

Andrey N. Ostrovsky

CURRICULUM VITAE

16 August, 2020

Date of birth: 18 August 1965**Place of birth:** Orsk, Orenburg area, Russia**Nationality:** Russian**Family:** married, two children**Researcher ID** D-6439-2012**SCOPUS ID:** 7006567322**ORCID:** 0000-0002-3646-9439**Current positions:**Professor at the Department of Invertebrate Zoology, Faculty of Biology,
Saint Petersburg State University, RussiaResearch associate at the Department of Palaeontology, Faculty of Earth Sciences, Geography
and Astronomy, University of Vienna, Austria**Address in Russia:**Department of Invertebrate Zoology, Faculty of Biology
Saint Petersburg State University, Universitetskaja nab. 7/9
199034, Saint Petersburg, Russia**Tel:** 007 (812) 328 96 88, **FAX:** 07 (812) 328 97 03**Web-pages:**<http://zoology.bio.spbu.ru/Eng/People/Staff/ostrovsky.php><http://www.vokrugsveta.ru/authors/646/><http://elementy.ru/bookclub/author/5048342/>**Address in Austria:**Department of Palaeontology, Faculty of Earth Sciences, Geography and Astronomy
Geozentrum, University of Vienna, Althanstrasse 14, A-1090 Vienna, Austria**Tel:** 0043-1-4277-53531, **FAX:** 0043-1-4277-9535**Web-pages:**http://www.univie.ac.at/Palaeontologie/PERSONS/Andrey_Ostrovsky_EN.htmlhttp://www.univie.ac.at/Palaeontologie/Sammlung/Bryozoa/Safaga_Bay/Safaga_Bay.html#<http://www.univie.ac.at/Palaeontologie/Sammlung/Bryozoa/Oman/Oman.html#>http://www.univie.ac.at/Palaeontologie/Sammlung/Bryozoa/Maldives_Islands/Maldives_Islands.html#**E-mails:** oan_univer@yahoo.coma.ostrovsky@spbu.ruandrei.ostrovsky@univie.ac.at

Degrees and education:

2006 Doctor of Biological Sciences [Doctor of Sciences]. Faculty of Biology & Soil Science, Saint Petersburg State University. Dissertation in evolutionary zoomorphology. *Major research topic:* Evolution of bryozoan reproductive strategies. The anatomy, morphology and reproductive ecology of cheilostome bryozoans. DSc Thesis: “Evolution of sexual reproduction in the order Cheilostomata (Bryozoa: Gymnolaemata)”. Saint Petersburg State University, 630 pp. [in Russian].

1995 Candidate of Biological Sciences [Doctor of Philosophy]. Faculty of Biology & Soil Science, Saint Petersburg State University. Dissertation in evolutionary zoomorphology. *Major research topic:* Bryozoan systematics and morphology. The taxonomy, ecology, variability, development and colony construction of cyclostome bryozoans. PhD Thesis: “Evolution of erect colony construction in some groups of tubuliporids (Bryozoa, Stenolaemata): examples from the Antarctic fauna”. Saint Petersburg State University, 210 pp. [in Russian].

1992 Higher Education Diploma with Distinction [Master of Science in Biology], Saint Petersburg State University, Faculty of Biology & Soil Science. *Subject of examination:* biology and zoology. Grade-point average is 5.0 by the 5-point scale, where 5 is high Saint

1982-86 Volgograd State Pedagogical Institution [Teachers’ Training College], Faculty of Geography & Natural Sciences. *Subject of examination:* geography and biology. Grade-point average record of 5.0.

1982 Secondary Education completed: 10 years. Grade-point average of 5.0.

Complete professional and scientific background:

Positions:

- *time:* 19 July, 2017–present time
- *position:* Professor at the Department of Invertebrate Zoology
- *name and place of institution:* Faculty of Biology, Saint Petersburg State University, Russia

- *time:* October 2015–December 2018
- *position:* Project Leader (Principal Investigator – senior postdoctoral researcher)
- *name and place of the institution:* Department of Palaeontology, Faculty of Earth Sciences, Geography and Astronomy, Universität Wien, Austria
- *financed by:* Fonds zur Förderung der wissenschaftlichen Forschung

- *time:* October 2014–November 2014
- *position:* visiting Professor
- *name and place of the institution:* Station Marine d’Endoume, Centre d’Oceanologie de Marseille, Rue de la Batterie des Lions, 13007 Marseille, France
- *financed by:* Aix-Marseille University
- *name and address of scientific mentor:* Professor, Dr Alexander Ereskovsky, Labex OT-Med, Station Marine d’Endoume, Centre d’Oceanologie de Marseille, Rue de la Batterie des

Lions, 13007 Marseille, France

- *time*: July 2010–May 2013
- *position*: Project Leader (Principal Investigator – senior postdoctoral researcher)
- *name and place of the institution*: Department of Palaeontology, Faculty of Earth Sciences, Geography and Astronomy, Universität Wien, Austria
- *financed by*: Fonds zur Förderung der wissenschaftlichen Forschung

- *time*: January 2007–December 2009
- *position*: postdoctoral researcher
- *name and place of the institution*: Department of Palaeontology, Faculty of Earth Sciences, Geography and Astronomy, University of Vienna, Austria
- *financed by*: Fonds zur Förderung der wissenschaftlichen Forschung
- *name and address of scientific mentor*: Professor Dr Norbert Vávra, Institute of Palaeontology, Geozentrum, Universität Wien, Althanstrasse 14, A-1090 Wien, Austria

- *time*: October 2007–December 2007
- *position*: visiting lecturer
- *name and place of the institution*: Smithsonian Tropical Research Institute, Center for Tropical Paleocology and Archeology, Panama City, Republic of Panama
- *financed by*: Secretaria Nacional de Ciencia, Tecnologia e Innovacion (SENACYT)
- *name and address of scientific mentor*: Dr Aaron O’Dea, Smithsonian Tropical Research Institute, Center for Tropical Paleocology and Archeology, Calle Gorgas, Edificio 245, Balboa, Ankon, Box 0843-03092, Panama City, Republic of Panama

- *time*: September 2006
- *position*: visiting scientist
- *name and place of the institution*: Laboratory of Systematics and Evolution, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Japan
- *financed by*: Center of Excellence Program on Neo-Science of Natural History (COE)
- *name and address of scientific mentor*: Professor Dr Shunsuke F. Mawatari, Systematics and Evolution, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Sapporo 060-0810, Japan

- *time*: September 2005–July 2017
- *position*: Associate Professor at the Department of Invertebrate Zoology
- *name and place of institution*: Faculty of Biology & Soil Science, Saint Petersburg State University, Russia

- *time*: July 2005–September 2005
- *position*: visiting scientist
- *name and place of the institution*: Laboratory of Systematics and Evolution, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Japan
- *financed by*: Center of Excellence Program on Neo-Science of Natural History (COE)
- *name and address of scientific mentor*: Professor Dr Shunsuke F. Mawatari, Systematics and Evolution, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Sapporo 060-0810, Japan

- *time*: May 2003–April 2005
 - *position*: postdoctoral researcher
 - *name and place of the institution*: Institut für Paläontologie, Geozentrum, Universität Wien, Austria
 - *financed by*: Lise Meitner Foundation, Fonds zur Förderung der wissenschaftlichen Forschung
 - *name and address of scientific mentor*: Professor Dr Norbert Vávra, Institut für Paläontologie, Geozentrum, Universität Wien, Althanstrasse 14, A-1090 Vienna, Austria
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- *time*: August 2002–October 2002
 - *position*: visiting scientist
 - *name and place of the institution*: Department of Palaeontology, The Natural History Museum, London, Great Britain
 - *financed by*: SYS-Resource grant at the Natural History Museum
 - *name and address of scientific mentor*: Dr Paul D. Taylor, Department of Palaeontology, The Natural History Museum, Cromwell Road, SW7 5PB London, Great Britain
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- *time*: October 2000–November 2002
 - *position*: postdoctoral researcher
 - *name and place of the institution*: Institut für Geowissenschaften, Christian-Albrechts-Universität zu Kiel, Germany
 - *financed by*: Alexander von Humboldt Foundation
 - *name and address of scientific mentor*: Professor Dr. Priska Schäfer, Institut für Geowissenschaften, Christian-Albrechts-Universität zu Kiel, Olshausenstrasse 40, D-24118, Kiel, Germany
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- *time*: September 2000–May 2005
 - *position*: doctorant at the Department of Invertebrate Zoology
 - *name and place of institution*: Faculty of Biology & Soil Science, Saint Petersburg State University, Russia
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- *time*: May 1999–September 1999
 - *position*: intern
 - *name and place of the institution*: Newfound Harbour Marine Institute & Seacamp Association, Inc., Florida, USA
 - *financed by*: Special American Business Internship Program
 - *name and address of scientific mentor*: Dr. William A. Tyler III, Newfound Harbour Marine Institute, 1300 Big Pine Avenue, Big Pine Key, FL 33043, USA
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- *time*: October 1998–September 2000
 - *position*: Assistant Research Professor at the Department of Invertebrate Zoology
 - *name and place of institution*: Faculty of Biology & Soil Science, Saint Petersburg State University, Russia
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- *time*: May 1997–April 1998
 - *position*: postdoctoral researcher
 - *name and place of the institution*: Zoological Museum, University of Copenhagen, Denmark
 - *financed by*: Danish National Science Research Council

- *name and address of scientific mentor*: Professor, Dr. Claus Nielsen, Zoological Museum, University of Copenhagen, Universitetsparken 15, DK-2100, Copenhagen Ø, Denmark

- *time*: February 1996–July 1996

- *position*: visiting scientist

- *name and place of institution*: Zoological Museum, University of Copenhagen, Denmark

- *financed by*: Higher Education Committee of Russian Federation

- *name and address of scientific mentor*: Professor, Dr. Claus Nielsen, Zoological Museum, University of Copenhagen, Universitetsparken 15, DK-2100, Copenhagen Ø, Denmark

- *time*: February 1992–September 1998

- *position*: technician (laboratory assistant) at the Department of Invertebrate Zoology

- *name and place of institution*: Faculty of Biology & Soil Science, Saint Petersburg State University, Russia

- *time*: September 1992–October 1995

- *position*: post-graduate student

- *name and place of institution*: Faculty of Biology & Soil Science, Saint Petersburg State University, Russia

- *time*: October 1990–September 1991

- *position*: hydrobiologist (36th Soviet Antarctic Expedition)

- *name and place of institution*: Arctic & Antarctic Scientific Research Institute, Saint Petersburg, Russia

- *time*: September 1987–October 1990, September 1991–May 1992

- *position*: student

- *name and place of institution*: Faculty of Biology & Soil Science, Saint Petersburg State University, Russia

- *time*: May 1986–June 1987

- *position*: railway worker

- *name and place of institution*: industrial complex “Barrikady”, Volgograd, Russia

- *time*: October 1983–August 1984

- *position*: military service

- *name and place of institution*: border rangers, Nakhchivan, Azerbaijan

- *time*: September 1982–October 1983, September 1984–December 1985

- *position*: student

- *name and place of institution*: Faculty of Biology & Geography, Volgograd State Pedagogical Institution (Teachers’ Training College), Volgograd, Russia

Honours and Awards:

2017 A.N. Severtsov Prize of the Russian Academy of Sciences for selected publications series “Morpho-functional analysis of the key innovations in the different phylogenetic lineages of the phylum Bryozoa”

- 2011 Academician A.V. Ivanov Prize (established by Saint-Petersburg Union of Scientists, Russian Academy of Sciences, Zoological Institute RAN, Institute of Marine Biology RAN, Saint-Petersburg State University, Saint-Petersburg Society of Naturalists) for the monograph “Evolution of the sexual reproduction in the bryozoan order Cheilostomata (Gymnolaemata)”. Saint Petersburg State University
- 2007 Saint Petersburg Society of Naturalists Award for the monograph “Viviparity in Plants and Animals: Invertebrates and Lower Chordates” (in co-authorship). Saint Petersburg State University
- 1986 Honour Degree Diploma, Volgograd State Pedagogical Institution (Teachers’ Training College)
- 1985 2nd Prize in the Regional Students’ Competition in Geography (Saratov)
- 1985 1st Prize in the Regional Students’ Competition in Biology (Astrakhan’)

Scholarships & Fellowships:

