USSR Space Life Sciences Digest

Index to Issues 1–4

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NOTE FROM THE EDITORS

The document herein is intended as an appendix to issues 1 through 4 of the USSR Space Life Sciences Digest. It is arranged in three sections. In Section 1, abstracts from the first four issues are grouped according to subject; please note the four-letter codes in the upper right hand corner of the pages. Section 2 lists the categories according to which Digest entries are grouped and cites additional entries relevant to that category by four-letter code and entry number in Section 1. Please refer to Section 1 for titles and other pertinent information. Key words are indexed in Section 3. Where only codes are listed, with no specific entry numbers, all or most of the abstracts in that area are considered relevant to the key word.
USSR

SPACE LIFE SCIENCES DIGEST

INDEX

ISSUES 1 THROUGH 4
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SECTION 1

USSR SPACE LIFE SCIENCES DIGEST

AREAS OF INTEREST

ISSUES 1 THROUGH 4

ADAP  Adaptation
BIOR  Biological Rhythms
BIOS  Biospherics
BODF  Body Fluids
BOTA  Botany
CDRS  Cardiovascular and Respiratory Systems
CYBM  Cybernetics/Biomedical Data Processing
DEVE  Development
ENDO  Endocrinology
EXOB  Exobiology
GAST  Gastrointestinal System
GENE  Genetics
GRAV  Gravitational Biology
GPDY  Group Dynamics
HAEN  Habitability/Environment Effects
HEAL  Health and Medical Treatment
HEMA  Hematology
HIST  Histology
HUPF  Human Performance
IMMU  Immunology
LFSP  Life Support Systems
MAMC  Man-Machine Systems
MATH  Mathematical Modeling
META  Metabolism
MICR  Microbiology
MPHC  Morphology and Cytology
MUSC  Musculoskeletal System
NEUR  Neurophysiology
NUTR  Nutrition
PERC  Perception
PERS  Personnel Selection
PSYC  Psychology
RADI  Radiobiology
REPR  Reproductive System
SPBI  Space Biology
SPPH  Space Physiology

Adaptation, Drugs
Humans, Antarctic Regions
Performance, Physical Work Capacity


Key words: Adaptation, Antarctic conditions, Neurophysiology, Biofeedback, Psychology, Performance


Adaptation, General, Stress
Rats
Countermeasures, Kallikrein; Immobilization

Key Words: Biorhythms: Human Performance, Job Performance, Cosmonauts, Cosmonaut Schedules
BIOSPHERICs

ISSUE 2


   Key Words: Biospherics, Natural Resources, Environment, Remote Sensing, Satellite Data


   Key Words: Biospherics, Remote Sensing Data, Vegetation, Oceanography, Earth Resources

ISSUE 3


   Key Words: Biospherics, Remote Sensing Data, Ecology, Human Impact, Natural Resources, Public Health, Desertification, Epidemiology, Salyut-6


   Key Words: Biospherics, Remote Sensing Data, Ecology, Human Impact, Natural Resources, Public Health, Epidemiology, Salyut-6

ISSUE 4


   Biospherics
   Review Article
   Ecological Prediction

Key Words: Biospherics, Electromagnetic Fields, Solar Activity, Anthropogenic Effects; Cardiovascular System, Modeling

Key Words: Biospherials, Electromagnetic Fields, Adaptation, Metabolism, Enzymology, Biorhythms, Modeling, Health and Medical Treatment

   Body Fluids, Mineral Metabolism; Also Endocrinology
   Humans, Cosmonauts
   Space Flight, Salyut-6


   Key Words: Body Fluids, Fluid Electrolyte Exchange


   Body Fluids, Fluid-electrolyte Exchange, Aldosterone
   Humans, Edema
   Hypokinesia, Immersion


   Body Fluids, Intracranial Fluid Shifts
   Model, Analogue
   Ultrasound Scanning


   Body Fluids, Total and Extracellular Fluids
   Rats
   Impedance Plethysmography, Dual Frequency

