

2012 Annual Meeting Program

Papers to be presented at the 45th Annual Meeting of the Ichthyological Society of Japan
at National Fisheries University in Shimonoseki, Yamaguchi, September 21-24, 2012

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(Lecture Room 41, School House)

September 22 (Saturday)

Systematics

- 1 9:30- Significance of the Langsdorff Collection in the Museum national d'histoire naturelle, Paris, in the history of ichthyology. Yuko TAKIGAWA* and Tetsuo YOSHINO.
- 2 9:45- Challenge to acquire funds for fish taxonomy by giving the naming rights of new species. Seishi KIMURA*, Jun MATSUI and Hisanori YAGAMI.
- 3 10:00- On the strict calculations of the date of publication of scientific names. Fumihito MUTO.
- 4 10:15- Some remarks on Japanese *Nessorhamphus* species. Kiyotaka HATOOKA.
- 5 10:30- An undescribed species of the genus *Coelorinchus* collected from Hawaii (Gadiformes: Macrouridae). Naohide NAKAYAMA*, Takashi SATOH and Hiromitsu ENDO.
- 6 10:45- Two undescribed species of the genus *Hypoatherina* (Atherinidae) from the Indo-West Pacific. Daichi SASAKI* and Seishi KIMURA.

<Lunch Break>

Systematics

- 7 14:30- Morphological characteristics of the East Korean population of Medaka. Toshinobu ASAI*, Chi-hong KIM, Hiroshi SENOU and Kazumi HOSOYA .
- 8 14:45- Taxonomic review of the scorpaenid genus *Brachypterois*. Mizuki MATSUNUMA*, Makoto SAKURAI and Hiroyuki MOTOMURA.
- 9 15:00- Redescription of the genus *Pagellus* (Perciformes: Sparidae). Fumiya TANAKA* and Yukio IWATSUKI.
- 10 15:15- Review of the genus *Argyrops* (the family Sparidae) from the Indo-West Pacific. Yukio IWATSUKI* and Phillip C. HEEMSTRA .

<Short Break>

Systematics

- 11 15:45- An undescribed species of the genus *Pempheris* (Pempheridea) from Minami-daitou Island and Ogasawara Islands. Keita KOEDA*, Tetsuo YOSHINO and Katsunori TACHIHARA.
- 12 16:00- Two morphs of ornate jobfish landed at Ishigaki Island. Tamaki SHIMOSE* , Nobuaki SUZUKI and Yukio IWATSUKI.
- 13 16:15- First Japanese records of *Enneapterygius fuscoventer* and an undescribed species of *Enneapterygius* from Okinawa, Japan (Tripterygiidae). Masatoshi MEGURO* and Hiroyuki MOTOMURA.
- 14 16:30- Review of the *Trichiurus lepturus* complex (Scombroidei: Trichiuridae) in the Indo-West Pacific. Koichi HIDAKA*, Takeshi SAKAI, Yoichi TSUKAMOTO, Daniel GOLANI and Yukio IWATSUKI.
- 15 16:45- Evidence for resurrection of names of bothid flatfishes described by Henry Weed Fowler in 1934. Kunio AMAOKA.

September 23 (Sunday)

Systematics and Phylogeny

- 16 9:30- Genetic comparison between two closely related tongue soles, *Cynoglossus joyneri* and *C. lighti*. Hiroto TOJI* and Kouji NAKAYAMA.
- 17 9:45- Genetic divergence between two color morphotypes of *Crystallichthys matsushimae* (Liparidae). Akira TOHKAIRIN*, Yoshiaki KAI, Yuji UEDA, Tomonori HAMATSU, Masaki ITO and Tetsuji NAKABO.
- 18 10:00- Morphological variation and genetic population structure of *Eumicrotremus asperrimus* from the North Pacific. Yoshiaki KAI*, Duane STEVENSON, Yuji UEDA, Tomonori HAMATSU and Tetsuji NAKABO.
- 19 10:15- Historical biogeography and morphological analysis of *Siganus fuscescens* in the Indo-Pacific. Kensuke IWAMOTO*, Tetsuo YOSHINO and Hideyuki IMAI.
- 20 10:30- Cospeciation between Elasmobranchs and Parasitic Onchobothriid Tapeworms. Akira KURASHIMA*, Toshiya SHIMIZU, Nobuhiro MANO, Kazuo OGAWA and Toshihiko FUJITA.

