka MOCHIOKA*

- 114 Preliminary report on bones of tunas *Thunnus* and other large fishes from the Kajika-zawa Wharf Remains of Yamanashi Prefecture in early 20th Century. *Manabu UETSUKI* and *Fumihito MUTO*
- 115 Fate of underyearling, hatchery-reared charr *Salvelinus leucomaenis* stocked into two tributaries of the Lake Biwa basin during the autumn-spring period. *Takeshi KIKKO*, *Yoshitaka KATAOKA*, *Tuyoshi YOSHIOKA*, *Toshiya SANNO*, *Kazuhiro SUGAHARA*, *Hiroto KUME*, *Muneji UJIE*, *Takashi OKAMURA*, *Atushi MIYAMOTO*, *Yasushi HARADA*, and *Yoshiaki KAI*
- 116 An undescribed species of the genus *Paraheminodus* (Peristediidae) from New Caledonia. *Toshio KAWAI*, *Kazuhiro NAKAYA*, and *Bernard SERET*
- 117 Migratory history of *Rhinogobius* sp. OR morphotype “Shimahire”. *Takatoshi TSUNAGAWA*, *Toshiyuki SUZUKI*, and *Takaomi ARAI*
- 118 Morphological comparison of *Scyliorhinus torazame* collected from Japan. *Kaori MUGURUMA* and *Tetsuo YOSHINO*
- 119 First records of two ophidid fishes, *Glyptopodium argenteum* and *G. lucidum* (Teleostei: Ophidiiformes), from Japan. *Masanori NAKAE* and *Keiichi MATSUURA*
- 120 Review of shrimp-associated goby genus *Lotilia*. *Koichi SHIBUKAWA*, *Toshiyuki SUZUKI*, and *Hiroshi SENOU*
- 121 Antisymmetry of the olfactory organs in the Pleuronectiformes. *Mayuka OHTA* and *Kunio SASAKI*
- 122 Finding about *Lentipes armatus*, *Sicyopus leprurus* and *S. zosterophorum* from Ryukyu Islands river. *Hidemasa SHIONE* and *Kazunari KAMEDA*
- 123 The zoning for conservation of *Hemigrammocypris rasborella* at irrigation canal. *Yushu TASHIRO* and *Yoichi SATO*
- 124 Dynamics of laterality among five shrimp-eating cichlids and their prey atyid shrimp in Lake Tanganyika. *Yuichi TAKEUCHI* and *Michio HORI*
- 125 Taxonomy of dragonfishes (Stomiiformes) collected from Indonesian waters of the Indian Ocean. *Mitsumi YAMAMOTO* and *Kazuhiro NAKAYA*
- 126 Searching for molecular markers for species identification of Japanese lampreys. *Kazunori OKADA*, *Yuji YAMAZAKI*, *Takahiro MOROSAWA*, *Masaya NAKATANI*, and *Hiroshi WADA*
- 127 The maturation and sexual dimorphism of reddish bullhead *Liobagrus reini* in Minase river, Akita prefecture. *Shingo TANABE* and *Hideki SUGIYAMA*
- 128 Interrelationships of the family Peristediidae based on the mitochondrial DNA sequences. *Yohko TAKATA*, *Toshio KAWAI*, and *Takashi SATOH*
- 129 Morphological characters and occurrence patterns of juveniles of two estuarine gobies, *Acentrogobius kranjiensis* and *A. malayanus*, verified by molecular identification. *Toshihiro YOKOO*, *Takashi SAKAMOTO*, *Kouki KANO*, *Masato MOTEKI*, *Hiroshi KOHNO*, *Prasert TONGNUNUI*, and *Hisashi KUROKURA*
- 130 Food and feeding habits of alien freshwater fishes introduced into the Haebaru Reservoir on Okinawa-jima Island. *Tetsuroh ISHIKAWA* and *Katsunori TACHIHARA*

- 131 Developmental stages and behavior of primordial germ cells after segmentation stage of Japanese parrot fish *Oplegnathus fasciatus*. Toru KOBAYASHI, Hiromi TANAKA, and Ippei YOSHINO
- 132 Value of *Pseudorasbora pumila pumila*'s habitat estimated by economic evaluation tool. Mayu KONISHI, Shin-ichi TASAKI, Keisuke TAKATA, and Kei'ichiro IGUCHI
- 133 Ecology of upstream-migrating juvenile *Cottus* sp. ME in the Minami River of Fukui Prefecture. Kenji TOMIDA and Daisuke TAHARA
- 134 Genetic diversity and disturbance of loach *Misgurnus anguillicaudatus* in Ehime prefecture inferred from the microsatellite DNA analysis. Motohiro TAKAGI, Akiyo OHYAMA, and Takaaki SHIMIZU
- 135 Fish predated by great cormorant in the Chikuma River during winter. Takaharu NATSUMEDA, Tetsuya TSURUTA, and Kei'ichiro IGUCHI
- 136 The revision of the synapomorphies of the family Uranoscopidae. Veera VILASRI, Hisashi IMAMURA, and Nakaya KAZUHIRO

Poster Presentations (Room#4)