   Body Fluids, Fluid-electrolyte Balance
   Humans
   Immersion, Biological Rhythms


   Body Fluids, Fluid-electrolyte Balance
   Humans, Males
   Nutrition, Diets, Low Calorie

8. M28(10/85) Lebedev AA. Diuretiki i krovoobrashcheniye [Diuretics and circulation]. Moscow: Meditsina; 1984. [208 pages; 14 tables; 21 illustrations; 217 references; 77 in English]

   Key Words: Body Fluids, Fluid-Electrolyte Exchange, Diuretics, Cardiovascular Systems, Circulation Disorders, Endocrinology, Renin-Aldosterone, Catecholamine


   Key Words: Body Fluids, Fluid Electrolyte Exchange

ISSUE 4


   Body Fluids, Fluid-electrolyte Exhange
   Humans, Males
   Hypokinesia, Horizontal, Head-down Tilt
ISSUE 1

   Botany
   Higher Plants, Corn
   Moisture

ISSUE 2

   Botany, Cell Mutations; Also Radiobiology
   Lettuce, Seeds
   Radiation, HZE

   Botany, Cells; Also Radiobiology
   Lettuce, Seeds
   Radiation, Heavy Nuclei

ISSUE 4

   Key Words: Botany, Lower and Higher Plants, Cytology, Space flight Factors, Weightlessness, Vibration, Magnetic Fields, Clinostasis, Space Flight Simulation

   Botany, Growth and Development
   Experimental Methods and Equipment
   Space Flight, Salyut

    Botany, Orientation and Growth
    Lettuce and Cress
    Space Flight, Salyut; Weightlessness; Artificial Gravity


    Botany, Metabolism
    Pea
    Space Flight, Salyut
CARDIOVASCULAR AND RESPIRATORY SYSTEMS

ISSUE 1


   Cardiovascular and Respiratory Systems, Hemodynamics
   Humans, Typology
   Orthostatic Tolerance, Tilt Tests


   Cardiovascular System, Peripheral Circulation
   Humans, Men
   Head-down Tilt and Hypokinesia, Adaptation Training


   Cardiovascular and Respiratory System, Cerebral Hemodynamics and Ventricular Function
   Humans, Men, Typology
   Head-down Tilt


   Cardiovascular and Respiratory Systems, Physical Work Capacity
   Humans, Males
   Hypokinesia, Head-down Tilt, Physical Exercise


   Cardiovascular and Respiratory Systems, Myocardium
   Rats
   Stress, Exercise

Cardiovascular and Respiratory Systems, Myocardium; Also Morphology and Cytology
Rats
Immobilization


Cardiovascular and Respiratory Systems, Hemodynamics
Mathematical Models
High-Gravity Environments; Head-down Tilt


Cardiovascular and Respiratory Systems, Pulse; Also Health and Medical Treatment, Diagnosis
Humans, Operators
Mental Complexity, Stress

ISSUE 2


Cardiovascular and Respiratory Systems, Lungs; Also Morphology and Cytology
Rats
High Altitude, Adaptation


Cardiovascular and Respiratory Systems, Mitral Regurgitation; Also Health and Medical Treatment
Humans, Patients
Health and Medicine, Diagnosis, Non-invasive

Cardiovascular and Respiratory Systems, Tolerance
Humans, Patients, Arteriosclerosis
Acceleration, Centrifugal


Cardiovascular and Respiratory Systems, Peripheral Circulation
Humans, Males
Lower Body Negative Pressure


Cardiovascular and Respiratory Systems, Blood Pressure
Humans, Patients, Arterial Hypertension, Middle-aged
Water Immersion


Cardiovascular and Respiratory Systems, Coronary Circulation
Humans
Hypoxia


Cardiovascular and Respiratory Systems, Echocardiography; Also Health and Medicine
Primates, Macaca mulatta
Validation


Key Words: Cardiovascular and Respiratory Systems, Stress, Sleep - Wakefulness, Hypoxia, Hypobaria

