



PROGRAMME

of the conference

Scientific and Technological Developments of Research and Monitoring of Marine Biological Resources

Vladivostok, Russia, May 22–24, 2017

Venues – Campus of the Far Eastern Federal University, Building B, Middle Hall;
Primorsky Aquarium (NSCMB FEB RAS), Conference Hall



Day 1: May 22, Monday (Far Eastern Federal University)

Registration 8.30 – 9.30

Opening Session

9.30 – 9.40. *Prof. Andrey V. Adrianov*, Co-Chair of the MBR Organizing Committee. Opening speech

9.40 – 9.45. Welcome Speech from the Federal Agency of Scientific Organizations

9.45 – 9.50. Welcome speech from the Far Eastern Federal University

9.50 – 10.00. Collective photo

Session 1 *New technical means in studying marine biological resources, biotechnologies and technologies of biological safety management*

Plenary talks

Chair – *Prof. Andrey V. Adrianov* (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia)

10.00 – 10.30. *Andrey V. Adrianov* (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia)

Modern technologies of biological deep-sea research

10.30 – 11.00. *Nagai Satoshi, Urushizaki Shingo, Katakura Seiji* (National Research Institute of Fisheries Science; AXIOHELIX Co. Ltd., Japan)

Application of metagenome analysis to time series monitoring of plankton in the Okhotsk Sea

Coffee break (11.00 – 11.20)

Chair – *Dr. Tatiana Yu. Orlova* (National Scientific Center of Marine Biology FEB RAS, Russia)

11.20 – 11.35. *Grigory I. Dolgikh* (V.I. Il'ichev Pacific Oceanological Institute FEB RAS, Far Eastern University, Russia)

Optical methods of monitoring dynamics marine biological resources

11.35 – 11.50. *Alexander Yu. Popik, Evgeniy L. Gamayunov, Sergey S. Voznesenskiy, Irina V. Postnova* (Institute of Automation and Control Processes FEB RAS; Far Eastern Federal University; Institute of Chemistry FEB RAS, Russia)

The fluorescent bioindicators based on immobilized microalgae for monitoring systems of ecological state of water areas

11.50 – 12.05. *Sergey S. Golik, Aleksander Yu. Mayor, Dmitriy Yu. Proschenko, Alexey A. Iliyev, Ivan G. Nagorniy, Yuliya S. Biryukova, Michael Yu. Babiy, Vladimir V. Lisitsa, Yuri N. Kulchin* (Far Eastern Federal University; Institute of Automation and Control Processes FEB RAS; G.I. Nevelskoy Maritime State University, Russia)

Development and creation of a remote-controlled underwater laser induced breakdown spectrometer for analysis of the chemical composition of sea water and bottom sediments

12.05 – 13.30. **Lunch**

Session 1 (continued)

Chair – *Dr. Olga G. Shevchenko* (Primorsky Aquarium – NSCMB FEB RAS)

13.30 – 13.45. *Tatiana Yu. Orlova* (National Scientific Center of Marine Biology FEB RAS, Russia)

Scientific and technological developments of monitoring of HABs and biotoxins on the Russian east coast

13.45 – 14.00. *Maria S. Mokrina, Yulia N. Sokolnikova, Andrey V. Grinchenko, Vadim V. Kumeiko* (Far Eastern Federal University; National Scientific Center of Marine Biology FEB RAS, Russia)

A method of assessing the health of marine bivalves and the state of their habitat

14.00 – 14.15. *Alexander V. Inzartsev, Dmitry G. Lyakhov, Andrey V. Medvedev, A.F. Scherbatyuk, Vyacheslav S. Odintsov* (Institute for Marine Technology Problems FEB RAS; National Scientific Center of Marine Biology FEB RAS, Russia)

On the selection of the configuration of autonomous underwater robots for monitoring marine biological resources

14.15 – 14.30. *Alexander Yu. Popik, Evgeniy L. Gamayunov, Sergey S. Voznesenskiy, Zhanna V. Markina, Tatyana Yu. Orlova* (Institute of Automation and Control Processes; Far Eastern Federal University; National Scientific Center of Marine Biology FEB RAS, Russia)

Microalga as a natural bio-indicators of aquatic pollutants

14.30 – 14.45 *Yulia O. Kipryushina, Mariya A. Maiorova, Raisa V. Golochvastova, Andrey V. Boroda* (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia)

