

SERGEI V. TURANOV

National Scientific Center of Marine Biology
(A.V. Zhirmunsky Institute of Marine Biology)
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Laboratory of Molecular Systematics
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Vladivostok, 690041, Russia

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EDUCATION

Candidate of Sciences, Genetics/Ichthyology
A.V. Zhirmunsky Institute of Marine Biology
of the Far Eastern Branch of the Russian
Academy of Sciences, Vladivostok

October 2010 - October 2013

Specialist, Ichthyology
Far Eastern State Technical
Fisheries University, Vladivostok

September 2005 - June 2010

PROFESSIONAL EXPERIENCE

National Scientific Centre of Marine Biology (A.V. Zhirmunsky Institute of Marine Biology) of the Far Eastern Branch of the Russian Academy of Sciences, Vladivostok

Laboratory of Molecular Systematics

- Senior Researcher
- Research Scientist
- Junior Researcher

January 2019 - present
June 2015 - December 2018
May 2012 - June 2015

Laboratory of Genetics

- Junior Researcher
- Laboratory assistant

October 2010 - May 2012
June 2009 - October 2010

*Korea Institute of Ocean Science and Technology,
Ansan, Republic of Korea*

Marine Molecular Genetics Lab

- Research Assistant

June, November 2012

RESEARCH

Research Interests

Ichthyology, molecular phylogenetics and systematics of aquatic organisms, DNA barcoding, species delimitation and delineation techniques, environmental DNA, reproductive isolation, mitochondrial genomics.

Selected Publications

- Balanov A.A., Epur I.V., Shelekhov V.A., **Turanov S.V.** The first description of larvae and comments on the taxonomy of *Stichaeus ochriamkini* Taranetz, 1935 (Perciformes: Stichaeidae). *Journal of Fish Biology*. – March, 2022.
- **Turanov S.V.**, Kartavtsev Yu.Ph. A complement to DNA barcoding reference library for identification of fish from the Northeast Pacific. *Genome*. Vol. 64, No. 10, pp. 927–936. - March, 2021.
- **Turanov S.V.**, Balanov A.A., Shelekhov V.A. Species of the genus *Ammodytes* (Ammodytidae) in the northwestern part of the Sea of Japan. *Journal of Applied Ichthyology*. Vol. 55, No. 6, pp. 1303–1306. - December, 2019.
- **Turanov S.V.**, Kartavtsev Yu.Ph., Shapovalov M.E. The first attempt at studying the species diversity of fish in the lake Khanka using DNA barcoding techniques. *Russian Journal of Genetics*. Vol. 55, No. 4, pp. 464–472. - June, 2019.
- **Turanov S.V.**, Rutenko O.A., Kartavtsev Yu.Ph. Complete mitochondrial genome of *Stichaeus nozawae* Jordan & Snyder 1902 (Zoarcales: Stichaeidae). *Mitochondrial DNA Part B*. Vol. 4, No. 1, pp. 1792–1793. - May, 2019.
- Rutenko O.A., **Turanov S.V.**, Kartavtsev Yu.Ph. Complete mitochondrial genome of ocellated blenny, *Opisthocentrus ocellatus* (Tilesius, 1811) (Zoarcales: Opisthocentridae). *Mitochondrial DNA Part B*. Vol. 4, No. 1, pp. 1553–1555. - April, 2019.
- **Turanov S.V.** The assembly and analysis of the reference nucleotide sequence data base of the mitochondrial *COI* gene for delimitation of sand lance species (Uranoscopiformes: Ammodytidae) from the Northern Hemisphere. *Russian Journal of Marine Biology*. Vol. 45, No. 1, pp. 40–46. - February, 2019.
- Shevchenko O.G., Ponomareva A.A., **Turanov S.V.**, Dutova D.I. Morphological and Genetic Variability of *Skeletonema dohrnii* and *Skeletonema japonicum* (Bacillariophyta) from the Northwestern Sea of Japan. *Phycologia*. Vol. 58, No. 1, pp. 95–107. - January, 2019.
- **Turanov S.V.**, Lee Y.-H., Kartavtsev Yu.Ph. Structure, evolution and phylogenetic informativeness of eelpouts (Cottoidei: Zoarcales) mitochondrial control region sequences. *Mitochondrial DNA Part A*. Vol. 30, No. 2, pp. 264–272. - January, 2019.
- Cherneva I.A., Chernyshev A.V., Ekimova I.A., Polyakova N.E., Schepetov D.M., **Turanov S.V.**, Neretina T.V., Chaban E.M., Malakhov V.V. Species identity and genetic structure of nemertean of the *Lineus ruberviridis* complex (Müller, 1774) from Arctic waters. *Polar Biology*. - November, 2018.
- **Turanov S.V.**, Kartavtsev Yu.Ph., Lee Y.-H., Jeong D. Molecular phylogenetic reconstruction and taxonomic investigation of eelpouts (Cottoidei: Zoarcales) based on *Co-1* and *Cyt-b* mitochondrial genes. *Mitochondrial DNA Part A*. Vol. 28, No. 4, pp. 547–557. - December, 2017.
- Nedunoori A., **Turanov S.V.**, Kartavtsev Yu.Ph. Fish product mislabeling identified in the Russian far east using DNA barcoding. *Gene Reports*. - July, 2017.
- Chernyshev A.V., Polyakova N.E., **Turanov S.V.**, Kajihara H. Taxonomy and phylogeny of *Lineus torquatus* and allies (Nemertea, Lineidae) with descriptions of a new genus and a new cryptic species. *Systematics and Biodiversity*. - May, 2017.
- Zvyaginsev A.Yu., Dautova T.N., **Turanov S.V.**, Kartavtsev Yu.Ph. Is jellyfish *Rhopilema esculenta* Kishinouye, 1891 the seasonal migrant in Peter the Great Bay of the Sea of Japan?. *Vestnik SVNC FEB RAS* (in Russian). No. 1, pp. 88–96. - January, 2017.
- Kartavtsev Yu.Ph., Than V.K., **Turanov S.V.** A facility for fish rearing with experimental needs. *Fisheries* ("Rybnoye khozyaystvo", in Russian). No. 5, pp. 90–93. - October, 2016.