<Short Break>

Phylogeny

- 21 11:00- Light and scanning electron microscopic studies of stomach and intestine of Elopomorpha peppered moray eel, *Gymnothorax pictus*, in relation to phylogeny. Shunpei TAKIUE* and Hideo AKIYOSHI.
- 22 11:15- Systematic position of *Leptobotia curta* (Teleostei: Botiidae) on the basis of osteology. Takehiro INUI* and Kazumi HOSOYA.
- 23 11:30- Polyphyly of the genus *Carangoides* (Carangidae) and the phylogenetic position of *Carangoides praeustus*, the type species. Shun TAKEUCHI*, Shintaro YASUI, Seishi KIMURA and Kaoru KURIWA.
- 24 11:45- Estimation of generic position of a stichaeid fish *Ernogrammus zhirmunskii*. Tomoyuki YAMANAKA* and Mamoru YABE.

<Lunch Break>

Morphology

- 25 14:30- Morphological Diversity of Spiracular Organs in Elasmobranch Fishes. Minoru TODA*, Kei MIYAMOTO, Sezo UCHIDA and Kazuhiro NAKAYA.
- 26 14:45- Maturity process of male whale shark in Okinawa Churaumi Aquarium. Rui MATSUMOTO*, Kazuki AOKI, Atsuki UNO, Kiyoshi ASAHINA, Yosuke MATSUMOTO, Keiichi UEDA and Keiichi SATO.
- 27 15:00- Comparative osteology of lizardfishes, Family Synodontidae. Monruedee CHAIYAPO*, Hisashi IMAMURA and Mamoru YABE.
- 28 15:15- Position of the pelvic fin and its associated structures in ophidiid fishes. Shinpei OHASHI*, Hisashi IMAMURA and Mamoru YABE.

<Short Break>

Morphology, Distribution and Fish Fauna

- 29 15:45- Morphological peculiarities and benthic adaptation of ghost flathead fishes (Scorpaeniformes: Hoplichthyidae). Yuki NAGANO*, Hisashi IMAMURA and Mamoru YABE.
- 30 16:00- Lateral line system and its innervation in 7 eleotrids species: various neuromast distribution and nerve branching patterns. Ryu ASAOKA* and Kunio SASAKI.
- 31 16:15- Functional morphology of jaws in *Comephorus baicalensis* (Cottiformes:

Comephoridae). Yoshiko SASAKI*, Hisashi IMAMURA and Mamoru YABE.

- 32 16:30- Freshwater sculpin dwelling in Lake Chuzenji, Nikko, Japan, is identified as Utsusemikajika, *Cottus reinii*, unintentionally introduced from Lake Biwa. Ryota YOKOYAMA* and Shoichiro YAMAMOTO.
- 33 16:45- Present and past potential occurrences of freshwater fishes in western Japan: a simple ecological niche modeling approach. Katsutoshi WATANABE*, Yuichi KANO, Kazuaki OHTSUKI, Nian-hong JANG-LIAW, Hikaru NAKAGAWA, Koji TOMINAGA, Ryo KAKIOKA and Ryoichi TABATA.

Oral Presentation Room #2(Lecture Room 25, School House)

September 22 (Saturday)

Ecology

- 34 9:30- Distribution and habitat of the genus *Nematalosa* based on the fisheries dependent data. Masato UEHARA*, Itaru OHTA, Akihiko EBISAWA and Katsunori TACHIHARA.
- 35 9:45- Life history of *Acheilognathus tabira jordani* in a river where four species of bitterlings exist. Chika OSHIUMI* and Hidenobu KUNII.
- 36 10:00- Elucidation of Siamese mud carp migration in the Mekong River . Michio FUKUSHIMA*, Seiichi NOHARA, Tuantong JUTAGATE and Chaiwut GRUDPAN.
- 37 10:15- Spawning migration of kissing loach in relation to the artificial water level fluctuation. Tsukasa ABE*, Maria ABE and Katsutoshi WATANABE.
- 38 10:30- Optimum stock density of ayu under strong fishing pressure. Osamu KATANO.
- 39 10:45- The actual state spawning of *Oncorhynchus kawamurae* in Lake Saiko. Toshihiro AOYAGI*, Takumi OKAZAKI, Nana KAJI and Kazutaka TAKAHASHI.

<Lunch Break>

Ecology

- 40 14:30- A population of shortfin charr isolated in the Abukuma Mountains. Kei'ichiro IGUCHI*, Hisae MIYAHARA, Kentaro MORITA, Takaharu NATSUMEDA, Osamu INABA and Koichi KAWAMURA.
- 41 14:45- Evaluation of canopy rate of riparian forests to maintain cold water temperature in mountain streams. Tomoyuki NAKAMURA.

