

*Centre for Physiology and Biochemical Research (CPBR)  
Russian Society for BioPsychiatry, Russian Society for Biological Psychiatry*



## **7<sup>th</sup> Multidisciplinary Conference STRESS AND BEHAVIOR**

**Moscow, Russia. 26-28 February 2003**

**Support is provided by IBRO, International Brain Research Organization  
Конференция поддержана ИБРО, Международной организацией по изучению мозга**

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### **Welcoming Address from the President of WFSBP, World Federation of Societies of Biological Psychiatry**

Dear Colleagues,

It is a great honour to have the opportunity to address the participants of the 7<sup>th</sup> Multidisciplinary Conference of Biological Psychiatry with a message from the World Federation of Societies of Biological Psychiatry.

As most of you know, the WFSBP is a worldwide organization with a congregation of more than 7000 psychiatrists dedicated to Biological Psychiatry. Although the majority of these psychiatrists are clinically oriented, we have a large number of qualified researchers within the neuroscience field. One of the WFSBP's task is to promote the diffusion of updated knowledge amongst our members through congresses and educational activities. Another important vehicle of promoting scientific knowledge is the World Journal of Biological Psychiatry, distributed to 7000 of our members with a complimentary annual fee. The WFSBP is very proud to have amongst its members several psychiatrists from Russia. I am certain most of them are attending this Conference.

Biological Psychiatry is one of the fields that have achieved considerable and outstanding progress during the last twenty years, thanks to the research in molecular biology, genetics and neuroimaging. However, we should not forget that dealing with patients we have to start and finish from the clinic, and take into consideration that the main tool remains Psychopathology. For each doctor to go from Clinical Psychopathology to General Pathology (including Neuroscience) and then progress to therapeutics is the large task for the modern psychiatrists of today.

The Program for your Conference, which I received, predominantly represents the high quality level we should always support and promote. In this regard, I do congratulate the Conference organizers for the excellent scientific program for this Conference. I am certain you will all return from this Conference enriched by the knowledge gained and will be highly motivated by the progress being achieved in Biological Psychiatry. I wish you all the very best in Moscow at the Conference and enjoy the friendship with your colleagues and appreciate the knowledge gained in Biological Psychiatry.

Warmest regards,

**Prof. Carlos Roberto Hojaij, President of WFSBP  
Melbourne, Australia**

## **CONFERENCE PROGRAM**

### **Big Conference hall**

#### **26.2.2003**

**8.00** Conference registration

**9.20** Conference opening ceremony. Welcoming address from the Conference Chair Dr. A.V.Kalueff  
Welcoming address from the Director of the Institute of Higher Nervous Activity  
and Neurophysiology Prof. I.A.Shevelev, Academician of RAS  
Welcoming address from the President of the Russian Society for BioPsychiatry  
Prof. O.G.Syropyatov

#### **PLENARY LECTURES**

**10.00** Prof. G.N.Kryzhanovsky, Academician of RAMS. Pathological systems and behavioral disorders

**10.30** Prof. S.B.Seredenin, Academician of RAMS. Neurochemical mechanisms of anxioreactivity

**15.30** Prof. I.P.Lapin Anxiety, depression and alcoholism: neurokynurenine mechanisms

**Symposia:**

**№ 1. Neuropsychopharmacology**

**№ 3. Experimental models**

#### **27.2.2003**

#### **PLENARY LECTURES**

**9.00** Prof. M.G.Airapetyanz. Microcirculatory hypothesis of pathogenesis of neurosis

**9.30** Prof. M.M.Khananashvili, Academician of RAMS. Biologically positive informational stress

**15.30** **Plenary lecture of the Russian Society of Psychiatrists**

Prof. V.N.Krasnov, President of the Russian Society of Psychiatrists  
Neuropsychiatry as a modern period in the evolution of psychiatry

**Symposia:**

**№ 4. P.V.Simonov Memorial symposium "Emotions and behavior"**

**№ 5a. Psychophysiology (Part 1)**

**№ 6. Symposium of the Russian Society for Biological psychiatry "Biological aspects of  
therapy of psychiatric disorders"**