- 2013-2015 Fellowship (postdoctoral) of the Lise Meitner Foundation, Austria (co-applicant of D. J. Souto-Deungs): M 1444-B25 “Biodiversity and ecology of bryozoans from Iberian seamounts”
- 2013 Mobility Fellowship of the French National Research Agency (CNRS): Labex OT-Med grant ANR-11-LABX-0061, through A*MIDEX grant ANR-11-IDEX-0001-02 (6.000,- €)
- 2006 Research Fellowships of the Center of Excellence Program on Neo-Science of Natural History (COE), Japan (8.578,- US\$)
- 2005 Research Fellowships of the Center of Excellence Program on Neo-Science of Natural History (COE), Japan (14.158,- US\$)
- 2003-2005 Fellowship (postdoctoral) of the Lise Meitner Foundation, Austria: M0700-B06 “Fossil brooders and modern reproductive strategies: the origin and early evolution of parental care in cheilostome bryozoans” (123.780,- €)
- 2000-2002 Fellowship (postdoctoral) of the Alexander von Humboldt Foundation, Germany: “Evolution of reproductive patterns in cheilostomatide Bryozoa: oogenesis, fertilization and brooding” (63.900,- €)
- 1999 SABIT (Special American Business Internship Program), USA (5.700,- US\$)
- 1998 Otto Kinne Foundation Fellowship, Germany (2.000,- DM)
- 1996 Scholarship (postdoctoral) of the Higher Education Committee of Russian Federation for scientific work abroad, Denmark (4.500,- US\$)
- 1995 Soros’ Postgraduate Student Scholarship, Russia (2.000,- US\$)
- 1991-1992 Saint Petersburg State University Personal Stipendship, Russia (400,- US\$)
- 1986 Lenin’s Stipendship (Volgograd State Pedagogical Institution), Russia

Grants:

- 2018-recent Russian Science Foundation, research grant 18-14-00086 “Evolution of placental analogues in aquatic colonial invertebrates (Bryozoa)” (81.700,- €)
- 2017-recent Leverhulme Trust, award RPG-2016-429 “Molecules meet fossils – an integrated approach to studying palaeodiversity” (grant holder Dr A. Waeschenbach)
- 2017 Saint Petersburg State University, research grant 1.42.739.2017 to prepare and conduct complex expedition to study the evolutionary aspects of the marine invertebrate biodiversity (in a frame of the project 1.38.233.2015) (6.000,- €)
- 2016 Saint Petersburg State University, research grant 1.42.1099.2016 to prepare and conduct

- complex expedition to study the evolutionary aspects of the marine invertebrate biodiversity (in a frame of the projects 1.38.253.2014 and 1.38.233.2015) (6.500,- €)
- 2016-2018 Russian Foundation for Basic Research, stand-alone project 16-04-00243-a “Evolution of oogenesis in marine colonial epibionts (Bryozoa, Gymnolaemata)” (16.900, - €)
- 2015-2018 Austrian Science Fund (Fonds zur Förderung der wissenschaftlichen Forschung), stand-alone project P27933-B29 “Evolution of viviparity and polyembryony in Cyclostomata” (352.665, - €)
- 2015 Saint Petersburg State University, research grant 1.42.1493.2015 to prepare and conduct complex expedition to study the evolutionary aspects of the establishment of the marine invertebrate biodiversity (in a frame of the projects 1.38.253.2014 and 1.38.233.2015) (20.150,- €)
- 2015-2017 Saint Petersburg State University, research grant 1.38.233.2015 “Phylum Bryozoa as a model for research on the origins and evolution of placental incubation in animals” (2015: 36.400,- €; 2016: 13.000,- €; 2017: 10.000,- €)
- 2014 Marine Alliance for Science and Technology in Scotland (Post-doctoral and Early Career Research Exchange) grant 9 “Techniques for investigating the life history of *Schizoporella japonica*: a unique and troublesome non-native fouler” (750 £)
- 2014 Russian Foundation for Basic Research, expedition grant 14-04-10082-κ to study co-evolution and integration of the protective skeletal structures in marine ascophoran bryozoans (Gymnolaemata, Cheilostomata) (7.100,- US\$)
- 2013 Russian Foundation for Basic Research, expedition grant 13-04-10145-κ to study co-evolution and integration of the protective skeletal structures in marine ascophoran bryozoans (Gymnolaemata, Cheilostomata) (7.100,- US\$)
- 2013-2015 Russian Foundation for Basic Research, stand-alone project 13-04-00758-a “Co-evolution and integration of the protective skeletal structures in marine ascophoran bryozoans (Gymnolaemata, Cheilostomata)” (25.200,- US\$)
- 2013 Russian Foundation for Basic Research, expedition grant 13-04-10145-κ to study co-evolution and integration of the protective skeletal structures in marine ascophoran bryozoans (Gymnolaemata, Cheilostomata) (7.100,- US\$)
- 2012 Russian Foundation for Basic Research, expedition grant 12-04-10118-κ to study anatomy, ultrastructure and evolution of the placental analogues in marine and freshwater bryozoans (Bryozoa: Gymnolaemata and Phylactolaemata) (4.000,- US\$)
- 2011 Rufford Small Grants Foundation, grant 9669-2 “Freshwater pearl mussels on the edge” (5.955,- €)
- 2011 Russian Foundation for Basic Research, expedition grant 11-04-10028-κ to study anatomy, ultrastructure and evolution of the placental analogues in marine and freshwater bryozoans (Bryozoa: Gymnolaemata and Phylactolaemata) (4.000,- US\$)
- 2011 Smithsonian Marine Science Network Award, grant FY11 “Investment in sex in Caribbean cupuladriid bryozoans” (14.754,- US\$)
- 2010-2013 Austrian Science Fund (Fonds zur Förderung der wissenschaftlichen Forschung), stand-alone project P22696-B17 “Evolution of matrotrophy and placental analogues in Bryozoa” (288.584,- €)
- 2010 Alexander von Humboldt Foundation, equipment donation (19.862,- €)
- 2010 Russian Foundation for Basic Research, expedition grant 10-04-10089-κ to study anatomy, ultrastructure and evolution of the placental analogues in marine and freshwater bryozoans (Bryozoa: Gymnolaemata and Phylactolaemata) (4.000,- US\$)
- 2010-2012 Russian Foundation for Basic Research, stand-alone project 10-04-00085-a

- “Comparative anatomy, ultrastructure and evolution of the placental analogues in marine and freshwater bryozoans (Bryozoa: Gymnolaemata and Phylactolaemata)” (30.000,- US\$)
- 2009 Russian Foundation for Basic Research, expedition grants 09-04-10077-к to study structure, development and functioning of brood chambers in the bryozoan superfamily Microporoidea (Bryozoa, Cheilostomata) (4.000,- US\$)
- 2008 Russian Foundation for Basic Research, publication grants 08-04-07033-д and 08-04-02000-э-д, monograph title “Evolution of the sexual reproduction in the bryozoan order Cheilostomata (Gymnolaemata)” (9.000,- US\$)
- 2008 Russian Foundation for Basic Research, expedition grant 08-04-10011-к to study structure, development and functioning of brood chambers in the bryozoan superfamily Buguloidea (Bryozoa, Cheilostomata) (4.000,- US\$)
- 2007-2009 Austrian Science Fund (Fonds zur Förderung der wissenschaftlichen Forschung), stand-alone project P19337-B17 “Global change, biodiversity and Paratethyan faunal interchanges: a case study using bryozoans with different larval strategies” (240.804,- €)
- 2007 SENACYT (Secretaria Nacional de Ciencia, Tecnología e Innovación, Republic of Panama) and the Smithsonian Tropical Research Institute, grant for advanced course of histological techniques in marine animals (9.440,- US\$)
- 2007 Russian Foundation for Basic Research, expedition grant 07-04-10046-к to study structure, development and functioning of brood chambers in the bryozoan suborder Flustrina (Bryozoa, Cheilostomata) (3.330,- US\$)
- 2007-2009 Russian Foundation for Basic Research, stand-alone project 07-04-00928-a “Comparative-anatomical study of brood chambers in the bryozoan suborder Flustrina (Cheilostomata): structure, development and evolutionary trends” (26.000,- US\$)
- 2004 Russian Foundation for Basic Research, publication grant 04-04-62039-д, book title “Viviparity in plants, invertebrates and chordates” (7.300,- US\$)
- 2002 Sys-Resource Grant at the Natural History Museum, London, “Origin and early evolution of brooding in cheilostome Bryozoa” (4.200,- £)
- 2001 Deutsche Forschungsgemeinschaft, grant Scha 355/20-1 “Brutkammern (Ovicellen) der Cheilostomatida (Bryozoa)” (1.600,- €)
- 2000 Systematics Association, educational project “Phylogenetic system: theory and practice” (900,- £)
- 1999-2003 Russian Federal Program “World Ocean: Investigation of Antarctic”, project “Antarctic biota: complex research. Comparative studies on anatomy and reproductive patterns of Antarctic cheilostomatide bryozoans” (100,- US\$)
- 1999 Personal grant (postdoctoral) for young researchers of Saint Petersburg Institutions “Ovicell anatomy and development in Calloporidae and Cribrimorpha (Bryozoa: Cheilostomata)” (100,- US\$)
- 1997-1998 Danish National Science Research Council, stand-alone project 9600682 in evolutionary zoomorphology “Studies on the ovicells structure in cheilostome bryozoans” (393.169,- DKK)
- 1997 Lerner-Gray Fund for Marine Research (American Museum of Natural History), personal grant “Taxonomy and variability of Antarctic cyclostomate bryozoans” (800,- US\$)
- 1996 Personal grant (postdoctoral) for young researchers of Saint Petersburg Institutions “Taxonomy and variability of Antarctic cyclostomate bryozoans” (100,- US\$)
- 1995 Personal grant for postgraduate students of Saint Petersburg Institutions “Taxonomy of Antarctic cyclostomate bryozoans” (100,- US\$)
- 1994 Lerner-Gray Fund for Marine Research (American Museum of Natural History),

personal grant “Taxonomy of Antarctic cyclostomate bryozoans” (820,- US\$)
1993 George Soros International Scientific Foundation, personal grant for research on
 biodiversity (500,- US\$)

Participation in conferences and workshops:

2019, 12-13 November International conference “Russian science in European context in the first half of XIX century”, devoted to 250 anniversary of the Alexander von Humboldt birthday and 190 anniversary of his travel across Russia. Russian National Library, Saint Petesburg, Russia. (oral presentation “German naturalists and Russia: from Leibnitz to Bütschli”)

2019, 6-22 June 18th Conference of the International Bryozoology Association, Technical University of Liberec, Czech Republic (oral presentation “Placental nourishment in ctenostome bryozoans: ultrastructural evidence” by **Ostrovsky A.N.** (speaker), Moosbrugger M., Schwaha T.F.; oral presentation “Placental nourishment in cyclostome bryozoans” by Nekliudova U.A. (speaker), Schwaha T.F., Kotenko O.N., Gruber D., Cyran N. & **Ostrovsky A.N.**; oral presentation “Comparative analysis of oogenesis in cheilostome bryozoans” by Shevchenko E.T. (speaker) & **Ostrovsky A.N.**; oral presentation “Life cycle and reproduction of stenostome bryozoan *Flustrellidra hispida* in the White Sea” by Kvach A.Yu. (speaker), Kutiumov V.A., Varfolomeeva M.A., Kotenko O.N. & **Ostrovsky A.N.**; oral presentation “The embryonic development of the freshwater bryozoan, *Plumatella casmiana*” by Bibermaier J. (speaker), **Ostrovsky A.N.**, Wanninger A. & Schwaha T.F.; oral presentation “Revealing a global pattern in bryozoan skeletal mineralogy - an overview of the project” by Piwoni-Piórewicz A., Krzemińska M., Achilleos K., Boonzaaijer M.K., Cumming R.L., Figuerola B., Florence W.K., Gordon D.P., Gudmundsson G., Hageman S., Liow L.H., Lombardi C., Mello H., Novosel M., O’Dea A., **Ostrovsky A.N.**, Porter J.S., Shunatova N.N., Smith A.N., Vieira L.M., Waeschenbach A. & Kukliński P. (speaker); oral presentation “Muscular system of cyclostome bryozoans” by Belikova E.V. (speaker), Schwaha T.F., Temereva E.N. & **Ostrovsky A.N.**; oral presentation “Cheilostome phylogeny: 300 taxa and growing” by Orr R.J., Berning B., Cumming R., Di Martino E., Gordon D.P., Haugen M., Kotenko O.N., Kukliński P., Jenkins H.L., Mello H., Obst M., **Ostrovsky A.N.**, Ramsfjell M., Sannum M., Smith A., Taylor P.D., Waeschenbach A. & Liow L. (speaker); oral presentation “The mitochondrial genome of freshwater bryozoan *Cristatella mucedo*” by Kutiumov V.A. (speaker), Maltseva A.L., Starunov V.V., Belikova E.V. & **Ostrovsky A.N.**; oral presentation “First evidence of the association of symbiotic bacteria with cyclostome bryozoans” by Kotenko O.N. (speaker), Nekliudova U.A., Vichnyakov A.E. & **Ostrovsky A.N.**; oral presentation “Bacteriophages as part of the symbiotic system of bryozoans and their bacterial symbionts” by Karagodina N.P. (speaker), Belikova E.V., Vichnyakov A.E. & **Ostrovsky A.N.**; oral presentation “Cheilostome bryozoan evolution through time – insights from a time-calibrated family-level phylogeny” by Waeschenbach A. (speaker), Jenkins H.L., Taylor P.D., Gordon D.P., Spencer Jones M., Martha S.O., Di Martino E., Cooper N., Kukliński P., Vieira L.M., Porter J.S., Berning B., Florence W., Smith A.M., **Ostrovsky A.N.**, Souto Derungs J., Krzemińska M., Håkansson E., Bock P., Grant H., Harmelin J.-G., Kotenko O.N., Liow L.H. & Orr R.S.)

