Olga Yurchenko

Laboratory of Embryology
A.V. Zhirmunsky Institute of Marine Biology of the Far Eastern Branch of the Russian Academy of Sciences
17 Palchevsky Street
Vladivostok, Russia, 690059
+7 (423) 2311-143 (voice), **+7** (423) 2310-900 (fax), +79147053730 (cell)
olyurchenko@yandex.ru

EDUCATION

Ph.D. in Developmental Biology "The influence of phenol and cadmium on the sperm cells and nutritive phagocytes of sea urchins *Strongylocentrotus nudus* and *Anthocidaris crassispina*"
Supervisor: Prof. Reunov A.A. Institute of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Vladivostok, Russia, **December 2004**

Master of Hydrobiology
Far Eastern National University, Academy of Ecology, Marine Biology and Biotechnology, Chair of Hydrobiology **June 1996**

PROFESSIONAL EXPERIENCE

Research

Research Scientist, Institute of Marine Biology, Vladivostok, Russia, **2004 – present**

Post-graduate Student, Institute of Marine Biology, Vladivostok, **2001 – 2004**

Intern–Researcher, Institute of Marine Biology, Vladivostok, **1999 – 2001**

Teaching

Teacher of Biology, High school № 62 (Vladivostok Russia), **1994-1998**

GRANTS

Collaborative grants

The effects of environmental pollution on the reproduction and larval development of benthic invertebrates in coastal areas of Taiwan International Russian-Taiwan grant (Russian Foundation of Basic Research) with Drs V. Radashevsky and H.-L. Hsieh (2005-2008).

Formation of the neuro-muscular complex in bivalve mollusks and its roles in the regulation of development: Comparative study of marine and freshwater species with Dr. E. Voronezhskaya Russian Foundation of Basic Research (2009-2011).

Integrative functions of neurotransmitters during premetamorphic phase of life-cycle in invertebrates and low vertebrates: cellular and molecular mechanisms with Dr. E. Voronezhskaya Russian Foundation of Basic Research (2012-2014).

SCIENTIFIC EXPERIENCE & METHODS

Methods & Equipment

- optical microscopy (light, inverted, fluorescence, laser scanning microscopy). Microscopes Polyvar, Axio Imager (Carl Zeiss), Leica SPE, Leica DM 4500.
- electron microscopy (transmission and scanning). Libra 120, Libra 200 (Carl Zeiss), JEOLl JEM 100S
- histological and histochemical
- histoimmunochemical and cytoimmunochemical labeling
- field study and experimental studies in laboratory conditions

Animals, tissues and cells

- Mollusks (Fam. Ostreidae, Mytilidae, Pectinidae)
- Gonads tissues, embryos, larvae
- Germ cells, accessory cells, vesicular-connective tissue cells.

LIST OF PUBLICATIONS

Articles

Yurchenko O.V., Radashevsky V.I., Hsieh H.-L., Reunov A.A. Ultrastructural comparison of the spermatozoa of the Pacific oyster *Crassostrea gigas* inhabiting polluted and relatively clean areas in Taiwan // Aquatic Ecology. 2009. Vol. 43. № 2. P. 513-519.

Yurchenko O.V., Radashevsky V.I., Reunov. A.A. Ultrastructural study of spermatogenesis in the pacific oyster *Crassostrea gigas* (Bivalvia: Ostreidae) from the Sea of Japan // Invertebrate Zoology. 2010. Vol. 7, № 1. P. 55-69.

Yurchenko O.V., Vaschenko M.A. Morphology of spermatogenic and accessory cells in the mussel *Modiolus kurilensis* under environmental pollution // Marine Environmental Research. 2010. Vol. 70. P. 171-180.

Yurchenko O.V. Comparative ultrastructural study of spermatozoa in some oyster species from the Asian-Pacific Coast // Micron. 2012. Vol. 43. P. 365-373.

Vekhova E.E. Ivashkin E.G., Yurchenko O.V., Chaban A.K., Dyachuk V.A., Khabarova M.Yu., Voronezhskaya E.E. Modulation of *Mytilus trossulus* (Bivalvia: Mollusca) larval survival and growth in culture // Acta Biologica Hungarica. 2012. Vol. 63 (Suppl. 2). P. 230-234.

RESEARCH INTERESTS

- Ultrastrucrure of spermatozoa and mature oocytes
- Ultrastructural aspects of spermatogenesis and oogenesis
- Role of gamete morphology in the interspecific hybridization and reproductive isolation
- Development and organization of nervous system of the mollusk larvae
- Influence of antropogenic pollution on mollusk’s reproduction