#### **28.2.2003**

#### **PLENARY LECTURES**

**9.30** Prof. M.B.Shtark, Academician of RAMS. Bio-regulation and stress-induced states

**10.00** Prof. A.M.Vein, Academician of RAMS. Sleep and Medicine

**10.30** Professor G. Siegel. Orexins and Sleep

**Symposia:**

**№ 10. Sleep and behavior**

**№ 11. General questions and discussion.**

**Closing of the Conference.**

**The Russian Society for BioPsychiatry Young Investigator Diploma Awards**

**Announcing next, 8th Multidisciplinary RSBP conference "Biological Psychiatry of stress"**

## **CONFERENCE PROGRAM**

### **Small Conference hall**

#### **26.2.2003**

**14.00 Symposia:**

**№ 2. Clinical issues**

#### **27.2.2003**

**10.00 Symposia:**

**№ 7. Aggression, self-aggression and suicidology**

**№ 8. Neuropsychology (Parts I, II)**

**№ 9. The role of olfaction in animal and human behavior**

#### **28.2.2003**

**10.00 Symposia:**

**№ 5b. Psychophysiology (Part II) Aggression, self-aggression and suicidology**

**№ 12. Neurochemistry and neurophysiology of stress**

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## **SAUNA**

#### **27.2.2003**

**10.30 Satellite symposium**

**5th "Sauna" colloquium on Biological psychiatry "Olfaction and behavior"**

## **Conference symposia oral presentations**

### **SYMPOSIUM 1. NEUROPSYCHOPHARMACOLOGY**

**Chairs: T.A.Voronina, R.U.Ostrovskaya, S.A.Sergeeva (Moscow),  
I.P.Lapin (St-Petersburg), A.N.Makarenko (Kiev)**

COGNITION ENHANCERS AND ANTIPSYCHOTICS: ARE THERE COMMON TARGETS FOR THE ACTION AND  
SIMILARITY IN THE NEUROREGULATORY MECHANISMS INVOLVED?

Ostrovskaya R.U., Moscow, Russia

MIRTAZAPINE: MECHANISMS OF ACTION, EFFICACY AND PROFILE OF PATIENTS  
FOR WHOM IT SEEMS TO BE A GOOD INDICATION

C.Calvy, Monston, Canada

OPPOSITE GABA INFLUENCE ON SEXUAL MOTIVATION  
IN STRESSED MALE MICE WITH ALTERNATIVE SOCIAL HISTORIES

Amikishieva A.V., Novosibirsk, Russia

COMPARISON OF DIAZEPAM INFLUENCE ON RABBITS' BEHAVIOR IN SPONTANEOUS CONDITION AND STRESS  
M.Chomicki, R.Czabak-Garbacz, B.Cygan, D.Zubrzycka, N.M. Konicheva, Lublin, POLAND, MOSCOV, RUSSIA

ANTISTRESS ACTION OF PROPRATEN

Voronina T.A., Sergeeva S.A., Molodavkin G.M., Epstein O.I., Dugina Yu.L., Moscow, Russia

