

X38

(NY-6503)

THE TASKS OF PHYSIOLOGICAL CHEMISTRY IN THE
LIGHT OF THE NEW PROGRAM OF THE COMMUNIST
PARTY USSR, BY N. N. YAKOVLEV, 8 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR IMENI
I. M. SECHENOVA, VOL XLVIII, NO 2, 1962,
PP 121-125.

JPRS 14069

SCI - CHEM, PHYS
JUN 62

199,140

Kovalenko, E. A.
THE EFFECT OF HIGHLY RAREFIED ATMOSPHERE
ON OXYGEN TENSION IN BRAIN TISSUE. [1962] [25]p.
18 refs. FASEB manuscript no. S 2-2.
Order from OTS or SLA \$2.60 63-15428

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48,
no. 2, p. 150-158.
Another trans. is available from OTS or SLA \$1.60 as
62-20306 [1962] [16]p.

DESCRIPTORS: *Oxygen, *Brain, *High altitude, .
Atmosphere, Anoxia.

Seventeen to twenty-five seconds after dogs are exposed
to an "altitude" of 15,000 m, muscles relax, position
reflexes are lost, and collapse ensues: after 55 to 105
sec complete respiratory standstill sets in, indicating
the outermost limit of time that the animals can remain
at the "altitude" before irreversible changes take place.
(Biological Sciences--Physiology, TT, v. 9, no. 9) (over)

63-15428

- I. Kovalenko, E. A.
- II. FASEB S-2-2
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

SLA 62-20306

Office of Technical Services

Optimum Conditions for Recording
Electroplethysmograms of Parts and Organs of the
Human Body, by Yu. Ye. Moskalenko, 8 pp.
RUSSIAN, per, Fiziol Zhur SSSR imeni I. M. Sechenova,
Vol XLVIII, No 2, 1962, pp 214-218. 9221167
NASA TT F-203

Sci - Biol & Med Sci
Jun 64

259,822

CHANGE IN THE BIOELECTRICAL ACTIVITY OF VARIOUS
BRAIN REGIONS OF CATS AND DOGS ON EXPOSURE TO
CARBON DIOXIDE, BY YU. N. IVANOV, 20 PP.

RUSSIAN, PER, FIZIOLOG ZHUR SSSR IMENI
I. M. SECHENOVA, VOL XLVIII, NO 3, 1962,
PP 279-289. 9665780

FTD-TT-62-773

SCI - MED
JUL 62

204,474

Reflex Changes in the Vessels of the Mucosa
of the Small Intestine and Activity of the Villi
in the Absorption Process, by N. Barmikova.

RUSSIAN, per, Fiziol Zh SSSR Sechenov, Vol 48,
No 3, 1962, pp 324-330.

HEW NIH

4-26-68

Sci/B & H
June 68

358,330

SCIENTIFIC CONGRESS ALL-UNION CONFERENCE ON THE
PHYSIOLOGY AND PATHOLOGY OF RESPIRATION, BY
M. V. SERGIEVSKIY, 9 PP.

RUSSIAN, PER, FIZIOL. ZHUR. SSSR IMENI I. M.
SECHENOVA, VOL XLVIII, NO 3, 1962, PP 368-370.
9666268

FTD-TT-62-995

SCI - MED
SEP 62

210,147

63-15427

Yurasov, V. F.
CEREBRAL AND VISCERAL TEMPERATURE REAC-
TIONS TO COOLING OF DIFFERENT PARTS OF THE
CENTRAL NERVOUS SYSTEM. [1962] [28]p. 34 refs.
FASEB manuscript no. S 9-2.
Order from OTS or SLA \$2.60 63-15427

Trans. of Fiziologicheskii Zhurnal SSSR, 1962, v. 48,
no. 4, p. 413-421.

DESCRIPTORS: *Hypothermia, Adaptation (Physiology),
*Brain, Spinal cord, Cerebral cortex, *Body tempera-
ture, Nervous system.

