KHVOSTOVA, V.V.

LEBEDEV, D.V. [translator]; MATVEYEVA, T.S. [translator]; LASKEVICH, Yu.I. [translator]; OSTRYAKOVA-VARSHAVER, V.P. [translator]; KHYOSTOVA, V.V. [translator]; BARANOV, P.A., redaktor; ASTAUROV, B.L., professor, Fedaktor; SYSINA, N.A., redaktor; IOVLEVA, N.A., tekhnicheskiy redaktor

[Polyploidy; collection of articles] Poloploidia; sbornik statei. Perevod D.V.Lebedeva i dr. Pod.red. i s predisl. P.A.Baranova i B.L. Astaurova. Moskva, Izd-vo inostr.lit-ry, 1956. 398 p. (MLRA 10:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Baranova) (Polyploidy)

KHVOSTOVA. V.V., DELONE, N.L., SOROKINA, O.H., TRUKOV, V.L., TSELISHCHEV, S.P., CHAYKINA, K.V.

Development of soft wheat seedlings obtained from seeds irradiated with thermal neutrons [with summary in English]. Biofizika 3 no.4:459-465 156 (NIRA 11:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Laboratoriya biofiziki Moskovskogo ordena Lenina sel'skokhozyaystvennoy akademii im. K.A. Timiryazeva, Moskva.

(PLANTS, EFFECT OF RADIATION ON)

(WHEAT)

CIA-RDP86-00513R000722510007-7 "APPROVED FOR RELEASE: 06/13/2000

USSR / Farm Animals. Cattle.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40425.

: Tinyakov, G. G., Khvostova, V. V. Author

: Not given Inst

: Histological Characteristics of the Udder of Title

Cows at Different Stages of Pregnancy and

Lactation.

Orig Pub: Dokl. AN SSSR, 1956, 106, No 6, 1096-1098.

Abstract: When comparing the microscopic structure of the mammary glands of heifers and lactating cows at different stages of lactation, a considerable predominance of the connective tissue over the glandular one, and its gradual increase in the course of pregnancy, is noticed. In the lactating cows, the glandular tissue is considerably developed and it re-

mains almost without change during pregnancy;

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7"

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40425.

Abstract: it decreases somewhat only during a dry period. The index of the ratio of the connective tissue to the glandular one, in heifers, is always less than one unit. The follicles in the heif-ers are approximately one and a half times narrower, and the glandular epithelium is two times higher, than in the lactating cows.

Card 2/2

MANSUROVA, V.V.; SAKHAROV, V.V.; KHVOSTOVA, V.V.

Sensitivity of diploid and autotetraploid plants to gamma radiation [with summary in English]. Bot.zhur. 43 no.7:989-997 J1 158. (MIRA 11:9)

1. Institut biofiziki Akademii nauk SSSR, Moskva.
(Plants, Effect of gamma rays on) (Polyploidy)

KHVOSTOVA, V.V.: DMLOME, N.L.

Radiation sensitivity of the meristem of germules and rootlets in pea and barley embryos. TSitologiia 1 no.3:320-321 My-Je '59. (MIRA 12:10)

1. Laboratoriya radiatsionnoy genetiki Instituta biofiziki AN SSSR, Moskva.

(PLANTS, EFFECT OF RADIOACTIVITY ON)

KHVOSTOVA, V.V.; IMVZGODINA, L.V.

Frequency of chromosome reorganizations in the tissues of radiosensitive and radioresistant pea plants. TSitologiia 1 no.4:103-407 Jl-Ag 159. (MIRA 12:10)

1. Laboratoriya radiatsionnoy genetiki Instituta biofiziki AN SSSR, Moskva.
(CHROMOSOMUS) (RADIATION--PHYSIOLOGICAL MFFECT)
(PMAS)

SIDOROV, B.N.; KHYOSTOVA, V.V.

Factors influencing the genetic effect of ionizing radiations.

Itogi nauki: Biol. nauki no. 3:176-227 '60. (MIRA 13:10)
(RADIATION—PHYSIOLOGICAL EFFECT) (VARIATION (BIOLOGY))

DUBININ, N.P.; KHVOSTOVA, V.V.; DEIONE, N.L.

Ionizing radiations and plant breading. Itogi nauki: Biol. nauki no. 3:292-323 '60. (MIRA 13:10) (PLANTS, EFFECT OF RADIATION ON) (PLANT BREEDING)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

KHVOSTOVA, V.V.; VALEVA, S.A.

On a method for the use of ionizing radiation in plant breading. Biofizika 5 no.1:81-84 160. (MIRA 13:6)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(PLANTS)
(RADIATION EFFECTS)

KUZIN, A.M.; ISAYNV, B.M.; KHVOSTOVA, V.V.; TOKARSKAYA, V.I.; BREGADZE, Yu.I.

Effectiveness of the biological action of C¹⁴ during its incorporation into living structures. Dokl.AN SSSR 134 no.4: 951-954 0 '60. (MIRA 13:9)

1. Institut biologicheskoy fiziki Akademii nauk SSSR. 2. Chlenkorrespondent AN SSSR (for Kuzin). (CARBON--ISOTOPES)

(PLANTS, EFFECT OF RADIOACTIVITY ON)

DUBININ, Nikolay Petrovich; KHVOSTOVA: V.V., nauchnyy red.; SHIROKOV, S.I., nauchnyy red.; ANDREYENKO, Z.D., red.; MAZEL', Ye.I., tekhn. red.