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2019, 1-5 April LXV Meeting of the All-Russian Paleontological Society “Morphological evolution and stratigraphic problems”, All-Russian Science-Research Geological Institute,

- Russian Academy of Sciences, Saint Petersburg, Russia (oral presentation “Cretaceous bryozoans from central Colombia: first results” by **Ostrovsky A.N.** (speaker), Taylor P.D. & Jaramillo C.)
- 2018, 21-24 August 11th International conference “Biodiversity: genomics and evolution, BioGenEvo-2018”, Institute of Cytology and Genetics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia (oral presentation “**The genome and transcriptome of a freshwater bryozoan *Cristatella mucedo***” by Starunov V.V. (speaker), Predeus A.V., Barbitoff Y.A., Maltseva A.L., Kutyumov V.A., Vodiasova E.A., Chelebueva E.S., Romanova D.V., **Ostrovsky A.N.** & Moroz L.L.)
- 2018, 25-28 September 22nd Evolutionary Biology Meeting at Marseilles, Association pour l’Etude de l’Evolution Biologique, France (invited talk “Matrotrophy in invertebrates: distribution, structure, evolution”)
- 2018, 21-22 November Conference dedicated to the memory of academician G.A. Zavarzin “Evolution of biosphere from ancient times to our days”, Borissiak Paleontological institute, Russian Academy of Sciences, Moscow, Russia (oral presentation “Destiny of coral reefs in antropocene”)
- 2018, 19-21 November International conference “Marine biology, geology, oceanology: interdisciplinary research at marine stations and labs” (80th Anniversary of the Nikolai Pertsov White Sea Biological Station), Lomonosov Moscow State University, Russia (oral presentation “Placental nourishment in cyclostome bryozoans” by Nekliudova U.A., Gruber D., Cyran N. & **Ostrovsky A.N.** (speaker))
- 2018, 19-21 December Conference “Invertebrate Zoology – New Century”, dedicated to the 160th anniversary of the Department of Invertebrate Zoology, Faculty of Biology, Lomonosov Moscow State University (oral presentation “Breaking rules: evolution of paradoxical reproductive strategy in phoronids” by Temereva E.N. & **Ostrovsky A.N.** (speaker); poster “Application of confocal laser scanning microscopy for the studies on the muscular system of cyclostome bryozoans (Bryozoa, Stenolaemata)” by Belikova E.B. & **Ostrovsky A.N.**; poster “Study on the ultrastructural peculiarities of interrelations bryozoans and their bacterial symbionts” by Karagodina N.P., Vishnyakov A.E., Kotenko O.N., Maltseva A.L. & **Ostrovsky A.N.**; poster “Mitochondrial genome of freshwater bryozoan *Cristatella mucedo*” by Kutiumov V.A., Starunov V.V., Maltseva A.L. & **Ostrovsky A.N.**; poster “Comparative characterization of oogenesis in Cheilostomata” by Shevchenko E.T. & **Ostrovsky A.N.**)
- 2017, 22-24 November annual conference “Morphogenesis in the individual and historical development: ontogenesis and formation of biological diversity”, Borissiak Paleontological institute, Russian Academy of Sciences, Moscow, Russia (invited lecture “250 years of zoology in Russia: an invertebrate retrospect”; oral presentation “Multiple independent origins of parental care in Bryozoa: skeletons, molecules, larvae” by Grant H., Kotenko O.N., Waeschenbach A. & **Ostrovsky A.N.** (speaker))
- 2017, 18–23 August 4th International Congress on Invertebrate Morphology, International Society for Invertebrate Morphology, Lomonosov Moscow State University, Russia (keynote lecture “250 years of zoology in Russia: an invertebrate retrospect” by **Ostrovsky A.N.**; oral presentation “Structural and transport adaptations for symbiosis between bryozoans and bacteria” by Vishnyakov A.E., Karagodina N.P., Kotenko O.N., Schwaha T.F., Moosbrugger M. & **Ostrovsky A.N.** (speaker); oral presentation “Diversity of muscular systems in cheilostome Bryozoa” by Belikova E.V. (speaker), Schwaha T.F. & **Ostrovsky A.N.**; oral presentation “Evolutionary transition from incipient to substantial placentotrophy in bugulid bryozoans” by **Ostrovsky A.N.** (speaker), Schwaha T.F. &

Moosbrugger M.; oral presentation “Structural diversity of gymnolaemate larvae (Bryozoa): nervous and muscular systems” by Kotenko O.N. (speaker) & **Ostrovsky A.N.**; oral presentation “Comparative ultrastructure of placental analogues in Bryozoa” by Nekliudova U.A. (speaker) & **Ostrovsky A.N.**; oral presentation “The neuromuscular system of cyclostome bryozoan shows more similarity to gymnolaemates than phylactolaemates, an example of *Cinctipora elegans*” by Schwaha T.F. (speaker), Batson P., Smith A., Handschuh S., Nekliudova U., **Ostrovsky A.N.** & Wanninger A.; oral presentation “Neuroanatomy of polymorphic zooids in cheilostome Bryozoa: example of avicularia” by Serova K.M., Vishnyakov A.E., Zaitseva O.V., Kotenko O.N. & **Ostrovsky A.N.** (speaker); poster presentation “Comparative ultrastructure of oogenesis in cheilostome Bryozoa with different reproductive patterns” by Shevchenko E.T., Matvienko D.A., Kotenko O.N. & **Ostrovsky A.N.**)

2017, 25–28 May XIV Larwood Symposium the International Bryozoology Association, University of Vienna, Austria (oral presentation “Myoanatomy of gymnolaemate larvae: searching for homologies” by Kotenko O.N. (speaker) & **Ostrovsky A.N.**; oral presentation “New ultrastructural data on crisiid Cyclostomata” by Nekliudova U.A. (speaker), Schwaha T.F., Gruber D., Cyran N. & **Ostrovsky A.N.**; oral presentation “Muscular system of the cyclostome bryozoan *Crisia eburnea*: preliminary data” by Belikova E.V. (speaker), Schwaha T.F. & **Ostrovsky A.N.**; oral presentation “Transitions of reproductive strategies in the Cheilostomatida: repeated evolution or loss of embryonic incubation?” by Grant H. (speaker), **Ostrovsky A.N.**, Kotenko O.N., Gordon D.P., Waeschenbach A.)

2016, May 3rd All-Russian and International Conference and School for Young Scientists and Students dedicated to the 110th anniversary of academician A.V. Ivanov “Modern Problems of Evolutionary Morphology of Animals”. Zoological Institute, Russian Academy of Sciences, Saint Petersburg, Russia (oral presentation “Larval musculature in gymnolaemate Bryozoa” by Kotenko O.N. (speaker), Kutyumov V.A. & **Ostrovsky A.N.**; oral presentation “Placental analogue in *Celleporella hyalina*: development, structure, functioning” by Nekliudova U.A. (speaker) & **Ostrovsky A.N.**; oral presentation “Comparative analysis of the nervous system of autozoid and avicularium in cheilostome bryozoans” by Serova K.M. (speaker), Vishnyakov A.E., **Ostrovsky A.N.** & Zaitseva O.V.; oral presentation “Comparative characterization of oogenesis in Cheilostomata” by Shevchenko E.T. (speaker) & **Ostrovsky A.N.**)

2016, 15–19 May XI East European Conference of the International Society for Invertebrate Neurobiology, Biological Station of the Moscow State University, Zvenigorod, Russia (poster presentation “Comparative neuromorphology of autozoid and avicularium in the cheilostome Bryozoa: example of *Arctonula arctica*”, by Serova K.M., Vishnyakov A.E., Zaitseva O.V. & **Ostrovsky A.N.**)

2016, 10–15 April Workshop and 17th Conference of the International Bryozoology Association, Melbourne Museum, Australia (oral presentation “Cyclostome sexual reproduction”, by **Ostrovsky A.N.** (speaker) & Nekliudova U.A.; oral presentation “Ecology, evolution and distribution of bathyal bryozoans in the NE Atlantic – a midterm assessment”, by Berning B. (speaker), Souto J., Reverter-Gil O., **Ostrovsky A.N.** & Harmelin J.-G.; oral presentation “Bryozoan life-histories in the White Sea”, by Nekliudova U.A., Shevchenko E.T., Shunkina K.V., Kotenko O.N. & **Ostrovsky A.N.** (speaker); oral presentation “Dynamics of the sexual structure and oogenesis in four boreal-arctic cheilostome bryozoans”, by Shevchenko E.T., Nekliudova U.A., Kotenko O.N. & **Ostrovsky A.N.** (speaker); “Comparative neuroanatomy of avicularia –

- polymorphic zooids of cheilostomate Bryozoa”, by Serova K.M., Vishnyakov A.E., Kotenko O.N. & **Ostrovsky A.N.** (speaker); oral presentation “An updated molecular phylogeny of Bryozoa”, co-authored by Waeschenbach A. (speaker), Gordon D.P., Jenkins H., Batson P.B., Smith A.M., Kotenko O.N., **Ostrovsky A.N.**, Glover A.G., Wiklund H., Taylor P.D.) (travel grant of the Saint-Petersburg State University: 860,- €)
- 2015 14th Deep Sea Biology Symposium. Universidade de Aveiro, Aveiro, Portugal (oral presentation “Bathyal bryozoans from NE Atlantic seamounts and islands: biogeography, ecology and evolution”, by Berning B. (speaker), Souto J., Reverter-Gil O., **Ostrovsky A.N.** & Harmelin J.-G.)
- 2014 XII Larwood Symposium the International Bryozoology Association, Polish Oceanographic Institute, Sopot, Poland (oral presentation “Dynamics of sexual reproduction in the cheilostome bryozoan *Cribrilina annulata* in the Chupa Inlet (Kandalaksha Bay, White Sea)”, by Nekliudova U.A. (speaker), Shunkina K.V. & **Ostrovsky A.N.**; oral presentation “Life history of *Callopora craticula* (Cheilostomata, Gymnolaemata) in the Chupa Inlet (Kandalaksha Bay, White Sea)”, by Shevchenko E.T. (speaker), Nekliudova U.A., Kotenko O.N. & **Ostrovsky A.N.**; oral presentation “Preliminary data on microanatomy and ultrastructure of avicularia in five cheilostome bryozoans”, by Kalinich K.M. (speaker), Vishnyakov A.E., Kotenko O.N. & **Ostrovsky A.N.**; oral presentation “Comparing sexual reproduction in two Mediterranean bryozoans *Myriapora truncata* and *Adeonella calveti*: preliminary results”, by **Ostrovsky A.N.** (speaker), Nekliudova U.A., Shevchenko E.T. & Ereskovsky A.V.)
- 2014 3rd International Congress on Invertebrate Morphology, Natural History Museum, Humboldt University, Berlin, Germany (oral presentation “Origin and diversity of non-feeding larvae in the bryozoan class Gymnolaemata”, by Kotenko O.N. (speaker) & **Ostrovsky A.N.**; oral presentation “How many times has matrotrophy evolved in animals?” by **Ostrovsky A.N.** (speaker), Lidgard S., Gordon D.P., Schwaha T. & Ereskovsky A.V.; poster “New data on the nervous system of freshwater bryozoans”, by Shunkina K.V., Starunov V.V., Zaitseva O.V. & **Ostrovsky A.N.**) (travel grant of the Saint Petersburg State University: 825,- €)
- 2014 49th European Marine Biology Symposium, Zoological Institute, Russian Academy of Sciences, Saint Petersburg, Russia (oral presentation “Predator-prey relationships at bathyal depths: a case study using cheilostome bryozoans”, by Berning B. (speaker), Souto J., Reverter-Gil O. & **Ostrovsky A.N.**; oral presentation “Life cycle and gametogenesis of the cheilostome bryozoan *Cribrilina annulata* (Gymnolaemata) on the substrata with different longevity in the White Sea”, by Shunkina K.V. (speaker), Nekliudova U.A. & **Ostrovsky A.N.**; poster “First data on the sexual reproduction in the Mediterranean cheilostome bryozoans *Myriapora truncata* and *Adeonella calveti*”, by Nekliudova U.A., Shevchenko E.T., Ereskovsky A.V. & **Ostrovsky A.N.**; poster “Life history of *Callopora craticula* (Cheilostomata, Gymnolaemata) in Chupa Inlet (Kandalaksha Bay, White Sea)”, by Shevchenko E.T., Nekliudova U.A., Kotenko O.N. & **Ostrovsky A.N.**)
- 2013 16th Conference of the International Bryozoology Association, University of Catania, Italy (invited seminar “Ovicells in cheilostome Bryozoa: morphology, taxonomy and systematics”; plenary talk “How many times has embryonic incubation evolved in Bryozoa?”; oral presentation “Larval types in Gymnolaemata: their diversity and evolution”, by Kotenko O.N. (speaker) & **Ostrovsky A.N.**; oral presentation “Diversity of reproductive patterns in the genus *Bugula* (Bryozoa, Cheilostomata) and its evolutionary implications”, by Moosbrugger M. (speaker), Schwaha T. & **Ostrovsky**

