

**Сведения о научном руководителе (консультанте)  
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«Системный транспорт РНК с выраженной вторичной структурой в растениях»**

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Список основных научных публикаций по специальности 03.01.03 - «молекулярная биология» за последние 5 лет:

1. Lazareva EA, Lezhov AA, Chergintsev DA, Golyshev SA, Dolja VV, Morozov SY, Heinlein M, Solovyev AG. (2021) Reticulon-like properties of a plant virus-encoded movement protein, *New Phytologist*, 229, 1052-1066, doi: 10.1111/nph.16905.
2. Lezhov, A. A., Morozov, S. Y., Solovyev, A. G. (2021) Phloem exit as a possible control point in selective systemic transport of RNA, *Front. Plant Sci.*, 12, 2685, doi: 10.3389/fpls.2021.739369.
3. Lazareva EA, Lezhov AA, Dolja VV, Morozov SY, Heinlein M, Solovyev AG. (2021) Constriction of endoplasmic reticulum tubules by the viral movement protein BMB2 is associated with local BMB2 anchorage at constriction sites, *Plant Signaling and Behavior*, 16, 1856547, doi: 10.1080/15592324.2020.1856547.
4. Morozov SY, Lazareva EA, Solovyev AG. (2020) Sequence relationships of RNA helicases and other proteins encoded by Blunervirus RNAs highlight recombinant evolutionary origin of kitaviral genomes, *Frontiers in Microbiology*, 11, 561092, doi: 10.3389/fmicb.2020.561092.
5. Tolstyko EA, Lezhov AA, Morozov SY, Solovyev AG. (2020) Phloem transport of structured RNAs: A widening repertoire of trafficking signals and protein factors, *Plant Science*, 299, 110602, doi: 10.1016/j.plantsci.2020.110602.
6. Pankratenko AV, Atabekova AK, Morozov SY, Solovyev AG. (2020) Membrane contacts in plasmodesmata: Structural components and their functions, *Biochemistry (Moscow)*, 85, 531-544, doi: 10.1134/S0006297920050028.
7. Tolstyko EA, Lezhov AA, Pankratenko AV, Serebryakova MV, Solovyev AG, Morozov SY. (2020) Detection and in vitro studies of Cucurbita maxima phloem serpin-1 RNA-binding properties, *Biochimie*, 170, 118-127, doi: 10.1016/j.biochi.2020.01.006.