- 42 15:00- Sex ratio of the adult Japanese seabass *Lateolabrax japonicus* appearing in some rivers, Oita Pref. Natsuki KAGEHIRA and Masaaki KAGEHIRA*.
- 43 15:15- Food web analysis by using carbon and nitrogen stable isotope in Lake Mikata Fukui Japan. Takashi KUSANO*, Ryo SUGIMOTO, Takahisa SATO, Takahito YOSHIDA and Osamu TOMINAGA

<Short Break>

Ecology, Egg, Larva and Early Development, Conservation

- 44 15:45- Comparison of early development and growth in the ayu between Vietnam and Japan (Tosa Bay, Seto Inland Sea and Japan Sea). Hau Duc TRAN*, Izumi KINOSHITA, Kensaku AZUMA, Tomoaki ISEKI, Yuta, YAGI and Jun-ichi NUNOBE.
- 45 16:00- Genetic characteristics of the southernmost population of ayu collected in Vietnam. Hirohiko TAKESHIMA*, Tran duc HAU, Izumi KINOSHITA Keiichiro IGUCHI and Mutsumi NISHIDA.
- 46 16:15- Pelagic larval duration and morphology at recruitment of sicydiine gobies. Ken MAEDA*, Nozomi YAMASAKI-HANAHARA, Midori IIDA and Katsunori TACHIHARA.
- 47 16:30- The selection of important estuaries for the conservation of gobioid biodiversity in Tokushima Prefecture. Ryutei INUI*, Yuya TAKEGAWA, Youichi KAWAGUCHI, Shion TAKEMURA, Norio ONIKURA and Mahito KAMADA.
- 48 16:45- Why do the middle-egg types *Rhinogobius* become extinct after construction of a dam? Ryohji SHINDO*, Masashi KONDO and Katsunori TACHIHARA.

September 23 (Sunday)

Conservation

- 49 9:30- Suitable early food set for rosy bitterling *Rhodeus ocellatus*, from digestive enzyme activity. Tetsuro KITAGAWA*, Shin-ichiro KAWAI and Kazumi HOSOYA.
- 50 9:45- Effect of small artificial reef made from thinned wood of *Pseudobagrus tokiensis*. Naoyuki SUGURO*, Shun ANZAI and Hidetaka SUMIKURA.
- 51 10:00- Confirmation of tilling effects on the spawning grounds of an endangered fish, Ryukyu ayu *Plecoglossus altivelis ryukyuensis*. Satoshi AWATA*, Tetsuya TSURUTA, Shin-ichiro ABE and Kei'ichiro IGUCHI.

- 52 10:15- Population of amago salmon *Oncorhynchus masou ishikawae* in Myojin-sawa. Naomasa KAWASHIMA.
- 53 10:30- Comparison on short range movement of *Oncorhynchus masou ishikawae* between stream with dams and natural stream. Tatsuya SAITO*, Naomasa KAWASHIMA, Kunihiro SUZUKI, Hirotaka NARASHIMA, Satoru MATSUMURA, Yuya SATO, Takuya SAKURAOKA and Izumi AKAGAWA.

<Short Break>

Conservation and Ethology

- 54 11:00- Change in species richness of native strictly freshwater fishes in 37 Japanese lakes from a macroecological perspective. Shin-ichiro MATSUZAKI* and Munemitsu AKASAKA.
- 55 11:15- Use of micro-scale environments along the seaward migration route of stocked chum salmon fry. Koh HASEGAWA* and Satoru TAKAHASHI.
- 56 11:30- Remating tactics of widowed males in a polygynous fish *Labroides dimidiatus*. Tetsuo KUWAMURA*, Tatsuru KADOTA and Shohei SUZUKI.
- 57 11:45- A database on the reef fish reproduction based on underwater observations: trail to elucidate a long-term change of breeding area and season. Hiroshi KAWASE*, Tomoki SUNOBE and Shoichi KATO.

<Lunch Break>

Molecular Genetics and Molecular Analysis

- 58 14:30- Phylogeography of *Aphyocypris chinensis* and proposal of conservation policy in Fukuoka Prefecture, northern Kyushu, Japan. Jun NAKAJIMA*, Midori KOBAYAKAWA, Tomofumi NAKAMURA, Kosuke TAKAKU, Yuichi KANO, Ryutei INUI, Satoshi OHISHI, Norio ONIKURA and Kazumi HOSOYA.
- 59 14:45- Patterns of genetic diversity of mitochondrial DNA within captive populations of the endangered itasenpara bitterling: implications for a reintroduction program. Shigeru KITANISHI*, Masaki NISHIO, Kazuhiko UEHARA, Rikiya OGAWA, Tatsuya YOKOYAMA and Kaneaki EDO.
- 60 15:00- The origin and possible mitochondrial adaptations in Lake Biwa fishes. Ryoichi TABATA*, Ryo KAKIOKA, Takefumi KOMIYA and Katsutoshi WATANABE.
- 61 15:15- Automated screening and primer design of fish microsatellite DNA loci on pyrosequencing data. Yoji NAKAMURA*, Yuya SHIGENOBU, Takuma SUGAYA, Tadahide KUROKAWA and Kenji SAITOH.

