Сведения
о ведущей организации по диссертации Ямпольского Ильи Викторовича
«Строение и механизмы функционирования новых субстратов биолюминесценции (люциферинов) и хромофоров флуоресцентных белков»,
представленной на соискание ученой степени
доктора химических наук по специальности 02.00.10 – биоорганическая химия

Полное и сокращенное наименование ведущей организации	Почтовый адрес, телефон, адрес электронной почты, адрес официального сайта в сети Интернет	Список основных публикаций сотрудников ведущей организации по теме диссертации в рецензируемых научных изданиях за последние 5 лет (не более 15 публикаций)
Федеральное государственное учреждение «Федеральный исследовательский центр «Фундаментальные основы биотехнологии» Российской академии наук» (ФИЦ Биотехнологии РАН)	119071 Российская Федерация, г. Москва, Ленинский проспект, дом 33, строение 2 тел +7 (495) 954-52-83 Fax +7 (495) 954-27-32 info@fbras.ru http://fbras.ru	1. Goryashchenko AS, Khrenova MG, Bochkova AA, Ivashina TV, Vinokurov LM, Savitsky AP. Genetically Encoded FRET-Sensor Based on Terbium Chelate and Red Fluorescent Protein for Detection of Caspase-3 Activity. International journal of molecular sciences 16 (7), 16642-16654 (2015) 2. Sarkisyan KS, Goryashchenko AS, Lidsky PV, Gorbachev DA, Bozhanova N.G, Gorokhovatsky A.Yu, Pereverzeva A.R, Ryumina A.P, Zherdeva V.V, Savitsky A.P, Solntsev K.M, Bommarius A.S, Sharonov G.V, Lindquist J.R, Drobizhev M., Hughes T.E, Rebane A., Lukyanov K.A, Mishin A.S. Green fluorescent protein with anionic tryptophan-based chromophore and long fluorescence lifetime. Biophysical journal 109 (2), 380-389 (2015) 3. Meerovich IG, Kazachkina NI, Savitsky AP. Investigation of the effect of photosensitizer Tiosense on the tumor model mel Kor-TurboRFP expressed red fluorescent protein Russian Journal of General Chemistry 85 (1), 274-279 (2015) 4. Lapshin G, Salih A, Kolosov P, Golovkina M,

		Zavorotnyi Y, Ivashina T, Vinokurov L., Bagratashvili V., Savitsky A. Fluorescence color diversity of great barrier reef corals Journal of Innovative Optical Health Sciences, 1550028 (2015) 5. Khrenova MG, Savitsky AP, Topol IA, Nemukhin AV. Exploration of the Zinc Finger Motif in Controlling Activity of Matrix Metalloproteinases. The Journal of Physical Chemistry B 118 (47), 13505-13512 (2014) 6. MG Khrenova, AV Nemukhin, AP Savitsky. Computational characterization of Ketone-Ketal transformations at the active site of matrix metalloproteinase. The Journal of Physical Chemistry B, 2014, V.118 (16), P.4345-4350 7. A Nemukhin, B Grigorenko, A Savitsky. Quantum based simulation s of structure and spectra of photoreceptor proteins. FEBS JOURNAL, 2013, V.280, P.592-592 8. Grigorenko B.L., Polyakov I.V., Savitsky A.P., Nemukhin A.V. Unusual Emitting States of the Kindling Fluorescent Protein: Appearance of the Cationic Chromophore in the GFP Family Journal Of Physical Chemistry B, 2013, V.117, P.7228-7234 9. Mironov V.A., Khrenova M.G., Grigorenko B.L., Savitsky A.P., Nemukhin A.V. Thermal Isomerization of the Chromoprotein asFP595 and Its Kindling Mutant A143G: QM/MM Molecular Dynamics Simulations. The Journal of Physical Chemistry B, 2013, V.117, P.13507-13514 10. Zherdeva V.V., Savitsky A.P. Using Lanthanide-Based Resonance Energy Transfer for in vitro and in vivo Studies of Biological Processes. Biochemistry (Moscow), 2012, Vol. 77, No. 13, pp. 1553-1574

11. Loginova Y.F., Kazachkina N.I., Zherdeva V.V., Rusanov A.L., Shirmanova M.V., Zagaynova E.V., Sergeeva E.A., Dezhurov S.V., Wakstein M.S., Savitsky A.P. Biodistribution of intact fluorescent CdSe/CdS/ZnS quantum dots coated by mercaptopropionic acid after intravenous injection into mice. J. Biophotonics, 2012, vol. 11-12, p. 848-859.
12. Loginova Y.F., Dezhurov S.V., Zherdeva V.V., Kazachkina N.I., Wakstein M.S., Savitsky A.P. Biodistribution and stability of CdSe core quantum dots in mouse digestive tract following per os administration: Advantages of double polymer/silica coated nanocrystals. Biochem. Biophys. Res. Comm., 2012, vol. 419 (1), p. 54–59
13. A.P. Savitsky , I.G. Meerovich , V.V. Zherdeva ,L.R. Arslanbaeva , O.S. Burova , D.V. Sokolova, E.M. Treshchalina , A.Yu Baryshnikov , I.I. Fiks , A.G. Orlova , M.S. Kleshnin , I.V. Turchin , A.M. Sergeev. Chapter 7. Three-Dimensional In Vivo Imaging of Tumors Expressing Red Fluorescent Proteins. In: Robert M. Hoffman (ed.), In: In Vivo Cellular Imaging Using Fluorescent Proteins: Methods and Protocols, Methods in Molecular Biology, 2012, vol. 872, pp. 97-114
14. I. Topol, J. Collins, V. Mironov, A. Savitsky, A. Nemukhin, Modeling absorption of the kindling fluorescent protein with the neutral form of the chromophore. International Journal of Quantum Chemistry, 2012, 112, 2947-2951.
15. Alexander P. Savitsky, Alexander L. Rusanov, Victoria V. Zherdeva, Tatiana V. Gorodnicheva, Maria G. Khrenova and Alexander V. Nemukhin. FLIM-FRET Imaging of Caspase-3 Activity in Live Cells Using Pair of Red Fluorescent Proteins.

		Theranostics, 2012; Vol.2(2), pp.215-226

Ученый секретарь
ФИЦ «Биотехнологии» РАН, к.б.н.
Печать

Орловский А.Ф.