Regardless of the place where the CNS is cooled, and
other things being equal, the temperature drop is most
pronounced and rapid on the upper level of the brain
(cortex), less so in the middle level and least of all in
the lower level. The temperature reactions of the
viscera vary with the region cooled, and the reactions
(Biological Sciences--Physiology, TT, v. 9, no. 10) over

- I. Title: Viscera
- I. Yurasov, V. F.
- II. FASEB S-9-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

ORIGINATION OF COMPLEX PERIODICAL RESPIRATION AT
RHYTHMICAL STIMULATION OF RECEPTORS OF THE SINO-
CAROTID ZONE AT MOUNTAIN HEIGHTS, BY B. TURUSBKOV,
8 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR IMENI I. M. SECHENOVA,
NO 4, 1962, PP 444-448. 9678225
VOL XLVIII,

FTD-TT-62-962

SCI - MED
11 OCT 62

212,329

RESPIRATION AT HIGHER PRESSURES AND OXYGEN TENSION
IN BRAIN TISSUES, BY YE. A. KOVALENKO,
F. V. BABCHINSKIY, 10 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR IMENI I. M. SECHENOVA,
VOL XLVIII, NO 4, 1962, PP 449-454. 9670225

FTD-TT-62-962

NIH 9-32-63

SCI - MED
11 OCT 62

212,330

Physiological Changes in an Organism as a Result
of Breathing a High Oxygen-Low Carbon Dioxide
Gas Mixture for Many Hours at Rest and during
Exercise, by S. A. Brandis, V. M. Pilevitskaya.
1964.

MOON, R. R., 112 2nd St SW, Box 147411, NW
1962, pp 153-163. 0080007

FTD-IT-62-1176

Sci. & Med. Sci
Apr 62

BXM

SYMPOSIUM ON PROBLEMS OF FATIGUE AND RECOVERY OF
FITNESS, BY N. V. ZIMKIN, 8 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR, IMENI I. M. SECHNEVA,
VOL XLVIII, NO 4, 1962, PP 499-501. 9678225

FTD-TT-62-962

SCI - MED
11 OCT 62

also
JPRS 16122 212,331

Shilling, N. V.
BIOELECTRICAL ACTIVITY IN DIFFERENT PARTS
OF THE RABBIT'S NERVOUS SYSTEM IN RESPONSE
TO STIMULATION OF THE VISUAL ANALYSOR.
[1962] [14]p. 15 refs. FASEB manuscript no. S 359-2.
Order from OTS or SLA \$1.60 63-19019

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48,
no. 5, p. 587-592.

DESCRIPTORS: *Bioelectronics, *Nervous system,
Rabbits, Stimulation, Reaction (Psychology),
Brain, Visual perception, *Analyzers (Psychology),
*Vision, Autonomic nervous system

Recordings of the electric activity in the occipital cor-
tex, the hypothalamic region, the cerebellum and the
upper cervical sympathetic ganglion under the influence
of a flicker stimulus have shown that all the parts of
the nervous system are involved in the response reac-
(Biological Sciences--Physiology, TT, v. 9, no. 10)
(over)

63-19019

- I. Shilling, N. V.
- II. FASEB S-359-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Sergievskii, M. V. and Ivanov, Yu. N.
ON THE PROBLEM OF SLEEP (EXPERIMENTS ON
ANIMALS DEPRIVED OF THE THREE PAIRS OF
DISTANCE RECEPTORS/I.E., VISION, HEARING
AND SMELL/). [1963] [32]p. 22 refs. FASEB manu-
script no. S 86-3. 63-19356
Order from OTS or SLA \$3.60

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962,
v. 48, no. 6, p. 646-653.

DESCRIPTORS: *Sleep, Laboratory animals, Sensory
mechanisms, *Vision, *Hearing, *Smell, Sensitivity,
Reflexes, Respiratory system, Cardiovascular sys-
tem, *Brain, Morphology, Stimulation, Skin,
Bioelectronics, Surgery, Caffeine, Cerebral cortex.

