

Curriculum Vitae

Yulia O. Kipryushina

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Birth date: July 5, 1988

Citizenship: Russian Federation

Education

2010 – 2013 Research Assistant, Graduate student research work, Laboratory of Cytotechnology, A.V. Zhirmunsky Institute of Marine Biology, Far Eastern Branch of the Russian Academy of Sciences (Russia, Vladivostok)

2005 – 2010 Specialist in Cell Biology, Far Eastern National University, Biological Faculty, Department of Cytology (Russia, Vladivostok)

Professional Experience

2016 – present time, Researcher, Laboratory of Cytotechnology, National Scientific Center of Marine Biology, FEB RAS

2015-2016, Researcher, Laboratory of Cytotechnology, A.V. Zhirmunsky Institute of Marine Biology, FEB RAS

2010 – 2015

junior researcher, Laboratory of Cytotechnology, A.V. Zhirmunsky Institute of Marine Biology, FEB RAS

2009 – 2010

Laboratory assistant, Laboratory of Cytotechnology, A.V. Zhirmunsky Institute of Marine Biology, FEB RAS

2007 – 2009

Technician, Laboratory of Cell Biophysics, A.V. Zhirmunsky Institute of Marine Biology, FEB RAS

Research Interests:

- Developmental biology
- Cell Biology
- Cell Signaling

Publications:

Articles

1. **Kipryushina Y.O.**, Lukyanov P.A., Odintsova N.A. Effect of mytilan on the UV-radiation resistance of marine invertebrate larvae and human lymphocytes // Russian Journal of Marine Biology. 2010. Vol. 36, № 4. P. 305–310.

2. **Kipryushina Y.O.**, Odintsova N.A. Effect of exogenous factors on the induction of spicule formation in embryo-derived cell cultures of sea urchins // *Russian Journal of Developmental Biology*. 2011. Vol. 42, № 5. P. 390–396.
3. **Kipryushina Y.O.**, Yakovlev K.V., Kulakova M.A., Odintsova N.A. Expression pattern of vascular endothelial growth factor 2 during sea urchin development // *Gene Expression Patterns*. 2013. Vol. 13, № 8. P. 402–406.
4. **Kipryushina Y.O.**, Yakovlev K.V., Odintsova N.A. Vascular endothelial growth factors: A comparison between invertebrates and vertebrates // *Cytokine & Growth Factor Reviews*. 2015. Vol. 6. P. 687–695.
5. Odintsova N.A., Ageenko N.V., **Kipryushina Y.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, № 1. P. 54–63.
6. Boroda A.V., **Kipryushina Y.O.**, Yakovlev K.V., Odintsova N.A. The contribution of apoptosis and necrosis in freezing injury of sea urchin embryonic cells // *Cryobiology*. 2016. Vol. 73, № 1. P. 7–14.
7. Manzhulo I.V., Ogurtsova O.S., **Kipryushina Y.O.**, Latyshev N.A., Kasyanov S.P., Dyuizen I.V., Tyrtysnaia A.A. // Neuron-astrocyte interactions in spinal cord dorsal horn in neuropathic pain development and docosahexaenoic acid therapy. *Journal of Neuroimmunology*. 2016. Vol. 298. P. 90-97.
8. Manzhulo I.V., Tyrtysnaia A.A., **Kipryushina Y.O.**, Dyuizen I.V., Ermolenko E., Manzhulo O.S. Docosahexaenoic acid improves motor function in the model of spinal cord injury // *Neurosci Lett*. 2018. Vol. 672. P. 6-14.
9. Manzhulo I.V., Tyrtysnaia A.A., **Kipryushina Y.O.**, Dyuizen I.V., Ogurtsova O.S. Docosahexaenoic acid induces changes in microglia/macrophage polarization after spinal cord injury in rats // *Acta Histochem*. 2018. <https://doi.org/10.1016/j.acthis.2018.08.005>