   Cardiovascular and Respiratory Systems, Physical Work Capacity
   Humans, Divers
   Hyperbaria


   Cardiovascular and Respiratory Systems, Impedance Plethysmography, Polarography
   Humans, Males
   Acceleration Stress, Countermeasures


   Cardiovascular and Respiratory System, Cardiac Output, Impedance Plethysmography
   Humans
   Biomedical Data Processing and Cybernetics, Automated Program;


   Cardiovascular and Respiratory Systems
   Humans, Typology
   Hypoxia, Rapid Onset


   Cardiovascular and Respiratory Systems, Innervation; Also Endocrinology, Adrenal Gland
   Rats, Typology
   Immobilization Stress

Cardiovascular and Respiratory Systems, Myocardium; Also Health and Medical Treatment
Humans, Patients, Heart Disease
Scintigraphy


Cardiovascular and Respiratory Systems, Myocardia; Also Adaptation
Rats
Stress, Immobilization; Pre-adaptation


Key Words: Cardiovascular and Respiratory Systems, Coronary Circulation, Health and Medical Treatment, Diagnosis, Ischemia, Physical Stress Tests, Provocative Test

ISSUE 4


Cardiovascular and Respiratory Systems, Hemodynamics
Humans, Patients, Hypertension
Hyperkinesia, Immersion; Pressure Breathing


Cardiovascular and Respiratory Systems, Heart, Atrophy; Also Histology and Morphology, Cardiac
Dogs
Hypokinesia, Immobilization

Cardiovascular and Respiratory Systems, Hemodynamics; Also Musculoskeletal System, Conditioning Humans, Typology Acceleration Stress


Cardiovascular and Respiratory Systems, Hemodynamics, Cardiac Humans Acceleration, Coriolis


Cardiovascular and Respiratory Systems, Maximum Oxygen Uptake Humans, Males; Typology Neurological and Hormonal Systems


Key Words: Cardiovascular and Respiratory Systems, Cardiovascular Conditioning, Physical Exercise; Human Performance, Work Capacity


Key words: Cardiovascular and Respiratory Systems, Respiration, Extreme Conditions, Hyperbaria, Stress, Exertion, Hyperthermia
ISSUE 1


Key Words: Cybernetics and Biomedical Data Processing, Biomedical Statistics, Medical Diagnosis

ISSUE 2


Biomedical Data Processing, Human Factors Engineering System Description Man-Machine Systems

   Development, Embryology
   Birds, Quail
   Space Flight, "Salyut-6," Weightlessness


   Key Words: Development, Embryogenesis, Polypeptide Growth Factors; Cytology, Cell Proliferation
   Endocrinology, Stress; Also Hematology
   Rats
   Space Flight, Cosmos-1129 Biosatellite; Immobilization

   Endocrinology; Endurance
   Rats
   Head-down Tilt, Tail Suspension; Hypothermia

   Endocrinology, Circadian Rhythms; Also Reproductive Systems
   Primates, Baboons, Females
   Hypokinesia

   Endocrinology, Thyroid, Parathyroid, Calcium
   Humans, Athletes
   Physical Exercise

   Endocrinology, Catecholamines; Neurophysiology;
   Cardiovascular and Respiratory System, Blood Pressure
   Rats, Individual Differences, Typology
   Stress, Immobilization

   Endocrinology, Aldosterone, Renin
   Humans, Males
   Hypokinesia, Head-down Tilt; Drugs, Beta-blockers

ISSUE 4


   Endocrinology, Adrenal Histology
   Rats
   Immobilization Stress


   Endocrinology, Insulin, Insulin-Receptor Interaction
   Rats
   Disease, Infections, Countermeasures, Indomethacin

Exobiology, Abiogenesis
Review Article
Anabiosis, Dry Land


Key Words: Exobiology, Molecular Evolution, Population Genetics, Silent DNA, Exogenous Influences, Genome, Biosphere


