CURRICULUM VITAE

Evgeniia E. Vekhova

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EDUCATION

2002-2007	**PhD** (Biology) A.V. Zhirmunsky Institute of Marine Biology, Far East Branch, Russian Academy of Sciences, Vladivostok, Russia
1997-2002	**MS** (Biology) Far Eastern State University, Department of Hydrobiology, Ichthyology and Aquaculture, Vladivostok, Russia

ACADEMIC APPOINTMENTS

Jan 2019 – present	**Research Scientist**, Laboratory of Cellular Differentiation, A.V. Zhirmunsky National Scientific Center of Marine Biology of Far Eastern Branch of the Russian Academy of Sciences, Vladivostok, Russia
Dec 2011 – Dec 2018	**Postdoctoral Research Scientist**, Laboratory of Cellular Differentiation, A.V. Zhirmunsky Institute of Marine Biology, Vladivostok, Russia
Dec 2011 – Jan 2012	**Visitor,** The National Museum of Natural History (Smithsonian Institution; Washington, DC)
Sep 2011 – Dec 2011	**Short-Term Research Fellowship**, Laboratory of Comparative Physiology, N.K. Koltsov Institute of Developmental Biology RAS, Moscow, Russia
2008–2011	**Postdoctoral Research Scientist**, Laboratory of Invertebrate Ecology, A.V. Zhirmunsky Institute of Marine Biology, Vladivostok, Russia

GRANTS

2014-2016	Far Eastern Federal University Research Grant 14-08-01-4_и
2013-present	Russian Foundation for Basic Research (RFBR) Research Grant 13-04-00946-а
2012-2015	
2012-2015	Far East Branch of Russian Academy of Sciences (FEBRAS) Research Grant 12-I-П6-04
2012-2015	Far East Branch of Russian Academy of Sciences (FEBRAS) Research Grant 12-I-П30-10
2012-2014	Far East Branch of Russian Academy of Sciences (FEBRAS) Research Grant 12-I-П6-08
2011-2012	Russian Foundation for Basic Research (RFBR) Grant 12-04-01510-а
2011-2012	Russian Foundation for Basic Research (RFBR) Field Work Grant 12-04-10119-к
	The Malacological Society of London Research Grant
2011	Russian Foundation for Basic Research (RFBR) Grant 11-04-90762-mob_st
2011	Russian Foundation for Basic Research (RFBR) Field Work Grant 11-04-10128-к
2010-2011	Russian Foundation for Basic Research (RFBR) Research Grant 10-04-00330-а
2010	Russian Foundation for Basic Research (RFBR) Field Work Grant 10-04-10134-к
2010	Far East Branch of Russian Academy of Sciences (FEBRAS) Research Grant 10-III-B-06-114
2009	Russian Foundation for Basic Research (RFBR) Travel Grant 09-04-08349-з
2009-2011	Far East Branch of Russian Academy of Sciences (FEBRAS) Research Grant 09-III-A-06-210
2009	Far East Branch of Russian Academy of Sciences (FEBRAS) Research Grant 09-III-B-06-254
2004	Far East Branch of Russian Academy of Sciences (FEBRAS) Research Grant (04-3-Г-06-004)
2002	Russian Foundation for Basic Research (RFBR) Field Work Grant (01-04-63093-к)

AWARDS & HONORS

2007-2006	Russian Science Support Foundation Award

TEACHING EXPERIENCE

2005-2007	Lecturer, Far Eastern State University, Department of Hydrobiology and Ichthyology, Vladivostok, Russia
2007	Field Course Instructor, Department of Biochemistry and Biotechnology of Far Eastern State University, Marine Biological Station "Zapavednoe" (FESU), Kievka, Coastal region

PUBLICATIONS

Vekhova, E.E. The byssal apparatus in the Pacific mussel, (*Mytilus trossulus*, Bivalvia, Mytilidae), from the Sea of Japan. 2021. *Biology Bulletin*. 48(9): 1443–1451.

Vekhova, E.E. The byssal apparatus in the Pacific mussel, *Mytilus trossulus* (Bivalvia, Mytilidae), from the Sea of Japan. 2021. *Russian Journal of Zoology*. 100(5): 483–492. (in Russian).

Reunov, A., Lutaenko, K., **Vekhova, E.**, Zhang, J., Zakharov, E., Sharina, S., Alexandrova, Ya., Reunova, Yu., Akhmadieva, A., Adrianov, A. 2021. In the Asia-Pacific region, the COI DNA test revealed the divergence of the bivalve mollusc *Mactra chinensis* into three species; can these species be distinguished using shell coloration and sperm structure? *Helgoland Marine Research*. 75: 7.