DEPRESSIVE-LIKE FEATURES OF BEHAVIOR IN WAG/RIJ RATS - CORRECTION BY ANTIDEPRESSANT IMIPRAMINE

K.Yu.Sarkisova, Moscow, Russia

ANTIDEPRESSANT ACTIVITY AND INTERACTION WITH MONOAMINOXIDASES OF THE NOVEL POTENTIAL  
ANTIPARKINSONIAN DRUG HEMANTANE

E.Valdman, G.Molodavkin, A.Medvedev, O.Buneeva, T.Voronina, Moscow, Russia

PROTECTIVE ROLE OF NOS INHIBITORS AGAINST NEUROTOXICITY EVOKED BY DRUG OF ABUSE AMPHETAMINE

V. Bashkatova, M. Kraus, H. Prast. Moscow, Russia; Innsbruck, Austria

TRIPLEPTIDE FRAGMENT OF CORTICOLIBERIN SIMULATES CENTRAL ACTION OF THE WHOLE HORMONE

Makarenko K, Mart'ianov A. Moscow, Russia

EXPERIMENTAL MODELS OF BEHAVIORAL CONFLICT STATES IN FORECAST  
OF ANTISTRESS ACTION OF PEPTIDE DRUG SELANK

I.I.Koslovskyy. Moscow, Russia

"ADEMENT" IS A NEW EFFECTIVE REMEDY FOR ALZHEIMER'S DISEASE TREATMENT

Makarenko A.N., Grygorieva T.I., Gasul E.R., Koroliov Yu.N., Stepanenko L.V., Kiev, Ukraine

THE EFFECT OF CHRONIC IMIPRAMINE TREATMENT ON THE 5-HT<sub>2A</sub> SEROTONIN RECEPTOR MRNA LEVEL IN  
THE BRAIN OF RAT STRAINS DIFFERING IN PREDISPOSITION TO CATALEPSY

Tikhonova M.A., Kulikov A.V., Barykina N.N., Kolpakov V.G., Popova N.K., Novosibirsk, Russia

MEXIDOL ACTION MECHANISMS IN EXPERIMENTAL STRESS AND TREATMENT OF ANXIETY DISORDERS

Voronina T.A., Avedisova A.S., Smirnova L.K., Babaev I.I., Smirnov L.D., Larentsova L.I., Nerobkova L.N.

Moscow, Russia, Baku, Azerbaijan

## **SYMPOSIUM 2. CLINICAL ISSUES**

**Chairs: A.P.Chuprikov, O.G.Syropiatov (Kiev)**

NEW APPROACHES TO DIAGNOSTICS AND TREATMENT OF MULTIPLE SCLEROSIS

Zhadin M.N., Zakharova N.M., Lunin S.M. Pushino, Russia

ATTEMPT OF PSYCHODINAMIC ASSESSMENT OF PSYCHIC DISORDERS SYMPTOMS: CLINICAL CASE

Redchitz O.A., Mal'tzeva N.Yu., Tomsk, Russia

COMPARATIVE CLINICAL STUDY: MAIN PSYCHOLOGICAL FACTORS AND PSYCHOSOMATIC MECHANISMS IN  
DEVELOPMENT OF BRONCHIAL ASTHMA AND RHEUMATOID ARTHRITIS

Leschinskaya V.V. Novosibirsk, Russia

APPLICATION OF BIOSTIMULATOR "DR. REDOX RUG" AS A COMBINED METHOD OF BEHAVIORAL THERAPY AND  
NEEDLE REFLEX THERAPY IN PATIENTS WITH THE FUNCTIONAL ASTENY OF VARIOUS GENESIS

S.L. Bugrov, S.V. Kopishinskaya. Nizhny Novgorod, Russia

THE USE OF THE METHOD OF TRANSCRANIAL MICROPOLARIZATION DURING CORRECTIONS PROCESSES OF  
RETARDED MENTAL DEVELOPMENT OF THE CHILDREN

Kozhushko N.Yu., Ponomareva E.A., Berezhnaya N.F., Matvejev Yu.K. Saint-Petersburg, Russia.

IMMUNOCHROMATOGRAPHIC EXPRESS-TESTS IN THE COMPLEX DIAGNOSTICS  
OF DRUG ABUSE IN THE ADOLESCENTS

Kryukovskyy S.V., Moscow, Russia

METHOD OF DESENSIBILIZATION AND EYE MOVEMENTS PROCESSING AND ITS MODIFICATION  
IN PSYCHOTHERAPY OF PATIENTS WITH BURN INJURY

Polyanina D.A., Epifanova N.M., Smirnov S.V., Moscow, Russia

DYNAMICS OF VEGETATIVE STATUS AND CLINICAL MANIFESTATION AT THE PATIENT'S SCHIZOPHRENIA  
AT APPLICATION OF ELECTROCONVULSIVE THERAPY

