

PRESKURINA, E. M.

E. N. Preskurina

I. S. Astanovich

The ashkhabad Astrophysical Laboratory

Astronomical Journal

Academy of Sci. USSR, Moscow
Vol. 28, No. 4, July-August 1951, pp. 276-284.

From: Monthly List of Russian Accessions
September 1951, Vol. 4, No. 4, p. 19

DYKOVA, H.; PRESL, J., kand. lek. ved.: POSPISIL, J.; KLETECKA, P., Technicka
spoluprace: Hejna, A., Fatinova, B.

Tissue reactions to certain types of suture material in rats. Cesk.
gyn. 24[38] no.9:716-722 Nov. 1959.

1. Ustav pro peci o matku a dite v Praze-Podoli, reditel prof. dr.
J. Trapl.
(UTERUS, surg.) (SUTURES)

PRESL, Jiri; KLETECKA, Pravdomil

Phenobarbital and the effect of estrogens on the adrenal cortex
in rats. Cas. lek. cesk. 99 no.27:838-842 1 Jl '60.

1. Ustav pro peci o matku a dite v Praze, reditel doc. MUDr. M.
Vojta.

(ADRENAL CORTEX pharmacol.)
(PHENOBARBITAL pharmacol.)
(DIETHYLISTILBESTROL pharmacol.)

YUGOSLAVIA/Human and Animal Physiology - Blood.

v-4

Abs Jour : Ref Zhur - Biol., No 1, 1958, 3838

Author : J. Presl

Inst :

Title : On Changes in Hemopoiesis after Gastric Operations.

Orig Pub : Zdravstv. vestn., 1957, 26, Nos 1,267-71

Abstract : No abstract.

Card 1/1

PRESL, Jiri

Hemorrhage in 3d stage of labor. Cesk. gyn. 23[37] no.6:425-429
Aug 58.

1. UPMD Praha-Podoli, reditel prof. Dr. Jiri Trapl, nositel Radu
republiky. J. P., Praha-Podoli, nabr. K. Marxe 394.
(LABOR, Hemorrh.
in 3d stage (Cz))

HORSKY, J., doc. dr., DrSc.; PRESL, J.; HINZL, M.

Charvat's index after ACTH and present possibilities of a more exact diagnosis of the Stein-Leventhal syndrome. Cesk. gynek. 44 no.3:156-160 Ap'65.

1. Ustav pro peci o matku a dite v Praze (zat. reditel: doc. dr. J. Horsky, DrSc.). 2. Horsky's address: Praha-Podoli, nabr. K. Marxe 157).

PRESL, J.; HORSKY, J.; HENZL, M.

Relations between the ovaries and the diencephalon-hypophysial system
in early ontogenesis. Cesk. fysiol. 11 no.4:292-313 '62.

1. Ustav pro peci o matku a dite, Praha.
(OVARY physiol) (DIENCEPHALON physiol)
(PITUITARY GLAND physiol)

PRESL, J.; JIRASEK, J.; HORSKY, J. doc. dr., DrSc.; HENZL, M.

Sensitivity of the vaginal mucosa of rats in the early post-natal period. Cesk. gynek. 30 no.4:248-250 My'65.

1. Ustav pro peci o matku a dite v Praze (reditel: doc. dr. J. Horaky, DrSc.).

MALEK, J. doc.; TRNKA, V., dr. Sc, doc.; CEPELAK, J., C.Sc.; DYKOVA, H.;
HONTELA, S.; PRESL, J.; STERBA, R., C.Sc.

Therapy and prevention of diencephalo-pituitary disorders in gynecology.
Cesk. gyn. 26[40] no.8:623-628 Jl '61.

1. I por.-gyn. klinika fakulty vseobechneho lekarstvi KU, prednosta
prof. dr.K.Klaus Ustav pro peci o matku a dite v Praze-Podoli, reditel
doc. dr. M.Vojta.

(PITUITARY GLAND ANTERIOR dis)
(DIENCEPHALON His) (GYNECOLOGY ther)

HENZL, Milan, C.Sc.; HORSKY, Jan, C.Sc.; PRESL, Jiri, C.Sc.

Adrenalin test in disorders of the menstrual cycle. Cesk. gym. 26[40]
no.10:764-767 D '61.

1. Ustav pro peci o matku a dite v Praze-Podoli, reditel doc. dr.

M.Vojta.

(EPINEPHRINE pharmacol) (MENSTRUATION DISORDERS blood)

(BLOOD SUGAR pharmacol) (LEUKOCYTE COUNT pharmacol)

PRESL, J.

Effect of certain substances irritating the central nervous system (pentamethylene tetrazole and phenylisopropylamine) on resistance of the organism to hypoxia. Physiol. bohem. 5 no.3:298-304 1956.

1. Institut für Mutter- und Kinderfürsorge, Prag.
(ANALEPTICS, effects,
pentamethylene tetrazole on resist. of rats to anoxia (Ger))
(AMPHETAMINE, effects,
on resist. of rats to anoxia (Ger))
(ANOXIA, experimental,
eff. of amphetamine & pentamethylene tetrazole on resist.
in rats (Ger))

PRESL, Jiri

CZECHOSLOVAKIA/ Pharmacology, Toxicology. Analeptics

U-3

Abs Jour : Ref Zhur - Biol., No 4, 1958, No 17562

Author : Presl Jiri

Inst : Not Given

Title : Analeptics and the Organism's Resistance to Anoxemia

Orig Pub : Cheskosl, gynaekol, 1955, 19/34 No 6, 411-412

Abstract : A 30 mg/kg dose of chorazol (1) administered intraperitoneally to mice one hour before their being placed in the pressure chamber caused a rise in the "altitude" leading to the death of half of the animals, 30% as compared with the control animals. The administration of the same dose of 1 fifteen minutes and immediately before the mice were placed in the pressure chamber did not alter the animals' reactions. Psycho-tone (11) administered subcutaneously in a 3 mg/kg dose 30 minutes before the experiment lowered the "altitude", at which the death of half of the animals occurred, 29.6%. However, if the 11 was administered intraperitoneally one hour before the anoxemia, the animals' endurance increased. In 292 just born rats anoxemia was induced by placing them in nitrogen at 37°.

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Card : 1/2

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ACC NR: AP5027374

02/0053/65/000/001/0079/0079

10B

REVIEWER: Presl, J.

TITLE: The hypothalamo-hypophyseal system by V. Schreiber. Enlarged edition.
Czechoslovak Academy of Sciences Publishing House, Prague 1963, 533p.

SOURCE: Ceskoslovenska fysiologie, no. 1, 1965, 79.

