PROGRAM

IUPS-BRICS CONFERENCE
"STRESS IN HEALTH AND DISEASE"

December 17, 2021

I.P. Pavlov Institute of Physiology
Russian Academy of Science
Saint-Petersburg
Russia
ORGANIZERS OF THE CONFERENCE

I.P. Pavlov Institute of Physiology
Russian Academy of Sciences (RAS)
International Union of Physiological Sciences (IUPS)
Department of Physiological Sciences RAS

ORGANIZING COMMITTEE

Chair:
Ludmila Filaretova

Members of the Committee:
Elena Rybnikova
(vice-chair)
Tatiana Moshonkina
Ekaterina Savelyeva
Dora Zelena

PROGRAM COMMITTEE

Chairs:
Ludmila Filaretova
Julie Y.H. Chan
Jayasree Sengupta

Members of the Committee:
Thomas Brzozowski
Duan Chen
Daniela Jezova
Klara Gyires

Supported by the Ministry of Science and Higher Education of the Russian Federation (agreement No. 075-15-2020-921 for the creation and development of the World-Class Scientific Center (WCSC) Pavlov Center "Integrative Physiology - to Medicine, High-tech Healthcare and Technologies of Stress Resistance ").
On behalf of the Organizing Committee of IUPS-BRICS conference "Stress in health and disease" we welcome you to Pavlov Institute of Physiology, unfortunately this time on-line. The first IUPS-BRICS meeting on Stress was held in Pavlov Institute of Physiology RAS in 2019.

**Historical perspective & Venue:** Pavlov Institute of Physiology of the Russian Academy of Sciences was founded in 1925. The first Director of the Institute of Physiology until 1936 was the first Nobel Prize winner in theoretical medicine Academician Ivan P. Pavlov. Pavlov is considered as a founder of integrative physiology. In 2025 Pavlov Institute of Physiology will celebrate the 100th anniversary.

**Future prospects:** We are pleased to inform you that our project on creation of the World-Class Scientific Center (WCSC), which we discussed in 2019, was supported by the Ministry of Science and High Education of the Russian Federation at August 28, 2020. WCSCs were created in the format of consortia within the framework of the Russian national project "Science" to perform breakthrough research on the priorities of scientific and technological development. We are very grateful to the President of IUPS Prof. Julie Chan for her great support.

WCSC Pavlov Center "Integrative Physiology - to Medicine, High-tech Healthcare and Technologies of Stress Resistance" was established on the basis of Pavlov Institute of Physiology Russian Academy of Sciences with the participation of several other scientific organizations we invited: Sechenov Institute of Evolutionary Physiology and Biochemistry RAS, Saint Petersburg Electrotechnical University “LETI” and State Scientific Center of Russian Federation Institute of Medical and Biological Problems.

**The Theme of this conference** is Stress. The topic is critically important for development of integrative physiology. The Father of Stress concept Hans Selye foretold: “Stress in health and disease is medically, sociologically, and philosophically the most meaningful subject for humanity”.

In the frame of the Pavlov Center project we organize this conference to exchange by new knowledge on stress and discuss possible cooperation.

Ludmila Filaretova  
Chair of the Organizing Committee  
Director of Pavlov Institute of Physiology RAS  
Head of the WCRC Pavlov Center “Integrative Physiology to Medicine, High-tech Healthcare and Technologies of Stress Resistance"
### December 17, 2021
**Pavlov Institute of Physiology**
**Russian Academy of Sciences**
*On-line*

<table>
<thead>
<tr>
<th>Morning Session (11-14 Moscow time)</th>
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<td>(25 min talk including 5 min discussion)</td>
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<tr>
<th>Greeting from the President of International Union of Physiological Sciences</th>
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<td>Prof. Julie Chan</td>
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<tr>
<th>Jayasree Sengupta (Chair of the BGA-IUPS)</th>
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<td>Physiology - Challenges and the Way Forward: the BGA-IUPS story</td>
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<tr>
<th>Ludmila Filaretova (Pavlov Institute of Physiology, Russian Academy of Science, St.Petersburg, Russia)</th>
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<td>Integrative physiology and stress</td>
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<tr>
<th>Jayasree Sengupta and Debabrata Ghosh (Department of Physiology, All India Institute of Medical Sciences, New Delhi, India, (JS currently retired))</th>
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<tr>
<td>Pathophysiological basis of endometriosis</td>
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<tr>
<th>Klara Gyires (Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest, Hungary)</th>
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<td>Why psychosocial stress, and psychiatric disorders affect integrity of gastrointestinal mucosa and vice versa?</td>
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<th>Thomas Brzozowski (Department of Physiology, Faculty of Medicine, Jagiellonian University Medical College, Cracow, Poland)</th>
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<td>Brain-gut-microbiota axis - role of potential stressors</td>
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<th>Natalia Supolkina, Vadim Gushin, Dmitry Shved, Anna Yusupova, Angelina Chekalina (Russian Federation State Scientific Center - Institute of Biomedical problems of the Russian Academy of Sciences, Moscow, Russia)</th>
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<td>Stress coping in space crew communication during regular and intensive workload</td>
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<td>Speaker</td>
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<td>Daniela Jezova</td>
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<td>Dora Zelena</td>
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<td>Alexander V. Ovechkin</td>
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<td>Serguei O. Fetissov</td>
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