A.G.Komissarov. Naberezhnie Chelni, Russia

MENTAL HEALTH OF THE ELDERLY PATIENTS WITH CARDIOVASCULAR DISEASES

O.G.Syropiatov, N.A.Dzeruzhinskaya. Kiev, Ukraine

SOME ASPECTS OF BODERLINE NEURO-PSYCHIATRIC DISORDERS  
IN CHERNOBYL ATOMIC STATION DISASTER LIQUIDATORS

Rudnytskyy V.A., Semke V.Ya., Tomsk, Russia

THE MENTAL ADAPTATION OF THE MUCOVISCIDOSIS PATIENTS AND THEY MOTHERS

N.P. Vanchakova, A.Y. Lotockiy, E.A. Veselova

I.P.Pavlov State Medical Academy, Sankt-Peterburg, Russia

PSYCHOEMOTIONAL PECULIARITIES OF NEUROTIC CHILDREN AND JUVENILES

Allakhverdiev A.R., Kadyrova K.G., Khorunjeva Yu.A. Baku, Azerbaijan

INVESTIGATION OF EFFECTIVENESS OF HYPERBARIC OXYGENATION ON PSYCHIC AND IMMUNE STATUS OF  
SCHISOFRENIC PATIENTS

V.G. Podsevatkin S.V. Kirjuchina, Saransk, Russia

## **SYMPOSIUM 3. EXPERIMENTAL MODELS OF STRESS**

**Chairs: K.Yu.Sarkisova, N.M.Khonicheva, M.A.Deryagina (Moscow)**

BEHAVIORAL AND NEUROCHEMICAL CONSEQUENCES  
OF REPEATED EXPERIENCE OF AGGRESSION IN MALE MICE  
N.N.Kudryavtseva. Novosibirsk, Russia

BEHAVIOURAL AND ELECTROPHYSIOLOGICAL PROPERTIES OF OUTBRED ALBINO RATS WITH DIFFERENT  
EMOTIONAL REACTIVITY, SELECTED BY THE FORCED SWIMMING AND CONFLICT TESTS  
G.M.Molodavkin, T.A.Voronina. Moscow, Russia

ZEBRAFISH: A NEW MODEL FOR STRESS RESEARCH  
I.V.Zhdanova, Boston, USA

NEW MODEL OF DEPRESSION IN MICE  
T.Strekalova, D. Bartsch, R.Spanagel and P. Gass. Mannheim, Germany

ARE THE ALGORITHMIC PATTERNS AN ALTERNATIVE FOR SPATIAL WORKING MEMORY  
IN RATS IN THE WATER RADIAL MAZE?  
I.V.Ermakova, Moscow, Russia

ETHOLOGO-ACCUSTIC STUDY OF STRESS IN UNVERTEBRATES  
Knyazev A.N., Ivanov V.P., Akimov A.G. St-Petersburg, Russia

A WEAK MAGNETIC FIELD AS DEPRESSIVE-LIKE FACTOR  
K.A.Nikolskaya Moscow, Russia

INFLUENCE OF PROBIOTIC PREPARATIONS ON THE LEARNING  
AND GENERAL STATE OF RATS AFTER ACUTE ACOUSTIC STRESS  
Alekseeva T.G., Loseva E.V., Timofeyev I.V. Moscow, Koltzovo, Russia

EEG IN STRESSED MR AND MNRA RATS WITH DIFFERENT EMOTIONALITY LEVELS  
Seredenin S.B., Sviderskaya N.E., Kozhechkin S.N., Koshtoyants O.Kh., Kozhedub R.G., , Moscow, Russia

TAIL-FLICK METHOD TO REVEAL RESPONSES OF CNS UNDER PHARMACOLOGICAL INFLUENCE  
Kondashevskaya M. V., Nikolskaya K. A, Moscow, Russia

THE INFLUENCE OF CHRONIC SITUATION STRESS ON PSYCHIC AND PHYSICAL INDEXES  
OF RATS OF DIFFERENT AGES UNDER EFFECT OF CHRONIC IRRADIATION  
E.N. Gorban, N.V. Topolnikova, D.V. Alekseev, Kiev, Ukraine