Reunov, A., Alexandrova, Ya., Komkova, A,, Reunova, Yu., Pimenova, E., **Vekhova, E.**, Milani, L. 2021. VASA-induced cytoplasmic localization of CYTB-positive mitochondrial substance occurs by destructive and nondestructive mitochondrial effusion, respectively, in early and late spermatogenic cells of the Manila clam. *Protoplasma*. 258: 817–825.

Vekhova, E.E. 2019. The Adaptive Morphology of Byssus in *Mytilus coruscus*, *Crenomytilus grayanus*, and *Modiolus modiolus* (Mytilidae, Bivalvia) from the Sea of Japan. *Biology Bulletin.* 46(9): 1030–1044.

Vekhova, E.E. 2019. Adaptive morphology of byssus in *Mytilus coruscus, Crenomytilus grayanus* and *Modiolus modiolus* (Mytilidae, Bivalvia) from the Sea of Japan. *Russian Journal of Zoology*. 98(3): 245–259. (in Russian).

Reunov A.A., **Vekhova E.E.**, Zakharov E.V., Reunova Y.A., Alexandrova Y.N., Sharina S.N., Adrianov A.V. 2018. Variation of sperm morphology in Pacific oyster precludes its use as a species marker but enables intraspecific geo-authentification and aquatic monitoring. *Helgoland Marine Research.* 72:8.

Vekhova, E.E., Reunov A.A. 2017. Study on sperm heteromorphismin some mussels (Bivalvia: Mytilidae) from the Sea of Japan. *The Bulletin of the Russian Far East Malacological Society*. 21(1/2):129–142. (in Russian).

Vekhova, E.E., Kusaykin, M.I, Kiselev, K.V. 2015. Activity of 1,3- β -D-glucanases and expression of the *cg-glu1* in the

mussel *Crenomytilus grayanus* (Bivalvia) in three bays of the Sea of Japan. *Journal Achievements in the Sciences of Life*. Vol. 9. P. 69–77.

Reunov, A.A., Lutaenko, K.A., Zakharov, E.V., **Vekhova, E.E.,** Reunova, Yu.A., Alexandrova, Ya.N., Sharina, S.N., Adrianov, A.V. 2014. Disproportional heteromorphism of male gametes in the bivalve mollusk *Mactra chinensis* is related to genetic divergence of this species. *Doklady Biological Sciences*. Vol. 455. P. 132–135.

Lutaenko K.A., Reunov A.A., Zakharov E.V., **Vekhova E.E.**, Reunova Yu.A., Alexandrova Ya.N., Sharina S.N., Adrianov A.V. 2014. Two forms of *Mactra chinensis* Philippi, 1847 (Bivalvia, Mactridae) show disproportional heteromorphism of sperm // *The Bulletin of the Russian Far East Malacological*. 18(2): 82–84.

Vekhova, E.E. 2013. The significance of byssi and their morphological diversity within the superfamily Pterioidea. *The Malacologist*. № 61. P. 14-16. ISSN 1759-1406.

Vekhova, E.E., Reunov, A.A., Alexandrova, Ya.N., Reunova, Yu.A., Adrianov, A.V. 2013. First data on sperm heteromorphism in the mussels *Crenomytilus grayanus* and *Mytilus trossulus* (Bivalvia) from the Sea of Japan. *Doklady Biological Sciences*. Vol. 453. P. 1–4.

Vekhova, E.E. 2013. Peculiarities of growth and shell morphology of three mytilidae (Bivalvia) species from the Sea of Japan. *Russian Journal of Zoology* 92(4): 399–408.

Vekhova, E.E. 2013. Growth and shell morphology of three Mytilidae (Bivalvia) species from the Sea of Japan. *Biology Bulletin* 40(9): 728–737.

Vekhova, E.E. 2013. Comparative analysis of weight-dimensions relations of three commercial Mytilid's species (Bivalvia) from the Sea of Japan. *Problems of Fisheries*. Vol. 14, № 1(53). P. 26–36. (in Russian).

Vekhova, E., Ivashkin, E.. Yurchenko, O., Chaban, A., Dyachuk, V., Khabarova, M. and Voronezhskaya, E. 2012. Modulation of *Mytilus trossilus* (Bivalvia: Mollusca) larval survival and growth in culture. *Acta Biologica Hungarica*. V. 63, Suppl. 2. P. 354–358.

Vekhova, E.E. 2008. Reattachment to substrate in three mytilid species (Bivalvia) from the Sea of Japan. *The Bulletin of the Russian Far East Malacological Society* 12: 79–97. (in Russian).