(Biological Sciences--Physiology. TT. v. 10, no. 5)

63-19356

- I. Sergievskii, M. V.
- II. Ivanov, Yu. N.
- III. Title: Experiments...
- IV. FASEB S-86-3
- V. Federation of American
Societies for
Experimental Biology,
Washington, D. C.
- VI. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Taranenko, A. G.
THE EFFECT OF THYROID GLAND ON THE
CASEIN CONTENT OF THE MILK AND ON ITS
AMINO ACID COMPOSITION. [1962] [13]p. 14 refs.
FASEB manuscript no. S 243-2.
Order from OTS or SLA \$1.60

63-19011

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48,
no. 6, p. 742-747.

DESCRIPTORS: *Thyroid gland, *Casein, *Milk,
*Amino acids, Fats, *Mammary glands, Iodine, *Diet.

Experiments were performed on 5 lactating goats to
determine the effect of thyroid hormone thyroxin and of
efferent innervation of the mammary gland on the con-
tent of fat and casein in milk and on the amino-acid
composition of casein. The goats were fed iodinated
casein which resulted in an increased fat content and a
(Biological Sciences--Physiology, TT, v. 10, no. 6)
(over)

63-19011

- I. Taranenko, A. G.
- II. FASEB S-243-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Afar, Ya. M. and Rogozhia, V. A.
THE EFFECT OF CASEIN HYDROLYZATE ON
CARBOHYDRATE-PHOSPHORUS METABOLISM
DURING PROLONGED PHYSICAL EFFORT. [1962]
[15]p. 9 refs. FASEB manuscript no. S 245-2.
Order from OTS or SLA \$1.60 63-19012

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962,
v. 48, no. 6, p. 754-759.

DESCRIPTORS: *Casein, Carbohydrates, Phosphates,
Adenosine phosphates, Phosphorus, *Metabolism,
Exercise, *Muscles, Lactic acid, Glucose.

A commercial casein was hydrolyzed with 6N HCl
for 12 hours. The resulting hydrolyzate contained
13.4% nitrogen or 85% of the nitrogen in casein,
0.28% phosphorus and all 18 amino acids in casein.
Albino rats were made to swim in water at 30 to 32° for 5
(Biological Sciences--Biochemistry, TT, v. 10, no. 7)
(over)

63-19012

- I. Afar, Ya. M.
- II. Rogozhia, V. A.
- III. FASEB S-245-2
- IV. Federation of American
Societies for
Experimental Biology,
Washington, D. C.
- V. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

63-19020

Klimova-Cherkasova, V. I.
CHANGES IN AUTONOMIC TONE AFTER STIMULA-
TION AND INJURY OF VARIOUS BRAIN STEM SITES.
[1962] [17]p. 20 refs. FASEB manuscript no. S 267-2.
Order from OTS or SLA \$1.60 63-19020

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48,
no. 7, p. 813-822.

DESCRIPTORS: *Autonomic nervous system, *Brain,
*Hypothalamus, *Thalamus, Stimulation, Injuries,
Heart, *Epinephrine, *Chlorpromazine,

Various regions of the brain were stimulated or injured
to study the extent to which various levels of the retic-
ular formation participate in the regulation of vagal
tone in unanesthetized animals with species differences
in the parasympathetic effects on the heart. Stimula-
tion for 10 to 20 seconds of the hypothalamus and the
(Biological Sciences--Physiology, TT, v. 10, no. 6)
(over)

- I. Klimova-Cherkasova,
V. I.
- II. FASEB S-267-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Fanardzhyan, V. V.
INTERACTION OF AFFERENT SYSTEMS OF THE
CEREBELLUM. 1963, 5p
Order from FASER in Federation Proceedings, 1963,
v. 22, no. 5, pt. 2, \$2.00

Trans. of Fiziologicheskii Zhurnal SSSR, 1962, v. 48,
no. 7, p. 823ff. (Abstract available)

DESCRIPTORS: *Bioelectronics, *Cerebellum, *Neuro-
muscular transmission, Nerves, *Motor reactions,
Brain, Stimulation

The experiments have shown that the cutaneous and
muscle afferent systems to a varying extent (according
to the width of the projection field) are represented in
the cerebellar cortex of Nembutalized and decerebrate
cats. Moreover, a difference was detected in the inter-
action of the afferent impulses. In animals under deep
(Biological Sciences, TT, v. 11, no. 1) (over)

TT-63-17973-5
(p. T982-T986)

- I. Fanardzhyan, V. V.
- II. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.