TOPIC TAGS: endocrinology, biologic secretion

ABSTRACT: The article is a review of the book published by the Czechoslovak Academy of Sciences at Prague in the English language. The book has 60 figures, 46 tables, 533 pages. The book is an enlarged edition based on the Czech original published in 1959. General evaluation of the book is presented.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NO REF Sov: 000

OTHER: 000

JPRS

Card 1/1 A

HENZL,M.; HORSKY,J., doc. dr., DrSc.; PRESL, J.

Rational gestagen therapy in gynecology. Cesk. gynek. 30 no.1:
10-16 Mr'65.

1. Ustav pro peci o matku a dite v Praze (zat. reditel:doc. dr.
J. Horsky, DrSc.).

HORSKY, J., C.Sc.; PRESL, J., C.Sc.; HENZL., M., C.Sc.; VESELY, K.

Control mechanisms of the gonadotropic function of the pituitary.
Cesk. gyn. 26 [40] no.8: 581-590 J2 '61.
(GONADOTROPINS PITUITARY physiol)

HENZL, Milan, C.Sc.; HORSKY, Jan, C.Sc.; PRESL, Jiri, G.Sc.

Mono-symptomatic hypogonadotropism. Cesk. gyn. 26[40] no.8:621-622
JF '61.

1. Ustav pro pedi o matku a dite v Praze-Podolf, reditel doc. MUDr.
M.Vojta.
(GONADOTROPINS PITUITARY)

HORSKY, Jan, C.Sc.; PRESL, jiri, C.Sc.; HENZL, Milan, C.Sc.

Critical evaluation of some diagnostic methods in gynecological endocrinology. Cesk. gyn. 26[40] no.10:759-763 D '61.

1. Ustav pro peci o matku a dite, Praha-Podolf, reditel doc. dr.
M.Vcjt, zaslouzily lekar CSSR.
(ENDOCRINOLOGY diag) (GYNECOLOGY diag)

HENZL, M.; HORSKY, J.; PRESL, J.

Disorders of ovarian development. Cas.lek.cesk 100 no.16:78-86 21 Ap '61.

l. Ustav pro peci o matku a dite v Praze-Podoli, reditel doc. MUDr.
Miroslav Vojta, zasl. lekar CSSR.

(OVARY abnorm)

PRESL, J.

"Effects of some stimulants of the central nervous system (pentamethylene-tetrazole and phenylisopropylamine) on the resistance of an organism to hypoxia."

p. 308 (Ceskoslovenska Fysiologie) Vol. 5, no. 3, 1956.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

HORSKY, J., C.Sc.; HENZL, M.; PRESL, J., C.Sc.

Diagnostic value of pneumopelvigraphy. Cesk. gyn. 26 no.3:156-160
Ap '61.

1. Ustav pro peci o matku a dite, Praha-Podolí, red. doc. dr M.Vojta,
zasl. lekar CSSR.
(GENITALIA FEMALE radiog)

HENZL, Milan; HONSKY, Jan, C.Sc.; PRESL, Jiri, C.Sc.

Differential diagnosis of uterus bicornis from uterus septus with
the aid of pneumopelvigraphy. Cesk. gyn. 26 no.3:161-163 Ap '61.

1. Ustav pro paci o matku a dite v Praze-Podoli, red. doc. MUDr.
M.Vojta, zasl. lekar CSSR.
(UTERUS abnorm)

EROTANEK, Vl.; HORSKY, J., C.Sc.; PRESL, J., C.Sc.; HLNZL, M.

Menorrhagia in the roentgen picture. Česk. gyn. 26 no.3:167-170
Ap '61.

1. Ustav pro peci o matku a dite, Praha - Podoli, prednosta doc.
dr. M. Vojta. (MENORRHAGIA AND METRORHAGIA radiog)

PRESL, Jiri, C.Sc.; HORSKY, Jan, C.Sc.; KUCERA, Frantisek, C.Sc.

Central nervous system and control of the gonadotropic activity of
the anterior lobe of the pituitary. Cesk. gyn. 26 [40] no.8:558-568
Jl.'61.

1. Ustav pro peci o matku a dite v Praze-Podolf, reditel doc. dr.
M.Vojta I gyn. por. klin. UJEvP v Brne.
(GONADOTROPINS PITUITARY physiol)
(CENTRAL NERVOUS SYSTEM physiol)

HENZL, Milan, C.Sc.; HORSKY, Jan, C.Sc.; PRESL, Jiri, C.Sc.; JIRASEK,
Jan Ev., C.Sc.

Contribution to the effect of barbiturates on the appearance of
castration hypophysis in rats. Cesk. gyn. 26 [40] no.8:578-580
Jl '61.

1. Ustav pro pec o matku a dite v Praze-Podolf, red. doc. dr.M.Vojta.
(CASTRATION exper) (BARBITURATES pharmacol)
(PITUITARY GLAND ANTERIOR physiol)

HORSKY, Jan, C.Sc., PRESL, Jiri, C.Sc.; HENZL, Milan, C.Sc.; KABEC, Zdenek

Effect of oxytocin on the secretion of pituitary gonadotropins.
Cesk. gyn. 26[40] no.8:597-601 Ja '61.

1. Ustav pro peci o matku a dite, Praha reditel doc. dr. M.Vojta.
(GONADTROPINS PITUITARY physiol)
(OXYTOCIN pharmacol)

PRESL, Jiri, C.Sc.; HORSKY, Jan, C.Sc.; HENZL, Milan, C.Sc.

Effect of prolonged cyclic administration of progestrone in
oligomenorrhea and role of the CNS. Cesk. gym. 26[40] no.8:
572-577 31.1.61.

1. Ustav pro peci o matku a dite, Praha, reditel doc. MUDr. Miroslav
Vojta, zaslouzilý lekar CSSR.
(MENORRHAGIA AND METRORRHAGIA ther)
(PROGESTERONE ther) (REFLEX CONDITIONED)

PRESL, Jiri, C.Sc.; HORSKY, Jan, C.Sc.; HENZL, Milan, C.Sc.; KRABEC, Zdenek

Contribution to the study on changes in bio-electric abdominal-vaginal potentials in the estrus cycle in rats. Cesk. gyn. 26[40] no.8:602-606 Jl '61.

1. Ustav pro peci o matku a dite, Praha, reditel docent MUDr. M.Vojta,
zaslouzil lekar CSSR.
(ESTRUS physiol) (VAGINA physiol) (ABDOMEN physiol)

PRESL, Jiri, CSc.; KLETCEK, Pravdomil

On the problem of the effect of bromine on the estrus cycle in rats.
Cesk. gyn. 27[41] no.4:245-249 My '62.

l. Ustav pro peci o matku a dite v Praze, red. doc. MUDr. M.Vojta,
zaslouzily lekar CSSR.
(ESTRUS pharmacol) (BROMINE pharmacol)

PRESL, Jiri; KLETICKA, Pravdomil

←
Analeptics in hypoxic bradycardia. Cesk. gyn. 24[38] no.3:190-191
Mar 59.

