

ORIGINAL ARTICLES
Fisheries

Age, growth, and reproductive characteristics of dolphinfish *Coryphaena hippurus* in the waters off west Kyushu, northern East China Sea
Seishiro Furukawa, Seiji Ohshimo, Seitaro Tomoe, Tetsuro Shiraishi, Naoyuki Nakatsuka and Ryo Kawabe 1153

Food habits of introduced brown trout and native masu salmon are influenced by seasonal and locational prey availability
Koh Hasegawa, Chitose Yamazaki, Tamihisa Ohta and Kazumasa Ohkuma 1163

A comparative study of sexual product quality in F1 hybrids of the bream *Abramis brama* × the silver bream *Blicca bjoerkna*
Billy Nzau Matondo, Michaël Ovidio, Jean-Claude Philippart and Pascal Poncin 1173

Biology

Migration route of Pacific saury *Cololabis saira* inferred from the otolith hyaline zone
Satoshi Suyama, Masayasu Nakagami, Miyako Naya and Yasuhiro Ueno 1179

Dynamics of free amino acids in the hemolymph of Pacific whiteleg shrimp *Litopenaeus vannamei* exposed to different types of stress
Junpei Shinji and Marcy N. Wilder 1187

Late arrival of *Anguilla japonica* glass eels at the Sagami River estuary in two recent consecutive year classes: ecology and socio-economic impacts
Jun Aoyama, Akira Shinoda, Tatsuki Yoshinaga and Katsumi Tsukamoto 1195

Effects of feed restriction on the expression profiles of the glucose and fatty acid metabolism-related genes in rainbow trout *Oncorhynchus mykiss* muscle
Hidehiro Kondo, Satomitsu Suda, Yuriko Kawana, Ikuo Hirono, Reiko Nagasaka, Gen Kaneko, Hideki Ushio and Shugo Watabe 1205

First record of wild ephyrae of the giant jellyfish *Nemopilema nomurai*
Masaya Toyokawa, Masashi Shibata, Jia-Hua Cheng, Hui-Yu Li, Jian-Zhong Ling, Nan Lin, Zun-Lei Liu, Yi Zhang, Manabu Shimizu and Hideki Akiyama 1213

The occurrence of hypertetraploid and other unusual polyploid loaches *Misgurnus anguillicaudatus* among market specimens in Japan
Yan Zhao, Masakuni Toda, Jilun Hou, Mami Aso and Katsutoshi Arai 1219

Molecular cloning and expression analysis of common carp *Cyprinus carpio* tumor necrosis factor- α
Xiao Zhao, Duo Duan, Xiangru Feng, Yilong Chen, Zhen Sun, Shengmei Jia, Jiangshuai He, Bin Wang, Wei Li, Junhui Zhang, Wendong Wang, Zhenguo Yang and Qiang Lu 1229

SEM observations on larval shell morphology of Manila clam *Ruditapes philippinarum* and their utility
Nariaki Inoue, Ryogen Nanbu, Natsuki Hasegawa, Junya Higano, Hisami Kuwahara and Hideo Sekiguchi 1237

Aquaculture

Egg collection from hatchery-reared broodstock of spotted halibut *Verasper variegatus* treated with LHRH analog
Daisuke Shimizu, Yuichiro Fujinami, Sayumi Sawaguchi and Takahiro Matsubara 1245

ERRATUM

Deformation and blemishing of pearls caused by bacteria
Tohru Ogimura, Kunihiro Futami, Takayuki Katagiri, Masashi Maita, Ana Teresa Gonçalves and Makoto Endo 1255

Effect of low temperature rearing, using deep-sea water, on gonadal maturation of the short-spined sea urchin *Strongylocentrotus intermedius* in Rausu, Hokkaido

Takaaki Kayaba, Kohji Tsuji, Hiroshi Hoshikawa, Yaoki Kikuchi, Kazuhiro Kawabata, Isao Otaki and Toru Watanabe 1263

Influence of dietary soy protein and peptide products on bile acid status and distal intestinal morphology of rainbow trout *Oncorhynchus mykiss*
Takeshi Yamamoto, Koji Murashita, Hiroyuki Matsunari, Tsuyoshi Sugita, Hirofumi Furuita, Yasuro Iwashita, Shunji Amano and Nobuhiro Suzuki 1273

Early growth and reproduction of hatchery-produced Pacific oyster *Crassostrea gigas* in Gamakman Bay off the southern coast of Korea
Mostafizur Rahman Mondol, Chul-Won Kim, Bong-Kyu Kim, Chang-Keun Kang and Kwang-Sik Choi 1285

Environment

The first assessment of cyanobacterial and diazotrophic diversities in the Japan Sea
Ryoya Hashimoto, Takashi Yoshida, Sotaro Kuno, Tetsuya Nishikawa and Yoshihiko Sako 1293

Toxicity of chlorothalonil to marine organisms
Toshimitsu Onduka, Akira Kakuno, Kumiko Kono, Katsutoshi Ito, Kazuhiko Mochida and Kazunori Fujii 1301

Chemistry and Biochemistry

Potent cellulase activity in the hepatopancreas of mangrove crabs
Kohsuke Adachi, Kentaro Toriyama, Tamaki Azekura, Katsuji Morioka, Prasert Tongnunui and Kou Ikejima 1309

Isolation of ligament protein-1 from shell ligament of the scallop *Patinopecten yessoensis*
Ruihua Li, Kohji Takahashi, Tomohiko Hori, Akane Torita and Yasushi Hasegawa 1315

Food Science and Technology

Promising antidiabetic potential of fucoxanthin isolated from the edible brown algae *Eisenia bicyclis* and *Undaria pinnatifida*
Hyun Ah Jung, Md. Nurul Islam, Chan Mee Lee, Hyong Oh Jeong, Hae Young Chung, Hee Chul Woo and Jae Sue Choi 1321

Comparative studies on lipid profiles and amino acid composition of wild and cultured Dojo loach *Misgurnus anguillicaudatus* obtained from southern Japan
Jian Gao, Shunsuke Koshio, Binh Thanh Nguyen, Weimin Wang and Xiaojuan Cao 1331

Social Science

Analyzing the economic performance of the red sea bream *Pagrus major* offshore aquaculture production system in Korea
Do-Hoon Kim, Douglas Lipton and Jong-Yeol Choi 1337

Forthcoming articles are available at springerlink.com

Indexed in *Current Contents*