Cryobanking biological material of marine mammals: purpose, methods and successes

14.45 – 15.00. *Vyacheslav S. Odintsov, Vladimir G. Chavtur, Sergey I. Kiyashko* (National Scientific Center of Marine Biology FEB RAS, Russia)

Expedition of the National Scientific Center of Marine Biology FEB RAS to the Chukchi Sea

15.00 – 15.20. Coffee break

Session 2 *Marine biodiversity and biological resources*

Chair – Dr. Wazir Singh Lakra (ICAR – Central Institute of Fisheries Education, India)

15.20 – 15.35. *Yuri Ya. Latypov* (National Scientific Center of Marine Biology FEB RAS, Russia)

New information about the solitary deep-water corals of the Vietnamese shelf

15.35 – 15.50. *Jin Hee Wi, Young-Jae Lee, Hee Yoon Kang, Chang-Keun Kang* (Gwangju Institute of Science and Technology, Republic of Korea)

Diversity of tanaidaceans in harbors of the South Korea, with three new species of the family Tanaididae Nobili, 1906 (Crustacea: Tanaidacea: Tanaidomorpha)

15.50 – 16.05. *Anton Chichvarkhin, Olga Chichvarkhina* (National Scientific Center of Marine Biology FEB RAS, Russia)

Sea stars of the genus *Henricia* Gray, 1840 (Echinodermata, Asteroidea) from the northwestern Sea of Japan

16.05 – 16.20. *Eduard A. Titlyanov, Tamara V. Titlyanova, Mutsunori Tokeshi* (National Scientific Centre of Marine Biology FEB RAS, Russia; Amakusa Marine Biological Laboratory, Kyushu University, Japan)

Possible role of marine plants in recovery of coral reefs after severe physical disturbances

16.20 – 16.35. *Andrey N. Malyutin* (National Scientific Centre of Marine Biology FEB RAS, Russia)

The main deep sea habitat types of the Far Eastern Seas of Russia

16.35 – 16.50. *Kwang-Sik Choi* (Jeju National University, Republic of Korea)

Population dynamics of a high-latitude coral *Alveopora japonica* Eguchi from Jeju Island, off the southern coast of Korea

16.50 – 17.05. *Tina N. Molodtsova, Sergey V. Galkin, Andrey V. Gebruk, Irina G. Dobretsova* (P.P. Shirshov Institute of Oceanology RAS; Polar Marine Geosurvey Expedition, Russia)

Fauna of soft sediment and inactive hydrothermal sulfide fields in the Russian Exploration Area on the Mid-Atlantic Ridge

17.30. Bus departs from FEFU Campus to Primorsky Aquarium

18.00 – 20.00. Ice-breaking party in Primorsky Aquarium

Day 2: May 23, Tuesday (Far Eastern Federal University)

Session 3 *Molecular and genetic methods of control of sustainability of populations of biological resource species*

Plenary talks

Chair – Dr. Evgeniy S. Balakirev (National Scientific Center of Marine Biology FEB RAS, Russia)

9.30 – 10.00. Maria Anisimova (Zurich University of Applied Sciences; Swiss Institute for Bioinformatics, Switzerland)

Phylogenetic methods for detecting natural selection in genomic sequences

10.00 – 10.30. Wazir Singh Lakra (ICAR – Central Institute of Fisheries Education, India)

Marine biological resources of India: conservation and management

Chair – Dr. Yuri Kartavtsev (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia)

10.30 – 10.55. Evgeniy S. Balakirev (National Scientific Center of Marine Biology FEB RAS, Russia)

Evolutionary genetics in biodiversity conservation and monitoring

10.55 – 11.10. Yuri F. Kartavtsev (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia)

Biodiversity learning and use: DNA barcoding as a tool for progress at regional (Rus-BOL) and global (iBOL) levels

11.10 – 11.30 Coffee break

11.30 – 11.45. Anna O. Zolotova, Yuri Ph. Kartavtsev (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia)

Sequence divergence in the genus *Tribolodon* (Cypriniformes, Cyprinidae) based on mtDNA and nDNA markers and its applications to the systematics and genetics of speciation of redfin

11.45 – 12.00. Sergei V. Turanov, Yuri F. Kartavtsev, Maksim E. Shapovalov (National Scientific Center of Marine Biology FEB RAS; Far Eastern State Technical Fisheries University; Pacific Research Fisheries Centre (TINRO-Centre), Russia)