1. Ustav pro peci o matku a dite v Praze, reditel prof. dr. J. Trapl.
(BRADYCARDIA, exper.

hypoxic fetal in rabbits, eff. of maternal admin. of
analeptics in pregn. (Cz))

(ASPHYXIA NEONATORUM, exper.
hypoxic fetal bradycardia in rabbits, eff. of maternal
admin. of analeptics in pregn (Cz))

(ANALEPTICS, effects.
on exper. hypoxic fetal bradycardia in rabbits, maternal
admin. in pregn. (Cz))

HENZL, Milan; HORSKY, Jan; PESL, Jiri

The use of depot progesterone in functional metrorrhagia. Cesk.
syn. 25[39] no.7:558-563 S '60.

1. Ustav pro peci o matku a dite v Praze-Podoli, red.doc. dr.
M.Vojta, zaslouzilý lekar CSSR.
(MENORRHAGIA AND METRORRHAGIA ther.)
(PROGESTERONE ther.)

PRESL, Jiri, MUDr

Analepsis and resistance of the organism to hypoxia. Cesk.gyn. 19
no.6:411-412 Nov 55.

1. UPMD Podoli, reditel prof. MUDr Jiri Trapl
(ANOXIA,
 fetal, ther., analeptics)
(FETUS, diseases,
 anoxia, ther., analeptics)
(ANALEPTICS, therapeutic use,
 anoxia in fetus)

PRESL, J.

Effect of certain excitants of the central nervous system
(pentamethylene tetrazole and phenylisopropylamine) resistance
of the organism to hypoxia. Cesk. fysiol. 5 no.3:308-313 1956.

1. Ustav pro peci o matku a dite, Praha.

(ANOXIA, experimental,
eff. of pentamethylene tetrazole & phenylisopropylamine
on resist. (Cz))

(AMINES, effects,
phenylisopropylamine on resist. to exper. anoxia (Cz))

(AZOLES, effects,
pentamethylene tetrazole on resist. to exper. anoxia (Cz))

PRESL, J.; HERZMANN, J.; KLETECKS, P.; VOHNOUT, S.; RÖHLING, S.

Effect of pentamethylenetetrazole on thyroid incorporation of radioiodine
in rats. Cesk. fysiol. 8 no.2:135-136 Mar 59.

1. Ustav pro peci o matku a dite, Vykimny ustav endokrinologicky, Praha.
Predneseno na Sumposiu o ucincich ionisacniho zareni dne 16.10. 1958 v
Praze.

(PENTYLENETETRAZOLE, eff.
on thyroid radiciodine incorporation (Cz))

(THYROID GLAND, eff. of drugs on,
pentylene tetrazole on radioiodine incorporation (Cz))

(IODINE, radioactive,
thyroid incorporation, eff. of pentylene tetrazole (Cz))

PRESL, J.; KLETICKA, P.

Hypothermia following the administration of pentamethylenetetrazole and cerebrocortical oxygen requirement. Cesk. fysiol. 8 no.3:238-239 Apr 59.

1. Ustav pro o matku a dite, Praha. Predneseno na III. fysiologickych dnech v Brne dne 14. 1. 1959.

(PENTYLENETETRAZOLE, eff.

body temperature decrease, eff. on cerebrocortical oxygen requirement (Cz))

(BODY TEMPERATURE, eff. of drugs on,

pentylenetetrazole, cerebrocortical oxygen requirement requirement reaction (Cz))

(CEREBRAL CORTICAL, metab.

oxygen requirement in pentylenetetrazole-induced hypothermia (Cz))

PRESL, Jiri, (kand. lek. ved); HORSKY, Jan, (kand. lek. ved.); HENZL, Milan

On the syndrome of premature menopause. Cesk. gyn. 24[38] no.8:
649-654 0 '59.

l. Ustav pro peci o matku a dite, Praha-Podoli, reditel doc. dr.
M. Vojta, zasl. lekar CSR.
(MENOPAUSE)

PRESL, Jiri

Recent studies on the physiology of the reproductive cycle. Cas. lek. cesk. 98 no.20:Lek. veda zahr 110-114 15 May 59.

1. Ustav pro peci o matku a dite, Praha. J.P., kandidat; ekarskych ved, Praha 15, Nabrezi K. Marxe 394.
(MENSTRUATION, physiology,
menstrual cycle, review (Cz))

PRESL, Jiri; KLETECKA, Pravdomil

Pentamethylenetetrazole and oxygen requirement in the cerebral cortex. Cas.lek.cesk.99 no.39:1235-1238 23 S ' 60.

1. Ustav pro peci o matku a dite v Praze, reditel doc.dr. M.Vojta.
(PENTYLENETETRAZOLE pharmacol)
(CEREBRAL CORTEX metab)

PRESL, Jiri, C.Sc.; HORSKY, Jan, C.Sc.; HENZL, Milan; MARES, Josef

On the problem of the role of various hemocoagulation factors
in cessation of functional uterine hemorrhage with stilbestrol.
Cesk.gyn.26[40] no.1/2:107-112 F '61.

1. Ustav pro peci o matku a dite v Praze, reditel docent MUDr.
Miroslav Vojta, zaslouzil lekar CSSR.
(UTERINE HEMORRHAGE ther)
(DIETHYLSTILBESTROL ther)
(BLOOD COAGULATION physiol)

PRESL, J.; JIRA, J.; KOLÁŘ, J.; HANZL, M.

Incidense of a positive toxoplasmin test in women with different phases
of the menstrual cycle. Česk. gynek. 29 no. 2:69-702 N 1964

1. Ustav pro pacienty matku a dite v Praze (reditel doc. dr. M. Vojta)
a Protozol. oddel. parazitol. ustanovy Československej akademie
ved v Praze (reditel RNDr. B. Rosicky, DrSc.).

PRESLAVSKI, N.

PRESLAVSKI, N. New methods for drying fireproof materials. p.36.
Vol. 5, no. 2, 1956, TEZHKA PROMISHLENOST, SOFIYA, BULGARIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10,
Oct. 1956.

PRESLAVSKI, N.

"Our Fireproof Clay and Production of Fireproof Materials", P.33.,
(TESHKA PROMISHLENOST, VOL. 3, No. 5, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 6, June 1955, Unc1.

PRESLAVSKI, N.

Technology of salt production. p. 62.
MINNO DELO, Sofiya, Vol. 10, no. 1, Jan./Feb. 1955,

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

Pradlovska, N.

