



Programme

*International Seminar on Biodiversity and Evolution of Mollusks,
September 26–27, 2019, Vladivostok, Russia*

September 26 (Thursday)

8.45–9.30. Registration and posters placement (Lobby of the A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS)

SESSION 1 – OPENING

Chair – Dr. Helena Fortunato

9.30–9.35. **Vyacheslav S. Odintsov**, Acting Director of the NSCMB. Welcome speech

9.35–9.40. **Konstantin A. Lutaenko**, Chair of the Organizing Committee. Opening speech

9.40–9.45. **Natalya Budaeva**, Co-Chair of the Organizing Committee. Opening remarks

9.45–10.00. Collective photo

SESSION 2

Chair – Dr. Natalya Budaeva

10.00–10.20. **Yuri I. Kantor** (A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow, Russia). Current malacology: historic impediments and advanced technology

10.20–10.40. Coffee break

10.40–11.00. **Louise Allcock** (National University of Ireland, Galway, Ireland). The evolution of cephalopods

11.00–11.20. **Helena Fortunato** (Hokkaido University, Sapporo, Japan). Mollusks as proxies in environmental studies

11.20–11.40. **Manuel António E. Malaquias** (University Museum of Bergen, University of Bergen, Norway). Cephalaspidea systematics: state of the art and future challenges

11.40–12.00. **Osamu Miura, Misako Urabe, Tomohiro Nishimura, Katsuki Nakai, Satoshi Chiba** (Kochi University, Nankoku, Kochi, Japan). Recent and rapid radiation of freshwater snails in the ancient Lake Biwa

12.00–13.30. Lunch

SESSION 3

Chair – Dr. Yuri Kantor

13.30–13.50. **Konstantin A. Lutaenko** (A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). Development of malacology in eastern Russia

13.50–14.10. **Christiane Todt** (Rådgivende Biologer AS and University Museum of Bergen, Bergen, Norway). *Apodomenia* – a solenogaster without a foot

14.10–14.30. **Larisa A. Prozorova** (Federal Scientific Center of the East Asia Terrestrial Biodiversity FEB RAS, Vladivostok, Russia). Land snail fauna of continental and oceanic islands of the Russian Far East

14.30–14.50. **Elena Vortsepneva, Yuri Kantor** (Lomonosov Moscow State University; A.N. Severtsov Institute of Ecology and Evolution RAS, Moscow, Russia). Radula fine morphology of the Conoidea

14.50–15.05. Coffee break

Chair – Dr. Elena Sayenko

15.05–15.25. **Lisette Mekkes, Willem Renema, Nina Bednaršek, Simone Alin, Richard A. Feely, Jef Huisman, Peter Roessingh, Katja T.C.A. Peijnenburg** (Naturalis Biodiversity Center, Leiden, The Netherlands). Pteropods make thinner shells along a natural ocean acidification gradient

15.25–15.45. **Vyacheslav Dyachuk** (A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok; ITMO University, St. Petersburg, Russia). The new achievements in molluscan neurodevelopment: morphology, evolutionary content and growth control by pharmacology

15.45–16.05. **Ronald G. Noseworthy, Shashank Keshavmurthy, Hee-Jung Lee¹, Hyun-Ki Hong, Hee-Do Jeung¹, Jong-Bin Kim¹, Sukgeun Jung, Kwang-Sik Choi** (Jeju National University, Jeju; ¹National Institute of Fisheries Science, Busan, Republic of Korea). An assemblage of mollusks associated and with the high latitude scleractinian coral *Alveopora japonica* (Eguchi, 1968) in Jeju Island, off the south coast of Korea

16.05–16.25. **Anatoly L. Drozdov, Elena M. Krylova, Sergey A. Tyurin** (Shirshov Institute of Oceanology RAS, Moscow, Russia). Gametes and reproduction of the chemosymbiotic bivalve mollusc *Calyptogena pacifica* Dall, 1891 (Vesicomidae: Pliocardiinae)

