

## Сведения об официальном оппоненте

Фамилия Имя Отчество (полностью)	Трифонов Владимир Александрович	
Ученая степень и наименование отрасли наук, научных специальностей, по которым защищена диссертация	Степень доктор биологических наук	Наименование 03.01.07 — молекулярная генетика
Полное наименование организации - основное место работы, должность	Институт молекулярной и клеточной биологии Сибирского Отделения Российской Академии Наук, Новосибирск	Заведующий лабораторией сравнительной геномики
Список основных публикаций оппонента по теме диссертации в рецензируемых научных изданиях за посл. 5 лет (не более 15)	<ol style="list-style-type: none"> <li>1. Bian C, Hu Y, Ravi V, Kuznetsova IS, Shen X, Mu X, Sun Y, You X, Li J, Li X, Qiu Y, Tay B , Thevasagayam NM, Komissarov AS, <u>Trifonov V</u>, Kabilov M , Tupikin A et al The Asian arowana (Scleropages formosus) genome provides new insights into the evolution of an early lineage of teleosts Scientific Reports 2016 2016 Apr 19;6:24501. doi: 10.1038/srep24501.</li> <li>2. de Oliveira E.A., Bertollo L.A.C., Yano C.F., Moreira-Filho O., Hatanaka T., Cioffi M.D.B., Sember A., Ráb P., Ezaz T., <u>Trifonov V.</u>, Liehr T., Al-Rikabi A.B.H., Pains H. Tracking the evolutionary pathway of sex chromosomes among fishes: characterizing the unique XX/XY<sub>1</sub>Y<sub>2</sub> system in Hoplias malabaricus (Teleostei, Chraciformes). Chromosoma. 2018. T. 127. № 1. C. 115-128.</li> </ol>	

3. Giovannotti M., Paoletti A., Giovagnoli G., Ruggeri P., Cerioni P.N., Splendiani A., Olmo E., Caputo Barucchi V., O'Brien P.C.M., Kasai F., Pereira J.C., Rens W., Ferguson-Smith M.A., Trifonov V.A., Kichigin I.G., Ng B.L. New insights into sex chromosome evolution in Anole lizards (Reptilia, Dactyloidae). *Chromosoma*. 2017. T. 126. № 2. C. 245-260.
4. Dyomin A.G., Danilova M.I., Galkina S.A., Mwacharo J.M., Masharsky A.E., Pantelev A.V., Druzhkova A.S., Trifonov V.A. Mitochondrial and D-loop haplogroup contributions to the genetic diversity of east European domestic chickens from Russia. *Journal of Animal Breeding and Genetics*. 2017. T. 134. № 2. C. 98-108.
5. Houben A., Jones N., Martins C., Trifonov V. Evolution, composition and regulation of supernumerary B chromosomes. *Genes*. 2019. 10(2),161
6. Pobedintseva M.A., Makunin A.I., Kichigin I.G., Kulemzina A.I., Serdyukova N.A., Romanenko S.A., Vorobieva N.V., Interesova E.A., Korentovich M.A., Zaytsev V.F., Mischenko A.V., Zadelenov V.A., Yurchenko A.A., Sherbakov D.Y., Graphodatsky A.S., Trifonov V.A. Population genetic structure and phylogeography of sterlet (*Acipenser ruthenus*, *Acipenseridae*) in the Ob and Yenisei river basins. *Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis* Volume 30, Issue 1, 2 January 2019, Pages 156-164
7. Rajičić M., Blagojević J., Adnadević T.,

Budinski I., Vujošević M., Romanenko S.A., Trifonov V.A., Karamysheva T.V., Rubtsov N.B., Bogdanov A.S. The origin of B chromosomes in Yellownecked (*Apodemus flavicollis*) – break rules but keep playing the game. PLoS ONE. 2017. T. 12. № 3. C. e0172704.

8. Trifonov V.A., Romanenko S.S., Beklemisheva V.R., Biltueva L.S., Makunin A.I., Lemskaya N.A., Kulemzina A.I., Graphodatsky A.S., Stanyon R. Evolutionary plasticity of Acipenseriform genomes. Chromosoma. 2016. T. 125. № 4. C. 661-668.
9. Montiel E.E., Badenhorst D., Lee L.S., Literman R., Valenzuela N., Trifonov V. Cytogenetic insights into the evolution of chromosomes and sex determination reveal striking homology of turtle sex chromosomes to amphibian autosomes. Cytogenetic and Genome Research. 2016. T. 148. № 4. C. 292-304.
10. Sessions S.K., Bizjak Mali L., Green D.M., Trifonov V., Ferguson-Smith M. Evidence for sex chromosome turnover in proteid salamanders. Cytogenetic and Genome Research. 2016. T. 148. № 4. C. 305-313.
11. Gladkikh O.L., Romanenko S.A., Lemskaya N.A., Serdyukova N.A., Perelman P.L., Trifonov V.A., Graphodatsky A.S., O'Brien P.C.M., Ferguson-Smith M.A., Kovalskaya J.M., Smorkatcheva A.V., Golenishchev F.N., Yang F. Rapid karyotype evolution in *lasiopodomys* involved at least two autosome-sex chromosome translocations. PLoS ONE. 2016. T. 11. № 12. C. e0167653.

	<p>12. Kichigin IG, Giovannotti M, Makunin AI, Ng BL, Kabilov MR, Tupikin AE, Caputo Barucchi V, Splendiani A, Ruggeri P, Rens W, O'Brien PCM, Ferguson-Smith MA, Graphodatsky AS, <u>Trifonov VA</u>. Evolutionary dynamics of Anolis sex chromosomes revealed by sequencing of flow sorting derived microchromosome-specific DNA 2016 Mol Genet Genomics DOI 10.1007/s00438-016-1230-z</p> <p>13. Komissarov A, Vij S, Yurchenko A, <u>Trifonov V</u>, Thevasagayam N, Saju J, Sridatta PSR, Purushothaman K, Graphodatsky A, Orbán L, Kuznetsova I. B Chromosomes of the Asian Seabass (<i>Lates calcarifer</i>) Contribute to Genome Variations at the Level of Individuals and Populations. Genes 2018, 9(10), 464; <a href="https://doi.org/10.3390/genes9100464">https://doi.org/10.3390/genes9100464</a></p> <p>14. Lind, A.L., Lai, Y.Y.Y., Mostovoy, Y., Holloway, A.K., Iannucci, A., Mak, A.C.Y., Fondi, M., Orlandini, V., Eckalbar, W.L., Milan, M., Rovatsos M, Kichigin IG, Makunin AI, Johnson Pokorná M, Altmanová M, <u>Trifonov VA</u>, Schijlen E, Kratochvíl L, Fani R, Velenský P, Rehák I, Patarnello T, Jessop TS, Hicks JW, Ryder OA, Mendelson JR, Ciofi C, Kwok P, Pollard KS, Bruneau BG (2019). Genome of the Komodo dragon reveals adaptations in the cardiovascular and chemosensory systems of monitor lizards. Nat. Ecol. Evol. 3, 1241–1252.</p>
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