Technology of salt production. n. 39. ILL. C. OLLC.
Sofia. Vol. 10, no. 3, Jan./Feb. 1955.

SO: Monthly List of the East European Accesion (SIS) No. 10.,
no. 10, Oct. 1955. Unit.

PRESS AVKSI, N.

Concerning the Technology of Salt Production. Minno Delo (Mining),
#1:68:Jan 55

KUNEV, K.; PRESLAVSKI, N.

Heat treatment and its influence on the luminiscence
of Zns.Cu-phosphorus at low temperature. Godishnik khim
55 no.3:13-21 '60/61 (publ.'62).

PRESLAVSKI, N., inzh.

A new plant for refractory materials. Tekhnika Bulg 2 no.2:31
F '53.

Preslavski N.

Bulgaria /Chemical Technology. Chemical Products
and Their Application I-6

Mineral salts. Oxides. Acids. Bases.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31235

Author : Preslavski N.

Title : Technology of Salt Recovery

Orig Pub: Minno delo, 1955, 10, No 1, 68-72

Abstract: A change is proposed in the technology of salt recovery from sea water that is utilized at the Burgas salterns. The brine having reached maximum permissible density should not be combined with, but replaced by fresh one, discharging the concentrated brine into special settling containers. Fresh brine should have a density of 25-26° Be, which requires special pre-treatment

Card 1/2

Bulgaria /Chemical Technology. Chemical Products
and Their Application I-6

Mineral salts. Oxides. Acids. Bases.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31235

reservoirs; thus there will be obtained, in the crystallization reservoirs, a much thicker layer of salt. Increase in the concentration of MgSO₄ promotes precipitation of NaCl, but the latter is thus contaminated with the sulfate. From spent brine can be obtained, in wintertime, Mg-sulfate, which, after recrystallization, is suitable for medicinal use; in the summer this brine can be used to recover mixed salts (sulfates, bromides), and from the mother liquor, concentrated after the separation of these salts, is recovered Mg-chloride. The method results in considerable savings of fuel.

Card 2/2

PRESLAVSKI, N.; STOIANOV, T.

Study on reduction of the water content in the soft-cement mixture. p. 23.

STROITELSTVO, Sofiia, Bulgaria, Vol. 6, no. 3, 1959.

Oct.
Monthly List of East European Accessions (EEAI) LC, Vol. 6, No. 10, 1959
Uncl.

PRESLAVSKI, N.

Some physico-chemical investigations of our kaolin, p. 66.
(Minno Delo, Vol. 11, no. 6, Nov./Dec. 1956, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

Printed 7/16/2001 10:45 AM

Bulgaria/Chemical Technology - Chemical Products and Their Application. Silicates.
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62332

Author: Preslavskiy, N.

Institution: None

Title: New Methods of Drying Refractory Materials

Original
Periodical: Novi nachini za susheni na ogneuporni materiali, Tezhka promishlenost,
1956, 5, No 2, 36-41; Bulgarian

Abstract: Considered are new methods of drying large size and complex in shape
refractory articles, by means of high frequency currents and alter-
nating current with one-side heating. Drying by these methods has
the advantage of considerably reducing the duration and the specific
heat expenditure for vaporization of one kg of moisture.

Card 1/1

PRESLER, Kogos Khunovich, inzh.; PINAYEV, V.V., red.; FREGER, D.P.,
red. izd-va; GVIPTS, V.L., tekhn. red.

[Packaging and shipment of electric machines and apparatus]
Upakovka i transportirovanie elektricheskikh mashin i appara-
tov; iz opyta zavoda "Elektrosila." Leningrad, 1963. 38 p.
(MIRA 16:6)

(Electric machinery--Transportation)
(Electric apparatus and appliances--Transportation)

KOGAN, Zinoviy Abramovich; PRESLER, K.Kh., red.; FREGER, D.P., red.
izd-va; BELOGUROVA, I.A., tekhn. red.

[Preservation and packaging of industrial equipment for
regions with tropical climate; lecture transcription]Kon-
servatsiya i upakovka proryshlennogo oborudovaniya dlia
raionov s tropicheskim klimatovm; stenogramma lektsii. Le-
ningrad, 1962. 54 p. (MIRA 15:8)

(Industrial equipment--Packing)

GRUBER, Jozsef, dr.; PRESZLER, Laszlo

Application of electrofilters in air technology. Munkavedelem 9
no. 10/12:5-9 '63.

1. Editorial board member, "Munkavedelem." (for Preszler).

MISHURENKO, A. G.; PANSLER, R. I.

Grafting

Stratification of graft stock shoots before grafting. Vin. Sborn. 13, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

PRESLIA

(Ceskoslovenska botanicka spolecnost) Praha. [Journal issued by the Czechoslovak Botanical Society; with English and Russian summaries. Quarterly]

Recurrent features: Methods of scientific work; Floristic research; Book review and bibliography.
Vol. 27, nos. 2-3, 1955.

SO: Monthly List of East European Accession, (EEAL) Vol. 4, No. 11, LC, Nov. 1955, Uncl.

PRESMAN, A., prepodavatel'

Participation of students in the political science classes. Prof.-
tekh. obr. 20 no.6:9-11 Je '63. (MIRA 16:7)

1. Remeslennoye uchilishche No.30, Leningrad.
(Political science--Study and teaching)

L 46287-66 EWT(1) DD
ACC NR: AP5015381

SOURCE CODE: UR/0025/65/000/005/0082/0088

AUTHOR: Presman, A. (Candidate of biological sciences)

46
B

ORG: none

TITLE: The electromagnetic field and life

SOURCE: Nauka i zhizn', no. 5, 1965, 82-88

TOPIC TAGS: electromagnetic biologic effect, cell physiology, electromagnetic field,
CENTIMETER WAVE

ABSTRACT: This paper presents a general review of the effects of electromagnetic waves with frequencies less than $3 \cdot 10^{12}$ cps on living organisms. Effects of IR and centimeter waves are compared. While both types of waves produce the same degree of heating in surface tissues, only the centimeter wave produces a biological effect, e.g., change in endocrinal processes. This difference is attributed to the difference in the effect of the two types of waves on the ions and molecules in the tissues. The reactions of humans, monkeys, lizards, chickens, ants and snails to induced electromagnetic fields are described. In humans, centimeter waves were found to produce specific biological effects: slowing of the heartbeat, lowering of blood pressure and exhaustion of the nervous system. In animals, these waves suppressed conditioned reflexes, reduced sensitivity to sound and lowered the biopotential of brainwaves. The effect of electromagnetic waves on cell division, heredity, and pathogenic activity are dis-

Card 1/2

L 46287-66

ACC NR: AP5015361

cussed. The author concludes that in most cases the biological effects are not dependent on the intensity of the electromagnetic field, i. e., that the same effect is observed in both strong and weak electromagnetic fields. A second conclusion is that electromagnetic fields appear to influence information processes (transmission, transformation, coding, storage) between systems, cells, molecules, etc.

