



## International Seminar

### “Antimicrobial peptides as prototypes of novel antibiotics”

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### Preliminary Program

11:00-11:10	<b>Alexander Dmitriev (Saint Petersburg, Russia)</b> <b>Welcome Speech</b>
11:10-11:30	<b><i>Olga Shamova, Maria Zharkova, Maria Sukhareva, Elizaveta Vladimirova, Alexey Komlev, Eugeny Protasov, Maria Khaydukova, Tatyana Filatenkova, Nikolay Klimov, Dmitriy Orlov</i></b> <i>Institute of Experimental Medicine, WCRC for Personalized Medicine, St. Petersburg, Russia</i> “Prospects of practical application of synthetic analogous of animals’ antimicrobial peptides as novel anti-infective tools against drug-resistant bacteria”
11:30-11:50	<b><i>Zuhara Azizova, Ruzimurodov N.F., Aripova T.U., Musakhodzhaeva D.A.</i></b> <i>Institute of Immunology and Human Genomics of the Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan</i> “Clinical and immunological characteristics of COVID-19 patients depending on the severity of the disease”
11:50-12:10	<b><i>Igor Eliseev<sup>1,2</sup></i></b> <i><sup>1</sup>Institute of Experimental Medicine, WCRC for Personalized Medicine, St. Petersburg, Russia;</i> <i><sup>2</sup>Alferov Academic University</i> “Using non-canonical immune effector molecules to create new therapeutics: single-domain antibodies and AMPs”
12:10-12:30	<b><i>Tamarkhon Aripova, Prof. Adolat Ismailova</i></b> <i>Institute of Immunology and Human Genomics of the Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan</i> “A variety of clinical masks of innate errors of immunity in Uzbekistan”
12:30-12:50	<b><i>Natalya Linkova<sup>1</sup>, Elisaveta Vladimirova<sup>2</sup>, Maria Sukhareva<sup>2</sup>, Vladimir Khavinson<sup>1,3</sup></i></b> <i><sup>1</sup>St. Petersburg Institute of Bioregulation and Gerontology, St. Petersburg, Russia</i>