<Short Break>

- 62 15:45- The genetic basis of adaptive morphological evolution related to divergent habitat use in *Gnathopogon* fishes. Ryo KAKIOKA*, Tomoyuki KOKITA, Hiroki KUMADA, Katsutoshi WATANABE and Noboru OKUDA.
- 63 16:00- Adaptive genetic divergence in sex hormone signaling and diversification of breeding systems. Tomoyuki KOKITA*, Mayumi YAMAMOTO, Hatsune NONOGAKI, Hajime KITANO, Michiya MATSUYAMA and Seichi MORI.
- 64 16:15- Genetic characteristics of *Pungitius platygaster aralensis* from the Amu-Darya delta. Hiroshi TAKAHASHI* and Ramatulla TEMIRBEKOV.
- 65 16:30- Trace of past hybridization between *Sebastes trivittatus* and *S. zonatus* (Scorpaenidae). Nozomu MUTO*, Yoshiaki KAI, Tsutomu NODA and Tetsuji NAKABO.
- 66 16:45- Phylogeography of Blacktip Grouper, *Epinephelus fasciatus*, between the Izu and Ogasawara islands. Kaoru KURIIWA*, Satoru n. CHIBA, Hiroyuki MOTOMURA and Keiichi MATSUURA.
- 67 17:00- Phylogenetic relationships of *Rhinogobius* gobies in Japan inferred from nuclear gene sequences. Yo YAMASAKI*, Mutsumi NISHIDA, Toshiyuki SUZUKI, Takahiko MUKAI and Katsutoshi WATANABE.

Poster Presentations

(Core-time: 13:30-14:30 on September 22 for odd-numbered papers and on September 23 for even-numbered papers;

*corresponding author)

Poster Presentation Room (Lecture Room #36 and #37, School House 3F)

- 68 Phylogenetic analysis of the caesionid fishes based on the mitochondrial and nuclear DNA. Takeshi KON* and Yukio IWATSUKI.
- 69 Seasonal occurrence and distribution patterns of fishes in the reed belts in Lake Kitaura. Seiji USUI*, Kouki KANO, Wataru HYAKUNARI, Seiya KANEKO, Kazunori ARAYAMA and Mitsuhiko SANO.
- 70 Food for larval fish of Japanese dace *Tribolodon hakonensis*. Yumi NAKAJIMA*, Naoko YOSIDA, Takuma ITOU and Masahide YUMA.
- 71 Genetic population structure of *Corythoichthys haematopterus* along the Kuroshio

Current: evidence for cryptic species? Atsushi SOGABE* and Motohiro TAKAGI.

- 72 Spacing patterns of superior competitors: How reef size affects on damselfish assemblages? Akihisa HATTORI* and Takuro SHIBUNO.
- 73 Population characteristics and dynamics of a hybrid population between native and introduced threespine sticklebacks. Masaya SHIMIZU*, Seiichi MORI and Tomoyuki KOKITA.
- 74 Recent patterns in lateral plate variation and genetic diversity of the Nasu population of threespine stickleback. Yuto SUZUKI*, Seiichi MORI, Yutaka YOSHIDA and Tomoyuki KOKITA.
- 75 A trial to increase suitable habitats for juvenile *Tanakia tanago*: Modeling of microhabitat requirements and habitat restoration. Takatoshi TSUNAGAWA*, Tadayuki SAKAI, Yutaka YOSHIDA, Hitoshi KUBOTA and Shiro SAGAWA.
- 76 *Masturus lanceolatus* with motile sperms from waters of eastern Taiwan. Etsuro SAWAI*, Yusuke YAMANOUE, Yung-chou CHANG and Yoichi SAKAI.
- 77 River improvement is a destabilizing influence on local fish population: From the viewpoint of genetic diversity. Akito OOI*, Motokazu ANDO, Hiroshi OGAWA and Takeshi SASAKI.
- 78 Unique muscle conditions in some blennioid fishes. Masanori NAKAE*, Gento SHINOHARA and Kunio SASAKI.
- 79 A record of a deep sea congrid eel, *Blachea xenobranchialis* (Teleostei: Congridae), from Okinawa Trough, Japan. Shinta SAKURAI*, Hisashi IMAMURA and Mamoru YABE.
- 80 Comparison of foraging behavior of goatfish (Mullidae) at Okinawa Island. Shota SAMEJIMA* and Katsunori TACHIHARA.
- 81 Comparative osteology of the genus *Malakichthys* and other acropomatids (Perciformes: Percoidei). Yusuke YAMANOUE* and Keiichi MATSUURA.
- 82 First Japanese record of an apogonid fish *Apogon fleurieu* from Kagoshima Prefecture, Japan. Tomohiro YOSHIDA* and Hiroyuki MOTOMURA.
- 83 Microhabitat utility of fish-larvae observed in Senzoku pond in Ota-ku, Tokyo. Mitsuko AKAGI*, Takashi MARUYAMA and Tatsuaki KOBAYASHI.
- 84 Feeding habits of rosy seabass *Doederleinia berycoides* in coastal waters, Niigata Prefecture, northern Sea of Japan. Yuta YAGI*, Tomoaki ISEKI and Shinji UEHARA.
- 85 An undescribed species of the genus *Neenchelys* (Ophichthidae) collected from Japan and Taiwan. Yusuke HIBINO*, Seishi KIMURA and Hsuan-ching HO.