STUDIES OF AVERSE EFFECTS OF IONISING RADIATION AND STRESS  
AND ITS CORRECTION POSSIBILITY WITH VITAMIN COMPLEX TREATMENT  
E.V.Tukalenko, N.E.Makarchuk. Kiev, Ukraine

THE STATE OF RAT'S CONDITIONED DEFENSE-MOTOR REFLEX IN THE EARLY TERMS OF HYPOKINESIA  
G. A. Navasardyan, N. B. Yeritsyan, Yerevan, Armenia

EFFECTS OF MM-ELECTROMAGNETIC WAVES ON ANIMAL ANXIETY IN EXPERIMENTAL MODELS  
Bezrukov V.V., Gorban E.N., Holin V.A., Kozel-Stepanenko S.V., Kiev, Ukraine

## **SYMPOSIUM 4.**

### **P.V.SIMONOV MEMORIAL SYMPOSIUM**

### **“EMOTIONS AND BEHAVIOR”**

**Chairs: M.G.Airapetyants, G.Kh.Merzhanova,  
A.V.Kalueff, I.P.Levshina (Moscow)**

#### INTRODUCTION

G.Kh.Merzhanova, Moscow, Russia

#### BIOLOGICAL BASIS OF HUMAN EMOTIONAL BEHAVIOR

*M.A.Deryagina. Moscow, Russia*

ANXIETY-DEPRESSIVE LIKE DISORDERS AS A RESULT OF MENTAL TRAUMA IN RATS  
Tsikunov S.G., Klimenko V.M., Kusov A.G., Klyueva N.N., Denisenko A.D. Saint-Petersburg, Russia

#### NEUROCHEMICAL MECHANISMS OF EMOTIONAL AND MOTIVATION STATES ACTUALIZATION

Bazyan A. S., Orlova N. V., Folomkina A. A. Moscow, Russia

BIOLOGICAL BASIS OF THE “FOR THE BENEFIT OF SOMEONE” BEHAVIORAL TYPE: PECULARITIES OF  
VEGETATIVE REGULATION COMPARING WITH THE “FOR MY OWN PURPOSES” TYPE

Khonicheva N.M. Moscow, Russia

#### THE ROLE OF HIPPOCAMPUS IN MANIFESTATION OF FEAR

V. Kostenkova, K. Nikolskaya. Moscow, Russia

#### STUDY OF ANXIETY IN ANIMALS: YESTERDAY, TODAY AND TOMORROW

A.V.Kalueff, Moscow, Russia, Tampere, Finland

DOPAMINE D4 RECEPTOR AND SEROTONIN TRANSPORTER PROMOTER IN THE DETERMINATION OF NEONATAL  
TEMPERAMENT: NOVELTY SEEKING IN TWO-WEEK OLD INFANTS

V.Geller, \*R.P. Ebstein, J.Levin, J.Auerbach, \*I. Gritsenko, R.H. Belmaker. Jerusalem, Israel

## **SYMPOSIUM 5A.**

### **PSYCHOPHYSIOLOGY OF STRESS. PART I**

**Chairs: A.Ya.Kaplan (Moscow), M.E.Makarchuk (Kiev), Yu.V.Scherbatykh (Voronezh)**

HOMO ANXIUS: IN THE SEARCH FOR HARMONY

A.Ya.Kaplan. Moscow, Russia

THE INTERRELATION OF ANXIETY, FEAR AND FRUSTRATION WITH AN ACTIVITY  
OF PARASYMPATHETIC PART OF AUTONOMOUS (VEGETATIVE) NERVOUS SYSTEM

Scherbatykh Yu.V., Voronezh, Russia

MEASURING THE ALPHA RHYTHM

Vladimir Feshchenko, Robert Veselis, Ruth Reinsel, New York, NY, USA

IS MUSIC ANXIOLYTIC OR STRESSFUL FACTOR FOR WOMEN PROFESSIONAL MUSICIAN  
DURING THE MENSTRUAL CYCLE?