Vekhova, E.E. 2007. Comparative morphology of byssal threads in three Mytilidae (Bivalvia) species from the Sea of Japan. *Russian Journal of Zoology* 86(2): 154–162. (in Russian).

Vekhova, E.E. & Selin, N.I. 2006. Reattachment of certain species of mytilid bivalves to various substrates. *Russian Journal of Marine Biology* 32(5): 308–311.

Selin, N.I., **Vekhova, E.E.** 2004. Dynamics of byssal thread production in *Crenomytilus grayanus* and *Modiolus modiolus* (Bivalvia) upon reattachment to substrate. *Russian Journal of Marine Biology* 30(6): 418–420.

Selin, N.I., **Vekhova, E.E.** 2004. Effects of environmental factors on byssal thread formation in some members of the family Mytilidae from the Sea of Japan. *Russian Journal of Marine Biology* 30(5): 306–313.

Selin, N.I., **Vekhova, E.E.** 2003. Morphological adaptations of the mussel *Crenomytilus grayanus* (Bivalvia) to attached life. *Russian Journal of Marine Biology* 29(4): 230–235.

Selin, N.I., **Vekhova, E.E.** 2002. Morphology of the bivalve mollusks *Crenomytilus grayanus* and *Mytilus coruscus* in relation to their spatial distribution in the upper subtidal zone. *Russian Journal of Marine Biology* 28(3): 213–217.

PRESENTATIONS

2019

Vekhova E.E. The mytilid's connecting system: from the bivalve mollusks to a substratum // International Seminar on Biodiversity and Evolution of Mollusks, September 26–27, 2019, Vladivostok, Russia.

Vekhova E.E. Investigation of mussel's byssus formation system in *Mytilus trossulus* Gould, 1850 (Bivalvia: Mytilidae) from the Sea of Japan // Proceedings of the Russia-China Bilateral Workshop on «Marine Biodiversity for a Healthy Ocean – Biodiversity, Functional Groups and Ocean Health», October 10–11, 2019, Vladivostok, Russia.

2014

Reunov A.A., Lutaenko K.L, Zakharov E.V., **Vekhova E.E.,** Reunova Yu.A., Alexandrova Y.N., Sharina S.N., Adrianov AV. Two forms of *Mactra chinensis* Philippi, 1847 show disproportional heteromorphism of sperm // Molluscs of the Eastern Asia and adjacent Seas, Vladivostok, Russia, October 6–8, 2014.

2012

Reunov A.A., **Vekhova E.E.**, Alexandrova Y.N., Reunova Y.A., Adrianov A.V. Intraspecific male gamete diversity in the mussels *Crenomytilus grayanus* and *Mytilus trossulus*; phenomenon of sperm pattern overlap // Proceedings of the Russia-China Bilateral symposium on «Marine Ecosystems under the Global Change in the Northwest Pacific»

Vladivostok, Russia, 2. P. 111–114. [report]

2011

Chaban A.K., **Vekhova E.E**, Yurchenko O.V, Ivashkin E.G, Khabarova M.Yu., Voronezhskaya E.E. Ontogenetic adaptation of the larval mussel *Mytilus trossilus* (Bivalvia: Mytilidae) to the wide range of salinity levels: a role of the nervous system. Proceedings of 2d International Scientific-practical conference "High Technology, Fundamental and Applied Researches in the Physiology and Medicine", St.Peterburg, Russia, October 26–29, 2011. P. 338.

Vekhova E., Ivashkin E., Yurchenko O., Dyachuk V., Khabarova M. and Voronezhskaya E. Neuronal modulation of larval growth in bay mussel *Mytilus trossilus* developed in various salinities. Abstracts of 12th Symposium on Invertebrate Neurobiology, Tihany, Hungary, August 31–September 4, 2011. P. 75.

Voronezhskaya E.E., Dyachuk V.A., Yurchenko O.V., **Vekhova E.E.**, Khabarova M.Yu., Fofanova E.G., Ivashkin E.G. Serotonin and FMRFamide in regulation of development of the bay mussel *Mytilus trossilus* in various salinity conditions. Proceedings of Ninth Göttingen Meeting of the German Neuroscience Society, German, Göttingen, March 23–27, 2011.

