USSR Space Life Sciences Digest

Index to Issues 1–4

Ronald Teeter and Lydia Razran Hooke

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Index to Issues 1–4

Ronald Teeter and Lydia Razran Hooke
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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  Neuropsychology
NUTR  Nutrition
PERC  Perception
PERS  Personnel Selection
PSYC  Psychology
RADI  Radiobiology
REPR  Reproductive System
SPBI  Space Biology
SPPH  Space Physiology
ADAPTATION

ISSUE 2


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


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

ISSUE 4


- 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: Biospherics, 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 Exchange
   Humans, Males
   Hypokinesia, Horizontal, Head-down Tilt
   - Botany
   - Higher Plants, Corn
   - Moisture

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

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

   - 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, 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, 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

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


   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
EXOB

EXOBIOLOGY

ISSUE 3


Exobiology, Abiogenesis
Review Article
Anabiosis, Dry Land


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

ISSUE 4


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
HAEN

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

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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
HUMAN PERFORMANCE

ISSUE 4


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


   Key Words: Life Support Systems
   Microbiology, Bacteria; Algae
   Waste Utilization


   Key Words: 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


   Key Words: 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: Neurophysiology, 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, Daily Diets
Flight Crews
Review Article
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, 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, 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

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REPRODUCTIVE SYSTEM

ISSUE 1


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

ISSUE 1


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

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)

BODF: 1, 8; CDRS: 21; GRAV: 1; MATH: 2; MUSC: 9; RADI: 14

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This document is an index to issues 1-4 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. Refer to section 1 for titles and other pertinent information. Key words are indexed in section 3.
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