- 86 Validity of species identification by melanophore distribution pattern of *Gymnocanthus herzensteini* and *G. intermedius* during juvenile period. Aya YAMAZAKI* and Hiroyuki MUNEHARA.
- 87 Eggs and larvae of *Diodon hystrix* spawned in an aquarium of the Shimonoseki Marine Science Museum. Hiroyuki DOI*, Takayuki SONOYAMA, Kenta TAMAI, Toshiaki ISHIBASHI and Harumi SAKAI.
- 88 Distribution and dispersal of *Acentrogobius pflaumii* species complex larvae in the western Wakasa Bay. Shoko MATSUI*, Masahiro UENO, Kouji NAKAYAMA, Yoshiaki KAI and Yoh YAMASHITA.
- 89 Taxonomic status of Kihoshi-suzumedai" (Pomacentridae)". Hiroki IWATSUBO*, Takeshi YAMAKAWA and Hiroyuki MOTOMURA.
- 90 Review of the scorpionfish genus *Parascorpaena* (Scorpaenidae) in Japan. Hiroyuki MOTOMURA.
- 91 Record of the armored searobin *Peristedion barbiger* (Garman, 1899) (Teleostei: Peristediidae) from off Peru. Miki TENDA* and Toshio KAWAI.
- 92 An undescribed *Argentina* species from off New Caledonia (Argentinidae). Hiromitsu ENDO.
- 93 Occurrence patterns of fishes in a salt marsh creek in Lake Hinuma. Seiya KANEKO*, Wataru HYAKUNARI, Kouki KANO, Seiji USUI and Mao SHIBATA.
- 94 Morphological variations of the genus *Limnichthys* from Japan. Eri KATAYAMA*, Takashi P. SATOH and Keiichi MATSUURA.
- 95 Review of taxonomic characters in larger size *Psychrolutes* from Japan. Sora KITABATAKE*, Hisashi IMAMURA and Mamoru YABE.
- 96 Maturation of two Pandaka species on Okinawa Island. Hirotoshi SAIMARU* and Katsunori TACHIHARA.
- 97 The present taxonomic view of circumtropical fishes after John C. Briggs. Mariko ONO*, Fumiya TANAKA and Yukio IWATSUKI.
- 98 Annotated checklist of the fishes caught by off shore trawl fishery in Kumanonada Sea, Japan. Sei KAWABATA*, Kazumi HOSOYA and Yoshikazu KUBO.
- 99 Phylogenetic relationships among *Oryzias* and *Adrianichthys* spp. in Sulawesi. Daniel frikli MOKODONGAN* and Kazunori YAMAHIRA.
- 100 Stomach content analysis of two lion fishes, *Dendrochirus zebra* and *Pterois volitans*,

around Okinawa Island. Shohei KOIZUMI* and Katsunori TACHIHARA.