Office of Technical Services

Marita, A. M.

THE EFFECT OF HUNGER AND SATIATION ON THE ELECTRICAL ACTIVITY OF THE RETICULAR FORMATION AND CEREBRAL CORTEX. [1962] [1962]

14 refs. FASEB manuscript no. S 247-2.

Order from OTS or SLA \$1.10

63-19013

Trans. of Fiziologicheskii Zhurnal SSSR, 1962, v. 49, no. 8, p. 839-892

DESCRIPTORS: *Appetite, *Starvation, *Bioelectrodes, *Brain, *Cerebral cortex, Conditioned reflex, Adaptation (Physiology)

The electrical activity of the reticular formation and cerebral cortex of starving animals differs appreciably from the activity taking place after satiation. The electrical activity of the reticular formation and cortex during relative starvation (for 24 hours) is inconstant. Depending on the state of the brain function, a sound (Biological Sciences--Physiology, TT, v. 9, no. 10)(over)

63-19013

- I. Marita, A. M.
- II. FASEB S-247-2
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

63-19017

Vedyshev, F. P.
THE ROLE OF FUNCTIONAL-STATE PARAMETERS
IN THE PRODUCTION OF REACTIONS OF SUB-
CORTICAL ORIGIN. [1962][20]p. 22 refs. FASEB
manuscript no. S 264-2.
Order from OTS or SLA \$1.60

63-19017

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962,
v. 48, no. 5, p. 942-952.

DESCRIPTORS: Reaction (Psychology), *Cerebral
cortex, *Brain, *Nervous systems, Nerves, Auto-
nomic nervous system, *Reflexes, Stimulation,
Electrodes, Test methods, *Neuromuscular transmis-
sion, Adaptation (Physiology), *Motor reactions.

When various subcortical structures are stimulated,
three types of reactions are seen: conducting-fiber
reactions, highly complex unconditioned reactions, and
(Biological Sciences--Physiology, TT, v. 9, no. 12)
(over)

- I. Vedyshev, F. P.
- II. FASEB S-264-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Utyanov, M. I.
THE NERVOUS REGULATION OF THE BLOOD SYSTEM [1962] 117p. 12 refs. FASEB manuscript no. S-250-2.
Order from OES or SIA \$11.60

63-19014

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48, no. 8, p. 976-982.

DESCRIPTORS: *Nervous system, *Cerebral cortex, Blood, *Blood cells, Adaptation (Physiology), *Hemopoietic system, Erythrocytes, Leucocytes, Bone marrow, *Conditioned reflex, Reflexes, Reticuloendothelial system.

Convincing evidence was obtained which indicates that the motor-defensive reaction in dogs is accompanied by changes in the composition of the leukocytes and erythrocytes of the peripheral blood. The speed with which these changes develop their short duration and (Biological Sciences - Physiology, TT, v. 9, no. 10) (over)

63-19014

- I. Utyanov, M. I.
- II. FASEB S-250-2
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

A Method for Investigating the Physiology of Absorption and Movement in the Small Intestine of Birds, by V. V. Li and A. Ch. Li, 9 p.
RUSSIAN, per, Fiziologicheskii Zhurnal SSSR,
Vol XLVIII, No 8, 1962, pp 997-999.
NLL RTS-3153

Sci-B&M

Jun 66

303,650

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Batuev, A. S.
THE EFFECT OF CHLORPROMAZINE ON THE
REFLECTION OF LIGHT AND SOUND STIMULI IN
THE EEG OF THE FRONTAL CORTEX IN THE
RABBIT. [1963] [14]p. 29 refs. FASEB manuscript
no. S 273-2.

