

ORIGINAL ARTICLES

Biology

- Identification of facultative anaerobic bacteria isolated from the intestine of the minke whale *Balaenoptera acutorostrata* by 16S rRNA sequencing analysis**
G. Ogawa · M. Ishida · H. Kato · Y. Fujise · N. Urano 177

- Predation dynamics of mackerel on larval and juvenile anchovy: is capture success linked to prey condition?**
D. Robert · A. Takasuka · S. Nakatsuka · H. Kubota · Y. Oozeki · H. Nishida · L. Fortier 183

- Scale calcification in the goldfish in vitro: histological and quantitative analysis**
N. Ogawa · K. Ura · Y. Takagi 189

- Mg-calcite, a carbonate mineral, constitutes Ca precipitates produced as a byproduct of osmoregulation in the intestine of seawater-acclimated Japanese eel *Anguilla japonica***
M. Mekuchi · T. Hatta · T. Kaneko 199

- The impact of nigorobuna crucian carp larvae/fry stocking and rice-straw application on the community structure of aquatic organisms in Japanese rice fields**
M. Yamazaki · T. Ohtsuka · Y. Kusuoka · M. Maehata · H. Obayashi · K. Imai · F. Shibahara · M. Kimura 207

- Carbonic anhydrase and Na/K-ATPase activities during the molt cycle of low salinity-reared white shrimp *Litopenaeus vannamei***
S. Jasmani · V. Jayasankar · J. Shinji · M.N. Wilder 219

- Histological studies on the spent ovaries of aged snow crabs *Chionoecetes opilio* caught in the Sea of Japan**
T. Kon · M. Ono · Y. Honma 227

- Estimation of light requirement for growth of *Zostera japonica* cultured seedlings based on photosynthetic properties**
M. Abe · K. Yokota · A. Kurashima · M. Maegawa 235

- Dual appearance of xanthophores, and ontogenetic changes in other pigment cells during early development of Japanese flounder *Paralichthys olivaceus***
M. Nakamura · T. Seikai · M. Aritaki · R. Masuda · M. Tanaka · M. Tagawa 243

Habitat niche separation of the nonnative rainbow trout and native masu salmon in the Atsuta River, Hokkaido, Japan

K. Hasegawa · T. Yamamoto · S. Kitanishi 251

Development of an in vitro culture system for producing eel larvae from immature ovarian follicles in Japanese eel *Anguilla japonica*

T. Abe · S. Ijiri · S. Adachi · K. Yamauchi 257

Effect of salinity and temperature on salinity tolerance of the sea cucumber *Apostichopus japonicus*

M. Hu · Q. Li · L. Li 267

Differences in longitudinal distribution patterns along a Honshu stream of brown trout *Salmo trutta*, white-spotted charr *Salvelinus leucomaenis* and masu salmon *Oncorhynchus masou*

S. Yamamoto · S. Kitano · H. Sakano · M. Yagyu 275

Aquaculture

Detection of prostaglandin E₂ in polychaete *Perinereis* sp. and its effect on *Penaeus monodon* oocyte development in vitro

O. Meunpol · E. Duangjai · R. Yoonpun · S. Piyatiratitivorakul 281

Potential of cinnamon (*Cinnamomum verum*) oil to control *Streptococcus iniae* infection in tilapia (*Oreochromis niloticus*)

P. Rattanachaikunsopon · P. Phumkhachorn 287

Screening of enzyme activity for assessing the condition of larvae in the seven-band grouper *Epinephelus septemfasciatus* and devil stinger *Inimicus japonicus*

Y. Ruttanapornvareesakul · Y. Sakakura · A. Hagiwara 295

Production of androgenetic amago salmon *Oncorhynchus masou ishikawai* with dispermic fertilization

H. Nagoya · K. Kawamura · H. Ohta 305

Environment

Effect of environmental factors, especially hypoxia and typhoons, on recruitment of the gazami crab *Portunus trituberculatus* in Osaka Bay, Japan

H. Ariyama · D.H. Secor 315

Understanding the accumulation features of POPs in squid from the offshore waters of southeast Korea

J.H. Won · S.H. Hong · W.J. Shim · U.H. Yim ·

G.B. Kim 325

Effect of tributyltin oxide exposure on the F₀ and F₁ generations of a marine teleost, the mummichog

Fundulus heteroclitus

K. Mochida · K. Ito · K. Kono · T. Onduka · A. Kakuno · K. Fujii 333

In situ growth and mortality of juvenile *Acropora* over 2 years following mass spawning in Sekisei Lagoon, Okinawa (24°N)

M. Okamoto · M. Yap · A.K. Roeroe · S. Nojima · K. Oyamada · S. Fujiwara · I. Iwata 343

Chemistry and Biochemistry

Effects of lectin in the scleractinian coral *Ctenactis echinata* on symbiotic zooxanthellae

M. Jimbo · H. Yamashita · K. Koike · R. Sakai · H. Kamiya 355

Three types of proteinases in Japanese common squid *Todarodes pacificus* hepatopancreas as studied by using carp myofibrils as substrate

Y. Tian · E. Umezawa · R. Duan · K. Konno 365

Distribution of lipids and fatty acids in the zooxanthellae and host of the soft coral *Sinularia* sp.

A.B. Imbs · I.M. Yakovleva · L.Q. Pham 375

Effect of long-term exposure to sulfides on taurine transporter gene expression in the gill of the deep-sea mussel *Bathymodiolus platifrons*, which harbors a methanotrophic symbiont

T. Koito · I. Nakamura-Kusakabe · T. Yoshida · T. Maruyama · T. Omata · N. Miyazaki · K. Inoue 381

Food Science and Technology

Effect of bleeding on the quality of amberjack *Seriola dumerili* and red sea bream *Pagrus major* muscle tissues during iced storage

J.B. Ahimbisibwe · K. Inoue · T. Shibata · T. Aoki 389

Assessing and enhancing the antimicrobial effect of nisin in soy-seasoned salmon *Oncorhynchus keta* roe using a *Pediococcus pentosaceus* fermentate and pectin

D.K. Bagenda · K. Yamazaki · T. Kobayashi · Y. Kawai 395

Forthcoming articles are available at springerlink.com

Indexed in Current Contents

Instructions for Authors for *Fish Sci* are available at <http://www.springer.com/12562>