Romanov Dmitrii

Curriculum vitæ

Personal Data

Date of Birth	8 January 1986
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Education

2003–2007	Undergraduate degree program of faculty of applied mathematics and computer science, SFEDU, Russia, Rostov-on-Don.
2007–2009	Masters degree program of faculty of applied mathematics and computer science, SFEDU, Russia, Rostov-on-Don.
2009–2010	Postgraduate degree program of faculty of applied mathematics and computer science, SFEDU, Russia, Rostov-on-Don.
2010–2012	Postgraduate degree program of A. B. Kogan Research Institute for Neurocybernetics, SFEDU, Russia, Rostov-on-Don.
2012–2014	Masters degree program of faculty of biology, SFEDU, Russia, Rostov-on-Don, Diploma with distinction.
since 2014	Postgraduate degree program of faculty of biology, SFEDU, Russia, Rostov-on-Don.

Bachelor's degree in applied mathematics and computer science

Thesis	Library of classes for Mineral-like 3D objects
Scientific advisor	assoc. prof., PhD. Rusanova Ya. M. (SFEDU)

Master's degree in applied mathematics and computer science

Thesis	Comparative analysis of the methods to control ecological-economical systems
Scientific advisor	prof., DSc. Ugolnitskii G. A. (SFEDU)

Master's degree in biology

Thesis	Annotation of noncoding DNA around the genes of the somatotropic axis in various species

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Scientific advisor	prof., DSc. Shkurat T. P. (SFEDU)

Job experience

2012–2014	Researcher, A. B. Kogan Research Institute for Neurocybernetics, SFEDU, Russia, Rostov-on-Don.
since 2014	Researcher, Academy of biology and biotechnology, SFEDU, Russia, Rostov-on-Don.

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Languages

English	fluent
Russian	native

Computer skills

OS	UNIX, GNU/Linux, Windows, DOS
Programming	Java, C/C++, bash, SQL, Perl, PHP, Delphi, Pascal, Assembler, Python, JavaScript
Mathematics	R, MATLAB, Maple, GNU/Octave, Mathematica
Bioinformatics	BioConductor, BioLinux, BioPython, BioJava
Markup languages	LaTeX, bibTeX, TkiZ, PGF, HTML, XML

Conference participation

2015 The Third International Conference «Plant genetics, genomics, bioinformatics and biotechnology» PlantGen2015, Russia, Novosibirsk, June 17–21, 2015 (Certificate of participation).

2015 International Young Scientists School «Molecular and Cellular Bases of Host-Microbes Interactions: Immunogenomics», Armenia, Erevan, 25–29 of May, 2015 (Certificate of participation).

2014 The Third International Scientific and Practical Conference «Postgenomic methods of analysis in biology and laboratory and clinical medicine» and associated scientific school «Agent-based modeling» Russia, Kazan, 29 of October – 1 November, year 2014 (Certificate of participation, advanced training certificate).

2014 International scientific conference «The problem of the origin of life» and associated scientific school «Molecular and cellular basis of early evolution», Russia, Moscow, 22–26 of September, year 2014 (Certificate of participation).

2014 The VI Congress of Vavilov Society of Genetists and Breeders Russia, Rostov-on-Don, 15–20 of June, year 2014 (Certificate of participation).

2013 The V International scientific conference «Actual problems of biology, nanotechnologies and medicine», Russia, Rostov-on-Don, 3–5 of October, year 2013 (Certificate of participation, level 3 diploma in young scientists contest, section «Bioinformatics»).

Scientific courses

2015 7th International Young Scientists School «Systems Biology and Bioinformatics» SBB-2015 Russia, Novosibirsk, Akademgorodok, June 22-25, 2015 (Certificate of participation).

2015 Bioinformatical hackaton «GENEHACK», MIPT, Russia, Moscow, Dolgoprudnii, 10–12 of April, year 2015.

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2014   Scientific course «Next Generation Sequence» by «InterLabService», Academy of Biology and Biotechnology, Russia, Rostov-on-Don, 25–27 of November, year 2014 (Certificate of participation).

2014   Study course «Modern techniques of genomics and cellular technologies», Center «High technologies» SFEDU, Russia, Rostov-on-Don, 25–27 of November, year 2014 (Certificate of participation).

2014   Online course «Programming in Python», Institute of bioinformatics, Russia, St. Petersburg, 10 of November – 8 of December, year 2014 (Certificate with distinction).

2014   Online course «Introduction to Linux», Institute of bioinformatics, Russia, St. Petersburg, 10 of November – 8 of December, year 2014 (Certificate with distinction).

2014   Online course «Molecular biology and genetics», Institute of bioinformatics, Russia, St. Petersburg, 10 of November – 8 of December, year 2014 (Certificate with distinction).

2014   VI Summer school «High performance computing and its application to the problems of modern biology and medicine», MIPT–Innopolis university, Russia, Kazan, 21–30 of August, year 2014 (Certificate of participation, advanced training certificate).

2014   Master class «Introduction to bioinformatical data processing with the help of BioPython», Russia, Rostov-on-Don, 1–6 of May, year 2014 (Certificate of participation).

2014   The 16 Winter scientific youth school «Plant cell biology», Russia, Moscow, Zvenigorod, 1–6 of February, year 2014 (Certificate of participation).