O.M.Bazanova, Novosibirsk, Russia

NEUROPHYSIOLOGICAL PARAMETERS OF MILITARY CONFLICTS PARTICIPANTS UNDER REHABILITATION IN  
SOCHI RESORT CONDITIONS

Rodionova Y.A., Bykov A.T., Gnezditzky V.V. Sochi, Moscow, Russia

STRESS IN PATHOGENESIS OF THE CHRONIC MUSCLE PAIN

E. Lyskov, A. Greanshow, M. Djupsjöbacka, H. Johansson, Umeå, Sweden, St-Petersburg, Russia

GENERAL DISCUSSION. Part 1.



## **SYMPOSIUM 6.**

### **SYMPOSIUM OF THE RUSSIAN SOCIETY FOR BIOLOGICAL PSYCHIATRY**

## **BIOLOGICAL ASPECTS OF THERAPY OF PSYCHIATRIC DISORDERS**

**Chairs: Krasnov V.N., Mosolov S.N., Uzbekov M.G. (Moscow)**

NEUROCHEMICAL PROBLEMS OF CONTEMPORATY BIOLOGICAL PSYCHIATRY

Kogan B.M. Moscow Russia

NATURAL NEUROTROPIC AUTOANTIBODIES AND PATHOLOGY OF THE NERVOUS SYTEM

Poletaev A.B. Moscow, Russia

NEW LOOK AT THE MECHANISMS OF ACTION OF ANTIDEPRESSANTS AFFECTING 5HT REUPTAKE

Uzbekov M.G. Moscow, Russia

THE ROLE OF ENDOGENIC TOXICOSIS IN RESISTANCE TO PSYCHOPHARMACOTHERAPY  
IN SCIZOPHRENIC PATIENTS ANT THE WAYS FOR CORRECTION

Malin A.D. Moscow, Russia

REGRESSIVE SIGNS OF NEURONAL PLASTICITY IN ALTZHEIMER DISEASE AND SCIZOPHRENIA

Markova E.G. Moscow, Russia

MECHANISMS OF ENDOGENOUS SIDE EFFECTS IN NEROLEPTIC THERAPY

Gorobetz L.N. Moscow, Russia

PHARMACOKINETICS FORECAST OF NORMOTHIMIC THERAPY

Kuzavkova M.V. Moscow, Russia

QUANTITATIVE ELECTROENCEPHALOGRAPHY IN MULTIDISCIPLINARY STUDIES  
OF PSYCHIATRIC DISORDERS

Iznak A.F. Moscow, Russia

ELECTROENCEPHALOGRAPHIC STUDY OF THE NEW GENERATION OF ATYPICAL ANTIPSYCHOTICS  
IN SCIZOPHRENIC PATIENTS

Melnicova T.S., Sulimov G.U. Moscow Russia

NEUROBIOLOGY OF SICKNESS BEHAVIOR

V.M. Klimenko, St. Petersburg, Russia

PSYCHOEMOTIONAL CHANGES DURING BETAFERON TREATMENT OF PATIENTS WITH MULTIPLE SCLEROSIS

E.S. Sokolova, N.A. Totoljan\*, V.M. Klimenko, St-Petersburg, Russia

## **SYMPOSIUM 7.**

# **AGGRESSION, SELF-AGGRESSION AND SUICIDOLOGY**

**Chairs: N.N.Kudryavtseva (Novosibirsk), G.Ya.Pilyagina (Kiev)**

### **NEUROBIOLOGICAL DETERMINANTS OF AGGRESSION**

N.N.Kudryavtseva. Novosibirsk, Russia

### **NEUROBIOLOGICAL BASIS OF SUICIDALITY**

Rozanov V.A. Odessa, Ukraine

### **THE PROBLEM OF EXPLORATORY PARADIGM IN SUICIDOLOGY**

Pilyagina G., Kiev, Ukraine

### **SUICIDE RISK, AGGRESSION AND VIOLENCE IN MAJOR PSYCHIATRIC DISORDERS**

Mousavi Seyed Ghafur, Tallaei Hamid, Isfahan, Iran

### **AGGRESSIVE BEHAVIOR IN TUVINIANS: DETERMINATIVES AND PERSPECTIVES OF PREVENTION**

Chukhrova M.G., Hasnulin V.I., Leschinskaya V.V., Hunan-ool A.S., Gulyaeva O.M., Udartceva T.L., Hunan A.S  
Novosibirsk, Kysyl, Russia