16.25–16.45. **Irina A. Ekimova, Yury V. Deart, Tatiana I. Antokhina, Anna L. Mikhlina, Dimitry M. Schepetov** (Lomonosov Moscow State University, Moscow, Russia). Stripes matter: first attempts to resolve *Coryphellina rubrolineata* O'Donoghue, 1929 species complex (Gastropoda: Nudibranchia)

17.00–18.00. Poster session (posters are placed in the morning and available for observation all the day)

18.00. Bus departs for Acfes-Seiyo Hotel (farewell party)

18.20-21.00. Farewell party (Acfes-Seiyo Hotel)

September 27 (Friday)

9.30–12.30. Tour to Primorsky Aquarium (PA)

9.00. Participants meet in the lobby of Bay Garden Hotel and go by bus to the PA

9.40. Arrival to the PA and guided excursion

11.00. Marine mammal show

11.40. Tour continued in the PA

12.30. Bus departs from the PA to Bay Garden Hotel (stops in the downtown for those wishing to look around)

POSTER SESSION

D. Yamazaki¹, T. Hirano², S. Uchida¹, O. Miura³, S. Chiba¹ (¹Tohoku University, Japan; ²University of Idaho, USA; ³Kochi University, Japan). Morphotypes and phylogeny of the marine gastropod genus *Tegula* in East Asia

Darya Yu. Blinova (Polar Branch of VNIRO (PINRO), Murmansk, Russia). Bivalve mollusks of Pacific origin in the Barents Sea: distribution and ecology

Kseniya N. Lisitsina (St. Petersburg State University, S.-Petersburg, Russia). Growth and distribution of the bivalve mollusc *Macoma calcarea* in the Kara Sea

Yana N. Alexandrova¹, Alina V. Komkova¹, Yulia A. Reunova¹, Liliana Milani², Arkadiy A. Reunov^{1,3} (¹A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia; ²University of Bologna, Bologna, Italy; ³St. Francis Xavier University, Antigonish, Canada). A study of the germ plasm granule formation during oogenesis of the bivalve mollusc *Ruditapes philippinarum*

Elena M. Chaban, Elena V. Soldatenko (Zoological Institute, Russian Academy of Sciences, St.-Petersburg, Russia). The breeding pattern of abyssal mollusks of the genus *Ringiculoides* Minichev, 1966 (Heterobranchia, Ringiculidae)

Elena M. Chaban^{1*}, Irina A. Ekimova², Dmitry M. Schepetov^{2,3}, Peter C. Kohnert^{4,5}, Michael Schrödl^{4,5}, Alexei V. Chernyshev^{6,7} (¹Zoological Institute RAS, St. Petersburg, Russia; ²Lomonosov Moscow State University, Moscow, Russia; ³Koltzov Institute of Developmental Biology RAS, Moscow, Russia; ⁴SNSB Bavarian State Collection of Zoology, Munich, Germany; ⁵Ludwig Maximilians–Universität, Planegg–Martinsried, Germany; ⁶Far Eastern Federal University, Vladivostok, Russia; ⁷A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). Euopisthobranch mollusks of the order Cephalaspidea (Gastropoda: Heterobranchia) of the Kuril-Kamchatka Trench and the adjacent area of the Pacific abyssal plain

Delik D. Gabaev, Natalya K. Kolotukhina (A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). Distribution of some pelagic larvae of bivalve mollusks in the western part of Chukchi Sea

Elizaveta R. Gafarova¹, Arina L. Maltseva¹, Marina V. Panova², Marina A. Varfolomeeva¹, Natalia A. Mikhailova³, Andrei I. Granovich¹ (¹St. Petersburg State University, St. Petersburg, Russia; ²Göteborg University, Strömstad, Sweden; ³Institute of Cytology RAS, St. Petersburg, Russia). Microbial aspect of mollusc host species divergence: metabarcoding study in intertidal snails' cryptic species

Jana V. Indriksone¹, Yury V. Deart², Tatiana I. Antokhina², Anna L. Mikhlina¹, Dmitry M. Schepetov^{1,3}, Irina A. Ekimova¹ (¹Lomonosov Moscow State University, Moscow; ²A.N. Severtzov Institute of Ecology and Evolution RAS, Moscow; ³N.K. Koltzov Institute of Developmental Biology RAS, Moscow, Russia). New data on cladobranch diversity (Gastropoda: Nudibranchia) in Vietnam