Exobiology, Evolution of Ecosystem
Theoretical Paper
Origin of Life


Exobiology, Abiogenic Synthesis
Biological Precursors, Nucleosides
Space Flight, "Salyut-6," Cosmic Radiation, Long-term Exposure


Key Words: Exobiology, Microbiology, Space Flight Factors
GASTROINTESTINAL SYSTEM

ISSUE 1


Gastrointestinal System, Liver
Humans, Males
Hypokinesia, Bedrest and Head-down Tilt

ISSUE 2


Gastrointestinal System, Lipid Hydrolysis, Liver Function
Humans, Males
Hypokinesia, Head-down Tilt

Genetics, Chromosomes
Humans, Patients
Hypokinesia, Acceleration
GRAVITATIONAL BIOLOGY

ISSUE 3


Gravitational Biology, Physiological Indicators, Musculoskeletal System, Neurophysiology, Endocrinology, Enzymology

Rats

Artificial Gravity, Centrifugation, Long-term
GROUP DYNAMICS

ISSUE 1


   Key Words: Group Dynamics, Occupational, Artificial Intelligence, Psychology, Computer Systems, Simulation

ISSUE 2


   Key Words: Group Dynamics, Group Performance


   Key Words: Group Dynamics, Crew Performance, Psychology, Work Capacity, Work-rest Cycles, Environmental Factors, Noise and Vibration, Personnel Selection
HABITABILITY AND ENVIRONMENT EFFECTS

ISSUE 1


Habitability and Environment Effects, Hygiene, Microbiology, Plants, Space Flight, Salyut-6


Habitability and Environment Effects, Microbiology, Plants, Spacecraft Cabins, Hermetic Seals


Habitability and Environment Effects, Potable Water; Also Life Support Systems, Rats, Life Support Systems, Water Reclamation, Minerals


Habitability and Environment Effects; Also Morphology and Cytology, Mice, Radiobiology, Magnetic Fields


Radiobiology, Habitability and Environment Effects, Hypoxia; Also Cardiovascular and Respiratory Systems, Humans, Typology, Operators, Human Performance

Habitability and Environment Effects, Noise and Ozone
Rats
Medical Effects

ISSUE 2


Habitability and Environment Effects, Gas Composition
Apparatus Description
Volatile Substances

ISSUE 4


Habitability and Environment Effects, Paints, Metalloorganic compounds; Life Support Systems, CELSS
Fungi
Fungicidal Properties


Habitability and Environment Effects, Outgas, Toxicity
Mathematical Modeling
Polymers, Burning
HEALTH AND MEDICAL TREATMENT

ISSUE 1


Health and Medical Treatment, Fitness
Humans, Athletes
Atmosphere, Gas Mixtures


Health and Medical Treatment, Decompression Sickness
Cats
Injuries


Health and Medical Treatment, Decompression Sickness
Tissues
Mathematical Models


Health and Medical Treatment, Medical Trends
Flight Crew
Flight Surgeon

ISSUE 2


Health and Medical Treatment, Electroacupuncture
Humans, Crew, Ship
Work Capacity, Productivity

   Health and Medical Treatment, Oxygen Toxicity; Also Habitability and Environment Effects
   Humans, Individual Differences
   Hyperoxia

ISSUE 3


   Health and Medical Treatment, Skin Lipids
   Humans, Males
   Gas Chromatography

ISSUE 4


   Health and Medical Treatment, Decompression Sickness
   Rats
   Drugs, Surfactants


   Health and Medical Treatment, Ultrasound
   Equipment Development
   Transducer, Piezo; Adhesive
HEMATOLOGY

ISSUE 1


Hematology, Coagulation; Also Metabolism, Lipids
Humans
Physical Exercise, Fitness

ISSUE 2


Hematology, Leukocytes; Also Adaptation
Humans
Statistical Processing, Confidence Intervals


Hematology; Also Habitability and Environment Effects
Rats
Hyperbaric Chambers, Gas Mixture