SUB CODE: 06,20/

SUBM DATE: none

LC
Card 2/2

SMYSHLYAYEV, V.K. (Yoshkar-Ola); BAYTAL'SKIY, M.M. (Odessa); IVANOVA, Zh. (Vratsa, Bulgaria); USHAKOV, V.V. (Staryy Oskol); PRISMAN, A.A. (Sverdlovsk); LEVIN, M.N. (Tartu); BRIGADIN, I.Ya. (Moskva); LEVIN, M.I. (Tartu); KASHIN, B.I. (Kalininskaya obl.)

Problems for students. Mat. v shkole no.6:90-91 N-D '59 (MIRA 13:3)
(Mathematics--Problems, exercises, etc.)

PRESMAN, A.A. (Sverdlovsk)

One corollary and a problem in a geometry course. Mat.v shkole
no.4:62-64 Jl-Ag '59. (MIRA 12:11)
(Geometry--Study and teaching)

PRESMAN, Aleksandr Samuilovich; BERG, A.I., redaktor; DZHIGIT, I.S.,
redaktor; YELIN, O.G., redaktor; KULIKOVSKIY, A.A., redaktor;
SMIRNOV, A.D., redaktor; TARASOV, F.I., redaktor; TRAMM, B.F.,
redaktor; CHECHIK, I.O., redaktor; SHAMSHUR, V.I., redaktor;
KONASHINSKIY, A.D., redaktor; LARIONOV, G.Ye., tekhnicheskij
redaktor.

[Centimeter waves] Santimetrovye volny. Moskva, Gos. energ. isd-
vo, 1954. 119 p. (Massovaia radiobiblioteka, no. 203) [Microfilm]
(Radio waves)

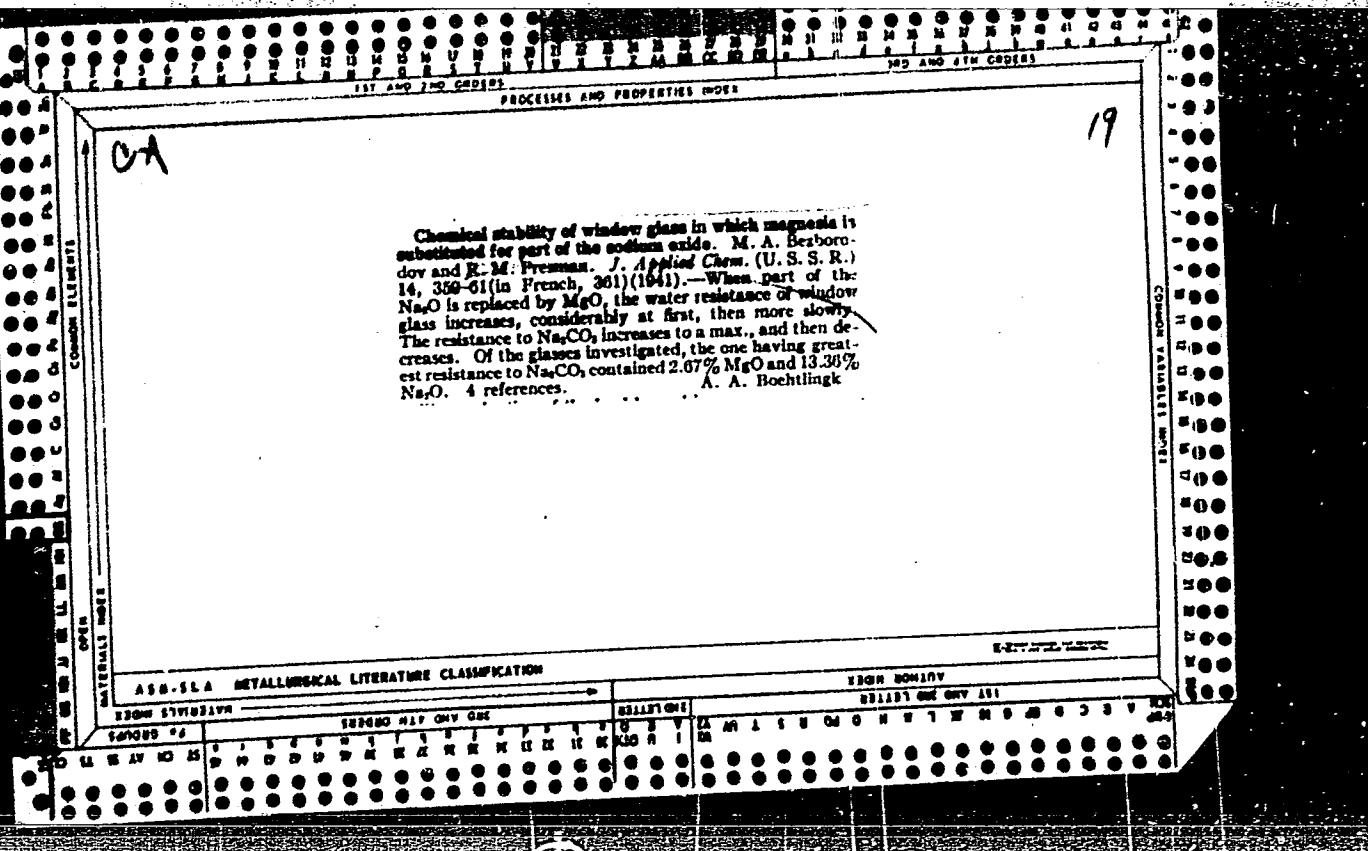
VORONTSOV, Yu.; GARMAZ, V., elektrik; SHUTIK, I.; PRESMAN, B.; ZHIVILIN, P.