- Zvyagintsev A.Yu., Samanyan K.E., **Turanov S.V.**, Kartavtsev Yu.Ph. The colonial ascidia *Didemnum vexillum* Kott, 2002 - an alien species in Peter the Great Bay (Sea of Japan). Russian Journal of Biological Invasions. Vol. 9, No. 2, pp. 49-58. - April, 2016.
- **Turanov S.V.**, Kartavtsev Yu.Ph., Lipinsky V.V., Zemnukhov V.V., Balanov A.A., Lee Y.-H., Jeong D. DNA-barcoding of perch-like fishes (Actinopterygii: Perciformes) from far-eastern seas of Russia with taxonomic remarks for some groups. Mitochondrial DNA Part A. Vol. 27, No. 2, pp. 1188–1209. - March, 2016.
- **Turanov S.V.**, Kartavtsev Yu.Ph. The Taxonomic Composition and Distribution of Sand Lances from the Genus *Ammodytes* (Perciformes: Ammodytidae) in the North Pacific. Russian Journal of Marine Biology. Vol. 40, No. 6, pp. 447-454. - December, 2014.
- Zemnukhov V.V., **Turanov S.V.** First Catch in Russian Waters of a Spinulated Specimen of *Lobotes surinamensis* (Bloch, 1790) (Percoidei: Lobotidae) with Notes on Taxonomy of this Species. Journal of Ichthyology. Vol. 51, No. 1, pp. 84-89. - January, 2011.