DNA barcoding and species diversity of fishes from the Lake Khanka

12.00 – 12.15. Daria N. Kamenskaya, Marina V. Pankova, Dmitry M. Atopkin, Vladimir A. Brykov (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University; Federal Scientific Center of the East Asia Terrestrial Biodiversity FEB RAS, Russia)

Isolation and characterization char's growth hormone genes and their application in biotechnology

12.15 – 12.30. Alexey Y. Anikaev (SkyGen LLC, Russia)

Unique solution for NGS sequencing laboratory from SkyGen: from target enrichment to library preparation and data acquisition

12.30 – 13.30. Lunch

Session 4 *Biochemistry of marine organisms*

Plenary talk

Chair – Dr. Andrey B. Imbs (National Scientific Center of Marine Biology FEB RAS, Russia)

13.30 – 14.00. Mikhail V. Vyssotski, Kirill A. Lagutin, Dawn Scott, Andrew D. MacKenzie, Andrey B. Imbs, Vasily I. Svetashev (Callaghan Innovation, New Zealand; National Scientific Center of Marine Biology FEB RAS, Russia)

Marine organisms – a treasure trove of novel, valuable, and uncommon lipids

14.00 – 14.15. Andrey B. Imbs (National Scientific Center of Marine Biology FEB RAS, Russia)
Lipid molecular species and lipidom analysis as a new approach in the study of trophic and symbiotic relationships of marine invertebrates

14.15 – 14.30. Vasily Yu. Tsygankov (Far Eastern Federal University, Russia)
The monitoring technology of organochlorine contamination in marine ecosystems

14.30 – 14.45. Natalya V. Ageenko, Konstantin V. Kiselev, Nelly A. Odintsova (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia)
The biosynthesis of pharmacologically important quinone pigments in sea urchin cell culture

14.45 – 15.00. Ekaterina P. Karaulova, Anna I. Chepkasova, Tatiana N. Shutskaya (Pacific Research Fisheries Centre, Russia)
Antioxidant activity and hepatoprotective potential of shellfish protein hydrolysates

15.00 – 15.45. Vladimir G. Sprygin (V.I. Il'ichev Pacific Oceanological Institute FEB RAS, Russia)
Antioxidant and hepatoprotective potential of the polyphenol enriched extract from *Sargassum pallidum*, brown algae, against CCl₄ induced liver damage in rats

15.45 – 16.00. Vladimir I. Kharlamenko (National Scientific Center of Marine Biology FEB RAS, Russia)
The analysis of trophic relationships in bottom ecosystems of the Far Eastern seas using marker fatty acids

16.00 – 16.20. Coffee break

Session 5 Marine pharmacology

Chair – Dr. Kirill S. Golokhvast (Far Eastern Federal University, Russia)

16.20 – 16.35. Irina A. Ishina, Roza V. Usoltseva, Natalia M. Shevchenko, Svetlana P. Ermakova (G.B. Elyakov Pacific Institute of Bioorganic Chemistry FEB RAS; Far Eastern Federal University, Russia)
Water-soluble polysaccharides from brown algae *Desmarestia viridis*, *Dictyota divaricata*, *Dictyota dichotoma* and *Padina boryana*

16.35 – 16.50. Alexandra L. Danilova, Lidiya V. Shulgina, Alexandr A. Rybchenko, Gennadiy A. Shabanov, Nikolay A. Latyshev, Sergey P. Kasyanov (Far Eastern Federal University; Scientific Research Center “Arctica” FEB RAS; National Scientific Center of Marine Biology FEB RAS, Russia)
Influence of plasmalogens (1-o-akyl-glycerols) on the body of elderly people

16.50 – 17.05. Svetlana I. Ivannikova, Olesya S. Malyarenko, Roza V. Usoltseva, Natalia M. Shevchenko, Svetlana P. Ermakova (Far Eastern Federal University; G.B. Elyakov Pacific Institute of Bioorganic Chemistry FEB RAS, Russia)
Laminarans of brown algae and their sulfated derivatives: isolation, structure, and biological activity

17.05 – 17.20. Daria I. Melnikova, Irina A. Beleneva, Timur Yu. Magarlamov (Far Eastern Federal University; National Scientific Center of Marine Biology FEB RAS, Russia)
Search for new bacterial producers of tetrodotoxin (perspective analgesic agent) for pharmaceutical industry