	<p><sup>2</sup><i>Institute of Experimental Medicine, St. Petersburg, Russia</i>  <sup>3</sup><i>Pavlov Institute of Physiology, Russian Academy of Sciences, St. Petersburg, Russia</i>  “Thymalin peptide drug: perspectives of application in COVID-19”</p>
12:50-13:10	<p><b><u>Bakhtiyar Khadamov</u></b>  <i>Bukhara State Medical Institute named after Ibn Sino, Bukhara, Uzbekistan</i>  “Immunopathogenetic aspects of predicting the outcomes of surgical treatment of wound infection in diabetic foot syndrome”</p>
13:10-13:30	<p><b><u>Maria Zharkova, Maria Sukhareva, Elizaveta Vladimirova, Alexey Komlev, Dmitriy Orlov, Olga Shamova</u></b>  <i>Institute of Experimental Medicine, WCRC for Personalized Medicine, St. Petersburg, Russia</i>  “Examination of effects of the combined action of AMPs and conventional antiseptics towards bacterial biofilms”</p>
13:30-13:50	<p><b><u>Shakar Navruzova<sup>1</sup>, Shuhrat Rajabov<sup>2</sup></u></b>  <sup>1</sup><i>Bukhara State Medical Institute, Uzbekistan</i>  <sup>2</sup><i>Vobkent district medical association of the Bukhara region of the Republic of Uzbekistan, Vobkent, Uzbekistan</i>  “Recurrence of respiratory infections in a coronavirus pandemic”</p>
<b>COFFEE BREAK</b>	
14:00-14:15	<p><b><u>Mikhail Berlov<sup>1</sup>, Nikita Oborin<sup>1,2</sup>, Ilya Krenev<sup>1</sup>, Zabrodskaia Yana<sup>1,3,4</sup></u></b>  <sup>1</sup><i>Institute of Experimental Medicine, St. Petersburg, Russia</i>  <sup>2</sup><i>St. Petersburg State University, St. Petersburg, Russia</i>  <sup>3</sup><i>Smorodintsev Research Institute of Influenza, St. Petersburg, Russia</i>  <sup>4</sup><i>Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia</i>  “Antimicrobial peptides from blood serum”</p>
14:15-14:30	<p><b><u>Ilya Krenev<sup>1</sup>, Mikhail Berlov<sup>1</sup>, Ekaterina Umnyakova<sup>2</sup>, Nikolay Gorbunov<sup>1</sup>, Valeria Kostevich<sup>1</sup>, Pavel Panteleev<sup>3</sup>, Alexey Komlev<sup>1</sup>, Tatyana Ovchinnikova<sup>3</sup>, Andrey Yakovlev<sup>4</sup>, Olga Shamova<sup>1</sup>, Galina Aleshina<sup>1</sup></u></b>  <sup>1</sup><i>Institute of Experimental Medicine, St. Petersburg, Russia</i>  <sup>2</sup><i>University of Basel, Basel, Switzerland</i>  <sup>3</sup><i>Ovchinnikov and Shemyakin Institute of Bioorganic Chemistry, Moscow, Russia</i>  <sup>4</sup><i>Saint Petersburg State University, St. Petersburg, Russia</i>  “β-Structural antimicrobial peptides as complement system modulators”</p>
14:30-14:45	<p><b><u>Arzu Dadashova</u></b>  <i>Azerbaijan Medical University, Baku, Azerbaijan</i>  “<i>The influence of hyperhomocysteinemia on the inflammatory process</i>”</p>
14:45-15:00	<p><b><u>Dmitriy Orlov, Maria Zharkova, Olga Shamova</u></b>  <i>Institute of Experimental Medicine, WCRC for Personalized Medicine, St. Petersburg, Russia</i>  “Antimicrobial action of peptides and natural detergents”</p>
15:00-15:15	<p><b><u>Maria Sukhareva, Elizaveta Vladimirova</u></b>  <i>Institute of Experimental Medicine, WCRC for Personalized Medicine, St.</i></p>

	<i>Petersburg, Russia</i> “Role of human salivary cationic proline-rich peptides in the implementation of protective reactions of the oral cavity”
<b>15:15-15:30</b>	<b><u>Elizaveta Vladimirova, Maria Sukhareva</u></b> <i>Institute of Experimental Medicine, WCRC for Personalized Medicine, St. Petersburg, Russia</i> “Combined action of AMPs and silver nanoparticles on human cells and antibiotic-resistant bacteria”
<b>15:30-15:45</b>	<b><u>Maria Khaydukova, Olga Shamova</u></b> <i>Institute of Experimental Medicine, WCRC for Personalized Medicine, St. Petersburg, Russia</i> “Machine learning technique for prediction of the AMP’s minimum inhibitory concentration”
<b>15:45-16:00</b>	<b><u>Ekaterina Egorova<sup>1,2</sup>, Mikhail Berlov<sup>1</sup>, Ilia Krenev<sup>1</sup>, Vladislav Pozolotin<sup>1,2</sup>, Khaydukova Maria<sup>1,2</sup></u></b> <sup>1</sup> <i>Institute of Experimental Medicine, St. Petersburg, Russia</i> <sup>2</sup> <i>St. Petersburg State University, St. Petersburg, Russia</i> “Antimicrobial activity of complement C3f peptide under various conditions”
<b>16:00-16:15</b>	<b><u>Larisa Leonova, Baklanova A.S., Tatyana Grishina, Irina Krasovskaya, Elena Tsvetkova</u></b> <i>St. Petersburg State University, St. Petersburg, Russia</i> “Natural milk protein complexes as a method of delivery and preservation of biologically active proteins and peptides for newborns”
<b>16:15-16:25</b>	<b>DISCUSSION</b>