- A.N.**; oral presentation “Extraembryonic nutrition in Ctenostomata and Phylactolaemata”, Schwaha T. (speaker), Moosbrugger M. & **Ostrovsky A.N.**; oral presentation “Serotonergic and FMRF-amide-ergic elements in the nervous system of three freshwater bryozoans”, co-authored by Shunkina K.V. (speaker), Starunov V.N., Zaytseva O.V. & **Ostrovsky A.N.**; oral presentation “Analysis of an antimicrobial activity in a marine bryozoan”, by Maltseva A.L. (speaker), Kotenko O.N. & **Ostrovsky A.N.**; oral presentation “First record of bryozoans from Iran (Qeshm Island, Persian Gulf)”, by Mohammadpour S. (speaker), Berning B., **Ostrovsky A.N.**, Cáceres-Chamizo J.P. & Rahimian H.; oral presentation “What, is anything, is a lyrula?”, by Berning B., Tilbrook K.J. & **Ostrovsky A.N.** (speaker); oral presentation “Bryozoans from Atlantic Iberian seamounts: preliminary results from the Galicia Bank”, by Souto-Derungs J. (speaker), Berning B., Reverter-Gil O. & **Ostrovsky A.N.**; oral presentation “Bryozoan images in the works of early naturalists: Rondelet, Imperato, Ellis and others” by **Ostrovsky A.N.**)
- 2013 2nd BioSyS.EU meeting “Global Systematics!”, University of Vienna, The Natural History Museum, Vienna (oral presentation “Evolution of colonial animals: towards a “superorganism”; oral presentation “Intraorganismal phenotypic variability and polymorphism: bryozoans as model organisms for evolutionary studies”, by Berning B. (speaker) & **Ostrovsky A.N.**)
- 2012 International Meeting on Biology and Conservation of Freshwater Bivalves, School of Agriculture, Polytechnic Institute of Bragança, Bragança, Portugal (oral presentation “Rediscovery of the freshwater pearl mussel (*Margaritifera margaritifera*) populations within the territory of the Baltic Sea basin in Russia”, by Popov I.Yu. (speaker) & **Ostrovsky A.N.**)
- 2012 XI Larwood’s Symposium, Department of Geological Sciences, Masaryk University, Brno, Czech Republic (oral presentation “Bryozoan images in the works of early naturalists: Rondelet, Imperato, Ellis and others”; oral presentation “Diversity of *Exechonella* Duvergier, 1924 in the tropical seas”, by Cáceres-Chamizo J.P. (speaker) & **Ostrovsky A.N.**; oral presentation “The placental analogue and the pattern of oogenesis in the cheilostome bryozoan *Bicellariella ciliata*”, by Moosbrugger M. (speaker), Schwaha T., Walzl M. & **Ostrovsky A.N.**; oral presentation “New data on the nervous system of three phylactolaemate species: *Cristatella mucedo*, *Plumatella repens* and *Fredericella sultana*”, by Shunkina K.V. (speaker), Starunov V.N. & **Ostrovsky A.N.**; oral presentation “Often used but ill-defined: what is a lyrula?”, by Berning B. (speaker), Tilbrook K.J. & **Ostrovsky A.N.**; oral presentation “Placental nourishment in the genus *Bugula* (Bryozoa, Cheilostomata)”, by Schwaha T. (speaker), Moosbrugger M. & **Ostrovsky A.N.**)
- 2011 School for Young Scientists and Students “Modern Problems of Evolutionary Morphology of Animals” dedicated to the 105th anniversary of academician A.V. Ivanov. Zoological Institute, Russian Academy of Sciences, Saint Petersburg, Russia (invited lecture “Matrotrophy and its supplying structures in invertebrates: distribution, morpho-functional peculiarities, evolution”)
- 2011 2nd All-Russian and International Conference dedicated to the 105th anniversary of academician A.V. Ivanov “Modern Problems of Evolutionary Morphology of Animals”. Zoological Institute, Russian Academy of Sciences, Saint Petersburg, Russia (oral presentation “Ultrstructure of the placental analogue in ctenostome bryozoan *Zoobotryon verticillatum* (Delle Chiaje, 1828) (Gymnolaemata)”, by **Ostrovsky A.N.** (speaker) & Schwaha T.)
- 2011 International workshop on Bryozoa, University of the Azores, Ponta Delgada, Saõ

- Miguel Island, Azores, Portugal (invited course of lectures “Life in a colony: an introduction to the Bryozoa”, by **Ostrovsky A.N.** & Berning B.) (travel grant of University of the Azores: 1500,- €)
- 2011 All-Russian Conference “Modern Problems of Biological Systematics”, Zoological Institute, Russian Academy of Sciences, Saint Petersburg, Russia (oral presentation “Palaeontological record and problems of systematics and phylogeny exemplified by bryozoans”)
- 2011 X Larwood’s Symposium, University of Santiago de Compostell (oral presentation “Brooding and maternal provisioning in ctenostome bryozoans”, by Schwaha T. (speaker), Moosbrugger M. & **Ostrovsky A.N.**)
- 2011 2nd International Congress on Invertebrate Morphology, Cambridge, USA (oral presentation “Structure of placental analogues in the phylum Bryozoa”, by Schwaha T. (speaker), Moosbrugger M. & **Ostrovsky A.N.**)
- 2010 Workshop and 15th Conference of the International Bryozoology Association, Institut für Geowissenschaften, Christian-Albrechts-Universität zu Kiel, Germany (plenary talk “Extraembryonic nutrition and placental analogues in cheilostome Bryozoa”) (travel grant of the Alexander von Humboldt Foundation: 900,- €)
- 2010 1st Alexander Becker Readings, Volgograd State University, Russia (oral presentation “Independent evolution of the placental analogues in Bryozoa”)
- 2010 LVI Meeting of the All-Russian Paleontological Society “Evolution of the Organic World and Biotic Crises”, All-Russian Science-Research Geological Institute, Russian Academy of Sciences, Saint Petersburg, Russia (oral presentation “Late Cretaceous radiation of cheilostome bryozoans (Gymnolaemata) and its possible reasons”)
- 2009 Bryozoan taxonomy workshop, Sven Lovén Centre for Marine Science, Kristineberg, Sweden (travel grant of the University of Gothenburg: 400,- €)
- 2009a IX Larwood’s Symposium, University of Oslo, Norway (oral presentation “Bryozoan collections from the Red Sea, Maldives and Oman: current progress in identification”, by Cáceres J.P. (speaker), Vávra N. & **Ostrovsky A.N.**)
- 2008a VIII Larwood’s Symposium, University of Vienna, Austria (oral presentation “Field works on the Maldive Islands: preliminary results”)
- 2008b 1st International Congress on Invertebrate Morphology, Zoological Museum, Copenhagen, Denmark (oral presentation “Repeated evolution of placental analogues in Bryozoa”)
- Evolution of Natural Diversity”, Hokkaido University, Sapporo, Japan (oral presentation “Mid-Cretaceous cheilostome Bryozoa: state of research and perspectives for research in Japan”) (travel grant of the Center of Excellence Program on NeoScience of Natural History (COE), Japan: 5.070,- US\$)
- 2007b 14th Conference of the International Bryozoology Association, Appalachian State University, Boone, USA (oral presentation “Cheilostome brood chambers: diversity, revised terminology and evolutionary trends”)
- 2007c VII Larwood’s Symposium, Università degli Studi di Napoli Federico II, Napoli, Italy (oral presentation “External versus internal and self- versus cross-fertilization in Bryozoa: transformation of the view”)
- 2006a 1st International Conference dedicated to the 100th Birthday of the academician A.V. Ivanov “Problems of the Evolutionary Morphology of Animals”, Zoological Institute, Russian Academy of Sciences, Saint Petersburg, Russia (oral presentation “Early stages in the ovicell evolution in cheilostome bryozoans”)
- 2006b 77th Annual Meeting of the Zoological Society of Japan, Shimane University, Matsue,

- Japan (oral presentation “Main trends in the evolution of ovicells in Cheilostomata (Bryozoa: Gymnolaemata)”, by **Ostrovsky A.N.** (speaker) & Mawatari S.F.)
- 2006c VII Scientific session of the Marine Biological Station, Saint Petersburg State University, Saint Petersburg, Russia (oral presentation “Main stages in the evolution of the sexual reproduction of the cheilostome bryozoans (Gymnolaemata)”)
- 2005, 27-29 September Alexander von Humboldt-Kolleg Conference “Technologies of the 21st Century: Biological, Physical, Informational and Social Aspects”, Pavlov Institute of Physiology, Russian Academy of Sciences, Saint Petersburg, Russia (oral presentation “Maldivean coral reefs: five years after disaster”, by **Ostrovsky A.N.** (speaker) & Kikinger R.)
- 2004 13th Conference of the International Bryozoology Association, Universidad de Concepción & Universidad Católica de la Santísima Concepción, Chile (oral presentation “Brood chambers constructed from spines and costae in cheilostome bryozoans”, by **Ostrovsky A.N.** (speaker) & Taylor P.D.)
- 2003a Meeting of the International Society for the History, Phylosophy, and Social Studies of Biology, Konrad Lorenz Institute & University of Vienna, Austria
- 2003b 1st Austrian Reef Workshop, Institut für Paläontologie, Geozentrum, Universität Wien, Austria
- 2001a 12th Conference of the International Bryozoology Association, Trinity College, University of Dublin, Republic of Ireland (oral presentations “Brood chambers in cribrimorphs evolved by fusion of costae: further arguments”, “Historical review on individual autozooidal behaviour and feeding mechanisms in Bryozoa”, by **Ostrovsky A.N.** (speaker), Shunatova N.N. & Antipenko I.I.) (travel grant of the of the Alexander von Humboldt Foundation: 700,- €)
- 2001b 2nd Annual Bryozoan Workshop, Institute of Marine Biology, National Taiwan Ocean University, Keelung, People Republic of China (invited lecture “Patterns of sexual reproduction in marine bryozoans”) (travel grant of the National Taiwan Ocean University: 1.000,- US\$)
- 1998, February 11th Conference of the International Bryozoology Association, Smithsonian Tropical Research Institute, Panama City, Republic of Panama (poster “Comparative studies of ovicell anatomy and reproductive patterns in *Cribrilina annulata* and *Celleporella hyalina* (Bryozoa: Cheilostomatida)”)
- 1997, 30 June-8 July Russian and International Bryozoological Conference “Bryozoa of the World”, Zoological Institute, Russian Academy of Sciences and Saint Petersburg State University, Saint Petersburg, Russia (oral presentation “Variability of ooeciostome shape and position in Antarctic idmidroniform bryozoans (Bryozoa: Tubuliporida)”)
- 1994, 8-9 August Russian and International Bryozoological Conference “Fossil and Living Bryozoa of the Globe”, Perm State University, Perm, Russia (oral presentation “Some new data on anatomy and ovicellogenesis in two cheilostome bryozoans - *Scropocellaria scabra* and *Callopora aurita* from the White Sea”, by **Ostrovsky A.N.** (speaker) & Lobastova E.V.)

