

Curriculum Vitae

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Education

2003 - Ph.D. in Chemistry, FEB RAS, G.B. Elyakov Pacific Institute of Bioorganic Chemistry (PIBOC), Vladivostok, Russia.

1997 - M.Sc. (with Honours) in Chemistry, Far Eastern National University (FENU), Department of Chemistry, Laboratory of Organic synthesis of quinoid compounds, Vladivostok, Russia.

Professional Experience

2016 - present - Researcher, NSCMB FEB RAS, Laboratory of Cytotechnology, Vladivostok, Russia.

2009 - 2016 - Researcher, IBM FEB RAS, Laboratory of Cytotechnology, Vladivostok, Russia.

2004 - 2009 - Researcher, IMB FEB RAS, Laboratory of Cell Biophysics, Vladivostok, Russia.

2000 - 2004 - Researcher, FENU, Department of Chemistry, Laboratory of Organic synthesis of quinoid compounds, Vladivostok, Russia. Vladivostok, Russia.

1997-2000 - Research Assistant, Postgraduate student research work, FENU, Department of Chemistry, Laboratory of Organic synthesis of quinoid compounds, Vladivostok, Russia.

1992 - 1997 - Graduate student, FENU, Department of Chemistry, Vladivostok, Russia.

Research skills:

DNA and RNA manipulation: DNA and RNA isolation; DNA gel electrophoresis; Polymerase Chain Reaction (PCR); Reverse Transcription (RT) reaction; Real-time PCR; DNA sequencing.

Cloning: restriction analysis; preparation of competent *E. coli* cells; *E. coli* transformation; DNA extraction from agarose gels.

Cell Culture techniques: cell cultures of marine invertebrates (sea urchins); basic cultivation methods; preparation of nutrient media; immunocytochemical analysis; cryopreservation of biological material.

Methods of Organic Chemistry: organic synthesis of chemical compounds and their structural analysis; thin-layer chromatography (TLC); spectroscopy of nuclear magnetic resonance (NMR), IR and UV – spectroscopy; mass spectrometry of organic compounds.

Computer: Basic computer skills on Windows including MS Office products such as Word, Excel, PowerPoint; Adobe series – Photoshop and CorelDraw.

Honors and Rewards:

2012 – “Environmental Management: Oceanography” (Open World Program), October 24–26, Washington DC, October 27 – November 3, San Diego, USA.

2010 - A winner of the poster session at the 9th International Marine Biotechnology Conference, Qingdao, China.

2010 - The Best Oral Presentation, «The Annual Conference for Young Scientists», IMB FEB RAS.

2001 - Gold medal and diploma «For contribution to science and the scientific partnership». The Best oral report at the 1st International Conference «Chemistry and Biological Activity of nitrogen heterocycles and alkaloids», Moscow, Russia.

1997 - Diploma (with Honors), FENU, Department of Chemistry, Vladivostok, Russia. Specialization: Organic chemistry. Thesis – «Oxidative coupling of derivatives of 4a,9-diaza-1,2,4a,9a-tetrahydrofluorene with aminophenols».

Scientific work of Ageenko N.V. was supported by grants funded by the Russian Foundation for Basic Research (RFBR) and the Presidium of the FEB RAS.

PhD thesis:

Ageenko N.V., Synthesis of quinoid compounds from 1,2,5,10a-tetrahydropyrido[1,2-a]benzimidazole-10H annelated and systems based on them // PhD thesis, PIBOC FEB RAS, Vladivostok, Russia, 2003. p. 170.

Attendance at international symposia/workshops/training course:

2015 - International Conference «Cell cultures of marine and fresh-water animals», September 8-10, Marine Biological Station «Vostok», **Vladivostok, Russia.**

2013 - 10th International Marine Biotechnology Conference, November 11-15, **Brisbane, Australia.**

2012 - «Environmental Management: Oceanography» (Open World Program), October 24 - 26, **Washington DC**, October 27 - November 3, **San Diego, USA.**

2010 - 9th International Marine Biotechnology Conference, October 8-12, **Qingdao, China.**

Articles:

1. Ageenko N.V., Kiselev K.V., Odintsova N.A Freezing tolerance of sea urchin embryo pigment cells // Russian J. Marine Biology. 2016. Vol. 42, № 5. P. 437-441.
2. Slabko O.Yu., Ageenko N.V., Denisenko V.A., Kaminskii V.A. 1,3-Dipolar Cycloaddition of Diazomethane to Quinoid Derivatives of Pyrido[1,2-a]benzimidazole // Russian Journal of Organic Chemistry, 2016. Vol. 53 (2). P. 231–235.