- 101 Influence of osmoregulation-related gene for Arctic lamprey life-history determination. Yuji YAMAZAKI* and Terumi NAGAI.
- 102 Retinal feature in the Japanese catshark, *Scyliorhinus torazame*. Kaori MUGURUMA*, Shiro TAKEI and Naoyuki YAMAMOTO.
- 103 Morphological variations of *Cobitis shikokuensis* from the Hiji-kawa River in Ehime. Asuka FUJII*, Ryota KAWANISHI, Ryota DOHI, Mikio INOUE and Takaaki SHIMIZU.
- 104 Attempt to reconstruct the past fish fauna of the Shubuto River System using museum specimens and interviews. Yusuke MIYAZAKI*, Akira YOSHIOKA and Izumi WASHITANI.
- 105 First records of Alepocephalid fishes, *Conocara krefftii* (Argentiniformes: Alepocephalidae), collected from continental sloop of Ryukyu Trench, Japan. Munehiro TAKAMI* and Atsushi FUKUI.
- 106 Larvae and juveniles of Neobythitinae (Ophidiidae) collected from the western North Pacific. Sonoka WAKATSUKI* and Atsushi FUKUI.
- 107 First Japanese records of *Helcogramma Aquila* (Tripterygiidae) from the Ryukyu Islands. Satokuni TASHIRO* and Hiroyuki MOTOMURA.
- 108 Damselfishes (Perciformes: Pomacentridae) from Yoron-jima Island, Kagoshima Prefecture, southern Japan. Hajime NISHIYAMA* and Hiroyuki MOTOMURA.
- 109 The biology of *Palaealticus tanegashimae* living in the high intertidal zone of Kuchierabu-jima Is., Kagoshima Pref. Yuki KIMURA* and Yoichi SAKAI.
- 110 It is findings we have got about hybridogenesis among Hexagrammos species by now. Miho HORITA*, Shouta SUZUKI, Kasumi KAZAMA, Motoko KIMURA and Hiroyuki MUNEHARA.
- 111 Genetic structure on the mtDNA D-loop region of *Lates japonicas* from southern Japan. Emi IMOTO*, Hiroshi SENOU, Hiromitsu ENDO, Motoyasu MASUD, Fumiya TANAKA and Yukio IWATSUKI.
- 112 Seasonal and diel flow patterns of larvae of a landlocked sculpin *Cottus reini* in rivers flowing into Lake Biwa. Hirotohi KIBUSHI*, Naoko YOSHIDA, Masahide YUMA and Daisuke TAHARA.
- 113 The invasions of fishes for fishing bait in the Ohsaki-kamijima Island, Hiroshima Prefecture. Hidenori YOSHIGOU.
- 114 An undescribed Early Cretaceous lycopteriform fish from Kitakyushu, Japan. Yoshitaka

YABUMOTO.

- 115 Artificial Propagation of *Oncorhynchus kawamurae* , captured in Lake Saiko. Nana KAJI* and Jun NAGURA.
- 116 How do the gobiid fishes utilize the mudflat in Tama River estuary, Tokyo Bay? Yasushi TAMURA*, Tomohiko SEKIZAWA, Masato MOTTEKI and Hiroshi KOHNO.
- 117 Physical habitat condition for Japanese sculpin (*Cottus reinii*). Maho OZAWA*, Takuya ITO, Yumi NAKAJIMA, Naoko YOSHIDA and Masahide YUMA.
- 118 Farther investigation of Ryukyuan indigenous and introduced *Carassius* fish by a new Multiplex PCR method. Mikumi TAKADA*, Katsunori TACHIHARA and Mutsumi NISHIDA.
- 119 Occurrence patterns of five gobiid fishes on tidal mudflat in Tama-gawa River of the Tokyo Bay. Tomohiko SEKIZAWA*, Yasushi TAMURA, Masato MOTTEKI and Hiroshi KOHNO.
- 120 Phylogenetic relationships of the Bothidae based on the whole mitochondrial genome sequences. Takashi P. SATOH*, Masaki MIYA and Mutsumi NISHIDA.
- 121 Habitat and life history of *Squalidus japonicus* in Gifu, Gifu Prefecture, Japan. Rina FURUTA*, Mei FURUHASHI and Takahiko MUKAI.
- 122 Importance of water connection to lake for the distribution of fishes in Lake Biwa inflowing rivers. Daisuke ISHIZAKI*, Takeshi KIKKO, Taiga YODO and Takuya OKUBO.
- 123 Responses of *Cobitis shikokuensis* to spates and drying in an intermittent river. Ryota DOHI*, Taiki MATSUDA, Ryota, KAWANISHI, Mikio INOUE and Asuka FUJII.
- 124 An unidentified species of the genus *Gymnocranius* (Lethrinidae) collected from Okinawa Island, Ryukyu Islands, Japan. Ryohei MIKI* and Yukio IWATSUKI.
- 125 Interspecies relationships of three gobiid species occurring in Tama River estuary, Japan. Keisuke MATSUZAKI*, Ryota WATANABE, Masato MOTTEKI and Hiroshi KOHNO.
- 126 Ontogenetic changes in food habit of larval and juvenile Antarctic myctophid, *Electrona antarctica*, in north of Lützow-Holm Bay, East Antarctica. Chieko WAKAHARA*, Hiroshi KOHNO and Masato MOTTEKI.
- 127 Visual system of the family Gobiidae. Moe SATOH* and Naoyuki YAMAMOTO.
- 128 Present status of the Japanese rosy bitterling, *Rhodeus ocellatus kurumeus*, in Osaka, Japan. Ryosuke TAKAMORI*, Shunichi TAGUCHI, Motoki FUJIWARA, Takuya MIYAKE, Kouichi KAWAMURA, Yoshihiko KANO and Tetsuya TSURUTA.