Order from OTS or SLA \$1.60

63-19391

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962,
v. 48, no. 9, p. 1010-1016.

DESCRIPTORS: *Chlorpromazine, Reflection, *Light,
*Sound, Electroencephalography, *Cerebral cortex,
Rabbits, Brain, Stimulation.

Injection of chlorpromazine into a rabbit in a dose of
3-5 mg/kg leads to suppression of the changes in the
EEG of the frontal region of the cortex in response to
a sound stimulus, while preserving those in response
(Biological Sciences--Pharmacology, TT, v. 10, no. 5)
(over)

63-19391

- I. Batuev, A. S.
- II. FASEB S-273-2
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Sheveleva, V. S.
EVOLUTION OF THE FUNCTION OF SYMPATHETIC
GANGLIA IN MYOGENESIS. [1963] [24]p. 26 refs.
FASEB manuscript no. S-277-2.
Order from OIS or SLA \$2.60 63-19392

Trans. of Fiziologicheskii Zhurnal SSSR, 1962,
v. 48, no. 7, p. 1051-1069.

DESCRIPTORS: *Evolution, *Autonomic nervous
system, *Ganglia, Rabbits, Growth, *Neuroelectronics,
Brain, Spinal cord, Cells (Biology), Biochemistry,
Acetylcholine.

An investigation was conducted on the character of the
"spontaneous" and reflex electrical activity of the
sympathetic ganglia during ontogenesis, with
emphasis on the details of the interneuronal trans-
mission of excitation in their synapses. The changes
(Biological Sciences--Physiology, TT, v. 10, no. 5)
(over)

63-19392

- I. Title: Ontogenesis
1. Sheveleva, V. S.
- II. FASEB S-277-2
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Pudel'-Osipova, S. I.
AGE CHANGES IN THE EXCITABILITY AND FUNCTIONAL MOBILITY OF THE NEUROMUSCULAR APPARATUS OF WARM-BLOODED ANIMALS. [1963] [14]p. 18 refs. FASEB manuscript no. S 280-2.
Order from OTS or SLA \$1.60 63-19393

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48, no. 9, p. 1099-1104.

DESCRIPTORS: *Aging (Physiology), Excitation, *Neuromuscular transmission, Physiology, *Animals, Stimulation.

(Biological Sciences--Physiology, TT, v. 10, no. 5)

63-19393

- I. Pudel'-Osipova, S. I.
- II. FASEB S-280-2
- III. Federation of American Societies for Experimental Biology, Washington, D.C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

63-19394

Yakovlev, N. N., Kaledin, S. V. and others.
A PHYSIOLOGICAL AND CHEMICAL ANALYSIS OF
ADAPTATION TO SHORT PERIODS OF INTENSIVE
MUSCULAR ACTIVITY IN ADOLESCENTS. [1963]
[17]p. 22 refs. FASEB manuscript no. S 281-2.
Order from OTS or SLA \$1.60 63-19394

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48,
no. 9, p. 1105-1112.

DESCRIPTORS: Chemical analysis, *Muscles, *Adapta-
tion (Physiology), *Exercise, Training, *Glycolysis,
Energy.

High-speed exercises, carried out in the absence of a
stable state, are responsible not only for greater
physiological and chemical changes in the body, but
also for the more rapid restitution than is found after
the same exercises in a stable state. During intensive
(Biological Sciences--Biochemistry, TT, v. 10, no. 5)
(over)

- I. Yakovlev, N. N.
- II. Kaledin, S. V.
- III. FASEB S-281-2
- IV. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- V. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Effect of Compensation of Excessive Intrapulmonary
Pressure on Oxygen Intensity in Brain ~~TISSUES~~
Tissues ~~AND~~ During Ascents to Higher Altitudes,
by Ye. A. Kovalenko, F. V. Babinskiy, 9 pp.