### **SUICIDAL BEHAVIOR AND DEATH SEFL SONSIESNESS**

V.A.Mangubi, Kharkov, Ukraine

### **GENEALOGICAL STUDY OF SCIZOPHRENIC PATIENTS AFTER SUICIDAL ATTEMPT**

Ryshkovskaya N.A., Lvov, Ukraina

### **ACQUIRED HELPLESSNESS SYNDROM IN VICTIMS OF DOMESTIC VIOLENCE**

Yu.V. Onyshko, Kiev, Ukraine

### **COGNITIVE-BEHAVIORAL THERAPY IN PEOPLE AFTER EXTREME STRESS, INCLUDING THOSE WITH SELF-AGGRESSIVE BEHAVIOR**

Bolotov D.M., Kharkov, Ukraine

## **SYMPOSIUM 8.**

### **NEUROPSYCHOLOGY OF STRESS (PARTS I, II).**

**Chairs: A.B.Leonova, Dr. I.V.Blinnikova (Moscow)**

THE MAIN THEORETICAL APPROACHES AND METHODOLOGY OF PSYCHOLOGICAL STRESS RESEARCH  
Leonova A.B. Moscow, Russia

INDIVIDUAL DIFFERENCES OF DOMINATIVE SENSORY MODALITY  
AS THE BASE OF SELF-REGULATION STRESS MANAGEMENT PROGRAMS  
V.Barabanschikova, A. Kuznetsova. Moscow, Russia

DISSOCIATION STATES AND INDIVIDUAL FORMAL-DYNAMIC CHARACTERISTICS  
Eputaev Ya.Yu., Ikonnikova M.B., Agarkov V.A., Tarabrina N.V. Moscow, Russia

COGNITIVE TASKS PERFORMANCE IN MILITARY PERSONNEL EXPOSED TO TRAUMATIC EVENTS  
I.V. Blinnikova, E.A. Denisova. Moscow, Russia

GENDER-DEPENDENT BEHAVIOR OF PHYSICIANS IN STRESS  
Ł.J. Maziarz, I.Furtak. Lublin, Poland

THE INFLUENCE OF MARITAL STATUS ON THE BEHAVIOR OF POLISH MIDWIVES UNDER STRESS CONDITIONS  
Ł.J. Maziarz, B.Cygan, R.Czabak-Garbacz, J.W.Cjck. Lublin, Poland

PROFESSIONAL STRESS AT THE INITIAL STAGES OF ORGANIZATIONAL TRANSFORMATIONS  
Motovilina I.A., Moscow, Russia

PSYCHOLOGICAL FACTORS AND STRESS IN SECONDARY AND HIGHER EDUCATIONAL INSTITUTIONS FOREIGN  
LANGUAGE TEACHERS  
S.B.Velichkovskaya, Moscow, Russia

DETECTION OF FACIAL-EMOTION EXPRESSIONS AND “SENSITIVITY TO FEAR” IN MEN AND WOMEN  
Smirnova O.V., Rebeko T.A., Nikitina E.P. Moscow, Russia

CHARACTERISTIC FEATURES OF PROFESSIONALS PSYCHOLOGICAL STATES USING COMPUTERIZED TOOLS  
Mikhaleva S.P., Shirikaya M.Yu. Moscow, Russia

HIGHER PSYCHIC FUNCTIONS AND INTERPERSONAL RELATIONS IN 6-7 YEARS CHILDREN  
WITH GENERAL UNDERDEVELOPMENT OF SPEECH AFTER PERINATAL CNS PATHOLOGY  
Zahirina L.A., St-Peterburg, Russia