2012   All-Russian scientific youth school «Effective work on a thesis», Russia, Rostov-on-Don, 1–2 of June, year 2012.

2011   Course BioN «Background techniques for neurophysics: dynamical system theory, statistical physics, wavelet analysis», Ioffe Institute, SPbU Russia, St. Petersburg, 14–17 of September, year 2011 (Certificate of participation).

Publications

[1] Analysis of noncoding genomic regions in tumor suppressor genes surroundings / E. V. Butenko, D. E. Romanov, E. A. Pshenichnyij, E. V. Mashkina // Proceedings of the VII Congress of Society of Medical Geneticists. — Vol. 2. — St. Petersburg, 2015. — 5. — P. 32.

[2] Bioinformatics analysis of genomic markers for diagnostic test for atherosclerosis / E. G. Derevyanchuk, D. E. Romanov, E. V. Butenko et al. // Proceedings of the VII Congress of Society of Medical Geneticists. — Vol. 2. — St. Petersburg, 2015. — 5. — P. 53.

[3] Bioinformatics analysis of mature mi-RNA motifs distribution in tumor suppressor genes surroundings / E. V. Butenko, D. E. Romanov,

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E. A. Pshenichnyij, T. P. Shkurat // European journal of human genetics. — 2015. — 6. — Vol. 23, no. 1. — P. 237.

[4] Bioinformatics analysis of mi-RNA motifs distribution in cytokine genes and their surroundings / E. P. Omelchuk, D. E. Romanov, E. A. Pshenichnyij, T. P. Shkurat // European journal of human genetics. — 2015. — 6. — Vol. 23, no. 1. — P. 463.

[5] Romanov D. MSCANNER — a genome-wide motif finding tool // Abstracts of the 7th International Young Scientists School «Systems Biology and Bioinformatics» SBB-2015 / Ed. by A. Kharkevich ; Institute of Cytology and Genetics SB RAS. — Russia, Novosibirsk : FUE «Publishing House SB RAS», 2015. — 6. — P. 40.

[6] Prevalence of miRNAs in Introns and Cis-Regulatory Regions of Genes of the Somatotropic Axis in Mammals / D. Romanov, T. Shkurat, E. Pshenichnyy et al. // American Journal of Applied Sciences. — 2015. — Vol. 12. — P. 1–7. — URL: http://thescipub.com/pdf/10.3844/ajassp.2015.1.7.

[7] Localization of hsa-mir-5096 and hsa-mir-1268 around the Somatotropin Axis in Mammals / A. E. Panich, D. E. Romanov, N. S. Ponomareva et al. // Inproceedings of the EMBO Conference «From Functional Genomics to Systems Biology». — Heidelberg, Germany, 2014. — 11.

[8] Annotation of noncoding DNA / D. Romanov, T. Shkurat, E. Pshenichnyy et al. // Proceedings of the VI Congress of Vavilov Society of Geneticists and Breeders / Ed. by A. Kharkevich ; Novosibirsk. — FUE «Publishing House SB RAS», 2014. — 6. — P. 59.

[9] Bioinformatical approaches to the study of structure and functions of the regulatory regions of genes / D. Romanov, T. Shkurat, N. Ponomareva et al. // Proceedings if the VI Congress of Vavilov Society of Geneticists and Breeders / Ed. by A. Kharkevich ; Novosibirsk. — FUE «Publishing House SB RAS», 2014. — 6. — P. 59.

[10] Localization of mammalian miRNAs in cis-regulatory regions and introns of genes of the somatotropic axis / D. Romanov, A. Alexsandrova, G. Bakhtadze et al. // Proceedings of the VI Congress of Vavilov Society of Geneticists and Breeders / Ed. by A. Kharkevich ; Novosibirsk. — FUE «Publishing House SB RAS», 2014. — 6. — P. 42.

[11] Romanov D. A technique of ordering of the gene expression profiles of K-12 E. coli strain and mapping them to the cell cycle // Proceedings of the V International scientific conference «Actual problems of biology, nanotechnologies and medicine» / Ed. by Yu. Pekhtereva ; Research institute of biology SFEDU. — Publishing House SFEDU, 2013. — 10. — P. 40–41.

[12] Dot-plot analysis of genomic sequences / D. Romanov, A. Butenko, Yu. Denisenko et al. // Proceedings of the V International scientific conference «Actual problems of biology, nanotechnologies and medicine» / Ed. by Yu. Pekhtereva ; Research institute of biology SFEDU. — Publishing House SFEDU, 2013. — 10. — P. 38–39.

[13] Searching for correspondence between some quantitative features of the mammals and characteristics of noncoding DNA / D. Romanov, A. Butenko, M. Adigeev et al. // Proceedings of the V International scientific conference «Actual problems of biology, nanotechnologies and medicine» / Ed. by Yu. Pekhtereva ; Research institute of biology SFEDU. — Publishing House SFEDU, 2013. — 10. — P. 23–24.

[14] Romanov D. Approaches to the construction of the model of cytodifferentiation // Proceedings of all-Russian scientific youth school «Effective work on a thesis» / A. B. Kogan Research Institute for Neurocybernetics. — Publishing House SFEDU, 2012. — 6. — P. 176–178.

[15] Romanov D. Back-propagation neural networks // Engineering journal of Don. — 2009. — 11. — no. 3. — URL: http://ivdon.ru.

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