8. Morozov SY, Solovyev AG. (2020) Small hydrophobic viral proteins involved in intercellular movement of diverse plant virus genomes, *AIMS Microbiology*, 6, 305-329, doi: 10.3934/microbiol.2020019.
9. Morozov SY, Solovyev AG, Kalinina NO, Taliantsky ME. (2019) Double-stranded RNAs in plant protection against pathogenic organisms and viruses in agriculture. *Acta Naturae*, 11, 13-21, doi: 10.32607/20758251-2019-11-4-13-21.
10. Tolstyko E, Lezhov A, Solovyev A. (2019) Identification of miRNA precursors in the phloem of *Cucurbita maxima*, *PeerJ* 7, e8269, doi: 10.7717/peerj.8269.
11. Kalyandurg PB, Tahmasebi A, Vetukuri RR, Kushwaha SK, Lezhov AA, Solovyev AG, Grenville-Briggs LJ, Savenkov EI. (2019) Efficient RNA silencing suppression activity of Potato Mop-Top Virus 8K protein is driven by variability and positive selection, *Virology*, 535, 111-121, doi: 10.1016/j.virol.2019.06.018.
12. Lezhov AA, Atabekova AK, Tolstyko EA, Lazareva EA, Solovyev AG. (2019) RNA phloem transport mediated by pre-miRNA and viral tRNA-like structures, *Plant Science*, 284, 99-107, doi: 10.1016/j.plantsci.2019.04.005.
13. Morozov SY, Solovyev AG. (2019) Emergence of intronless evolutionary forms of stress response genes: possible relation to terrestrial adaptation of green plants, *Frontiers in Plant Science*, 10, 83, doi: 10.3389/fpls.2019.00083.
14. Morozov SY, Lezhov AA, Lazareva EA, Erokhina TN, Solovyev AG. (2019) Potential role of accessory domains in polyproteins encoded by retrotransposons in anti-viral defense of host cells, *Frontiers in Microbiology*, 9, 3193, doi: 10.3389/fmicb.2018.03193.
15. Makarova SS, Makhotenko AV, Khromov AV, Skurat EV, Solovyev AG, Makarov VV, Kalinina NO. (2018) Non-structural functions of hordeivirus capsid protein identified in plants infected by a chimeric tobamovirus, *Biochemistry (Moscow)*, 83, 1543-1551, doi: 10.1134/S000629791812012X.
16. Morozov SY, Milyutina, IA, Erokhina TN, Ozerova LV, Troitsky AV, Solovyev AG. (2018) TAS3 miR390-dependent loci in non-vascular land plants: towards a comprehensive reconstruction of the gene evolutionary history, *PeerJ*, 6, e4636, doi: 10.7717/peerj.4636.
17. Atabekova AK, Lazareva EA, Strelkova OS, Solovyev AG, Morozov SY. (2018) Mechanical stress-induced subcellular re-localization of N-terminally truncated tobacco Nt-4/1 protein, *Biochimie*, 144, 98-107, doi: 10.1016/j.biochi.2017.10.020.
18. Solovyev AG, Morozov SY. (2017) Non-replicative Integral membrane proteins encoded by plant alpha-like viruses: Emergence of diverse orphan ORFs and movement protein genes, *Frontiers in Plant Science*, 8, 1820, doi: 10.3389/fpls.2017.01820.
19. Lazareva EA, Lezhov AA, Golyshev SA, Morozov SY, Heinlein M, Solovyev AG. (2017) Similarities in intracellular transport of plant viral movement proteins BMB2 and TGB3, *Journal of General Virology*, 98, 2379-2391, doi: 10.1099/jgv.0.000914.
20. Morozov SY, Lazareva EA, Solovyev AG. (2017) RNA helicase domains of viral origin in proteins of insect retrotransposons: possible source for evolutionary advantages, *PeerJ*, 5, e3673, doi: 10.7717/peerj.3673.

21. Erokhina TN, Lazareva EA, Richert-Pöggeler KR, Sheval EV, Solovyev AG, Morozov SY. (2017) Subcellular localization and detection of tobacco mosaic virus ORF6 protein by immunoelectron microscopy, *Biochemistry (Moscow)*, 82, 60-66, doi: 10.1134/S0006297917010060.
22. Pankratenko AV, Atabekova AK, Lazareva EA, Baksheeva VE, Zhironkina OA, Zernii EY, Owens RA, Solovyev AG, Morozov SY. (2017) Plant-specific 4/1 polypeptide interacts with an endoplasmic reticulum protein related to human BAP31, *Planta*, 245, 193-205, doi: 10.1007/s00425-016-2601-8.
23. Atabekova AK, Pankratenko AV, Makarova SS, Lazareva EA, Owens RA, Solovyev AG, Morozov SY. (2017) Phylogenetic and functional analyses of a plant protein related to human B-cell receptor-associated proteins, *Biochimie*, 132, 28-37, doi: 10.1016/j.biochi.2016.10.009.
24. Gushchin VA, Karlin DG, Makhotenko AV, Khromov AV, Erokhina TN, Solovyev AG, Morozov SY, Agranovsky AA. (2017) A conserved region in the Closterovirus 1a polyprotein drives extensive remodeling of endoplasmic reticulum membranes and induces motile globules in *Nicotiana benthamiana* cells, *Virology*, 502, 106-113, doi: 10.1016/j.virol.2016.12.006.
25. Lazareva EA, Lezhnev AA, Komarova TV, Morozov SY, Heinlein M, Solovyev AG. (2017) A novel block of plant virus movement genes, *Molecular Plant Pathology*, 18, 611-624, doi: 10.1111/mpp.12418.

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