17.20 – 17.35. Anatoliy L. Drozdov, Alexandr A. Artyukov, Yury N. Elkin (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University; G.B. Elyakov Pacific Institute of Bioorganic Chemistry FEB RAS, Russia)
Naphthaquinoid pigments in clypester sand dollars

17.35 – 17.50. Aristides Tsatsakis, A.M. Zakharenko, V.V. Chayka, K.S. Pikula, Kirill S. Golokhvast (University of Crete, Greece; Far Eastern Federal University, Russia)
Carbon nanomaterials as a new hazard for marine organisms

17.50 – 18.05. Anastasia D. Roshchina, Lidia V. Shulgina (Far Eastern Federal University; Pacific Scientific Research Fisheries Centre, Russia)

New products are sources of amino acids for the formation of collagen

Session 6 (Poster session)

Posters are on display throughout the day in the conference room

List of posters is attached

18.30 – 21.00. Reception in the Far Eastern Federal University

Day 3: May 24, Wednesday (Primorsky Aquarium)

Session 7 *Perspectives of development of the National Scientific Center of Marine Biology as a part of Asia-Pacific marine science community*

Chair – *Dr. Konstantin A. Lutaenko* (National Scientific Center of Marine Biology FEB RAS, Russia)

9.30 – 10.00. *Andrey V. Adrianov* (National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia)

National Scientific Center of Marine Biology – new approaches for research and conservation of marine biodiversity

10.00 – 10.30. *Konstantin A. Lutaenko* (National Scientific Center of Marine Biology FEB RAS, Russia)

National Scientific Center of Marine Biology and new opportunities for international cooperation in marine biology: past and future

10.30 – 12.30. Excursion to Primorsky Aquarium

12.30 – 13.00. **Coffee break**

14.00 – 18.00. City tour for foreign and non-resident participants

Session 8 *Training course*

Chief Lecturer – *Prof. Nagai Satoshi* (National Research Institute of Fisheries Science, Japan)

13.00 – 17.00. Lecture and demonstration “Simple, accurate and easy molecular diagnostic techniques of HAB” for young scientists (venue – Primorsky Aquarium)

List of posters

| Authors | Title | Affiliation |
|--|--|--|
| <i>Mariya O. Chalienko, Eugene E. Borisovets, Pavel A. Fedotov</i> | Current state of <i>Strongylocentrotus pallidus</i> resources in the western Bering sea | Pacific Scientific Research Fisheries Center (TINRO-Center); Far Eastern Federal University, Russia |
| <i>Delik D. Gabaev</i> | An aquaculture safe for other inhabitants of sea | National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Tatyana V. Bosh</i> | Contribution of symbiotic dinoflagellate (zooxanthellae) in lipid and fatty acid compositions of the soft coral <i>Capnella</i> sp. | National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Vitaly K. Fischenko, Alexey E. Subote, Petr S. Zimin, Anna A. Goncharova</i> | The use of stationary underwater video surveillance systems for the evaluation of life indicators barnacle | V.I. Il'ichev Pacific Oceanological Institute FEB RAS, Russia |
| <i>Vladislav A. Goy, Vladimir V. Kostenko, Denis N. Mikhailov, Anton Yu. Tolstonogov</i> | The autonomous underwater robotic complex for marine bio-resources monitoring | Institute of Marine Technology Problems FEB RAS, Russia |
| <i>Ekaterina S. Ukolova</i> | The usage of marine organisms for ecological monitoring of the Kozmino Bay influenced by Transneft Kozmino Port, LLC | Transneft Kozmino Port, LLC, Russia |
| <i>Haekyun Yoo, Kie-Young Park</i> | Growth and energy budget of the red king crab, <i>Paralithodes camtschaticus</i> larvae | East Sea Fisheries Research Institute, National Institute of Fisheries Science; Gangneung–Wonju National Universtiy, Republic of Korea |
| <i>Dmitry A. Sokolenko, Roman V. Vlasenko</i> | GIS employment in investigation of Pacific oyster beds in the northern part of Amursky Bay (Sea of Japan) | Pacific Scientific Research Fisheries Center (TINRO-Center), Russia |
| <i>Sergey V. Galkin, Georgiy M. Vinogradov, Konstantin R. Tabachnik, Elena I. Rybakova, Alexandr Y. Konoplin, Viktor V. Ivin</i> | Distribution of benthic fauna on the Vulkanologov Massif – Komandor Basin slope: investigations with ROV “Comanche 18” | P.P. Shirshov Institute of Oceanology RAS; National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Alla V. Silina</i> | Monitoring of community of the Japanese scallop with its shell endobionts at the northwestern coasts of the Sea of Japan | National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Irina M. Yakovleva, Anna V. Skriptsova</i> | Application of chlorophyll fluorescence technique for monitoring of oil pollution impact on macrofitobenthos in shallow coastal areas | National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Anton A. Zinov, Inna V. Stonik</i> | The qualitative and quantitative composition of autumn phytoplankton in Peter the Great Bay, the north-western Sea of Japan during 2012–2015 | National Scientific Center of Marine Biology FEB RAS; Far Eastern State Technical Fisheries University, Russia |