Memberships:

- since 2019 – All-Russian Paleontological Society
- since 2008 – International Society of Invertebrate Morphology
- since 1992 – Saint Petersburg Society of Naturalists
- since 1991 – International Bryozoology Association (1998–2004 - Council member)

Working visits:

- 2019 School of Marine and Environmental Sciences, Universiti Malaysia Terrenganu, Terrenganu, Malaysia
- 2017 The Natural History Museum, London, UK
- 2015 Interuniversity Institute for Marine Sciences, Eilat, Israel
- 2015 Sven Lovén Centre for Marine Science, Kristineberg, Sweden
- 2012 Lizard Island Research Station, Australian Museum, Australia
- 2011 Bocas del Toro Research Station, Smithsonian Tropical Research Institute, Republic of Panama
- 2010 Center for Marine Research (Ruder Boscovich Institute), Rovinj, Croatia
- 2009 Sven Lovén Centre for Marine Science, Kristineberg, Sweden
- 2009 Forschungsinstitut Senckenberg, Frankfurt am Main, Germany
- 2009 Sultan Qaboos University, Muscat, Oman
- 2008, 2013, 2014 Station Marine d'Endoume, Centre d'Océanologie de Marseille, France
- 2008, 2011 Marine Laboratory, Vabbinfary Island, North Male Atoll, Maldives
- 2007, 2011 Smithsonian Tropical Research Institute, Balboa, Republic of Panama
- 2007 Kumamoto University, Kumamoto, Japan
- 2007 Anton Dohrn Zoological Station, Neapol, Italy
- 2006 Sesoko Marine Biological Station, Tropical Biosphere Research Centre, Ryukyu University, Okinawa, Japan
- 2005 Akkeshi Marine Biological Station, Hokkaido University, Japan
- 2005 Oshoro Marine Biological Station, Hokkaido University, Japan
- 2005 Marine Biological Station, Kuramathi Island, Rashdu Atoll, Maldives
- 2002 Sedgwick Museum, Department of Earth Sciences, Cambridge University, United Kingdom
- 2002 School of Biological Sciences, University of Wales (Bangor), Great Britain
- 2001 National Institute of Atmospheric & Water Research, Wellington, New Zealand
- 2001 Museum Victoria, Melbourne, Australia
- 2001 Deakin University, Melbourne, Australia
- 1998 Marine Biological Station of the Smithsonian Tropical Research Institute, San Blas Islands, Republic of Panama
- 1997 Marine Biological Station of the University of Copenhagen, Frederickshaven, Denmark

Research expeditions & field works:

- Malaysia: *Bidong Island* (August 2019)
- Philippines: *Cebu Island* (February 2018)
- Seychelles: *Mahé Island* (January 2017)
- Tasmania: *Southern coast* (April 2016)
- Israel: *Eilat, Red Sea* (August 2015)
- Sweden: *Kristineberg, Baltic Sea* (June 2015, June 2009)
- Indonesia: *North Bali, Menjangan Island* (January 2015)
- Colombia: *Santander, Sagamodo River* (June-August 2013)
- Australia: *Lizard Island, Coral Sea* (January 2012); *Southern Coast* (April 2016)
- Oman: *Salalah* (January 2009)
- France: *Plane Island, Maire Island, Riou Island, Bay of Lyon, Mediterranean* (August 20018,

September 2013, 2018)
 Japan: *Hokkaido Island, Sea of Japan and Mikasa area* (August-September 2005); *Mikasa area and Sesoko Island, Okinawa, East China Sea* (September 2006); *Goshoura Island, Kyushu Island* (August 2007)
 Maldive Islands: *Ari Atoll, Kuramathi Island* (January 2005); *North Malé Atoll, Wabbinfaru Island* (January 2008, February 2011); *Waavu Atoll, Thinadhoo Island* (February 2016)
 Chile: *Pacific coast* (February 2004)
 New Zealand: *Southern Island, Pacific Ocean* (December 2001)
 Taiwan: *East China Sea* (January 2001)
 USA: Florida Keys, Caribbean Sea (June-September 1999); Coastal Plane (July 2007)
 Panama: Taboga Island, Pacific Ocean; San Blas Islands, Caribbean Sea (February 1998); Archipelago Las Perlas, Pacific Ocean (October 2007); Bay of Mosquitoes, Archipelago Bocas del Toro, Caribbean Sea (October 2011)
 Denmark: *Jutland Peninsula, North Kattegat, Baltic Sea* (April 1997)
 Antarctic: 36th Soviet Antarctic Expedition (November 1990–September 1991)
 Russia: *Lower Volga area* summer seasons 1984-1985); *Kandalaksha Bay, White Sea* (summer seasons 1988-1989, 1993, 1996-1998, 2000, 2005-2009, 2018)

Teaching:

2019-present: PhD-level lecture course “History of Biology” (Saint Petersburg State University, Russia)
2018 Invited lecture course on bryozoans during International Summer School on Bryozoa: Diversity and evolutionary trends in colonial animals (Educational and Research station “Belomorskaya”, Saint-Petersburg State University, Russia)
2016 Invited lecture course on invertebrate reproductive biology during the Summer Course in Embryology of Marine Invertebrates (White Sea Biological Station, Lomonosov Moscow State University, Russia).
2014-present: MSc-level lecture course “Concepts of invertebrate zoology” (Saint Petersburg State University, Russia)
2011 MSc-PhD-level lecture course “Life in a colony: introduction to the Bryozoa” (University of the Azores, Portugal)
2007-present: BSc-level lecture course “Bryozoan evolution” (Saint Petersburg State University, Russia)
2007-2009: BSc-level lecture course “Bryozoan evolution” (University of Vienna, Austria)
2007: BSc-level lecture course “Histological and other techniques Used in Comparative anatomy of microinvertebrates” (University of Panama, Republic of Panama)
2000-2007: MSc-level lecture course “Meiobenthos” (Saint Petersburg State University, Russia)
1999-present: MSc-level lecture course “Life cycles of invertebrates” (Saint Petersburg State University, Russia)
1994-present: MSc-level lecture course “Individuality and coloniality in biology” (Saint Petersburg State University, Russia)
1992-2000: BSc-level lecture course “Tentaculata (Lophophorata)” (Saint Petersburg State University, Russia)
1991-2015: Undergraduate-level laboratory classes on invertebrate zoology (Saint Petersburg State University, Russia)
1989-1990, 1996-97: Undergraduate-level laboratory classes in vertebrate zoology (Saint

Petersburg State University, Russia)

1994-1995 Summer fieldwork for undergraduates in invertebrate zoology and entomology (station “Kuznetchnoe”, Western Ladoga area, Karelia, Russia)

1993, 1996-1998, 2000, 2005-2009 Summer fieldwork for undergraduates in marine biology and invertebrate zoology (Marine Biological Station, Kandalaksha Bay, White Sea, Russia)

Invited lectures and keynote/plenary talks:

2019, 26 April Invited talk “Symbiotic relationships between bryozoans and bacteria: things are more complex than we thought” by **Ostrovsky A.N.** (speaker), Vichnyakov A.E., Karagodina N.P., Kotenko O.N., Nekliudova U.A. & Kvach A. 64th Dogiel’s Readings, Saint Petersburg State University, Saint Petersburg, Russia

2019, 27 February Invited talk “Radial symmetry and asymmetry in bilaterian animals: example of Bryozoa”. Open colloquia “Morphogenesis in individual and historical development”. A.N. Severtsov institute of ecology and evolution, Russian Academy of Sciences, Moscow, Russia

2019, 27 March Invited talk “Mobile metazoan colonies: towards superorganism”. Open colloquia “Morphogenesis in individual and historical development”. A.N. Severtsov institute of ecology and evolution, Russian Academy of Sciences, Moscow, Russia

2019, 30 May Invited talk “Breaking rules: evolution of matrotrophic reproductive strategy in Phoronida” by Temereva E.N. & **Ostrovsky A.N.** (speaker). Open colloquia “Morphogenesis in individual and historical development”. A.N. Severtsov institute of ecology and evolution, Russian Academy of Sciences, Moscow, Russia

2019, 8 August Invited lecture “Moss animals or lace corals: brief introduction to Bryozoa”. School of Marine and Environmental Sciences, Universiti Malaysia Terengganu, Terengganu, Malaysia

2019, 28 November Invited talk “Heterochronies in Bryozoa”. Open colloquia “Morphogenesis in individual and historical development”. Borissiak Paleontological institute, Russian Academy of Sciences, Moscow, Russia

2018 Invited talk “Multiple origins of placental analogues in Bryozoa: evolutionary and ecological perspectives”, Seminar in evolutionary and molecular biology, Saint Petersburg Union of Scientists, Saint Petersburg, Russia

2018 Invited talk “Matrotrophy in invertebrates: distribution, structure, evolution”, 22nd Evolutionary Biology Meeting at Marseilles, Association pour l’Etude de l’Evolution Biologique, France.

2017 Invited lecture “250 years of zoology in Russia: an invertebrate retrospect”, annual conference “Morphogenesis in the individual and historical development: ontogenesis and formation of biological diversity”, Borissiak Paleontological institute, Russian Academy of Sciences, Moscow, Russia

2017 Keynote lecture “250 years of zoology in Russia: an invertebrate retrospect”, 4th International Congress on Invertebrate Morphology, International society for invertebrate morphology, Lomonosov Moscow State University

2013 Invited lecture “Upper Cretaceous radiation of cheilostome bryozoans and its ecological background”, Faculty of Life Sciences, Aix-Marseille University, France

2013 Invited lecture “Diversity of the life cycles and reproductive patterns in marine Bryozoa”, Station Marine d’Endoume, Centre d’Océanologie de Marseille, France

2013 Plenary talk “How many times has embryonic incubation evolved in Bryozoa?” 16th

- Conference of the International Bryozoology Association, University of Catania, Italy
- 2011 Invited lecture “Recent extinction of the coral reefs”, International science-practical conference “Experience in Making and Exploitation of Public Aquarian Complexes” Oceanarium, Saint Petersburg, Russia
- 2011 Invited talk “Matrotrophy and placentation in invertebrates – pan-metazoan example of convergent evolution”, A.O. Kowalewsky Readings, Saint Petersburg Society of Naturalists, Russia
- 2011 Invited lecture “Matrotrophy and its supplying structures in invertebrates: distribution, morpho-functional peculiarities, evolution”, School for young scientists and students “Modern Problems of Evolutionary Morphology of Animals” dedicated to the 105th anniversary of academician A.V. Ivanov. Saint Petersburg, Zoological Institute, Russian Academy of Sciences
- 2010 Invited talk “Morphoprocess and life-cycles of organisms” 55th Dogiel’s Readings, Zoological Institute, Russian Academy of Sciences, Saint Petersburg
- 2010 Plenary talk “Extraembryonic nutrition and placental analogues in cheilostome Bryozoa”, 15th Conference of the International Bryozoology Association, Institut für Geowissenschaften, Christian-Albrechts-Universität zu Kiel, Germany
- 2008 Invited lecture “Recent extinction of the coral reefs”, Marine Laboratory, Vabbinfaru Island, Maldive Republic
- 2008 Invited talk “Bryozoa or moss animals: diversity, importance and research perspectives”, Marine Research Centre, Ministry of Fisheries and Agriculture, Maldive Republic
- 2007 Invited talk “Evolution of extraembryonic nutrition and placentas in Bryozoa”, 52th Dogiel’s Readings, Zoological Institute, Russian Academy of Sciences, Saint Petersburg
- 2006 Invited talk “Ovicells – a key evolutionary innovation in cheilostome explosive radiation”, Hokkaido University, Japan
- 2005 Invited talk “Evolution of polymorphism in colonial animals: differentiation of the earliest avicularian polymorphs in the cheilostome bryozoan *Wilbertopora*”, Hokkaido University, Japan
- 2000 Invited lecture “Life and death of the coral reef”, University of Kiel, Germany
- 2001 Invited lecture “Patterns of sexual reproduction in marine bryozoans”, Institute of Marine Biology, National Taiwan Ocean University, Keelung, People Republic of China

Seminar talks and interviews:

- 2019, 23 October “Symbiotic relationships between bryozoans and bacteria: things are more complex than we thought”. Department of Integrative Zoology, Faculty of Life Sciences, University of Vienna, Vienna, Austria
- 2019, 26 March “Zoophyta: evolutionary paradoxes in the world of colonial invertebrates”, N.K. Koltsov Institute of Developmental Biology, Russian Academy of Sciences, Moscow, Russia
- 2018 “Climate change effect on populations of the freshwater pearl mussel in Europe”, Department of Invertebrate Zoology, Saint Petersburg State University, Russia
- 2018 “Climate change effect on populations of the freshwater pearl mussel in Europe”, Department of Palaeontology, Geozentrum, Universität Wien, Austria
- 2018 “Multiple origins of placental analogues in Bryozoa: evolutionary and ecological perspectives”, Borissiak Paleontological institute, Russian Academy of Sciences, Moscow, Russia

- 2017 “Matrotrophy in invertebrates: distribution, morpho-functional traits, evolution”, Koltsov Institute of Developmental Biology, Russian Academy of Sciences, Moscow, Russia
- 2017 “Cryptic species in Bryozoa. Modern challenges or should we restudy all that has been done till SEM-era?”, Department of Invertebrate Zoology, Saint Petersburg State University, Russia
- 2017 “Bacterial symbionts in aquatic colonial invertebrates: example of the phylum Bryozoa”, Department of Integrative Zoology, University of Vienna, Austria
- 2017 “Cryptic species in Bryozoa. Modern challenges or should we restudy all that has been done till SEM-era?”, Department of Palaeontology, Geozentrum, Universität Wien, Austria
- 2017 “Bacterial symbionts in aquatic colonial invertebrates: example of the phylum Bryozoa”, Laboratory of Genetics, Saint Petersburg State University, Russia
- 2016 “Symbiont-dependent host reproduction in the marine bryozoan, *Bugula neritina*”, Department of Invertebrate Zoology, Saint Petersburg State University, Russia
- 2015 “Matrotrophy in invertebrates: distribution, structure, evolution”, Department of Integrative Zoology, Universität Wien, Austria
- 2015 “Current state of the coral reefs around the Menjangan Island, National park Barat, north Bali: a preliminary survey”, Department of Palaeontology, Geozentrum, Universität Wien, Austria
- 2015 “Current state of the coral reefs around the Menjangan Island (National park Barat, Bali): videoexcursion”, Department of Invertebrate Zoology, Saint Petersburg State University, Russia
- 2014 “Comparing sexual reproduction in two Mediterranean bryozoans *Myriapora truncata* and *Adeonella calveti*: preliminary results”, Saint Petersburg State University, Russia
- 2014 “Matrotrophy and its providing structures in invertebrates: distribution, morpho-functional aspects, evolution”, Darwinian Seminar, Saint Petersburg State University, Russia
- 2014 “Comparing sexual reproduction in two Mediterranean bryozoans *Myriapora truncata* and *Adeonella calveti*: preliminary results”, Station Marine d’Endoume, Centre d’Océanologie de Marseille, France
- 2014 “From bryozoans to pliosaurs: field works in central Colombia”, Department of Palaeontology, Geozentrum, Universität Wien, Austria
- 2013 “From bryozoans to pliosaurs: field works in central Colombia”, Department of Invertebrate Zoology, Saint Petersburg State University, Russia
- 2013 invited seminar “Ovicells in cheilostome Bryozoa: morphology, taxonomy and systematics”, 16th Conference of the International Bryozoology Association, University of Catania, Italy
- 2013 “Current state of the reef-building corals near Lizard Island, Great Barrier Reef”, Department of Palaeontology, Geozentrum, Universität Wien, Austria
- 2012 “Bryozoan images in the works of early naturalists: Rondelet, Imperato, Ellis and others”, Laboratory of Marine Research, Zoological Institute, Russian Academy of Sciences
- 2012 “Current state of the reef-building corals near Lizard Island, Great Barrier Reef”, Department of Invertebrate Zoology, Saint Petersburg State University, Russia
- 2012 “Bryozoan images in the works of early naturalists: Rondelet, Imperato, Ellis and others”, Department of Invertebrate Zoology, Saint Petersburg State University, Russia
- 2012 “Field works and palaeoecological studies in Panama”, Department of Palaeontology,

- Geozentrum, Universität Wien, Austria
- 2011 “Coral reefs: lost paradise?”, Bioseminars at the Faculty of Biology & Soil Science, Saint Petersburg State University, Russia
<http://bioseminars.wordpress.com/2011/12/31/ostrovski-coral-video/>
- 2011 “Sex versus asex in cupuladriid bryozoans: diversity of patterns in two oceans”, Department of Invertebrate Zoology, Saint Petersburg State University, Russia
- 2011 “Matrotrophy and placentation: a pan-metazoan example of convergent evolution”, Barro Colorado Research Station, Smithsonian Tropical Research Institute, Republic of Panama
- 2011 “Extraembryonic nutrition and placental analogues in Bryozoa: searching for an evidence”, Department of Integrative Zoology, Universität Wien, Austria
- 2011 “Field works in Panama: first results on reproductive patterns of the free-living bryozoans”, Department of Palaeontology, Geozentrum, Universität Wien, Austria
- 2011 “Matrotrophy and placental analogues in invertebrates: example of Bryozoa”, Bioseminars at the Faculty of Biology & Soil Science, Saint Petersburg State University, Russia [http://bioseminars.wordpress.com/\(zoology\)](http://bioseminars.wordpress.com/(zoology))
- 2009 “Bryozoan collections from the Red Sea, Maldives and Oman: research in progress”, Department of Palaeontology, Geozentrum, Universität Wien, Austria
- 2009 “Mid-Cretaceous cheilostome Bryozoa: state of research and perspectives for research in Japan”, Department of Palaeontology, Geozentrum, Universität Wien, Austria
- 2008 “Evolution of polymorphism in colonial animals: differentiation of the earliest avicularian polymorphs in the cheilostome bryozoan *Wilbertopora*”, Institut für Paläontologie, Geozentrum, Universität Wien, Austria
- 2008 “Ovicells – a key evolutionary innovation in cheilostome explosive radiation”, Station Marine d’Endoume, Centre d’Océanologie de Marseille, France
- 2007 “Extraembryonic nutrition, placental analogues and evolution of new reproductive patterns in Bryozoa”, Smithsonian Tropical Research Institute, Republic of Panama
- 2007 “Evolution of polymorphism in colonial animals: differentiation of the earliest avicularian polymorphs in the cheilostome bryozoan *Wilbertopora*”, Smithsonian Tropical Research Institute, Republic of Panama
- 2005 “Evolution of polymorphism in colonial animals: differentiation of the earliest avicularian polymorphs in the cheilostome bryozoan *Wilbertopora*”, Kuramathi Biological Station, Maldives
- 2004 “Wild White Sea”, Institut für Paläontologie, Geozentrum, Universität Wien, Austria
- 2003 “Fossil brooders and modern reproductive patterns: the origin and early evolution of the parental care in cheilostome bryozoans”, Institut für Paläontologie, Geozentrum, Universität Wien, Austria
- 2002 “Fossil brooders and modern reproductive patterns: the origin and early evolution of the parental care in cheilostome bryozoans”, The Natural History Museum, London, Great Britain
- 2002 “Fossil brooders and modern reproductive patterns: the origin and early evolution of the parental care in cheilostome bryozoans”, School of Biological Sciences, University of Wales (Bangor), Great Britain
- 2001 Interview “Unknown Bryozoa”, Radio Victoria, Melbourne, Australia
- 2001 “Recent extinction of the coral reefs”, Institut für Geowissenschaften, Christian-Albrechts-Universität zu Kiel, Germany
- 1998 “Ovicell anatomy and reproductive patterns in *Cribrilina annulata* and *Celleporella hyalina* (Bryozoa: Cheilostomatida)”, Zoological Museum, University of Copenhagen, Denmark

1996 “Variability of reproductive structures in Antarctic idmidroniforms (Bryozoa, Tubuliporida)”, Zoological Museum, University of Copenhagen, Denmark

Public lectures:

2019, 12 April “Colony as superorganism”, Physics and mathematics lyceum №30, Saint Petersburg, Russia

2019, 5 April “Bacterial symbionts in aquatic colonial invertebrates: example of the phylum Bryozoa”, XXIII Open science and practical biological conference for high school students. Ecological and biological centre “Krestovsky Island”, Saint Petersburg, Russia

2018 “Colony as superorganism”, Diving Club of the Saint Petersburg State University, Russia

2018 “Coral reefs: lost paradise?”, Diving Club of the Saint Petersburg State University, Russia

2017 “Colony as superorganism”, Saint Petersburg Palace of Youth, Russia

2015 “Matrotrophy in invertebrates: distribution, structure, evolution”, Saint Petersburg Palace of Youth, Russia

2014 “From bryozoans to pliosaurs: field works in central Colombia”, Saint Petersburg Palace of Youth, Russia

2013 “Current state of the reef-building corals near Lizard Island, Great Barrier Reef”, Oberösterreichische Landesmuseum, Linz, Austria

2013 “Why and how to publish articles in the scientific journals”, Saint Petersburg Palace of Youth, Russia

2010 “Faunistic and taxonomic study of Bryozoa in the northern part of the Indian Ocean”, Saint Petersburg Palace of Youth, Russia

2000 “Life and death of the coral reef”, Leningrad Zoo, Saint Petersburg, Russia

2000, 2003 “Life and death of the coral reef”, Saint Petersburg Palace of Youth, Russia

Student supervision:

2020 Bogdanov E.A. BSc Thesis “Bryozoan *Dendrobeatia fruticosa* and its bacterial symbionts: ultrastructural study”. Saint Petersburg State University, Russia

2020 Artemiev G.M. BSc Thesis “General characteristics of the phylum Chaetognatha and analysis of its phylogenetic position”. Saint Petersburg State University, Russia

2019 Kvach A.Yu. MSc Thesis “Reproduction of the ctenostome bryozoan *Flustrellidra hispida* (White Sea, Kandalaksha bay, Chupa Inlet)”. Saint Petersburg State University, Russia

2017 Grant H. MSc Thesis “Repeated evolution of brooding in the order Cheilostomata (Bryozoa: Gymnolaemata)”. Imperial College, London, UK (co-supervisor)

2017 Kvach A.Yu. BSc Thesis “Life cycle and reproduction of the bryozoan *Flustrellidra hispida* (Bryozoa: Ctenostomata) in the White Sea”. Saint Petersburg State University, Russia

2017-recent Belikova E.V. PhD “Evolution of muscular system in marine bryozoans (Stenolaemata and Gymnolaemata)”. Saint Petersburg State University, Russia

2016-2019 Nekliudova U.A. PhD Thesis “Dynamics of sexual reproduction and embryonic incubation in marine bryozoans”, University of Vienna, Austria

2015-2019 Shevchenko E.T. PhD Thesis “Comparative anatomical and ultrastructural study of oogenesis in cheilostome bryozoans”. Saint Petersburg State University, Russia