If we take the task seriously. Izobr.i rats. no.7:34-36 J1 '60.
(MIRA 13:8)

1. Chleny reydovoy brigady Minskogo kamvol'nogo kombinata.
2. Nachal'nik rovnichnogo tsekha Minskogo kamvol'nogo kombinata
(for Vorontsov). 3. Sotrudnik mnogotirazhki "Za kommunisticheskly
trud" (for Shutik). 4. Sotrudnik zhurnala "Izobretatel' i
ratsionalizator" (for Zhivilin).
(Minsk--Textile industry)

Chemical stability of window glass in which magnesia is substituted for part of the sodium oxide. M. A. Berzakov and R. M. Freeman. *J. Applied Chem.* (U. S. S. R.) 14, 350-61 (in French, 361) (1941).—When part of the Na_2O is replaced by MgO , the water resistance of window glass increases, considerably at first, then more slowly. The resistance to Na_2CO_3 increases to a max., and then decreases. Of the glasses investigated, the one having greatest resistance to Na_2CO_3 contained 2.07% MgO and 13.30% Na_2O . 4 references. A. A. Bochtingk

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Chemical stability of window glass in which soda is partly replaced by magnesia. M. A. Besborodov and R. M. Preman (*J. Russ. Chem. Russ.*, 1941, 14, 359-361).—The stability of 7 window glasses against H_2O and 0-1% Na_2CO_3 was studied over a range of compositions in which the Na_2O and MgO contents varied from Na_2O 16.73% and MgO 0.61% to Na_2O 10.28% and MgO 6.49%. The stability was measured by loss in wt. of the glass when exposed

to each solution under standard conditions. The stability in H_2O increased with increasing MgO content but that to aq. Na_2CO_3 rose to a max. at MgO 2.67% and Na_2O 13.36% and then fell as the MgO content increased. The stability of window glass to H_2O is regarded as a measure of the usefulness of the glass, whilst stability to aq. Na_2CO_3 is considered to be a measure of keeping properties under humid conditions.

R-I-9

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013429

MUSIYKO, D.K. (Donetskaya oblast'); KHAMZIN, Kh.Kh. (Sterlitamak);
PRIVEN, R.A.; GEL'MAN, N.L. (Zhmerinka); PRESMAN, A.A. (Sverdlovsk)

Editor's mail. Mat. v shkole no.3:81-86 My-Je '62. (MIRA 15:7)
(Mathematics—Problems, exercises, etc.)

PRESMAN, A.A. (Sverdkovsk)

Organizing independent work of students in a school for working youth.
Mat. v shkole no.1:40-43 Ja-F '61. (MIRA 14:3)
(Mathematics—Study and teaching)

PRESMAN, A.A. (Sverdlovsk)

Newton-Simpson formula. Mat.v skole no.4:61-62 Jl-ig '60.
(MIRA 13:9)

(Geometry, Plane)

PRESMAN, A.S.

PHASE X

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 668 - X

BOOK

Author: PRESMAN, ALEKSANDR SAMUILOVICH

Call No.: AF645588

Full Title: MICROWAVES

Transliterated Title: Santimetrovyye volny

PUBLISHING DATA

Originating Agency: MASSOVAYA RADIOPUBLIOTEKA (Mass Radio Library),
Issue 203

Publishing House: State Power Engineering Publishing House

Date: 1954 No. pp.: 120 No. of copies: 25,000

Editorial Staff: A. I. Berg, I. S. Dzhigit, O. G. Yelin, A. A. Kulikovskiy, A. D. Smirnov, F. I. Tarasov, B. F. Tramm, I. O. Chechik, and V. I. Shamshur. Editor: Konashinskiy, A. D.

PURPOSE AND EVALUATION: The book is written for radio amateurs, familiar with the general principles of radio engineering and having a knowledge of high school mathematics. The book is similar in its scope and exposition to the many popular publications in this field in the U.S.

TEXT DATA

Coverage: The author presents the electromagnetic field theory in a popular form, and concentrates his attention on the ultra high, super high, and extremely high radio-frequency microwaves and on their many

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Santimetrovyye volny

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applications in science and industry. He describes the microwave oscillators, wave guides and various means of microwave transmission and microwave measurements. In every chapter of the book the role of Soviet scientists in the field is emphasized. The book is well illustrated.

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Santimetrovyye volny

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No. of References: 7 Russian (1947-1953).

Facilities: In addition to the authors of the references, several names of Soviet scientists are mentioned in the text. Some of these and the particular fields of their study are: Prof. M. S. Neyman (microwave measurements, cavity resonators); Prof. D. A. Rozhanskiy (electron velocity modulation); V. F. Kovaleenko (reflex klystrons); M. T. Grekhova, V. I. Kalinin, I. V. Brenev (magnetrons); M. A. Bonch-Bruyevich, N. F. Alekseyev, D. Ye. Malyarov and V. M. Mukhin (multi-cavity magnetron); V. V. Tatarinov, A. A. Pistol'kors (microwave measurements); L. I. Mandel'shtam, N. P. Papaleksi, B. A. Vvedenskiy (radar).

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EXCERPTA MEDICA Sec.17 Vol.4/2 Public Health,etc.Jcb58
PRESMAN, A.S.

550. THE ELECTROMAGNETIC FIELD AS A HYGIENIC FACTOR (Russian text).
Presman A. S. GIGIENA 1958, 10 (32-37) V.21 - No. 9

It has been established that electromagnetic fields of different strengths give rise to functional changes in the organism. The paper deals briefly with the present-day views on the mechanisms of the absorption of the energy of such fields by the tissues in animals and man, as well as the methods of quantitative evaluation of the effective energy of the fields. Curves are presented which demonstrate the processes occurring in cells and tissues depending on the energy, frequency and intensity of the field, and formulae expressing the interrelations of these values.

PRESMAN, A.S.,(Moskva)

Physical principles of the biological action of microwaves.
Usp. sovr. biol. 41 no.1:40-54 Ja-F '56. (MLRA 9:6)

(MICROWAVES--PHYSIOLOGICAL EFFECT)

3,958

S/202/62/002/001/CC9/C10
D268/9302

27.2400

AUTHORS: Presman, A.S., Levitina, N.A.

TITLE: The effect of non-thermal microwave irradiation on animal resistance to gamma-irradiation

PERIODICAL: Radiobiologiya, v. 2, no. 1, 1962, 170 - 171

TEXT: Preliminary experiments were made with 3 groups of rats (weight 125 - 130 g) to determine the possibility of increasing resistance to ionizing radiation by the preliminary action of microwaves at small, non-thermal intensities. Three groups of rats were studied, irradiated: 1) With continuous microwaves ($\lambda = 12 \text{ cm}$); 2) With pulse microwaves ($\lambda = 10 \text{ cm}$, 700 imp/sec.), both at 10 - 15 milliwatt/cm², exposure being 30 min. daily for 25 days; 3) The control group with no preliminary irradiation. Finally all groups were irradiated once with gamma-rays at 600 r. Results showed that preliminary irradiation with continuous microwaves tended to increase survival, but with pulsed microwaves the death rate was unaltered as against the control, and death ensued earlier. With cor-

Card 1/2

The effect of non-thermal ...

