

**Sultanova Kira Timurovna**  
**PhD student of Department Pharmacology and Bioinformatics**  
**(Volgograd State Medical Institute, Volgograd, Russia)**

**1. CURRICULUM VITAE**

**NAME:** Sultanova Kira Timurovna

**BORN:** July, 1993, Tomsk, Russian Federation

**CITIZENSHIP / NATIONALITY:** Russian Federation / Russian

**PLACE OF WORK:**

STATE-FUNDED EDUCATIONAL ESTABLISHMENT OF HIGER PROFESSIONAL EDUCATION UNDER THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION, VOLGOGRAD STATE MEDICAL UNIVERSITY, 1, PAVSHIKH BORTSOV SQ., VOLGOGRAD, 400131, RUSSIA

**CURRENT POSITIONS:**

PhD student of pharmacology department (Volgograd State Medical Institute, Volgograd, Russia)



**WEB LINKS:**

Russian Science Citation Index Author ID: 999994

E-MAIL: sultanova.pharma@gmail.com

**Home address:**

19-118, Parkhomenko St., Volgograd, 400087, Russia

**Tel:** +79377181040

**Education**

**Address and Current Name of The University**

2011-2017	Volgograd State Medical University, faculty of medical biochemistry, doctor-biochemist	Volgograd State Medical Institute 1, PAVSHIKH BORTSOV SQ., VOLGOGRAD, 400131, RUSSIAN FEDERATION
2017-2020	Postgraduate Study (PhD)	Volgograd State Medical Institute 1, PAVSHIKH BORTSOV SQ., VOLGOGRAD, 400131, RUSSIAN FEDERATION

**Research interests**

**Receptorology**

A targeted search for 5-HT<sub>2A</sub> agonist / antagonist compounds among new 2-substituted benzimidazoles for the presence / blockade of 5-HT<sub>2A</sub>-dependent  $\beta$ -arrestin-mediated intracellular response on transfected cells using the method of accelerated cell screening (TR-FRET). Study of the receptor activity of compounds using in vitro methods on isolated organs.

**Migraine**

Study of the role of serotonergic neurotransmission in the development of dyscirculatory states of cerebral vessels.

**Experimental pharmacology**

Studying the interaction of compounds with agonists / antagonists of the main neurotransmitter systems in vivo models (studies of the serotonergic, GABA-ergic, dopaminergic activity of compounds in using the methods of pharmacological analysis). Study of specific pharmacological action (effect on cerebrovascular blood flow, analgesic, anxiolytic effect) of compound in vivo models. The study of the effect of compounds on the rheological properties of blood by in vitro methods. Study of acute toxicity and neurotoxicological properties of compounds.

## RESEARCH PROJECTS (COMPLETED AND ON-GOING) OVER THE PERIOD OF THE LAST 5 YEARS

TITLE	SOURCE	TOTAL FUNDS	ROLE (PRINCIPLE/CO-RESEARCHER)	YEARS, DURATION
<b>RUSSIAN FEDERATION</b>				
1. Preclinical studies of an anti-migraine drug that improves cerebral blood flow with a 5-HT <sub>2</sub> antagonistic effect, a derivative of 2-methoxyphenylimidazobenzimidazole	Government Contract of the Russian Federation	44 000 000.00 Russian Roubles	CO-RESEARCHER	2017 – on going
2. Preclinical studies of an antithrombotic drug with a combined mechanism of action-the P2Y <sub>12</sub> receptor antagonist and the thromboxane A <sub>2</sub> synthesis inhibitor, based on the 9-dihydrophenacyldihydroimidazobenzimidazole derivative	Government Contract of the Russian Federation	44 000 000.00 Russian Roubles	CO-RESEARCHER	2017 – on going

## LIST OF PUBLICATIONS

### FULL-TEXT ARTICLES IN REVIEWED JOURNALS (MEDLINE, SCOPUS, ISI WEB OF KNOWLEDGE)

- Sultanova K.T.**, Yakovlev D.S., Maltsev D.V., Miroshnikov M.V., Morkovina Ya.V., Anisimova V.A., Morkovnik A.S. ANXIOLYTICAL PROPERTIES OF COMPOUND RU-31// Journal of Volgograd State Medical University – 2018. – №. 3 (67).
- Spasov, A. A., Yakovlev, D. S., Maltsev, D. V., Miroshnikov, M. V., **Sultanova, K.T.**, Zhukovskaya, O. N., Anisimova V. A., Nechaeva, K.A. (2019). NEUROTOXICOLOGICAL PROFILE OF 5-HT<sub>2A</sub>-ANTAGONIST OF IMODIAZOBIDIMODAZOL DERIVATIVE. Toxicological review, 154 (1).
- Zhukovskaya, O. N., Alexander, A., Yakovlev, D. S., Kosolapov, V. A., Maltsev, D. V., Morkovnik A.S., Babkova V. A., Brigadirova A. A., Agatsarskaya Ya. V., Taran A.S., Miroshnikov, M.V., **Sultanova K.T.**, Kornilov V.I., Anisimova V.A. (2019). Synthesis and pharmacological activity of C (2) -substituted benzimidazole derivatives. Chemical Pharmaceutical Journal, 53 (3), 10-15.
- Agatsarskaya, Ya. V., Yakovlev, D.S., Maltsev, D.S., Semenova, Yu.V., Salikhov, D.A., **Sultanova, K.T.**, Anisimova, V.A. (2019). NEURORECEPTOR EFFECTS OF ANTI-GRINDING AGENT 9-DIETHYLAMINOETHYL-2- (4-METHOXYPHENYL) IMIDAZO [1, 2-A] BENZIMIDAZOL. Bulletin of Volgograd State Medical University, (1 (69)).

