	SHITVAVOV Sargay V
	SHITYAKOV, Sergey V.
	MD, PhD, DSc (Dr. med. habil.) Full Professor (Ordinarius)
Research interests	Neuroscience, precision medicine, bioinformatics, biomedical
	engineering, and rational drug design at the blood-brain barrier using modern computer modelling methods of chemical interactions
Features of the PhD program	Research results are highly probable to be published in high-
	impact-factor and peer-reviewed journals, including Nature, Cerebral Cortex, Blood, ACS, and RSC journals.
List of the supervisor's research	Gazpromneft-Lubricating grant No. A220003100, QSAR
projects	modeling for prediction of lubricating oil characteristics,
(participation/supervision)	06/2023–08/2023 (participation)
List of potential thesis topics	✓ Development of virtual screening methods
	✓ Creation of virtual libraries
	Search for quantitative structure-property relationships
	(QSAR) of chemical compounds
Publications in the last five years	✓ Experimental verification of QSAR models
rubilications in the last five years	46 (Scopus / Web of Science / RSCI)
Key publications	1. Shityakov S., Skorb E., Nosonovsky M. Folding-unfolding
	asymmetry and a RetroFold computational algorithm//Royal
	Society Open Science, 2023, Vol. 10, No. 5, pp. 221594
	2. Kovalenko A.A., Porozov Y.B., Skorb E.V., Shityakov S.
	Using novel click chemistry algorithm to design D3R inhibitors
	as blood-brain barrier permeants//Future Medicinal Chemistry,
	2023, Vol. 15, No. 11, pp. 923-935
	3. Muravev A.A., Voloshina A.D., Sapunova A.S., Gabdrakhmanova F.B., Lenina O.A., Petrov K.A., Shityakov S., Skorb E.V., Solovieva S.E., Antipin I.S. Calix[4]arene—pyrazole conjugates as potential cancer therapeutics//Bioorganic Chemistry, 2023, Vol. 139, pp. 106742
	4. Dutta K., Shityakov S., Maruyama F. DSF inactivator RpfB homologous FadD upregulated in Bradyrhizobium japonicum under iron limiting conditions//Scientific Reports, 2023, Vol. 13, No. 1, pp. 8701

	5. Iwaloye O., Ottu P.O., Olawale F., Babalola O.O., Elekofehinti O.O., Kikiowo B., Adegboyega A.E., Ogbonna H.N., Adeboboye C.F., Folorunso I., Fakayode A.E., Akinjiyan M.O., Onikanni S.A., Shityakov S. Computer-aided drug design in anti-cancer drug discovery: What have we learnt and what is the way forward?//Informatics in Medicine Unlocked, 2023, Vol. 41, pp. 101332
Supervisor's specific	✓ Confident knowledge of programming languages
requirements	✓ Work experience with visualization software for complex
	(bio)molecules
Code of the subject area of the	1.4.5 Chemoinformatics
PhD program	1.4.4 Physical Chemistry