Hematology
Humans, Males
Hypokinesia, Acceleration


Hematology, Adaptation
Rats
Hematic Hypoxia

- Hematology, Erythrocyte Metabolism
- Humans, Cosmonauts
- Space Flight, Long-term, Salyut-7


- Hematology, Hemostasis Cellular
- Humans, Male, Patients, Hypertension
- Immersion


- Hematology, Erythropoiesis; Also Adaptation, Long-term
- Humans
- High Altitudes


- Key Words: Hematology, Erythropoiesis, Hypoxia

Histology, Spinal cord, RNA, proteins; Also Neurophysiology
Rats
Hypokinesia, Immobilization stress, hypoxia

Key Words: Human Performance, Work Schedules, Rest Periods
IMMUNOLOGY

ISSUE 1


   Immunology; Also Health and Medical Treatment
   Humans
   Research Principles

ISSUE 2


   Immunology; Also Habitability and Environment Effects
   Humans, Males
   Isolation, Hypokinesia, Performance; Drugs

ISSUE 3


   Immunology, Cellular and Humoral
   Humans
   Nutrition, Protein


   Immunology
   Humans, Athletes
   Nutrition, Vitamins


   Immunology, Immunoglobulins; Radiobiology, Radioprotection
   Mice, Rats
   Work Capacity; Autoflora; Higher Nervous Activity
LIFE SUPPORT SYSTEMS

ISSUE 1


   Life Support Systems
   Microbiology, Bacteria; Algae
   Waste Utilization


   Life Support Systems, Closed Ecological Systems
   Insects, Flies
   Chemical Composition


   Key Words: Life Support Systems, Closed Ecological Systems, Environmental Factors, Air Purification, Recovery, Recycling, Reliability, Spacecrew Supplies, Temperature Control

ISSUE 2


ISSUE 3


   Life Support Systems, CELSS
   Botany, Higher Plants, Chufa; Microbiology, Microflora
   Cultivation Conditions

   Life Support Systems, Biomass Growth
   Microbiology, Bacteria, *Bacillus Subtilis*
   Spaceflight, Salyut-6, Weightlessness


   Life Support Systems, CELSS
   Microbiology, Algae, *Closteriopsis acicularis*
   Nitrogen Deficit


   Life Support System, CELSS
   Microbiology, Algae, *Closteriopsis*
   Mineral Requirements


   Life Support Systems, Microecosystems
   Microbiology, Algae, *Chlorella*; Bacteria; Protozoa, *Tetrahymena*
   Light, Peptone

Key Words: Man-Machine Systems, Robotics, Human Factors, Performance

Key Words: Health and Medical Treatment, Diagnosis, Prognosis, Cardiovascular Disease; Mathematical Modeling, Computer Modeling


Key Words: Mathematical Modeling, Biological and Physiological Systems; Health and Medical Treatment, Cardiovascular Systems, Thyroid, Cell Development
METABOLISM

ISSUE 1


Metabolism, Amino Acids; Also Habitability and Environment Effects
Humans
Head-down Tilt and Ultraviolet Radiation


Metabolism, Lipid
Rats
Magnetic Field and Immobilization

ISSUE 2


Metabolism, Liver, Lipogenesis
Rats
Space Flight, Cosmos-1129

ISSUE 3


Metabolism, Lipids
Humans, Pilots
Physical Work Capacity


Metabolism, Amino Acids
Humans
Hypokinesia, Head-down Tilt

   Metabolism, Lipid Peroxidation
   Rats
   Hypokinesia, Immobilization Stress


   Metabolism, Catecholamines
   Humans, Athletes, Mountain Climbers
   Adaptation, High Altitude; Training

ISSUE 4


   Metabolism, Amino Acid
   Rats
   Hypokinesia, Vitamins, 24,25-dihydroxycholecalciferol


   Metabolism, Biogenic Amines; Biological Rhythms
   Humans, Males
   Sleep, Deprivation, Short-term
MICROBIOLOGY