### INTERNATIONAL, NATIONAL AND REGIONAL SYMPOSIUM PARTICIPANT (OVER THE PERIOD OF THE LAST 5 YEARS)

- Maltseva A.Yu., **Sultanova K.T.** STUDY OF THE HEMORHEOLOGICAL ACTIVITY OF DERIVATIVE DIETHYLAMINOETHYLIMIDAZOBENZIMIDAZOLES In the collection: Actual problems of experimental and clinical medicine. Materials of the 74th open scientific-practical conference of young scientists and students of Volgograd State Medical University with international participation. Edited by V.I. Petrova. 2016. pp. 291-292.
- Sultanova K.T.**, Miroshnikov M.V., Zolotova E.A. Neurotoxicological profile of the new 5-HT<sub>2A</sub>-ANTAGONIST - COMPOUND 1A AND CYPROHEPTADINE In the collection: XXII Regional Conference of Young Researchers of the Volgograd Region. Reports materials. 2017. pp. 51-53.
- Sultanova K.T.**, Gaidukova K.A., Naumenko L.V. THE EFFECT OF NEW ANTIGLIC CONNECTIONS ON THE DEFORMABILITY OF ERYTHROCYTES In the book: Microcirculation and hemorheology XI International Scientific Conference. Dedicated to the 100th anniversary of the birth of Academician A.M. Chernukha. Yaroslavl State Pedagogical University. KD Ushinsky, Moscow State University. Mv

- Lomonosov Faculty of Fundamental Medicine, Yaroslavl State Medical University, International Society for Clinical Hemorheology (ISCH). 2017. p. 45.
4. **Sultanova K.T.**, Avdienko K.A., Osadchaya O.A. EFFECT OF NEW HETEROCYCLIC HYDRAZONES WITH ANTIGLIC ACTIVITY ON ERYTHROCYTES DEFORMATION In the collection: Actual problems of experimental and clinical medicine. Materials of the 75th open scientific-practical conference of young scientists and students of Volgamsk State Medical University with international participation. 2017. p. 452.
  5. Yakovlev D.S., Maltsev D.V., Morkovina Ya.V., **Sultanova K.T.**, Miroshnikov M.V., Brigadirova A.A. TARGET-ORIENTED APPROACH TO THE DEVELOPMENT OF MEDICINES FOR THE TREATMENT OF MIGRAINE Experimental and clinical pharmacology. 2018. T. 81. No. S. p. 278.
  6. **Sultanova K.T.**, Brigadirova A.A., Morkovina Ya.V., Maltsev D.V., Yakovlev D.S., Semenova Yu.V. EFFECT OF NEW 5-HT<sub>2A</sub>-ANTAGONIST ON THE BLOOD DRAIN IN THE REGION OF THE MEDIUM BRAIN ARTERY IN THE CONDITIONS OF ISCHEMIA Experimental and clinical pharmacology. 2018. T. 81. No. S. p. 235.
  7. **Sultanova K.T.**, Nechaeva K.A., Ivanova Y.A. EFFECT OF KETANSERIN AND CYPROHEPTADINE ON BLOOD VISCOSITY IN VITRO In the collection: Actual problems of experimental and clinical medicine materials of the 76th international scientific-practical conference of young scientists and students. Volgograd, 2018. p. 382.
  8. **Sultanova K.T.**, Ivanova Y.A., Nechaeva K.A. QUALITY CONTROL OF THE SUBSTANCE RU-31 SUBSTANCES AT THE LEVEL OF PHARMACOLOGICAL ACTIVITY In the collection: Actual problems of experimental and clinical medicine materials of the 76th international scientific-practical conference of young scientists and students. Volgograd, 2018. p. 381.
  9. **Sultanova K.T.** EFFECT OF THE NEW 5-HT<sub>2A</sub>-ANTAGONIST ON THE RHEOLOGICAL PROPERTIES OF THE BLOOD IN THE CONDITIONS OF HYPERTHERMIA In the collection: Actual problems of experimental and clinical medicine materials of the 76th international scientific-practical conference of young scientists and students. Volgograd, 2018. p. 380-381.
  10. Yakovlev D.S., Spasov, A. A., Agatsarskaya Ya. V., **Sultanova K.T.**, Kornilov V.I., Morkovnik A.S., Zhukovskaya, O. N., Anisimova V.A. Blockade of 5-HT<sub>2A</sub> receptors AS a strategy for the development of new antimigraine drugs

#### Awards

1. Third place, VII International Scientific and Practical Conference " Belikovskiye chteniya", December, 2018
2. First place, LXXX scientific-practical conference with international participation, Saint-Petersburg, April, 2019

#### English language a level – B1