| | | |
|---|--|---|
| <i>Jin Hee Wi, Young-Jae Lee, Hee Yoon Kang, Chang-Keun Kang</i> | New record of the genus <i>Hexapleomera</i> Dudich, 1931 (Crustacea: Tanaidacea: Tanaididae) from the South Korea, based on morphological and molecular evidence | School of Earth Sciences and Environmental Engineering, Gwangju Institute of Science and Technology, Republic of Korea |
| <i>Jin Hee Wi, Young-jae Lee, Hee Yoon Kang, Chang-Keun Kang</i> | A new genus and species of sphyrapodid tanaidaceans (Crustacea: Peracarida) from the southern coast of the South Korea | School of Earth Sciences and Environmental Engineering, Gwangju Institute of Science and Technology, Republic of Korea |
| <i>Ekaterina V. Ermolenko, Nikolay A. Latyshev, Sergey P. Kasyanov, Ruslan M. Sultanov</i> | Inclusion of 1-O-alkyl-sn-glycerol and docosahexaenoic acid in rat liver lipids | National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Zhanna V. Markina, Alexander Yu. Popik, Miroslava A. Sabutskaya</i> | Cells number dynamic and photosynthetic apparatus function under copper pollution | National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University; Institute of Automation and Control Processes, FEB RAS, Russia |
| <i>Viktoria A. Matveeva, Lidia V. Shulgina</i> | Preservation method of quality of sea urchin roe during storage | Far Eastern Federal University; Pacific Scientific Research Fisheries Centre, Russia |
| <i>Aleksei V. Chernyshev, Neonila E. Polyakova</i> | Deep-sea nemerteans of the VEMA-Transit expedition | National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia |
| <i>Elena I. Rybakova, Antonina Kremenetskaia, Andrey A. Vedenin, Antje Boetius, Andrey V. Gebruk</i> | Megabenthic communities in deep-sea Central Arctic | P.P. Shirshov Institute of Oceanology FEB RAS, Russia; Alfred Wegener Institute for Polar and Marine Research, Germany; Max Planck Institute for Marine Microbiology, Germany |
| <i>Natalia V. Zhukova</i> | Lipids and fatty Acids of nudibranch mollusks: potential sources of bioactive compounds | National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia |
| <i>Yaroslav O. Kamenev, Marina G. Eliseikina, Sergey I. Maslennikov, Igor Yu. Dolmatov</i> | Electron microscopy analysis of embryonal and larval development of <i>Mizuhopecten yessoensis</i> (Bivalvia, Pectinidae) | National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia |
| <i>Vladimir I. Kharlamenko, Tatiana S. Tarasova</i> | Fatty acids of deep-sea Foraminifera | National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Kseniya V. Efimova, Vladimir A. Brykov, Andrey D. Kukhlevskiy</i> | Genetic analysis of gray whales during 2012-2015 near of Sakhalin Island | National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia |
| <i>Sergey V. Galkin, Georgy M. Vinogradov, Konstantin R. Tabachnik, Alexander Y. Konoplin, Victor V. Ivin</i> | Biological investigations of the Piip Volcano with ROV “Comanche 18” | P.P. Shirshov Institute of Oceanology RAS; National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Lubov V. Zvereva, Oleg G. Borzykh</i> | Comparison of fungal complexes of Japanese scallop <i>Mizuhopecten yessoensis</i> from different areas in the Peter the Great Bay of the Sea of Japan | National Scientific Center of Marine Biology FEB RAS, Russia |