RUSSIAN, per, Fiziologicheskii Zhur SSSR,
Vol XLVIII, No 10, 1962, ~~XXXXXXXXXX~~ 9667811

FTD-TT-62-1593

Sci-Med
Mar 63

223668

On the Mechanism of Increasing the Resistance
of Rats to Deep Hypoxic-Hypercapnic Hypothermia
Under the Influence of Preliminary Training,
11 pp.

RUSSIAN, par, Fiziologicheskii Zhur SSSR,
Vol XLVIII, No 10, 1962, №. 9667811

FTD-TT-62-1993

Sci-Med
Mar 63

223669

Gerahud, G. V. and Zaboeva, N. V.
EVALUATION OF FUNCTIONAL SIGNIFICANCE OF
AUDITORY SYSTEM RESPONSES TO EXPO-
NENTIALLY INCREASING WIDE-BAND NOISES AND
TONES. Mar/Apr 64, 5p 4refs
Order from FASEB \$2.00 in Federation Proceeding;
Translation Supplement, 1964, v. 23, no. 2 (p. T275-
T279)

Trans. of Fiziologicheskii Zhurnal SSSR, 1962,
v. 48, no. 10, p. 1178d.

DESCRIPTORS: *Hearing, Reaction (Psychology),
Soundband, Noise, *Sensory mechanisms, Sound,
*Audiometry, *Thresholds (Physiology)

(Biological Sciences--Physiology, TT, v. 11, no. 10)

TT-64-12541-2 (p. T275-T279)

- I. Gerahud, G. V.
- II. Zaboeva, N. V.
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.

Office of Technical Services

Variations of Blood Sugar and Lactic Acid
Levels in Athletes Performing Standard Tasks
with the Establishment of Good Form,
by N. N. Yakovlev, A. F. Krasnova.
RUSSIAN, per, Fiz Zhur, Vol XLVIII, No 10,
1962, pp 1265-1269.
NLL RTS-2885

Sci - B/M
Jul 66

302,407

Kostyuk, P. G.
FUNCTIONAL PRESYNAPTIC AND POSTSYNAPTIC
CHANGES DURING DEGENERATION OF CENTRAL
SYNAPSES. Nov/Dec 63, 6p 40refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, v. 22, no. 6, p. 11,
p. T1101-T1106

Trans. of Fiziologicheskii Zhurnal SSSR, 1962,
v. 48, no. 11, p. 13167.

DESCRIPTORS: *Nerve cells, *Atrophy, Brain,
Spinal cord, *Neuromuscular transmission,
Bioelectronics, *Motor reactions, Regeneration,
Nervous system.

(Biological Sciences--Physiology, TT, v. 11, no. 10)

TT-63-17973-6
(p. T1101-T1106)

I. Kostyuk, P. G.
II. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.

Office of Technical Services

Kuznik, B. I.
EFFECT OF DISINTEGRATED HUMAN ERYTHROCYTES ON BLOOD COAGULATION. [1963] [30p]
26 refs FASEB Manuscript no. S 6-3.
Order from OTS, SLA, or ETC \$2.60 TT-63-23847

Trans. of *Fiziologicheskii Zhurnal SSSR, 1962,
v. 48, no. 11, p. 1382-1391 (Abstract available)

DESCRIPTORS: *Erythrocytes, *Blood coagulation,
Prothrombin, Fibrinogen.

Disintegrated erythrocytes markedly increase the degree of thrombotest and accelerate coagulation time and recalcification time. This influence does not arise from the activating effect of hemolysates on the blood platelets because it is also manifested in plasma with a low thrombocyte content. Erythrocytes contain thromboplastic, antithromboplastic, antiheparin, and (Biological Sciences--Physiology, TT, v. 11, no. 5)
(over)

TT-63-23847

- I. Kuznik, B. I.
- II. FASEB S-6-3
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

Korostovaeva, N. V.