Conference Talks

- **Turanov S.V.** A pipeline for building mitochondrial genome supermatrices for partitioned phylogenetic analysis of fish / Selected abstracts of Bioinformatics: from Algorithms to Applications 2021 Conference. BMC Bioinformatics 22, 591 (2021).
- **Turanov S.V.** Development of a set of oligonucleotides for the identification of the Sakhalin sturgeon *Acipenser mikadoi* Hilgendorf, 1892 by PCR / ARPHA Conference Abstracts. Pensoft Publishers, 2021. Vol. 4. P. e65013.
- **Turanov S.V.**, Redin A.D., Masalkova N.A. Species divergence and genetic differentiation of sand lances (Trachiniformes: *Ammodytes*) from the northwestern Pacific / Abstracts of the International Conference Unique Marine Ecosystems: Modern Technologies of Exploration and Conservation for Future Generations Vladivostok, Russia, August 4-7, 2016. - Vladivostok, 2016. - p. 111.
- **Turanov S.V.**, Lee Y.-H., Kartavtsev Yu.Ph. Structural features and variation of mitochondrial control region among eelpouts (Cottoidei: Zoarcales) // Modern Achievements in Population, Evolutionary, and Ecological Genetics: International Symposium, Vladivostok Vostok Marine Biological Station, September 1-10, 2015 : Program & Abstracts. - Vladivostok, 2015. - p. 77.
- **Turanov S.V.**, Kartavtsev Yu.Ph., Lee Y.-H., Zemnukhov V.V., Balanov A.A. Molecular-phylogenetic reconstruction and taxonomic investigation of eelpouts (Cottoidei: Zoarcales) based on two mitochondrial genes. Genome. Vol. 58, No. 5, pp. 289-290. – May, 2015.
- **Turanov S.V.**, Kartavtsev Yu.Ph., Sharina S.N., Zemnukhov V.V., Balanov A.A., Lee Y.-H., Jeong D., Rozhkovan K.V. DNA barcoding of fishes from Far East of Russia / Molecular Phylogenetics: Contributions to the 4th Moscow International Conference "Molecular Phylogenetics" (Moscow, Russia, September 23-26, 2014) / [Compiled by A. Troitsky, L. Rusin, and N. Petrov]. – Moscow: TURUS PRESS, 2014. – p. 70.
- **Turanov S.V.**, Kartavtsev Yu.Ph., Sharina S.N., Zemnukhov V.V., Balanov A.V. DNA barcoding of Perch-like fishes (Pisces: Perciformes) from far-eastern seas of Russia // Modern Achievements in Population, Evolutionary, and Ecological Genetics: International Symposium, Vladivostok Vostok Marine Biological Station, September 2-6, 2013: Program & Abstracts. - Vladivostok, 2013. - P. 73.
- **Turanov S.V.**, Kartavtsev Y.Ph., Zemnukhov V.V., Balanov A.A. Molecular delimitation and phylogeny of perch-like fish species from Russia Far East // Fish Barcode of Life World Conference., Yeosu, Korea, 12-14 June, 2012: Proceedings. - Yeosu: 2012. - P. 35.

Dissertation

- **Turanov S.V.** Species Barcoding and Molecular Phylogenetics of Pricklebacks Fishes (Perciformes: Stichaeidae) from Far Eastern Seas of Russia. Candidate of Sciences Dissertation. A.V. Zhirmunsky Institute of Marine Biology. Vladivostok, Russia. 2013. (In Russian)

TEACHING

Far Eastent Technical Fisheries University, Vladivostok

Associate Professor

Molecular Genetics Techniques in Aquaculture,
Biodiversity and Phylogeny

Autumn 2015 - present

Far Eastent Federal University, Vladivostok

Teaching assistant

Basic and Population Genetics

Spring 2011, 2012, 2013

GRANTS & AWARDS

Departmental award of the Ministry of Education and Science of Russia - the medal "Young Scientist", 2021.

Grant for young scientists from the President of Russian Federation, 2019.

Grant for young scientists from Russian Foundation For Basic Research, 2016-2019.

Expedition Grant from Far Eastern Branch of the Russian Academy of Sciences, 2016.

Travel Award for 6th International Barcode of Life Conference, 2015.

Grant for young scientists from Far Eastern Branch of the Russian Academy of Sciences, 2015.

Grant for young scientists from Far Eastern Branch of the Russian Academy of Sciences, 2014.

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

Best oral presentation on the annual conference of young scientists in the IMB FEB RAS, 2013.

Second place oral presentation at MAPEEG-2013 (Modern Achievements in Population, Evolutionary and Ecological Genetics, International Symposium, Vladivostok).

Grant for young scientists from Far Eastern Branch of the Russian Academy of Sciences, 2011.

Fellow of the governor of the Primorskii Kray, 2010.

SOCIAL ACTIVITY

Chair of the Council of Young Scientists at NSCMB.

SKILLS

Ichthyology.

Nucleic acids sequencing methods: Sanger and Illumina platforms.

Bioinformatics.

Computational Molecular Evolution and Phylogenetics.

R programming.

Last update: March 29, 2022