ISSUE 3


   Key Words: Microbiology; Biotechnology, Biochemistry, Genetic Engineering, Cellular Engineering

ISSUE 4


   Microbiology, Viability, Mutability; Also Cytology
   Chlorella
   Space Flight, Salyut-Soyuz, Soyuz-22
MORPHOLOGY AND CYTOLOGY

ISSUE 1


Morphology and Cytology
Primates, Rhesus Monkeys
Hypokinesia, Head-down Tilt


Morphology and Cytology, Lungs; Also Cardiovascular and Respiratory
Primates, Rhesus Monkeys
Hypokinesia, Head-down Tilt

ISSUE 2


Morphology and Cytology, Otolith Organs, Ontogeny; Also Neurophysiology
Frogs
Space Flight, Salyut-6, Weightlessness


Morphology and Cytology, Cytogenetic Parameters
Mammalian Cells, Hamsters
Space flight, Salyut-6
MUSCULOSKELETAL SYSTEM

ISSUE 1


Key Words: Bone Physiology, Space flight, Cosmos biosatellites and Salyut-1 orbital stations, Weightlessness, Radiobiology


Musculoskeletal System; Also Neurophysiology
Humans, Patients
Diseases

ISSUE 2


Musculoskeletal System, Bone Regeneration; Also Hematology, Monocytes
Dogs
Injuries


Musculoskeletal System, Leg Muscles
Rats
Tail Suspension


Musculoskeletal System, Muscles, Tissue Respiration
Chickens
Hypokinesia and Heat

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Musculoskeletal System, Bone Physiology
Space Flight, Cosmos and Salyut-1
Weightlessness
Radiobiology

ISSUE 3


Musculoskeletal System, Motor Control
Humans, Males
Hypokinesia, Immersion


Musculoskeletal System, Osteoporosis
Rats
Immobilization; Nutrition, Vitamin D


Musculoskeletal System, Cardiac and Skeletal Muscles; Also
Endocrinology, Testosterone
Rats, Males
Physical Exercise


Musculoskeletal System, Bone Growth
Children, Rats
Nutrition, Amino Acids


Key Words: Musculoskeletal System; Skeletal Muscles; Hypoxia, High Altitude; Morphology and Cytology

Musculoskeletal System, Muscle Atrophy, Walking
Humans, Males
Hypokinesia, Head-down tilt


Musculoskeletal System, Myofibrils, Contractility
Rats
Artificial Gravity, Centrifugation


Musculoskeletal Muscles, Actomyosin
Rats
Acceleration


Neurophysiology, Vestibular Nystagmus; Musculoskeletal System, Bone Growth
Rats
Artificial Gravity, Centrifugation
NEUROPHYSIOLOGY

ISSUE 1


   Neurophysiology, Motion Sickness
   Humans, Cosmonauts
   Weightlessness, Adaptation


   Neurophysiology, Motion sickness, Vestibular Nystagmus
   Human, Children, Typology
   Adaptation, Training


   Neurophysiology, Brain
   Rats
   Pain Sensitivity


   Key Words: Neurophsyiology, Nystagmus, Motion Sickness, Vestibular Function

ISSUE 2


   Neurophysiology, Motion Sickness, Vestibular Tests, Nystagmus
   Humans, Patients
   Cochleovestibular Pathology

Neurophysiology, Hypokinesia Effects; Also Psychology, Hypokinesia Effects
Humans
Physical Exercise; Electrostimulation; Psychotherapy


Neurophysiology
Humans, Males
Hypokinesia, Countermeasures


Neurophysiology, Vestibular System
Humans, Patients, Deaf
Caloric Irrigation


Neurophysiology, Otolith Organs
Humans
Rotation; Mathematical Modelling


Key Words: Neurophysiology, Cerebellum, Motor Control, Rhythmic Motion


Key Words: Neurophysiology, Nystagmus, Vestibular Function, Motion Sickness

Neurophysiology, Fatigue
Humans, Sailors
Sleep, Electric Sleep; Noise


Neurophysiology, Sensorimotor Cortex; Also Psychology, Experimental Neurosis, Learning
Rats
Noise