Jonathan P. Miller¹, Diana Delicado², Marian A. Ramos¹ (¹National Museum of Natural Science, Madrid, Spain; ²Justus Liebig University, Gießen, Germany). Disentangling the taxonomy of *Mercuria* Boeters, 1971 using an integrative approach

Valentin N. Kokarev¹, Ulyana V. Simakova², Nadezhda N. Rimskaya-Korsakova³, Elena M. Krylova² (¹Nord University, Bodø, Norway; ²Shirshov Institute of Oceanology RAS, Moscow; ³Lomonosov Moscow State University, Moscow, Russia). *Parathyasira* cf. *dunbari* in Arctic waters

Alina V. Komkova¹, Yana N. Alexandrova¹, Yulia A. Reunova¹, Liliana Milani², Arkadiy A. Reunov^{1,3} (¹A.V. Zhirmunsky National Scientific Centre of Marine Biology FEB RAS, Vladivostok, Russia; ²University of Bologna, Bologna, Italy; ³St. Francis Xavier University, Antigonish, Canada). Vasa-positive germ plasm granules as a factor in the shift from mitosis to meiosis in gametogenic cells of the bivalve mollusc *Ruditapes philippinarum*

Evgeniy B. Lebedev (Far Eastern Marine Biosphere Reserve, NSCMB FEB RAS, Vladivostok, Russia). On the intertidal bivalve fauna in the Far Eastern Marine Biosphere Nature Reserve (Peter the Great Bay, Sea of Japan)

Violeta López-Márquez¹, David Buckley^{1,2}, José Templado¹, Annie Machordom¹ (Museo Nacional de Ciencias Naturales, Madrid; ²Universidad Autónoma de Madrid, Spain). Going in depth into the evolutionary relationships between two species of the *Gibbula* genus

Natalya A. Masalkova, Yu. Ph. Kartavtsev (A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). Hybrid zone between two mussel species, *Mytilus trossulus* and *Mytilus galloprovincialis*, in north-western Japan Sea: genetic and morphologic variability

Anna L. Mikhlina^{1,2}, Irina A. Ekimova¹, Alexander B. Tzetlin^{1,2}, Elena V. Vortsepneva¹ (¹Lomonosov Moscow State University, Moscow; ²N.A. Pertsov White Sea Biological Station, Moscow, Russia). A tool equipment for a tiny driller: first look at the morphology of the buccal complex of *Doto coronata*

Elizaveta V. Naduvaeva, Elena V. Vortsepneva (Lomonosov Moscow State University, Moscow, Russia). Locomotion of *Chaetoderma nitidulum* (Mollusca, Aplacophora)

Ekaterina Nikitenko, Elena Vortsepneva (Lomonosov Moscow State University, Moscow, Russia). Morphology of Onchidorididae's (Mollusca, Nudibranchia, Doridoidei) spicules networks

Ronald G. Noseworthy, Kwang-Sik Choi (Jeju National University, Jeju, Republic of Korea). Mollusks associated with *Ulva* spp. along the coasts of Jeju Island, South Korea

Larisa A. Prozorova¹, X.Q. Ngo², V.A. Ternovenko (¹Federal Scientific Center of the East Asia Terrestrial Biodiversity FEB RAS, Vladivostok, Russia; ²Institute of Tropical Biology VAST, Ho Chi Minh City, Vietnam). Aquatic and terrestrial molluscs of the Con Dao Archipelago (southern Vietnam): first results of malacological survey in March 2019

Anna V. Radovets^{1,2}, Natalya K. Kolotukhina³ (¹Far Eastern Federal University, Vladivostok; ²Admiral Nevelskoy Maritime State University, Vladivostok; ³A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). Species composition and distribution of pelagic larvae of bivalves in Nevelski Strait