- 2015-recent Serova K.M. PhD Thesis “Evolution of zooidal polymorphism in cheilostome bryozoans: avicularia as an example”. Saint Petersburg State University, Russia
- 2016 Matvienko D.A. BSc Thesis “Oogenesis of the cheilostome bryozoan *Terminoflustra membranaceotruncata* (Gymnolaemata) from the Chupa Inlet, White Sea”. Saint Petersburg State University, Russia
- 2014-2016 Mathew M. PhD Thesis “Symbiont dependent host reproduction in the marine bryozoan, *Bugula neritina*”. Georgia State University, USA (co-supervisor)
- 2010-2015 Shunkina K.V., PhD Thesis “Comparative neuromorphology of three freshwater bryozoans *Cristatella mucedo*, *Plumatella repens* and *Fredericella sultana* (Bryozoa, Phylactolaemata)”. Saint Petersburg State University, Russia
- 2015 Nekliudova U.A. MSc Thesis “Reproductive biology of *Cribrilina annulata* and *Celleporella hyalina* (Bryozoa: Cheilostomata) from the White Sea”. Saint Petersburg State University, Russia
- 2015 Shevchenko E.T. MSc Thesis “Comparative study of the life-history and sexual reproduction in bryozoans with contrasting reproductive patterns”. Saint Petersburg State University, Russia
- 2015 Kalinitch K.M. MSc Thesis “Comparative anatomical and ultrastructural study of polymorphic zooids in cheilostome bryozoans”. Saint Petersburg State University, Russia
- 2013 Nekljudova U.A. BSc Thesis “Dynamics of sexual reproduction in cheilostome bryozoan *Cribrilina annulata* in the Chupa Inlet (Kandalaksha Bay, White Sea)”. Saint Petersburg State University, Russia
- 2013 Shevchenko E.T. BSc Thesis “Life history of *Callopora craticula* (Cheilostomata, Gymnolaemata) in Chupa Inlet (Kandalaksha bay, White Sea)”. Saint Petersburg State University, Russia
- 2013 Kalinitch K.M. BSc Thesis “Comparative myoanatomy of avicularia in five cheilostome bryozoans (Gymnolaemata)”. Saint Petersburg State University, Russia
- 2012 Moosbrugger M. MSc Thesis “The placental analogue and the pattern of sexual reproduction in the cheilostome bryozoan *Bicellariella ciliata* (Gymnolaemata)”. University of Vienna, Austria (co-supervisor)
- 2010-2011 Schwaha T. PhD Thesis “Asexual organogenesis and neuro-muscular system of basal bryozoans”. University of Vienna, Austria (co-supervisor)
- 2010 Shunkina K.V. MSc Thesis “Reconstruction of the life cycle of cheilostome bryozoan *Cribrillina annulata* (Bryozoa, Gymnolaemata) living on the thalli of *Laminaria* sp. (White Sea, Chupa Inlet)”. Saint Petersburg State University, Russia
- 2008 Lee Tsee, BSc Thesis “Comparative anatomical study of the internal brood chambers in some anascan and ascophoran bryozoans (Gymnolaemata, Cheilostomata)”. Saint Petersburg State University, Russia
- 2006-2009 Kotenko O.N. PhD Thesis “Comparative analysis of embryonic development and metamorphosis in the bryozoan orders Cheilostomata and Ctenostomata: evolutionary aspects”. Saint Petersburg State University, Russia (co-supervisor)
- 1997-1999 Antipenko I.I. MSc Thesis “Peculiarities of feeding behaviour of *Cristatella mucedo* (Phylactolaemata, Bryozoa)”. Saint Petersburg State University, Russia
- 1995 Lobastova E.V. Diploma Work “Ovicell anatomy in some cheilostome bryozoans (Gymnolaemata) from the White Sea”. Saint Petersburg State University, Russia

Thesis examination:

- 2019 PhD Thesis, I.R. Pozdnyakov “Kinetid transformation in choanocytes in evolution of

- Porifera” I.D. Papapnin institute of biology of inland waters, Russian Academy of Sciences, Borok, Russia
- 2019 PhD Thesis, V.S. Dementiev “Influence of environmental factors to the growth and functioning of distribution system in the colonial hydrozoan *Dynamena pumila* (L., 1758)”, Moscow State University, Moscow, Russia
- 2019 PhD Thesis, M. Khan “The biology of the evolution of viviparity in asterinid sea stars”, University of Sidney, Australia
- 2018 MSc Thesis, J.S. Nærø “Bryozoan life-histories in the Arctic marine environment”, University of Oslo, Norway
- 2008 PhD Thesis, M. Carter “The functional morphology of avicularia in cheilostome bryozoans”, Victoria University of Wellington, New Zealand

List of scientific publications:

Monographs:

- 2017 Cáceres-Chamizo J.P., Sanner J.A., Tilbrook K.J., **Ostrovsky A.N.** Revision of the Recent species of *Exechonella* Canu & Bassler in Duvergier, 1924 and *Actisecos* Canu & Bassler, 1927 (Bryozoa, Cheilostomata): systematics, biogeography and evolutionary trends in skeletal morphology. *Zootaxa* **4305**(1): 1-79. DOI: [10.11646/zootaxa.4305.1.1](https://doi.org/10.11646/zootaxa.4305.1.1)
- 2013 **Ostrovsky A.N.** Evolution of the sexual reproduction in marine invertebrates: example of gymnolaemate Bryozoa. Springer Verlag: Dordrecht, Heidelberg, New York, London. 356 pp. ISBN 978-94-007-7145-1 (Print) 978-94-007-7146-8 (Online). DOI: [10.1007/978-94-007-7146-8](https://doi.org/10.1007/978-94-007-7146-8); <http://link.springer.com/book/10.1007%2F978-94-007-7146-8>
- 2009 **Ostrovsky A.N.** Evolution of the sexual reproduction in the bryozoan order Cheilostomata (Gymnolaemata). Publishing House of Saint Petersburg University: Saint Petersburg. 403 pp. [in Russian with English Summary] ISBN 978-5-288-04992-7. www.rfbr.ru/rffi/ru/books/o_1781814
- 2006 Batygina T.B., Bragina E.A., Ereskovsky A.V., **Ostrovsky A.N.** Viviparity in plants and animals: invertebrates and lower chordates. Publishing House of Saint Petersburg University: Saint Petersburg. 134 pp. [In Russian with English summary] ISBN 5-288-03803-1.

Book & compilation chapters:

- 2017 Martha S.O., Afshar Y., **Ostrovsky A.N.**, Scholz J., Schwaha T., Wood T.S. “Variation of the tentacles in *Paludicella*”: The unfinished work of the German bryozoologist and embryologist Fritz Braem. Pp. 45-73 in Wyse Jackson P.N., Spencer Jones M.E. (eds.). *Annals of Bryozoology 6: Aspects of the history of research on bryozoans*. International Bryozoology Association, Dublin.
- 2014 Ostrovskaja X., **Ostrovsky A.** The earliest colour image of Bryozoa. Pp. 129–136 in Wyse Jackson P.N., Spencer Jones M.E. (eds.). *Annals of Bryozoology 4: Aspects of the history of research on bryozoans*. International Bryozoology Association, Dublin.
- 2011 **Ostrovsky A.N.**, Cáceres-Chamizo J.P., Vávra N., Berning B. Bryozoa of the Red Sea: history and current state of research. Pp. 67–97 in Wyse Jackson P.N., Spencer Jones M.E. (eds.) *Annals of Bryozoology 3: Aspects of the history of research on bryozoans*. International Bryozoology Association, Dublin.
- 2008a **Ostrovsky A.N.** External versus internal and self- versus cross-. Fertilization in Bryozoa: transformation of the view and evolutionary considerations. Pp. 103–115 in

Wyse Jackson P.N., Spencer Jones M.E. (eds.). *Annals of Bryozoology 2: Aspects of the history of research on bryozoans*. International Bryozoology Association, Dublin, pp. viii+442.

2008b Ostrovsky A.N., Vávra N., Porter J.S. Sexual reproduction in gymnolaemate Bryozoa: history and perspectives of the research. Pp. 117–210 in Wyse Jackson P.N., Spencer Jones M.E. (eds.). *Annals of Bryozoology 2: Aspects of the history of research on bryozoans*. International Bryozoology Association, Dublin, pp. viii+442.

2008c Ostrovsky A.N. The parental care in cheilostome bryozoans: a historical review. Pp. 211–245 in Wyse Jackson P.N., Spencer Jones M.E. (eds.). *Annals of Bryozoology 2: Aspects of the history of research on bryozoans*. International Bryozoology Association, Dublin, pp. viii+442.

2002a Ostrovsky A.N., Shunatova N.N. Colonial behaviour and group zooidal reactions in Bryozoa: history of the research. Pp. 185-200 in Wyse Jackson P.N., Spencer Jones M.E. (eds.) *Annals of Bryozoology: Aspects of the history of research on bryozoans*. International Bryozoology Association, Colour Books, Baldoyle, Dublin.

2002b Ostrovsky A.N., Shunatova N.N., Antipenko I.I. Historical review on individual autozooidal behaviour and feeding mechanisms in Bryozoa. Pp. 201-228 in Wyse Jackson P.N., Spencer Jones M.E. (eds.) *Annals of Bryozoology: Aspects of the history of research on bryozoans*. International Bryozoology Association, Colour Books, Baldoyle, Dublin.

Accepted papers (in press):

Ostrovsky A.N. Sexual reproduction in Bryozoa. Pp. 101-121 in Schwaha T.F. (ed.) *Handbook of Zoology. Bryozoa*. De Gruyter, Berlin.

Martha S., Vieira L., Souto J., Grischenko A.V., Gordon D. P., **Ostrovsky A.N.** Cheilostomata. Pp. *Handbook of Zoology. Bryozoa*. Schwaha T. (editor). De Gruyter, Berlin.

Ostrovsky A.N., Luque J., Cadena E.A., Perez Consuegra N., Souto-Derungs J., Taylor P.D., Jaramillo C. Cretaceous Bryozoa from central Colombia: preliminary results of the “Hidrosogamoso” expedition. In: “Estudios geológicos y paleontológicos sobre el Cretácico en la región del embalse del Río Sogamoso, valle medio del Magdalena”. *Compilación de los Estudios Geológicos Oficiales en Colombia* 23.

Ostrovsky A.N. Reproductive strategies and patterns in marine invertebrates: diversity and evolution. *Paleontologicheskij Zhurnal* [in Russian]. *Paleontological Journal* [in English].

Ostrovsky A.N. Directions in the evolution of sexual reproduction in marine invertebrates. Pp. in Rozhnov S.V. (ed.) *Morphogenesis in the individual and historical development*. Borissiak Paleontological institute, Russian Academy of Sciences, Moscow, Russia.

Preprints:

2020 Vishnyakov A.E., Karagodina N.P., Lim-Fong G., Ivanov P.A., Schwaha T.F., Letarov A.V. & **Ostrovsky A.N.** First evidence of virus-like particles in the bacterial symbionts of Bryozoa. DOI: [2020.04.16.045880](https://doi.org/10.21203/rs.3.rs-1045880)

2019 Starunov V.V., Predeus A.V., Barbitoff Y.A., Kutyumov V.A., Maltseva A.L., Vodiasova E.A., Kohn A.B., Moroz L.L. & **Ostrovsky A.N.** Comparative genomic analysis of *Cristatella mucedo* provides insights into Bryozoan evolution and nervous system function. *BioRxiv*, p. 869792. DOI: [10.1101/869792](https://doi.org/10.1101/869792)

Submitted papers:

- Kutyumov V.A., Predeus A.V., Starunov V.V., Maltseva A.L. & **Ostrovsky A.N.** Mitochondrial gene arrangement of freshwater bryozoan *Cristatella mucedo* retains ancestral lophotrochozoan features (*Mitochondrion*).
- Vishnyakov A.E., Karagodina N.P., Lim-Fong G., Ivanov P.A., Schwaha T.F., Letarov A.V. & **Ostrovsky A.N.** First evidence of virus-like particles in the bacterial symbionts of Bryozoa (*Scientific Reports*).
- Rosso A., Di Martino E. & **Ostrovsky A.N.** Cribrilinid bryozoans from Pleistocene Mediterranean deep-waters, with the description of new species (*Journal of Paleontology*).

Papers published in per-reviewed journals:

- 2020a Schwaha T.F., **Ostrovsky A.N.**, Wanninger A. Key novelties in the evolution of Bryozoa: evidence from the soft-body morphology. *Biological Reviews* **95**(3): 696-729. DOI: [10.1111/brv.12583](https://doi.org/10.1111/brv.12583)
- 2020b Maggioni D., Saponari L., Seveso D., Galli P., Schiavo A., **Ostrovsky A.N.**, Montano S. Green fluorescence patterns in closely related symbiotic species of *Zanclaea* (Hydrozoa, Capitata). *MDPI Diversity* **12**: 78. DOI: [10.3390/d12020078](https://doi.org/10.3390/d12020078)
- 2020c Shevchenko E.T., Varfolomeeva M.A., Nekliudova U.A., Kotenko O.N., Usov N.V., Granovitch A.I., **Ostrovsky A.N.** *Electra* vs *Callopora*: Life-histories of two bryozoans with contrasting reproductive patterns from the White Sea. *Invertebrate Reproduction and Development* **64**(2): 137-157. DOI: [10.1080/07924259.2020.1729260](https://doi.org/10.1080/07924259.2020.1729260)
- 2020d Dick M.H., Waeschenbach A., Trott T.J., Onishi T., Beveridge C., Bishop J.D., Ito M., **Ostrovsky A.N.** Global distribution of the invasive cheilostome bryozoan *Cribrilina mutabilis*. *Zoological Science* **37**(3): 271-231. DOI: [10.2108/zs190142](https://doi.org/10.2108/zs190142)
- 2020e Maggioni D., Schiavo A., **Ostrovsky A.N.**, Seveso D., Galli P., Arrigoni R., Berumen M.L., Benzoni F., Montano S. *Zanclaea divergens* (Hydrozoa, Zanclidae) is a complex of bryozoan-associated cryptic species showing different patterns of diversification. *Molecular Phylogenetics and Evolution* **151**. DOI: [10.1016/j.ympev.2020.106893](https://doi.org/10.1016/j.ympev.2020.106893)
- 2019a Nekliudova U.A., Schwaha T.F., Kotenko O.N., Gruber D., Cyran N., **Ostrovsky A.N.** Sexual reproduction of the placental brooder *Celleporella hyalina* (Bryozoa, Cheilostomata) in the White Sea. *Journal of Morphology* **280**: 278-299. DOI: [10.1002/jmor.20943](https://doi.org/10.1002/jmor.20943)
- 2019b Schwaha T., Moosbrugger M., Walzl M., **Ostrovsky A.N.** First ultrastructural evidence of placental nutrition in a ctenostome bryozoan: example of *Amathia verticillata*. *Zoomorphology* **138**(2): 221-232. DOI: [10.1007/s00435-019-00438-4](https://doi.org/10.1007/s00435-019-00438-4)
- 2019c Nekliudova U.A., Shunkina K.V., Grishankov A.V., Varfolomeeva M.A., Granovitch A.I., **Ostrovsky A.N.** Colonies as dynamic systems: reconstructing the life-history of *Cribrilina annulata* (Bryozoa) on two algal substrates. *Journal of the Marine Biological Association of the United Kingdom* **99**(6): 1363-1377. DOI: [10.1017/S0025315419000286](https://doi.org/10.1017/S0025315419000286)
- 2019d Kvach A.Y., Varfolomeeva M.A., Kotenko O.N., Sukhotin A.A., Kutiumov V.A., Grischenko A.V., Granovitch A.I., **Ostrovsky A.N.** Life history of the ctenostome bryozoan *Flustrellidra hispida* in the White Sea. *Invertebrate Zoology* **16**(4): 343-360. DOI: [10.15298/invertzool.16.4.03](https://doi.org/10.15298/invertzool.16.4.03)
- 2018a Sokolover N., **Ostrovsky A.N.**, Ilan M. *Schizoporella errata* (Bryozoa: Cheilostomata) in the Israeli Mediterranean Sea: abundance, growth rate and reproduction strategy. *Marine Biology Research* **14**(8): 868-882. DOI: [10.1080/17451000.2018.1526385](https://doi.org/10.1080/17451000.2018.1526385)
- 2018b Schwaha T., Handschuh S., **Ostrovsky A.N.**, Wanninger A. Morphology of the bryozoan *Cinctipora elegans* (Cyclostomata, Cinctiporidae) with the first data on its sexual reproduction and the cyclostome neuro-muscular system. *BMC Evolutionary Biology* **18**:

92. DOI: [10.1186/s12862-018-1206-1](https://doi.org/10.1186/s12862-018-1206-1)
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- 2018a** Nekliudova U.A., Gruber D., Cyran N. & **Ostrovsky A.N.** Placental nourishment in cyclostome bryozoans. Pp. 18-19 *in* Abstract volume of the International conference “Marine biology, geology, oceanology: interdisciplinary research at marine stations and labs” (80th Anniversary of the Nikolai Pertsov White Sea Biological Station), Lomonosov Moscow State University, Russia. ISBN 978-5-907099-39-5.
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- 2016b** Nekliudova U.A. & **Ostrovsky A.N.** Placental analogue in *Celleporella hyalina*: development, structure, functioning. Pp. 59-60 in Zaitseva O.V., Petrov A.A. (eds.) Abstract volume of the School for Young Scientists and Students dedicated to the 110th anniversary of academician A.V. Ivanov “Modern Problems of Evolutionary Morphology of Animals”. Zoological Institute, Russian Academy of Sciences, Saint Petersburg, Russia [in Russian]. ISBN 978-5-98092-056-2.
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- 2010b Cáceres-Chamizo J.P., **Ostrovsky A.N.**, Vávra N. Preliminary comparison of bryozoan collections from the northern Indian Ocean and the Red Sea. *Terra Nostra – Schriften der GeoUnion Alfred-Vegener-Stiftung* 4 (Abstract volume of the 15th International Bryozoology Association Conference, Kiel University): 52-53. ISSN: 0946-8978.
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Evolution of coenocytic placenta and polyembryony in a group of aquatic colonial invertebrates (Bryozoa, Cyclostomata) (planned for *BMC Evolutionary Biology*).

Bibermair J., **Ostrovsky A.N.**, Wanninger A., Schwaha T.F. The embryonic development and matrotrophy in the phylactolaemate bryozoan *Plumatella casmiana*. (planned for *Frontiers in Zoology*).

Shevchenko E.T., Matvienko D.A., Nekliudova U.A., Belikova E.V., Kotenko O.N., **Ostrovsky A.N.** Comparative ultrastructural study of oogenesis in cheilostome bryozoans with contrasting reproductive patterns and its evolutionary implications (planned for *Zoology*).

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Grischenko A.V., Kuklinski P., Taylor P.D., Gordon D.P., N.V. Denisenko, **Ostrovsky A.N.** Systematics and phylogeny of the cheilostome bryozoan *Rhamphostomella* (planned for *Zootaxa*).

Serova K.M., Kotenko O.N., Spencer Jones M., Vishnyakov A.E., Schwaha T.F., **Ostrovsky A.N.** Zooidal polymorphism in aquatic modular invertebrates (Bryozoa): from Ellis to Darwin, and from function to evolution. (planned for *Biological Journal of the Linnean Society*).

Ostrovsky A.N., Moosbrugger M., Schwaha T. Evolutionary plasticity in the resource allocation in a group of aquatic colonial invertebrates: placentation vs oogenesis (planned for *BMC Evolutionary Biology*).

Moosbrugger M., Schwaha T., **Ostrovsky A.N.** Ultrastructure of placental nourishment in aquatic colonial invertebrates: a case study of bugulid bryozoans (planned for *Journal of Morphology*).

Grant H., **Ostrovsky A.N.**, Jenkins H., Waeschenbach A. Repeated evolution of brooding in the order Cheilostomata (Bryozoa, Gymnolaemata). (planned for *Proceedings of the Royal Society, Biology*).

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Kutyumov

Belikova

Bogdanov

Waeschenbach

Editorial work

Member of the Editorial Board of *Acta Zoologica*, Stockholm

Member of the Editorial Board of *Invertebrate Zoology*, Moscow

Member of the Editorial Board of *Trudy Zoologicheskogo Instituta RAN*, Saint Petesburg

Member of the Editorial Board of *PLOS One*, San Francisco

Science editor of the monograph of I.Yu. Popov (2008) *Periodic Tables in Biology*. KMK-Press, Moscow.

Reviewing papers for

Acta Zoologica

Around the World (Vokrug Sveta)

Arthropod Structure and Development

Bioinvasions

Biological Journal of the Linnaean Society

Biological Reviews

Cahiers de Biologie Marine

Courier Forschungsinstitut Senckenberg

Deep Research II

European Journal of Taxonomy

Frontiers in Zoology

Journal of Morphology

Journal of Natural History

Journal of Paleontology

Journal of the Marine Biological Association of the United Kingdom

Journal of Experimental Zoology Part B: Molecular and Developmental Evolution

Invertebrate Zoology

Invertebrate Reproduction and Development

Marine Biodiversity

Marine Biology

Marine Ecology Progress Series

Paleontologicheskii Zhurnal

PLOS One

Royal Society Open Science

Russian Journal of Biological Invasions

Science in Focus

Studia Universitatis Babes-Bolyai
Trudy Zoologicheskogo Instituta RAN
Zoological Journal of the Linnaean Society
Zoological Letters
Zoological Science
Zoologicheskij Zhurnal
Zoology
Zoomorphology
Zootaxa

- chapter in a book “Evo-Devo: Non-model species in cell and developmental biology”
- papers in several International Bryozoology Association conference volumes

Expertise:

- since 2014 - expert of the Russian Foundation for Basic Research
- since 2016 - expert of the Russian Academy of Sciences
- since 2018 – expert of the Russian Science Foundation
- since 2013 – member of the Dissertation Council of the Faculty of Biology, Saint Petersburg State University
- since 2016 – member of the Dissertation Council of the Zoological Institute, Russian Academy of Sciences (D 002.223.01)

List of scientific-popular publications:

Books:

- 2011 **Ostrovsky A.N.** Man and underwater world. KMK Press, Moscow. ISBN 978-5-87317-738-7. 231 pp. [In Russian] <http://avtor-kmk.ru/pages/showitem.php?id=484>
- 2009 **Ostrovsky A.N.** Lords of the abyss. KMK Press, Moscow. ISBN 978-5-87317-569-7. 216 pp. [In Russian] <http://elementy.ru/bookclub/book/318/>

Articles:

- 2012 Popov I.Yu., **Ostrovsky A.N.** Searching for the lost pearl. *Science in Focus* **10**(12): 84-87 [In Russian] <http://www.vokrugsveta.ru/nauka/article/178130/>
- 2011a **Ostrovsky A.N.** Surprising longevity of the crocodylian tribe. *Vokrug Sveta* **4**: 146-156 [In Russian] <http://www.vokrugsveta.ru/vs/article/7397/>
- 2011b Popov I.Y., **Ostrovsky A.N.** When the mammoths weren't large. *Vokrug Sveta* **8**(2851):66-72 [In Russian] <http://www.vokrugsveta.ru/vs/article/7474/>
- 2011c **Ostrovsky A.N.** Strategy of the fast growth. *Vokrug Sveta* **2**(2857): 116-124 [In Russian] <http://www.vokrugsveta.ru/vs/article/7622/>
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- 2006a **Vorontsov A.** (pseudoname). Sea in the middle of land. *Podvodniy Club* **1-2**: 50-57 [in Russian].
- 2006b **Ostrovsky A.N.** Attack of leopard seal: who is guilty? *Podvodniy Club* **4**: 54-59 [in Russian].
- 2006c **Ostrovsky A.N.** Underwater intelligence. *Predelnaja Glubina* **9**: 76-81 [in Russian].
- 2006d **Ostrovsky A.N.** Okinawa Aquarium presents: wonder-whale-fish. *Predelnaja Glubina* **10**: 66-68 [in Russian].
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- 2005a **Ostrovsky A.N.** Tsunami and marine life: catastrophe under the sea. *Podvodniy Club* **1-2**: 24-31 [in Russian].
- 2005b **Ostrovsky A.N.** As a symbol of hope. *Podvodniy Club* **1-2**: 36-37 [in Russian].
- 2005c **Vorontsov A.** (pseudoname). Aquarium. *Podvodniy Club* **1-2**: 82-88 [in Russian].
- 2005d **Ostrovsky A.N.** Artificial reefs: hand-made biocenosis. *Podvodniy Club* **3**: 34-39 [in Russian].
- 2005e **Ostrovsky A.N.** Hostages of underwater war. *Podvodniy Club* **4**: 48-55 [in Russian].
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- 2005n **Ostrovsky A.N.** Torben Wolff: long journey of zoologist. *Podvodniy Club* **9**: 84-89 [in Russian].
- 2005o **Vorontsov A.** (pseudoname). Treasures of the crystal sea of Siberia: unique fauna of Baykal lake. *Podvodniy Club* **10**: 62-71 [in Russian].
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- 2004d **Vorontsov A.** (pseudoname). Tropical forest and coral reef: between hope and frustration. *Podvodniy Club* **9**: 17-33 [in Russian].
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- 2003b **Ostrovsky A.N.** Taiwanese diary [in Russian] – *Researcher-at* (<http://www.researcher-at.ru/prostrannoe/110503.htm>).
- 2003c **Ostrovsky A.N.** About emigration (a letter to younger sister) [in Russian] - *Researcher-at 2003* <http://www.researcher-at.ru/prostrannoe/180503.htm> - *Nanya* (<http://www.nanya.ru/opit/6979>).
- 2003d **Ostrovsky A.N.** Money, money, money, or about uncertain future of our generation [in Russian] – *Researcher-at* http://www.researcher-at.ru/com_viewarticle73-54.html
- 2003e **Ostrovsky A.N.** Letters abroad or e-mail diary of the young Chief of the Department [in Russian] – *Researcher-at* <http://www.researcher-at.ru/index.php?option=articles&task=viewarticle&artid=83>

Other experience:

Professional collector with experience in making and using of various tools for palaeontological and biological sampling.

Invertebrate collections and database management.

Professional knowledge of the light, SEM- and TEM-microscopy, including preparation techniques.

Certified SCUBA diver (DOSAAF open water diver since 1987, CMAS open water diver since 1998, NAUI rescue diver since 1999).

Writing books and articles on the marine biology, conservation, history and ethnography for Russian popular biological, underwater and marine journals

Hobbies:

Sports (volleyball, diving), music, literature, writing science popular articles, photography.

Languages:

Spoken: Russian, English, German

Reading knowledge: German, French, Spanish, Portuguese, Italian