Neurophysiology, Vestibular Nystagmus; Musculoskeletal System, Bone Growth
Rats
Artificial Gravity, Centrifugation


Neurophysiology, Histamines
Humans, Males
Hypokinesia, Head-down Tilt, Prolonged


Neurophysiology, Nystagmus, Cervical; Utricular Nerves
Birds, Doves
Acceleration, Angular


Nystagmus, Directional Predominance
Review/Theoretical Article, Patients
Diagnosis

   Neurophysiology, EEG
   Humans, Pilots
   Aging


   Neurophysiology, Motion Sickness
   Human, Sailors
   Health and Medical Treatment, Countermeasures, Acupuncture


   Neurophysiology, Vestibular Nystagmus
   Humans, Pilots
   Asymmetry


   Key Words: Neurophysiology, Cerebral Hemodynamics, Metabolism; Health and Medical Treatment, Shock
NUTRITION


Nutrition, Daily Diets
Flight Crews
Review Article
PERC

PERCEPTION

ISSUE 1


   Perception, Spatial Illusion
   Humans
   Weightlessness, Body Position, Immobilization


   Perception, Illusion; Also Neurophysiology, Nystagmus
   Humans, Males
   Motion Sickness; Drugs


   Perception, Orientation
   Humans
   Motion

ISSUE 3


   Perception, Orientation
   Humans, Pilots
   Visual Displays, Perspective

ISSUE 4


   Key words: Perception, Visual Search, Optical Instruments, Human Performance, Personnel Selection
PERSONNEL SELECTION

ISSUE 1


   Personnel Selection, Self-discipline; Also Psychology
   Humans, Pilots
   Psychological Tests


   Personnel Selection, Operator Performance; Also Perception
   Humans, Air Traffic Controller
   Space Perception


   Key Words: Personnel Selection, Cosmonauts, Psychological Tests, Pilot and Cosmonaut Performance, Electroencephalography, Mathematical Models

ISSUE 4


   Personnel Selection, Physiological
   Humans, Flight Crews
   Functional Asymmetry
PSYCHOLOGY

ISSUE 1


   Psychology, Circadian Rhythms; Also Neurophysiology; Also Human Performance
   Humans, Cosmonauts
   Activity cycles, Work and Rest; Also Space Flight, Salyut-6 and -7


   Psychology, Stress; Also Neurophysiology; Also Human Performance
   Humans, Operators
   Task Complexity, Performance


   Psychology, Mood; Also Neurophysiology
   Humans, Adults
   Monotony, Electroencephalography


   Psychology, Aerospace
   Humans, Cosmonauts, Pilots
   Conferences


   Psychology, Sleep, Electroencephalography; Also Neurophysiology
   Humans, Adults
   Human Performance, Mental Tasks
   Psychology; Human Performance
   Humans, Pilots and Cadets
   Psychological Tests

   Psychology; Human Performance, Evaluation; Health and Medical Treatment, Flight Surgeon
   Humans, Pilots
   Trends

   Key Words: Psychology, Functional Studies, Human Performance, Circadian Rhythms

ISSUE 3

   Psychology, Stress
   Pilots; Patients, Functional Disorders
   Personnel Selection, Training Simulator Performance

    Psychology, Human Performance, Psychomotor
    Humans, Pilots
    Stress, Anxiety Level

    Psychology, Functional Status
    Human Performance, Humans, Workers, Sex Differences
    Physical Exertion; Monotony

Psychology, Stress, Emotional; Human Performance
Humans, Workers
GSR
ISSUE 1


Key Words: Radiobiology, Radiation

ISSUE 2


Radiobiology; Also Hematology, Bone Marrow
Rats and Dogs
Adaptation, High Altitude