S/205/62/002/001/003/010
D268/D302

tinuous microwaves hemorrhage (nose) was later and more frequent than in the two other groups. Further experimental investigation is required.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut kurortologii i fizioterapii, Moscow (Central Scientific Research Institute for Health Resort Science and Physiotherapy, Moscow)

SUBMITTED: May 4, 1961

Card 2/2

PRESMAN, A.S., inzhener

Methods for rating the acting energy of electromagnetic fields under industrial conditions [with summary in English]. Gig. i san. 22 no.1:29-35 Ja '57. (MIRA 10:2)

1. Iz fiziko-gigiyenicheskoy laboratorii Instituta gigiyeny truda i professional'nykh zabolevaniy AMN SSSR.

(INDUSTRY AND OCCUPATIONS

active energy of electromagnetic fields in indust.,
determ. methods (Rus))

PRESMAN, A.S.

Modification of skin temperature in human subjects irradiated with
microwaves of low intensity [with summary in English] Biul. eksp.
i med. 43 no.2:51-55 F '57 (MLRA 10:5)

1. Iz Instituta gigiyeny truda i profzabolevaniy (direktor
deystvitel'nyy chlen AMN SSSR professor A.A. Letavet) AMN SSSR,
Moskva. Predstavlena deystvitel'nym chelnom AMN SSSR professorom
A.A. Letavetom.

(DIATHERMY, effects
waves of several centimeters & low intensity, on skin
temperature) (Rus)
(SKIN, effect of radiations,
waves of several centimeters & low intensity on heat
prod.) (Rus)

PRESMAN, A.S.

Methods for experimental irradiation of animals with microwaves.
(MIRA 11:6)
Biofizika 3 no.3:354-358 '58

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR, Moskva.
(MICROWAVES--PHYSIOLOGICAL EFFECT)
(RADIATION--DOSAGE)

PRESMAN, A. S.

PRESMAN, A.S., kand.biol.nauk

Protective measures against the action of radiofrequency electromagnetic fields in industry [with summary in English]. Gig. i san
23 no.1:21-27 Ja '58. (MIRA 11:2)

1. Iz fiziko-gigiyenicheskoy laboratoriil Instituta gigiyeny truda
i professional'nykh zabolevaniy AMN SSSR.

(ELECTRICITY

protection against radiofrequency electromagnetic fields
in indust.)

(INDUSTRIAL HYGIENE

protection against radiofrequency electromagnetic fields)

(MAGNETISM

protection against radiofrequency electromagnetic fields
in indust.)

BORISOVA, K.S.; PRESMAN, A.S.; LETAVET, Avgust Andreyevich, red.; BELOVA,
S.F., red.
[Cataracts; translations from foreign periodical literature]
Luchevye katarakty; sbornik perevodov inostrannoi
periodicheskoi literatury. Moskva, Medgiz, 1959. 303 p.
(MIRA 16:4)
(CATARACT)

PRESMAN, A.S.; KAMENSKIY, Yu.I.; LEVITINA, N.A. (Moskva)

Biological effect of microwaves. Usp. scvr. biol. 51 no.1:84-103
Ja-F '61. (MIRA 14:3)
(MICROWAVES--PHYSIOLOGICAL EFFECT)

S/058/61/000/010/066/100
A001/A101

AUTHOR: Presman, A.S.

TITLE: An experimental installation for irradiation by microwaves of albumin solutions

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 228, abstract 10D92
("Biofizika", 1961, v. 6, no. 3, 370 - 371)

TEXT: The author describes the basic layout of an installation for measuring the changes in electric conductivity, pH-value, dielectric constant and viscosity of albumin solutions in the process of their proportioned irradiation by microwaves of the 9-12-cm wavelengths. Waveguide apparatus are used having the cross section of the waveguide equal to 72x34 mm. The accuracy of dosage is $\pm 15\%$.

M. M.

[Abstracter's note: Complete translation]

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PRESMAN, A.S., kand.biologicheskikh nauk

More refined methods of research are needed. Nauka i zhizn' 28
no.7:88-89 Jl '61. (NKA 14:8)

1. Zaveduyushchiy biofizicheskoy laboratoriye Tsentral'nogo
instituta kurortologii i fizioterapii.
(MAGNETISM--PHYSIOLOGICAL EFFECT)

PRESMAN, A.S.; KAMENSKIY, Yu.I.

Apparatus for experimental study of the excitability of a nerve-muscle preparation during irradiation by microwaves. Biofizika
6 no. 2:231-233 '61. (MIRA 14:4)

1. Gosudarstvennyy institut kurortologii i fizioterapii, Moskva.
(MICROWAVES—PHYSIOLOGICAL EFFECT)
(PHYSIOLOGICAL APPARATUS)

PRESMAN, A.S.; LEVITINA, N.A.

Effect of nonthermal microwave irradiation on the resistance of
animals to gamma irradiation. Radiobiologia 1961;1:170-171
(MIRA 18:1)
Ja '62

27.1229
27.1150

39278

S/219/62/053/001/005/007
I015/I215

AUTHOR: Presman, A. S. and Levitina, N. A.

TITLE: Effect of non-thermic microwaves on the cardiac rhythm in animals

PERIODICAL: Byulleten' eksperimental'noy biologii i meditsiny, v. 53, no. 1, 1962, 41-44

TEXT: 8 female rabbits weighing 3.0-3.5 kg. were irradiated (intensity 7-12 m V/cm²) 12 to 13 times, for twenty-minute periods with no ensuing thermal effects (non-thermic intensity). Continuous nonthermic irradiation brought about an alteration in the cardiac rhythm due to a reflex-vegetative response. These changes were reversible. It was assumed possible that this reflex-vegetative response was evoked by microwaves which affect not only the superficial reflexogenic zones (cutaneous and vascular receptors) but also the brain cells. There are 2 figures and 1 table.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut kurortologii i fizioterapii, Moscow (Central Institute of Health Resort and Physiotherapy Research)

SUBMITTED: March 16, 1961

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40619

27.12.20

S/219/62/053/002/002/003
I015/I215

AUTHORS: Presman, A. S. and Levitina, N. A.

TITLE: The non-thermal effect of microwaves on the rhythm of cardiac contractions in animals
II. The effect of impulse microwaves

PERIODICAL: Byulleten' eksperimental'noy biologii i meditsiny v. 53, no. 2, 1962, 39-43

TEXT: This is the continuation of previous studies, in which the effect of continuous microwaves was investigated. Impulse microwaves were generated from a VNIIMLiO apparatus, at a wave length of 10 cm, time 1 microsec., irradiation rate 700 impulses/sec, intensity 3-5 mwatt/cm². The experiments were carried out on 8 female rabbits weighing 3-4 kg. The irradiation of the dorsal as well as ventral parts of the body with impulse microwaves at a non-thermal intensity, brought about a chromotropic effect, during the irradiation itself, and for a short time after it. The chronotropoc affect itself is regarded as a reflex vascular-vegetative reaction to the effect of microwaves. The effect of the impulse irradiation was more marked than that of continuous irradiation. This is explained by the direct effect of the impulse microwaves on the deeper tissue layers. There are 2 figures and 2 tables.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut a kurortologii i fizioterapii, Moskva
(Central Institute of Health Resort and Physiotherapy Research. Moscow)

SUBMITTED: March 16, 1961

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TREKMAN, A. S.