- 129 First Japanese record of *Encrasicholina devisi* (Engraulidae) from Kagoshima Prefecture. Harutaka HATA*, Hiroyuki MOTOMURA and Hiro ISHIMORI.
- 130 Habitat selection of two subspecies of *Rhodeus ocellatus* and their hybrid and estimate of habitat overlap. Tomonori KAWAMOTO*, Kosuke HAYASHI, Akihiko KOYAMA and Norio ONIKURA.
- 131 Changes in a salt-marsh fish assemblage caused by the Great East Japan Earthquake on March 11, 2011 in Shinhama Lagoon. Kouki KANO*, Satoko NAKAYAMA, Seiji USUI, Seiya KANEKO, Wataru HYAKUNARI, Toshio FURUTA, Tsuyoshi YUHARA and Koetsu KON.
- 132 Ecology of *Chlorophthalmus albatrossis* in Suruga Bay. Toshiro SARUWATARI*, Eri IWATA, Chiharu FUJII and Makoto KURAISHI.
- 133 The view of a transplant of fresh water sculpin confined in the river accompanying a dam enterprise. Yasushi MIYAJIMA*, Yoshihiro AGATA, Kentaro SAKAMOTO, Kazuhisa KIKUNAGA, Shinobu HASHIGUCHI, Keiko MURAOKA and Shing YAMASHITA.
- 134 A taxonomic study of the genus *Neoscopelus* (Myctophidae) from western Pacific. Takashi SUZUKI* and Hiromitsu ENDO.
- 135 Effects of infection by *Clinostomum* on endangered *Pseudorasbora pumila* in Nagano Prefecture. Mayu KONISHI*, Satoshi AWATA and Kei'ichiro IGUCHI.
- 136 Deep-sea fish specimens collected from Shikoku Basin and near Ogasawara Islands, deposited in the National Museum of Nature and Science. Gento SHINOHARA*, Masanori NAKAE, Takashi P. SATOH, Christopher P. KENALEY, Theodore W. PIETSCH and Keiichi MATSUURA.
- 137 Accessible paddy fields to freshwater fishes in Shiga Prefecture. Shigefumi KANAO*, Toshinori FUNAO, Kota TAWA, Masayoshi MAEHATA and Hiroichi SAWADA.
- 138 Phylogeography of *Odontobutis obscura* in Japan. Takahiko MUKAI* and Chihiro KATO.
- 139 Factors dividing movers and residents of Japanese fluvial sculpin in a bedrock stream. Takaharu NATSUMEDA* and Kei'ichiro IGUCHI.
- 140 Study of the diagnostic character of Scaridae larvae. Kei MIYAMOTO* and Shin-ichiro OKA.
- 141 Annual changes of genetic structures of largemouth bass populations with two different subspecies based on SNPs analysis. Kouta OKUDA*, Yuki IKEDA, Jyun TAKEBAYASI, Taisuke KURAMOTO, Tadao KITAGAWA, Noboru OKUDA, Taiga YODO and Keisuke TAKATA.
- 142 Occurrence pattern of and refuge exploitation by *Anguilla japonica* in brackish area of

small stream. Atsushi TSUKADA*, Takahiro HARADA, Jun NAGAKI and Izumi AKAGAWA.

- 143 Geographical distribution of *Gymnogobius castaneus* complex in Japan. Satoru N. CHIBA*, Kouichi SHIBUKAWA, Takahiko MUKAI and Naoto HANZAWA.
- 144 Latest status of critically endangered species, the blue whiting, *Sillago parvisquamis* on the largest local population in Suo-nada Sea of the Seto Inland Sea in 2012. Toshihiro SHIGETA*, Naoaki TEZUKA, Norihisa NAKAGAWA and Katsutoshi SHIGETA.
- 145 Morphological development of Antarctic bathylagid, *Bathylagus antarcticus*, in early life stages across the transformation in Indian sector, Southern Ocean. Naoko ITO*, Hiroshi KOHNO and Masato MOTTEKI.
- 146 Genetic population structure of eelpout *Lycodes tanakae*. Kei SAKUMA*, Yuji UEDA and Shigeaki KOJIMA.
- 147 Spawning activity of Ayu among 26 rivers. Genki KOZAWA.