Selected conference Papers at International Scientific Meetings

1. **Kipryushina Y.O.**, Yakovlev K.V., Odintsova N.A. Expression of new growth factor of the VEGF family in sea urchin development // Abstracts of 51 Annual Meeting of American Society of Cell Biology (Denver, USA), 3-7 December 2011 // *Molecular Biology of the Cell*. 2011. Vol. 22 (suppl). Abstract № 2940.
2. Odintsova N., Ageenko N., Boroda A., **Kipryushina Y.** Spicule formation and pigment cell differentiation in primary cell cultures of sea urchin embryos. Cryopreservation of the cultures // Abstracts of the Symposium «Marine Invertebrate Cell Culture», Corcarneau, France, August 30-31 2012. *Cytotechnology*. 2013. Vol. 65. P. 676.
3. **Kipryushina Y.O.**, Yakovlev K.V., Kulakova M.A., Odintsova N.A. Identification of a new gene *Si-Vegf2* of the vascular endothelial growth factor family, its temporal and spatial expression during sea urchin development // IX Meeting of the Spanish Society for Developmental Biology, Granada, Spain, November 12-14 2012. Abstract Book, 2012. P. 118.
4. 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.

5. **Kipryushina Y.O.**, Maiorova M.A., Golochvastova R.V., Boroda A.V. Cryobanking biological material of marine mammals: purpose, methods and successes // Abstracts of the International Conference “Scientific and Technological Developments of Research and Monitoring of Marine Biological Resources”. 2017. May 22-24. Vladivostok, Russia. P. 23-24.
6. Odintsova N.A., **Kipryushina Y.O.**, Boroda A.V. Attempts to modulate apoptosis in cryopreserved molluscan cells // CRYO 2018. Abstracts of 55th Annual Meeting of the Society for Cryobiology. July 10-13, 2018. Madrid, Spain. P.58.

Finding

2012, 2013 Grant from Far Eastern Branch of the Russian Academy of Sciences for young scientists

2012 - Grant from OPTEC for young scientists

2014 - 2015 Grant for young scientists from Russian Foundation for basic research

2014 - 2016 Russian Science Foundation

PhD thesis:

2013: Ph.D. in Cell Biology and Cytology

Kipryushina Yu.O., Vascular endothelial growth factors and fibroblast growth factors, SI-VEGF2 И SI-FGF, and their receptors during ontogenesis of the sea urchin *STRONGYLOCENTROTUS INTERMEDIUS* // PhD thesis, NSCMB, FEB RAS, 2013. p. 128. (in Russian)

Attendance at international workshops/training courses

2017 Training course on flow cytometry, September 13, NSCMB FEB RAS, Vladivostok, Russia.

2014 Gene Regulatory Networks for Development (Woods Hole, USA).

2013 Developmental Biology Lecturer international joint course Curie/UPMC (Paris, France).

2012 3D Developmental Biology EMBO practical course (Oeiras, Portugal).

Honors and Awards:

2012

Best Presentation on the annual conference of the A.V. Zhirmunsky IMB, FEB RAS

2009

Second Place – Award for the Best Student Scientific Work presented by Research and Educational Center «Marine biota» (Civilian Research and Development Foundation inventors, CRDF)

2008

A.V. Zhirmunsky Award for the best student study, A.V. Zhirmunsky IMB, FEB RAS

Award for the Best Student Scientific Work in the field of biology, Far Eastern National University

Languages

Russian (native), English (fluent)

Other

2015

Member of Organizing committee of International Conference "Cell cultures of marine and fresh-water animals". Vladivostok (Marine Biological Station "Vostok", IMB FEB RAS), Russia. September 8-10.

2009

Participant of Russian English Camp organized by Civilian Research and Development Foundation (Yaroslavl, Russia).

2008, 2010

Member of Organizing committee of 8- and 9-Regional Conferences for students, Ph. D. students and young scientists of Russian Far East «Topical issues on ecology, marine biology and biotechnology»