Radiobiology, Microwaves
Humans
Dosage, Risk


Radiobiology, Radiation Tolerance
Tortoises
Mortality Rate; Stochastic Processes


Radiobiology, Radiation Tolerance
Rats
Biological Rhythms; Mortality Rate


Radiobiology, Mitosis; Also Botany
Botany, Pea, Root Meristem
Radioprotective Agent, Ethylene

Radiobiology, Antiradiation Drugs, Gammaphos
Mice
Toxicity, Radioprotective Efficacy


Key Words: Radiobiology, Hadrons, HZE, Dosimetry, Cytology, Mammals, Plants, Perception, Visual sensation, Space flight, Salyut-6


Key Words: Radiobiology, Oxygen Effect, Cytology

ISSUE 3


Radiobiology, X-rays
Botany, Peas, Mitochondria
Calcium Binding


Radiobiology, Lymphocytes
Rats
Hypokinesia

ISSUE 4


Radiobiology, Brain Tissue; Also Neurophysiology, Histology
Rats
Space Flight, Kosmos; HZE

Radiobiology  
Botany, Lettuce, Seeds  
Space Flight, Salyut-6, Kosmos; HZE


Radiobiology, Irradiation  
Rats  
Enzymology, Pituitary, Redox


Key Words: Radiobiology, Galactic and Solar Radiation


Key Words: Radiobiology; Cardiovascular and Respiratory Systems, Vascular Damage


Key Words: Radiobiology, Cosmic Rays, Corpuscular Radiation, Near-earth Space


Key Words: Radiobiology, Radiation Safety, Space Crews
REPRODUCTIVE SYSTEM

ISSUE 1


Reproductive System, Pregnancy, Ontogeny, Rats, Mothers, Neonates, Space Flight, Cosmos-1514 Biosatellite

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   Key Words: Space Biology, Space Flight, Salyut, Genetics, Embryology, Botany, Higher Plants, Lower Plants, Zoology, Insects, Vertebrates, Radiobiology
 SPACE PHYSIOLOGY

ISSUE 3

1. M29(10/85) Gasanov GG, editor in chief. XIV S'yezd vsesoynzno
fiziologicheskogo obshchestva imeni I.P. Pavlov [(Proceedings of) the]
XIVth Conference of the I.P. Pavlov All-Union Physiological Society;

Key Words: Cybernetics, Psychology, Health and Medical
Treatment, Cardiovascular and Respiratory Systems, Genetics,
Neurophysiology, Human Performance, Musculoskeletal System,
Mathematical Monitoring, Adaptation, Nutrition,
Endocrinology, Metabolism, Biological Rhythms
SECTION 2
USSR SPACE LIFE SCIENCES DIGEST
TOPIC/CATEGORY CROSS REFERENCE INDEX

ADAPTATION (ADAP)

BIOS: 7; CDRS: 9, 23; HEMA: 2, 5, 8; META: 7; MUSC: 6, 13, 15; NEUR: 2, 14; RADI: 2; SPPH: 1

BIOLOGICAL RHYTHMS (BIORHYTHMS) (BIOR)

BIOS: 7; BODF: 6; ENDO: 3; META: 9; PSYC: 1, 8; RADI: 5; SPPH: 1

BIOSPHERICS (BIOS)

EXOB: 2

BOTANY (BOTA)

LFSP: 1, 5, 7, 8; RADI: 6, 8, 10, 13; SPBI: 1

CARDIOVASCULAR AND RESPIRATORY SYSTEMS (CDRS)

BIOS: 6; BODF: 8; ENDO: 5; HAEN: 5; HEAL: 1; MATH: 1, 2; MPHC: 2; MUSC: 9; SPPH: 1

CYBERNETICS/BIOMEDICAL DATA PROCESSING (CYBM)

CDRS: 19; GPDY: 1; MATH: 1; SPPH: 1

DEVELOPMENT (DEVE)

BOTA: 5, 6; LFSP: 7; REPR: 1

ENDOCRINOLOGY (ENDO)

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