

Список публикаций д.б.н. Бершицкого Сергея Юрьевича,
заведующего лабораторией биологической подвижности
ФГБУН Институт иммунологии и физиологии Уральского отделения Российской академии
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1. Shchepkin D.V., Matyushenko A.M., **Bershitsky S.Y.**, Kopylova G.V. Effect of interchain disulfide crosslinking in the tropomyosin molecule on actin-myosin interaction in the atrial myocardium // Bulletin of Experimental Biology and Medicine. 2019. Vol. 167. P. 65–68.
2. **Bershitsky S.Y.**, Logvinova D.S., Shchepkin D.V., Kopylova G.V., Matyushenko A.M. Myopathic mutations in the β -chain of tropomyosin differently affect the structural and functional properties of $\beta\beta$ - and $\alpha\beta$ -dimers // The FASEB Journal. 2019. Vol. 33. P. 1963–1971.
3. Koubassova N.A., **Bershitsky S.Y.**, Tsaturyan A.K. Effects of an interchain disulfide bond on tropomyosin structure: a molecular dynamics study // International Journal of Molecular Sciences. 2018. Vol. 19, № 11. Article number 3376. doi:10.3390/ijms19113376
4. Kopylova G.V., Shchepkin D.V., **Bershitsky S.Y.** The effect of experimental hyperthyroidism on characteristics of actin–myosin interaction in fast and slow skeletal muscles // Biochemistry (Moscow). 2018. Vol. 83. P. 527–533.
5. Matyushenko A.M., Shchepkin D.V., Kopylova G.V., **Bershitsky S.Y.**, Koubassova N.A., Tsaturyan A.K., Levitsky D.I. Functional role of the core gap in the middle part of tropomyosin // The FEBS Journal. 2018. Vol. 285. P. 871–886.
6. Kopylova G., Nabiev S., Shchepkin D., **Bershitsky S.** Carbonylation of atrial myosin prolongs its interaction with actin // European Biophysics Journal. 2018. Vol. 47. P. 11–18.
7. Shchepkin D.V., Nikitina L.V., **Bershitsky S.Y.**, Kopylova G.V. The isoforms of α -actin and myosin affect the Ca^{2+} regulation of the actin-myosin interaction in the heart // Biochemical and Biophysical Research Communications. 2017. Vol. 490, № 2. P. 324–329.
8. Koubassova N.A., **Bershitsky S.Y.**, Ferenczi M.A., Narayanan T., Tsaturyan A.K. Tropomyosin movement is described by a quantitative high-resolution model of X-ray diffraction of contracting muscle // European Biophysics Journal. 2017. Vol. 46. P.335–342.
9. **Bershitsky S.Y.**, Koubassova N.A., Ferenczi M.A., Kopylova G.V., Narayanan T., Tsaturyan A.K. The closed state of the thin filament is not occupied in fully activated skeletal muscle // Biophysical Journal. 2017. Vol. 112, № 7. P. 1455–1461.
10. Kopylova G., Nabiev S., Nikitina L., Shchepkin D., **Bershitsky S.** The properties of the actin–myosin interaction in the heart muscle depend on the isoforms of myosin but not of α -actin // Biochemical and Biophysical Research Communications. 2016. Vol. 476, № 4. P. 648–653.