THE ACCLIMATIZATION PROGRAM AND SOME INDICES OF ACCLIMATIZATION OF RATS TO DEEP ANOXIC-HYPERCAPNIC HYPOTHERMIA. [1963] [11] p. 2 refs. FASEB manuscript no. S 29-3. Order from OTS or SLA \$1.60 63-23057

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48, no. 12, p. 1466-1471.

DESCRIPTORS: *Acclimatization, Adaptation (Physiology), Rats, *Hypoxia, *Hypothermia, Ecology, *Hypercapnia, Oxygen consumption, Tolerances (Physiology).

The choice of an acclimatization program for rats to deep anoxic-hypercapnic hypothermia is made difficult by the considerable individual variations in metabolism; the best results are obtained by three periods of (Biological Sciences--Physiology. TT, v. 10, no. 7) (over)

63-23057

- I. Korostovaeva, N. V.
- II. FASEB S-29-3
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

Novikova, A. I.
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FASEB Manuscript no. S 33-3.
Order from OTS, SLA, or ETC \$1.60 TT-63-23878

Trans. of *Fiziologicheskii Zhurnal SSSR, 1962,
v. 48, no. 12, p. 1504-1507. (Abstract available)

DESCRIPTORS: *Aging (Physiology), *Muscles,
Musculoskeletal system, *Membranes (Biology),
Bioelectrons.

In the early postnatal period the MP value is low
(average 23.7 mV in newborn animals) and it reaches
the typical adult level at the age of 1 month. During
all subsequent periods of ontogenesis (3 months, 2
years), the MP remains unchanged. (Author)

(Biological Sciences--Physiology, TT, v. 11, no. 5)

TT-63-23878

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DESCRIPTORS: Bioelectronics, Cerebrum, *Cerebral cortex, Electric potential, Electroencephalography, Hearing.

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JPRS 17385

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(p. T88-T92)

Trans. of Fiziologicheskii Zhurnal SSSR, 1963, v. 49,
no. 1, p. 427.

DESCRIPTORS: *Thalamus, Immunity, *Antigens and
antibodies, Brain.

(Biological Sciences--Physiology, TT, v. 11, no. 10)

TT-64-12541-1 (p. T88-T92)

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DESCRIPTORS: Nerves, *Autonomic nervous system,
*Insecta. Wings, Muscles, Flight, Motion, Control
systems

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TT-64-12541-2 (p. T213-T217)

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Trans. of Fiziologicheskii Zhurnal SSSR, 1963, v. 49, no. 1, p. 357.

DESCRIPTORS: *Epithelium, *Blood vessels, Moisture, *Secretion

(Biological Sciences--Physiology, TT, v. 11, no. 10)

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T251)

Trans. of Fiziologicheskii Zhurnal SSSR, 1963, v. 49,
no. 3, p. 269ff.

DESCRIPTORS: *Electric potential, *Cerebral cortex,
*Sensory mechanisms, Motor reactions, Electro-
encephalography, Cats, *Growth (Physiology), Nerves

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TT-64-12541-2 (p. T247-T251)

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T259)

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no. 3, p. 23111.

DESCRIPTORS: Stimulation, *Cerebral cortex,
*Thalamus, Nuclei (Biology), Control systems, Elec-
troencephalography, *Neuromuscular transmission

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HEW NIH
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DESCRIPTORS: *Hematology, Dogs, Hemoglobin,
Erythrocytes, Blood coagulation, Laboratory animals.

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T234)

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DESCRIPTORS: *Amphibians, *Bioelectronics, Vision,
Eye, *Retina, *End organs

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DESCRIPTORS: *Body temperature, *Infants, *Shivering, Animals, Control systems, Adaptation (Physiology)

(Biological Sciences--Physiology, TT, v. 11, no. 9)

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DESCRIPTORS: Evolution, Nervous system, *Pisces, *End organs, *Cerebellum, Neuromuscular transmission, *Adaptation (Physiology), Environment, Hydrostatic pressure

(Biological Sciences--Physiology, TT, v. 11, no. 10)

TT-64-12541-2 (p. T222-T226)

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