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- 138 Genetic diversity and divergence of freshwater goby *Rhinogobius* sp. YB in Amami Island. Satoshi YANO, Motohiro TAKAGI, Miho HASHIMOTO, Kenichi OHARA, Daisuke TAKAHASHI, and Kentaro HIRASHIMA
- 139 Cephalic sensory system in hexanchoid and squaloid sharks. Kenta SUDA and Kazuhiro NAKAYA
- 140 Four spine sculpins pass the winter in the river. Asuka KURAKAMI, Daisuke TAHARA, Jiro NAGATOMO, and Masahiro ONO
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- 142 Genetic divergence of *Cottus kazika* from Fukui prefecture based on mitochondriaDNA. Yasutaka UMEMOTO, Daisuke TAHARA, Tomoaki OKA, Hiroyuki KOMOTO, and Naoya ISHIGURO
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- 144 Change of substratum composition and fish appeared at Ikenoura, Kochi. Tomonori HIRATA, Sosuke OGURI, Yasuyuki ICHIBA, Shiori HIRATA, Hironobu FUKAMI, and Kosaku YAMAOKA
- 145 Reproduction of three freshwater puffers of the genus *Carinotetraodon*. Hiroyuki DOI, Yukiko SUGIYAMA, Misaki NOMURA, Toshiaki ISHIBASHI, and Harumi SAKAI
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- 147 Gobiid Fish Fauna and appearance characteristics of dominant four species in the subtidal zone of the Ikisan River Estuary in Fukuoka Pref., Japan. Ryutei INUI, Katsuhisa EGUCHI, Norio ONIKURA, and Shin OIKAWA

- 148 Nest stone size in two stream gobies *Rhinogobius*. *Kazuaki TAMADA*
- 149 Taxonomic study of *Stichaeus punctatus* (Perciformes: Stichaeidae). *Tomoyuki YAMANAKA, Mamoru YABE, and Kazuhiro NAKAYA*
- 150 Spawning habitat selection in relation to predation risk and migration cost in the two sympatric forms of threespine stickleback. *Manabu KUME, Jun KITANO, Seiichi MORI, and Noriyasu SUZUKI*
- 151 Seaward migration period and size of Japanese dace *Tribolodon hakonensis* in the Kamo River, Mie Prefecture. *Daisuke ISHIZAKI, Tsuguo OTAKE, Taiga YODO, and Motoi YOSHIOKA*
- 152 Spawning characteristics of *Nematalosa japonica* and *N. come* around Okinawa Island, southwestern Japan. *Masato UEHARA and Katsunori TACHIHARA*
- 153 Stickleback phylogenies resolved: Evidence from mitochondrial genomes and 11 nuclear genes. *Ryouka KAWAHARA, Masaki MIYA, Kohji MABUCHI, and Mutsumi NISHIDA*
- 154 Long-term monitoring on species structure and breeding site in *Rhinogobius* species –Dynamics of invasive and indigenous species according to a change of fluvial environment–. *Sayaka ITO, Mikio INOUE, Hidejirou OONISHI, and Kouji OOMORI*
- 155 Use of molecular markers for identifying *Rhinogobius* sp. YB in Okinawa Island. *Akira KAWAGUCHI and Tetsuo YOSHINO*
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- 159 The evaluation of visible implant elastomer tags for *Lefua echigonia*. *Aya ENOMOTO, Hiroshi AIKI, Nobuhiro MANO, and Hitomi HIROSE*
- 160 Metazoa Parasite Fauna of Batis (Elasmobranchi, Batoidae) from the Coastal Area of Kanto. *Akira KURASHIMA, Toshiya SHIMIZU, Toru TANIUCHI, Nobuhiro MANO, and Hitomi HIROSE*
- 161 The change of stream fish communities in Aomori prefecture. *Koichi WATANABE, Koji SATO, and Nobuyuki AZUMA*
- 162 Taxonomic review of *Albula nemoptera* (Albuliformes: Albulidae) in the eastern Pacific and the western Atlantic. *Koichi HIDAHA and Yukio IWATSUKI*

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- 164 Habitat use by *Cobitis shikokuensis* in the Shigenobu River, Ehime Prefecture: importance of subsurface conditions. *Ryota KAWANISHI, Yuta KUDO, and Mikio INOUE*
- 165 Two forms of the genus *Trachipterus* in Japanese waters, and their morphology and taxonomy. *Keiichi SATO, Kunio AMAOKA, and Minoru TODA*
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- 176 The origin of the paedomorphic fish *Schindleria* inferred from whole mitogenome sequences. *Takeshi KON, Masaki MIYA, Lukas RÜBER, Masanori NAKATANI, Takashi SATOH, Tetsuo YOSHINO, and Mutsumi NISHIDA*
- 177 Muscular system and its innervation in *Zacco platypus* (Cypriniformes: Cyprinidae). *Masanori NAKAE, Kunio SASAKI, Tsuneo NAKAJIMA, Yusuke MIYAZAKI, and Keiichi MATSUURA*
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- 180 Habitat environment of the blue whiting, *Sillago parvisquamis* at 7 local populations in the Seto Inland Sea, Japan. *Toshihiro SHIGETA*
- 181 MtDNA phylogeny of Japanese freshwater chub, genus *Zacco*, and an evidence for artificial transplantation in western Japan. *Akari HAYAKAWA, Jun NAKAJIMA, Yoichi KAWAGUCHI, Norio ONIKURA, and Takahiko MUKAI*
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- 186 Taxonomic review of the genus *Platyrrhina*. *Kei MIYAMOTO, YUKIO IWATSUKI, and Kazuhiro NAKAYA*
- 187 Relationship between reproductive contributions of females to subsequent generation and breeding period in the captive *Tanakia tanago* population. *Hitoshi KUBOTA and Katsutoshi WATANABE*
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- 189 Genetic diversity in local populations of *Lefua echigonia* from microsatellite DNA analysis. *Hiroshi AIKI, Nobuhiro MANO, Hitomi HIROSE, Noriyuki KOIZUMI, and Hiroshi KOMAKI*
- 190 Breeding and food habits of *Channa argus* in the Tomoe River, Shizuoka City. *Masashi FUKUI and Izumi AKAGAWA*
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