Elena M. Sayenko (Federal Scientific Center of the East Asia Terrestrial Biodiversity FEB RAS, Vladivostok, Russia). Glochidia of *Inversiunio jokohamensis* from Nagara River basin (Honshu Island, Gifu Prefecture, Japan)

Svetlana N. Sharina^{1,2}, Alexei V. Chernyshev^{1,2}, Nadezhda I. Zaslavskaya¹ (¹A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok; ²Far Eastern Federal University, Vladivostok, Russia). Phylogenetic position of the limpet genus *Erginus* (Patellogastropoda)

Justine Siegwald, Trond R. Oskars, Manuel António E. Malaquias (University Museum of Bergen, University of Bergen, Norway). First global phylogeny of the deep-sea gastropod genus *Scaphander* reveals higher diversity, a possible need for generic revision and polyphyly across oceans

Alla V. Silina (A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). Sexual size dimorphism in the scallop *Mizuhopecten yessoensis*

Ekanerina N. Krol¹, Ivan O. Nekhaev² (Murmansk Arctic State University, Murmansk; St. Petersburg State University, St. Petersburg, Russia). Skeneidae and Anatomidae in the seas of the Eurasian Arctic

Meghan Yap-Chiongco (University of Alabama, Tuscaloosa, USA). The use of aplacophoran comparative and evolutionary genomics to study molluscan biomineralization

Olga V. Yurchenko, Alexander V. Kalachev, Oleg G. Borzykh (A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). Morphological aspects of spermatogenesis in *Calyptogena pacifica*

Natalia V. Zhukova^{1,2}, Marina G. Eliseikina², Evgeniy S. Balakirev^{2,3}, Francisco J. Ayala³ (¹A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok; ²Far Eastern Federal University, Vladivostok, Russia; ³University of California, Irvine, USA). Evolutionary novelty: symbiosis of nudibranch mollusk with denitrifying and diazotrophic prokaryotes and actinomycetes

Evgenia E. Vekhova (A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). The mytilid's connecting system: from the bivalve mollusks to a substratum

Irina E. Volvenko (Far Eastern Federal University, Vladivostok, Russia). Collection of mollusks from Korea in the Zoological Museum, Science and Educational Museum, Far Eastern Federal University (Vladivostok)

M. Kniazkina¹, Elena Kotsyuba², Aleksander Kalachev², Polina Kameneva², Vyacheslav Dyachuk^{2,3} (¹Far Eastern Federal University, Vladivostok; ²A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia; ³Karolinska Institutet, Stockholm, Sweden). The diversity of neurotransmission-related molecules in the central nervous system of the mussel *Crenomytilus grayanus*

Elena E. Voronezhskaya¹, Olga V. Yurchenko², Anna V. Savelieva², Natalia K. Kolotuchina² and Vyacheslav A. Dyachuk^{2,3} (¹N.K. Koltzov Institute of Developmental Biology RAS, Moscow; ²A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia; ³Karolinska Institutet, Stockholm, Sweden). How does the nervous system develop: the role of peripheral neurons in formation of a tetra-neuronal nervous system

Gennady M. Kamenev (A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS, Vladivostok, Russia). Fauna and distribution of bivalves of the Kuril-Kamchatka Trench (Pacific Ocean)

Kazunori Hasegawa (*National Museum of Nature and Science, Tsukuba, Japan*). Distinctiveness of the sublittoral and upper bathyal vetigastropod fauna of the Ogasawara Islands (Mollusca: Gastropoda)

Polina A. Dulenina (Khabarovsk Branch of the All-Russian Research Institute of Fisheries and Oceanography, Khabarovsk, Russia). Brief description of bivalve mollusks of the Mayskaya Thermal Electric Plant marine techno-ecosystem in Zapadnaya Bay (Sovetskaya Gavan Bay, Tatar Strait)

Larisa A. Prozorova, Ksenya V. Fomenko, Alina V. Kudrashina (Federal Scientific Center of the East Asia Terrestrial Biodiversity FEB RAS, Vladivostok, Russia). Land snail fauna of islands in the Peter the Great Bay (Sea of Japan): biodiversity and distributional patterns