| | | |
|--|---|---|
| <i>Anna A. Anisimova, Irina A. Kirsanova</i> | Polyploid cells in haemolymph of scallops <i>Swiftopecten swifti</i> (Bernardi, 1858) in the Vostok Bay of the Sea of Japan (Russia) | Far Eastern Federal University, Russia |
| <i>Alexander V. Kalachev, Olga V. Yurchenko, Vladimir G. Osten</i> | Phenotypic plasticity during larval development of sea urchin, <i>Strongylocentrotus intermedius</i> | National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia |
| <i>Ruslan M. Sultanov, Ekaterina V. Ermolenko, Nikolay A. Latyshev, Sergey P. Kasyanov, Yuliya K. Denisenko</i> | Alkyl glycerol ethers affect lipid metabolism and hematological parameters of blood in old-aged rats | National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University; Vladivostok Branch of Far Eastern Scientific Center of Physiology and Pathology of Respiration – Research Institute of Medical Climatology and Rehabilitation Treatment, Russia |
| <i>Ilya A. Shcherbakov, Nataliya P. Fadeeva, Pavel A. Kireyev</i> | The structure and distribution of marine benthic communities in relation to body size in the northeastern Sakhalin shelf in the Piltun and Chayvo Area (the Sea of Okhotsk) | National Scientific Center of Marine Biology FEB RAS; Far Eastern Federal University, Russia |
| <i>Yulia A. Trebukhova, Olga N. Pavlyuk, Yulia K. Zograf, Nguyen Dinh Tu, Nguyen Thi Xuan Phuong</i> | Seasonal changes in meiofauna communities in Tien Yen Estuary (South China Sea, Vietnam) | National Scientific Center of Marine Biology FEB RAS; Institute of Ecology and Biological Resources, Vietnam Academy of Science and Technology, Vietnam |
| <i>Konstantin A. Lutaenko, Irina E. Volvenko</i> | Estimates of species richness of bivalve mollusks in various parts of the Sea of Japan | National Scientific Center of Marine Biology FEB RAS; Science and Educational Museum, Zoological Museum, Far Eastern Federal University, Russia |
| <i>Tatyana S. Tarasova, Sergey V. Galkin, Tatyana G. Lukina, Olga E. Kamenskaya, Alexandra V. Romanova</i> | First data on foraminiferans from colonies of the bivalve <i>Calyptogena pacifica</i> (family Vesicomidae) on the Piip submarine volcano (Bering Sea) | National Scientific Center of Marine Biology FEB RAS; P.P. Shirshov Institute of Oceanology RAS; Zoological Institute RAS; Far East Geological Institute FEB RAS, Russia |
| <i>Olga G. Shevchenko, Anna A. Ponomareva</i> | Bloom-forming phytoplankton species new for the marine Russian waters | National Scientific Center of Marine Biology FEB RAS, Russia |
| <i>Andrey N. Pavlov, Oleg G. Konstantinov</i> | Complex monitoring of the state of sea water basins by optical methods | The Institute of Automation and Control Processes FEB RAS; Far East Federal University; V.I. Il'ichev Pacific Oceanological Institute FEB RAS, Russia |
| <i>Tina N. Molodtsova, Sergey V. Galkin, Andrey V. Gebruk, Irina G. Dobretsova</i> | Fauna of soft sediment and inactive hydrothermal sulfide fields in the Russian Exploration Area on the Mid-Atlantic Ridge | P.P. Shirshov Institute of Oceanology RAS; Polar Marine Geosurvey Expedition, Russia |
| <i>Ly Thi Phuong Dang, Andrey B. Imbs, Pham Quoc Long</i> | Comparison of polar lipidoms of the soft corals from tropical and cold-water regions | Institute of Natural Product Chemistry, Vietnam Academy of Science and Technology, Vietnam; National Scientific Center of Marine Biology FEB RAS, Russia |

| | | |
|--|---|--|
| <i>Marina M. Basova</i> | Leukocyte formula of scorpion fish (<i>Scorpaena porcus</i> L.) as a biomarker of antropogenic pollution in the Black Sea coastal waters | A.O. Kovalevsky Institute of Marine Biological Researches RAS, Russia |
| <i>Elena E. Kostina, Irina N. Gladkikh, Aleksandra N. Kvetkina</i> | Sea anemones and biological activities of their extracts (the insular shelf and slope of the Kurile and Commander Islands) | National Scientific Center of Marine Biology FEB RAS; G.B. Elyakov Pacific Institute of Bioorganic Chemistry FEB RAS, Russia |