3. Tyunin A.P., Ageenko N.V., Kiselev K.V. Effects of 5-azacytidine induced DNA demethylation on polyketide synthase gene expression in larvae of *Strongylocentrotus intermedius* // Biotechnology letters. 2016. Vol. 38, № 12. P. 2035-2041.
4. Odintsova N.A., Ageenko N.V., Kipryushina Yu.O., Maiorova M.A., Boroda A.V. Freezing tolerance of sea urchin embryonic cells: Differentiation commitment and cytoskeletal disturbances in culture // Cryobiology. 2015. Vol. 71. P. 54-63.
5. Ageenko N.V., Kiselev K.V., Dmitrenok P.S., Odintsova N.A. Pigment cell differentiation in blastula-derived primary cell cultures of sea urchins // Marine Drugs. 2014. Special issue: Advances and New Perspectives in Marine Biotechnology. Vol. 12. P. 3874-3891.
6. Kiselev K.V., Ageenko N.V., Kurilenko V.V. Involvement of the cell-specific pigment genes *pks* and *sult* in the bacterial defense response of the sea urchin *Strongylocentrotus intermedius* // Diseases of Aquatic Organisms. 2013. Vol. 103. P. 121-132.
7. Ageenko N.V., Kiselev K.V., Odintsova N.A. Expression of pigment cell-specific genes in the ontogenesis of the sea urchin *Strongylocentrotus intermedius* // Evidence-Based Complementary and Alternative Medicine. 2011. DOI 10.1155/2011/730356
8. Slabko O.Yu., Ageenko N.V., Kaminskii V.A. Oxidative combination of derivatives of Pyrido[1,2-a]benzimidazole with some biologically active amines // Russian Journal of Organic Chemistry, 2009. V. 45. № 2. P. 276-279.
9. Slabko O.Yu., Ageenko N.V., Kaminskii V.A. Oxidative combination of derivatives of Pyrido[1,2-a]benzimidazole with methylene-active carboxylic acid derivatives// Russian Journal of Organic Chemistry, 2009. V. 45. № 8. P. 1223-1227.
10. Odintsova N.A., Ageenko N.V., Kiselev K.V., Sanina N.M., Kostetsky E.Y. Analysis of marine hydrobiont lipid extracts as possible cryoprotective agents // International Journal of Refrigeration, 2006. Vol. 29. P. 387–395.

The patent of Russian Federation:

1. Odintsova N.A., Boroda A.V., Ageenko N.V., Kostetsky E.Y. The method for cryopreservation of marine invertebrate cells // Invention patent № 2314687. Moscow, 2008. Bulletin № 2. (in Russian)

Conferences:

1. Ageenko N.V., Kiselev K.V., Odintsova N.A. Expression of genes of pigment differentiation throughout the development and in cultured embryonic cells of the sand dollar *Scaphechinus mirabilis* // Abstracts of 3th International Meeting «Life Sciences», September 4-8, 2018 (Vladivostok, Russia). P. 129.
2. Ageenko N.V., Boroda A.V., Kipryushina Yu.O., Maiorova M.A., Yakovlev K.V., Odintsova N.A. Why do sea urchin embryonic cells die after freezing-thawing? // Abstracts of the 12th International Congress of Cell Biology. 2016. July 21-25. Prague, Czech Republic. P. 266.
3. Kipryushina Y.O., Ageenko N.V., Boroda A.V., Maiorova M.A., Odintsova N.A. The effects of cryoinjury on differentiation commitment of sea urchin embryonic cells // Proceedings of the International Conference "Cell cultures of marine and fresh-water animals". Vladivostok, Russia. September 8-10, 2015. P. 15.
4. Ageenko Natalya, Konstantin Kiselev, Pavel Dmitrenok and Nelly Odintsova. Pigment cell differentiation in blastula-derived primary cell cultures of sea urchins // Abstracts of the 10th International Marine Biotechnology Conference «Genome to phenome: understanding to sustainable us». 2013, November 11-15. Brisbane, Australia. P. 59.

5. Odintsova N.A., Ageenko N.V., Boroda A.V., Kiprushina Yu.O. Spicule formation and pigment cell differentiation in primary cell cultures of sea urchin embryos. Cryopreservation of the cultures // Abstracts of «Marine invertebrate cell culture Symposium», Corcarneau, France, August 30–31, 2012. P. 9.
6. Ageenko N.V., Kiselev K.V., Odintsova N.A. Expression of the polyketide synthase genes at early developmental stages of the sea urchin *Strongylocentrotus intermedius*. Abstracts of 9th International Marine Biotechnology Conference. Qindao, China (8-12 October 2010). P. 238.
7. Odintsova N.A., Ageenko N.V., Boroda A.V., Kostetsky E.Y. The new cryoprotectants are the key step to establish marine invertebrate's Cryobank // International scientific conference "Innovations in science and education – 2005", October 19–21. Kaliningrad, Russia, 2005. P. 79–80. (*in Russian*)

Supervising:

Borisova Kseniya, M.Sc. 2009. «Study of the reaction annelation quinoid compounds from 1,2,5,10a-tetrahydropyrido[1,2-a]-7H-benzimidazole», FENU, Department of Chemistry, Institute of Chemistry and Applied Ecology of FEFU, Laboratory of Organic synthesis of quinoid compounds, Vladivostok, Russia.