Lecture of the Awardees

**Oral Presentation Room #1(Lecture Room 41, School House)
September 22 (Saturday) 12:00-12:30**

Towards a deeper understanding of diverse mating strategies in fishes:
an evolutionary- and behavioral-ecological approach

Satoshi AWATA

Symposium

September 24 (Monday)

Oral Presentation Room #1(Lecture Room 41, School House 4F)

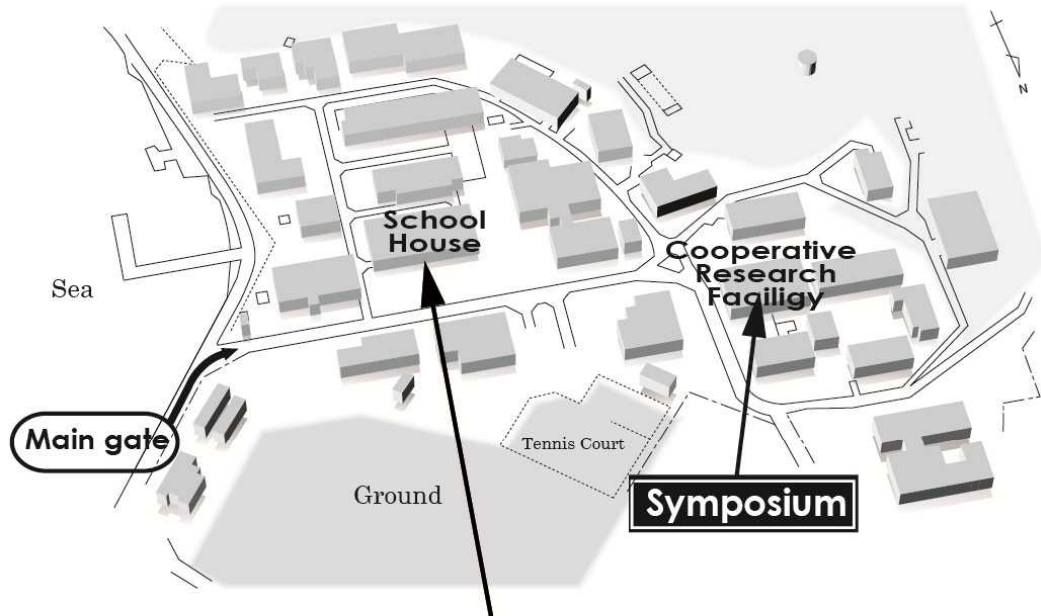
Origin, adaptive radiation and speciation of sculpins in Lake Baikal

Conveners: Akira GOTO and Izumi KINOSHITA

1. 9:00 - 9:15 History and outline of Baikal cottoids research
Akira GOTO
2. 9:15 - 9:40 Morphological and ecological diversity of sculpins in Lake Baikal with reference to peculiar physical and biological features of the lake
Valentina G. SIDELEVA
3. 9:40 - 10:05 Origin and phylogeny of Baikal sculpins
Akira GOTO*, Ryota YOKOYAMA and Valentina G. SIDELEVA
4. 10:05 - 10:30 Larval characteristics of ontogeny and distribution in the pelagic sculpins in the Lake Baikal
Izumi KINOSHITA
5. 10:30 - 10:55 Some ecological findings of Baikal sculpins occurring in shallow waters
Hiroyuki MUNEHARA
- 10:55 - 11:05 <Short Break>
6. 11:05 - 11:30 Adaptive radiation and speciation of benthic cottoids in Lake Baikal: an example in the genus *Procottus*
Ryota YOKOYAMA
7. 11:30 - 11:55 Adaptive radiation and speciation of benthopelagic cottoids in Lake Baikal: genus *Cottocomephorus*
Hiroshi TAKAHASHI
8. 11:55 - 12:20 Speciation of gammarids in Lake Baikal
Kazuo MASHIKO
9. 12:20 - 12:45 Biodiversity, ecology and adaptive radiation of the Baikal endemic gastropods
Tatiana SITNIKOVA
- 12:45 - 14:00 <Lunch Break>
10. 14:00 - 14:25 Interesting problems in the evolution of Baikal sculpins
Mutsumi NISHIDA
11. 14:25 - 14:50 Evolution of cichlid fish in tropical ancient lakes
Tetsumi TAKAHASHI
12. 14:50 - 15:15 Molecular phylogeny of Baikal cottoid fishes based on mitochondrial and nuclear DNA sequences: a recent trial and its implications
Kohji MABUCHI
- 15:15 - 15:30 <Short Break>
- 15:30 - 16:30 Discussion

Meeting Venue

National Fisheries University



Oral and Poster Presentation (School House)