Excitability in parameciums following stimulation by imp. lines
of direct and alternating current. Biophysika 8 no.1:138-147
'63. (MIFU 17.8)

1. Tsentral'nyy nauchnoissledovatel'skiy institut kibernetiki
i fizioterapii, Moskva.

PRESMAN, A.S.

Effect of microwaves on paramecium. Biofizika 8 no.2:252-
260 '63. (MIRA 17:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut kurortologii
i fizioterapii, Moskva.

PREGMAN, A.S. (Moskva)

Problems of the mechanisms of the biological action of microwaves.
Usp. sovrs. biol. 56 no.2(16)-179 8-0 '63. (MIR 17:5)

PREFMAN, A.S.

Role of electromagnetic fields in the processes of vital activity. Biofizika 9 no. 1:131-134 '64. (MIRA 17:7)

PRESMAN, A.S.; RAPPEPORT, S.M.

New data on the existence of an excitable system in Paramecium caudatum Ehrbg. Part 1: Reaction of Paramecium caudatum to direct current impulses. Nauch. dokl. vys. shkoly; biol. nauki no.1: 52-55 '64. (MIRA 17:4)

1. Rekomendovana TSentral'nym nauchno-issledovatel'skim institutom kurortologii i fizioterapii.

PRESMAN, A.S.; RAPPEPORT, S.M.

New data on the existence of a system of excitation in
Paramecium caudatum Ehrbg. Report no.2. Reactions of P.
caudatum to a.c. pulses. Nauch. dokl. vys. shkoly; biol.
nauki no.3:44-48 '64 (MIRA 17:8)

1. Rekomendovana TSentral'nym nauchno-issledovatel'skim in-
stitutom kurortologii i fizioterapii.

45614-65

ACCESSION NR: AP5011562

UR/0219/65/059/004/0048/0052 /5
B

AUTHOR: Presman, A. S.; Rappeport, S. M.

TITLE: The effect of microwaves on the excitable system of paramecia

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 59, no. 4, 1965,
48-52

TOPIC TAGS: microwave, biological effect, paramecium, excitation

ABSTRACT: Previous studies with Paramecium caudatum showed an "electric shock reaction" (ESR) in response to a-c and d-c currents at certain threshold voltages. In view of this, the excitability of paramecia was studied during microwave irradiation. Animals in a hay infusion were placed in a polystyrene chamber attached to a microwave generator. Four tests were conducted using the following irradiation parameters: 1) nonpulsed microwaves in 1/sec doses ($\lambda = 12.5$ cm) with a duration of 5-100 msec; 2) pulsed microwaves in 1/sec doses ($\lambda = 10$ cm, durations, 7-50 msec, pulse frequencies, 200-700 imp/sec); 3) alternating current (1 imp/sec, 240 and 1200 cps, impulse duration, 120 msec) on a background of nonpulsed microwaves with the same duration; 4) alternating current (1 imp/sec, 240 and 1200 cps, impulse duration, 100 msec) on a background of pulsed microwaves with the same duration

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ACCESSION NR: AP5011562

(pulse frequency, 700 imp/sec). The first series showed that each dose of nonpulsed microwaves evoked a reaction similar to ESR. The second series showed that the mean power threshold values for pulsed microwaves were higher than values for nonpulsed microwaves with durations of 10 msec. The threshold values decreased as the durations increased. Stimulation by pulsed microwaves had a cumulative effect. The third and fourth series demonstrated the sensitizing effect of microwaves of sub-threshold power. It was found that microwaves decreased the threshold voltage of a-c currents required to produce ESR. This, together with the fact that heating did not exceed 1.5C in any series, indicates that microwaves have a nonthermal effect. Arguments against the thermal nature of the ESR evoked by microwaves include the following: 1) irritation threshold values for pulsed and nonpulsed microwaves depend on the quadratic root of their duration or series; and 2) virtually no relationship between pulse threshold power and pulse frequency was observed. It was concluded that these data would help elucidate the mechanism of the action of microwaves on the excitable structures of higher animals. Orig. art. has: 4 figures. [JS]

ASSOCIATION: Tsentral'nyy nauchno issledovatel'skiy institut kurortologii i fizioterapii, Moscow (Central Scientific Research Institute of Balneology and Physiotherapy)

Card 2/3

L 45614-65

ACCESSION NR: AP5011562

SUBMITTED: 29Apr63

ENCL: 00

SUB CODE: LS

NO REF SOV: 010

OTHER: 002

ATD PRESS: 4001

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Card 3/3

L 02449-67 EWT(1)/T DD/JK

ACC NR: AP5016101

SOURCE CODE: UR/0053/65/086/002/0263/0302

AUTHOR: Presman, A. S.

27

ORG: none

B

TITLE: Effect of microwaves on living organisms and biological structures

SOURCE: Uspekhi fizicheskikh nauk, v. 86, no. 2, 1965, 263-302

TOPIC TAGS: electromagnetic biologic effect, irradiation dosimetry, radiation biologic effect, *microwave RADIATION EFFECT*

ABSTRACT: The author presents an extensive summary of the biological effects of microwaves with the aim of acquainting physicists with experimental and theoretical work in this area. The following topics are discussed: 1. electrical properties of tissues in the microwave range; 2. microwave absorption in the tissues of living organisms; 3. dosimetry of microwaves and evaluation of their effect on humans and animals; 4. response of organisms to the irradiation with microwaves of medium and high intensities; 5. response of humans and animals to low intensity microwave irradiation; 6. mutations in animal tissues and organs under the action of microwaves; 7. study of the effects of microwaves and electromagnetic fields of other frequencies on the cellular and molecular levels; 8. reception and generation of electromagnetic fields in living organisms; 9. mechanism of biological action of microwaves and electromagnetic fields of

UDC: 577.37

Card 1/2

L 02449-67

ACC NR: AP5016101

other frequencies. The author concludes that the principal effect of electromagnetic fields is to be seen in the information processes (transformation, transmission, coding and storage of data) between systems, cells, molecules, etc. and the energy of the field merely serves to implement this effect. Since a biological reaction may actually intensify in the face of diminishing field intensity, the biological effect is not deemed a function of field intensity. Orig. art. has: 22 figures, 4 tables, 5 formulas.

SUB CODE: 06 . / SUBM DATE: none/ ORIG REF: 074/ OTH REF: 144

Card 2/2 gd