## **SYMPOSIUM 9.**

### **THE ROLE OF OLFACTION IN HUMAN AND ANIMAL BEHAVIOR**

**Chairs: E.P.Zinkevich, A.V.Kalueff (Moscow), N.E.Makarchuk (Kiev)**

#### **BIOLOGICAL AND SOCIAL ROLE OF HUMAN OLFACTORY SIGNALS**

T.M.Dmitrieva, E.P.Zinkevich, Moscow, Russia

#### **OLFACTION AND EMOTIONS**

N.E.Makarchuk, A.V.Kalueff, Kiev, Ukraine

#### **OLFACTORY SYSTEM AND ALZHEIMER DISEASE**

Bobkova N.V., Nesterova I.V., Medvinskaya N.I., Aleksandrova I.Y., Samokhin A.N., Pushchino, Russia

#### **ANXIOLYTIC AND IMMUNOPROTECTIVE EFFECTS OF AROMATHERAPY**

T. Nevidimova, V. Semke, V. Vasilyev, T. Robenkova, A. Vasilyeva, Tomsk, Russia

#### **DEVELOPING THE CONCEPTUAL APPARATUS IN THE AREA OF CHEMICAL COMMUNICATION AND SEEKING ADEQUATE TERMINOLOGY**

S.A.Ostroumov, Moscow, Russia

## **SYMPOSIUM 10. SLEEP AND BEHAVIOR**

**Chairs: V.M.Kovalzon, V.B.Dorokhov (Moscow)**

### MELATONIN AND SLEEP

I.V. Zhdanova, Boston, USA

### INFUSION OF 2,4-DINITROPHENOL INTO THE BASAL FOREBRAIN PRODUCES LOCAL ENERGY DEPLETION AND INCREASES SLEEP

A.Kalinchuk, A-S.Urilla, L.Alanko, S.Heiskanen, H.K.Wigren, M.Suomela, D.Stenberg, T. Porkka-Heiskanen, Helsinki, Finland

### PSYCHOMOTORICAL TEST FOR INVESTIGATION OF PERFORMANCE LAPSES DURING THE FALLING ASLEEP

Dorokhov V.B. Moscow, Russia

### SUBSTANCE P IS INVOLVED IN THE PRODUCTION OF THE REM SLEEP REBOUND OCCURRING AFTER AN IMMOBILISATION STRESS IN THE RAT

R.Cespuglio, B.El Kafi, C.Bonnet, Lyon, France

### REGIONAL ASPECTS OF SLEEP REGULATION IN THE RAT

V.V. Vyazovskiy, A.A. Borbély, I. Tobler, Zurich, Switzerland

### STRESS AND SLEEP

G.V. Kovrov, A.M.Vein, I.I. Levin, K.N.Strigin. Moscow, Russia

### CHARACTERISTICS OF THE ACTIVITY-REST CYCLE IN NEWBORN CETACEANS (KILLER WHALES AND BOTTLENOSE DOLPHINS) AND THEIR MOTHERS

Lyamin O.I., Siegel J.M., Pryaslova U.A., Shpak O.V., Moscow, Russia

### PSYCHOSOMNIC ASPECTS IN CHRONIC EMOTIONAL STRESS

Strygin K.N., Vein A.M., Sudakov K.V., Levin Ya.I., Yumatov E.A., Kovrov G.V., Posokhov S.I., Korabelnikova E.A.  
Moscow, Russia

### COMPARATIVE ANALYSIS OF SLEEP DEPRIVATION AND PHOTOSTIMULATION ON THE SLEEP-WAKING CYCLE IN THE FROG RANA TEMPORARIA

E.A.Aristakesian, V.V.Kusic, D.M. Makina, I.V.Romanova.Saint-Petersburg, Russia

### REORGANIZATION of SPATIO-TEMPORARY ORGANIZATION SPINDLE

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P.E.Umryukhin, L.K.Pavlova, T.S.Pavlova. Moscow, Russia

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V.M.Kovalzon, G.N.Fessenko, Moscow, Russia

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**Chairs: Z.V.Kaganova (Moscow), G.A.Aminev (Ufa), O.G.Syropiatov (Kiev)**

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