2010

Vekhova E.E., Kusaykin M.I. and Kiselev K.V. The phytoplankton contribution to the diet: a comparison of two mussels diet (Mollusca: Bivalvia) from different biotopes of the Sea of Japan. Abstracts of 19th PICES Annual Meeting "North Pacific Ecosystems Today, and Challenges in Understanding and Forecasting Change", Portland, OR, U.S.A., October 22–31, 2010. [poster]

Vekhova Evgeniya E., Kusaykin Mikhail I., Kiselev Konstantin V. The phytoplankton contribution to the diet of some mussel species (Mollusca: Bivalvia) from different parts of the Sea of Japan // Proceedings of China-Russia Bilateral symposium on «Comparison on Marine Biodiversity in the Northwest Pacific Ocean» October 10-11, 2010, Qingdao, China. P. 103.

Vekhova E.E. Functional Morphology of Mytilidae (Bivalvia) Byssus in Relation to Their Habitation // Tropical Natural History. 2010. Suppl. 3. P. 200. (17th World Congress of Malacology. Phuket, Thailand, 18–24 July, 2010: Abstracts). P. 259. [poster]

2009

Vekhova E.E., M.I. Kusaykin and K.V. Kiselev. The phytoplankton contribution to the common mussel diet (Bivalvia: Mytilidae) of the Sea of Japan. Abstracts of 18th PICES Annual Meeting "Understanding ecosystem dynamics and pursuing ecosystem approaches to management", Jeju, Korea, October 23–November 1, 2009.

Vekhova E.E. Peculiarities of fine structure of the byssus apparatus in three mytilid (Bivalvia: Mytilidae) species in relation to their attached lifestyle in different biotopes. Abstracts of the 12th All-Russian Intern. Sci. Conf. on Topical Questions of Chemistry and Biology. *MES PIBOC FEB RAS*, Vladivostok, Russia, September 07–14, 2009.

Vekhova E.E. 2009. Peculiarities of the nutrition common Mytilidae (Bivalvia) species from the Sea of Japan. Abstracts of the 9th congress of the Hydrobiological Society. *IBM FEB RAS*, Vladivostok, Russia, September 28–October 02, 2009. [poster]

2008

Vekhova E.E. and M. Kusaykin. Some data on feeding trends of common Mytilidae (Bivalvia) species from the Sea of Japan. Abstracts of 1st Far-Eastern International Symposium on Life Sciences. *PIBOC FEB RAS,* Vladivostok, Russia, September 2–7, 2008.

Vekhova E.E. and N.I. Selin. Byssus attachment strength of three commercial Mytilidae (Bivalvia) species as adaptation of mollusks to habitation in different biotopes. Proceedings of the Conference Devoted to Diamond Anniversary of S.M. Konovalov "Current Status of water bioresources". TINRO-center, Vladivostok, Russia March 25–27, 2008.

2006

Vekhova E.E. Morpho-physiological characteristics of mytilid byssus complex (Mollusca: Bivalvia) as reflection of the species spatial distribution. Abstracts of the 9th congress of the Hydrobiological Society. *IEVB RAS*, Tolyatti, Russia, September 18–22, 2006.

2004

Vekhova E.E. Morphology of the byssal threads of some Mytilidae species from the Sea of Japan. Abstracts of the conference "Mollusks of the Northeastern Asia and Northern Pacific: Ecology, Biogeography and Faunal History". *IMB FEB RUS*, Vladivostok, Russia, October 4–6, 2004.

Vekhova E.E. and N.I. Selin. Peculiarities of byssal threads morphology of some Mytilidae species (Bivalvia) in connection with the functional significance. Abstracts of the 3rd All-Russian Intern. Sci. Conf. *TINRO-center*,

Vladivostok, Russia, May 24–June 4, 2004.

2003

Vekhova E.E. Rate of byssal thread formation in specimens *Crenomytilus grayanus* and *Modiolus modiolus* with different shell size depend on temperature of environment. Proceedings of the 6th Regional Conference on Topical Questions of Marine Biology, Ecology and Biotechnology. *Far East State University,* Vladivostok, Russia, November 20–22, 2003.

Vekhova E.E. Mechanical properties of byssal thread in relation vertical distribution of species (Bivalvia: Mytilidae) in the upper subtidal zone. Proceedings of All-Russian conference "Complex investigations and processing of marine and fresh-water hydrobionts. *TINRO-center*, Vladivostok, Russia, April 22–27, 2003.

PROFESSIONAL MEMBERSHIPS

Member of the Russian Far East Malacological Society

Member of the Hydrobiological Society in the RAS

OTHER ACTIVITY

Member of the Young Soviet of Scientists of IMB FEB RAS 2009-2012

The honorary donor of blood of Russia from 2007

Reviewer of the paper of Halaman et al. in Russian journal of invertebrate zoology, 2008