[Problems in radiation genetics] Problemy radiatsionnoi genetiki.
Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhmiki, 1961.
467 p. (MIRA 14:11)

1. Chlen-korrespondent AN SSSR (for Dubinin) . (RADIATION—PHYSIOLOGICAL EFFECT) (GENETICS)

KHWOSTOVA, U.V.

33313 5/560/61/000/010/011/016 D298/D305

27 12 20

AUTHORS:

Glembotskiy, Yn. L., Prokoftevn-Beltgovskaya, A. A., Shamina, Z. B., Goltdat. S. Yu., Knyostova, Y. Y., Valova, S. A., Eygen, N. S., and Nevagodina, L. V.

TITLE:

Effect of cosmic flight factors on the heredity and development of actinomycetes and higher

plants

SOURCE:

Akademiya nauk SSSR. Iskusatvennyye sputniki Zemli. no. 10. Moscow, 1961, 72-81

TEXT: The second cosmic space-ship was utilized to study the combined genetic effect of cosmic flight on organisms. This article deals with the study of the following cultures: actino-article deals with the study of the

card 1/4

4

5567 8/560/61/000/010/011/016 p298/p302

Effect of cosmic. ...

etandards and experimental cultures were investigated according to: (1) vitality and (2) a microscopic characteristic of growth and development. The 2577 and 5594 stems differ by the sizes of their nuclear element in the spore and by their sensitivity to ultra-violet rays (UV). It is also assumed that they differ in their reaction to ionizing radiation. All the 4 tested atems were found to be sensitive to conditions of cosmic flight. The vitality (i.e., the number of spores which survived and developed colonies) of the radio-resistant act. erythreus 2577, as compared to the standards, increased 6 times; the no. 8594 decreased 12 times; the act. aureofaciens \$10.5-229 (LSB-2201) dropped in vitality by about 75% on the average. In the roots of all 5 types of experimental seeds, the percentage of chromosome changes was somewhat increased. However, only in the case of 2 types was this increase statistically valid. In 3 types of plants, in increase of mitosis was noted. In the case where the percentage of anaphases with chromosome changes was found

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33313 \$/560/61/000/010/011/016 D298/D302

Effect of cosmic...

to be high (about 5%), the tempe of mitodis fell. The cenditions of cosmic flight stimulated the growth intensity compared to the standards. The following microscopic morphology features of the experimental cultures confirm this fact: (a) development of a more basiphyllic and powerful gif, (b) growth of a thicker intertwining of sycelia, (c) lengthy growth of well-developed gifs. Data on the survival of the 8594 and 2577 stems are not completely valid since the concentrations of the opere suspensions of the control and experimental cultures were determined visually from the suspension turbidity. The morphology changes in the colonies were investigated on the act. crythreus 8594 and act. aureofaciens LSB-2201. Obtained data show that the morphology changes in the actinomyces, both in the experiment (Cosmic flight) and control, lie within the same limits. The cytology analysis of agricultural plant seeds affected by cosmic flight was conducted by studying the chromosome impairment in the ana- and telophases of the first mitosis. Obtained results

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s/560/61/000/010/011/016 D298/D302

Effect of cosmic...

showed that in all the investigated plants there is a certain increase of cells with chromosome changes, and in only 2--winter wheat and Spartanet's peas-is this increase statistically valid. There are 4 figures, 2 tables and 5 references: 4 Sovietbloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: S. B. Pipkin, W. N. Sullivan, Aerospace Med., 30, 585, 1955.

May 3, 1961 SUBMITTED:

Card 4/4

S/205/61/001/004/027/032 D298/D303

AUTHORS:

Khvostova, V. V. and Nevzgodina, L. V.

TITLE:

A cytological analysis of the causes of resistance to

in plants

PERIODICAL:

Radiobiologiya, v. 1, no. 4, 1961, 611-618

TEXT: In previous works by S. A. Valeva (Ref. 1: Biofizika, 5, 244, 1960) and by V. V. Khvostova and L. V. Nevzgodina (Ref. 2: Tsitologiya, 1, 403, 1959) it was found that the greater sensitivity of the bud to radiation was caused by the fact that more chromosome reconstructions occur in their cells which leads to death of some of the cells and to inhibition of growth. The authors set out in the present work to clarify which of the processes of chromosome reconstruction formation proceeds differently in the cells of plants resistant to radiation and plants sensitive to radiation. For a comparative study, the air-dried seeds (about 8% moisture content) of fodder peas and Kapital variety table pea

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S/205/61/001/004/027/032 D298/D303

A cytological analysis ...

were irradiated with gamma-radiation from a Co 60 source at an intensity of 450 r/min. and with fast neutrons. In the latter case the pea seeds were irradiated in the horizontal channel of an APT (IRT) reactor in a mixed stream of fast neutrons and gamma-rays at a distance of 240 cm from the active zone. The total dose received by the seeds in 5 hours of irradiation in the channel was 500 r from fast neutrons and 270 r from the gamma-rays. It was found that the seeds of the fodder pea were more resistant to gamma-radiation than were the Kapital pea seeds, judged on the criterion of "damageability"-the percentage of anaphases with chromosome reconstructions in the first mitoses of the radicles and the mean number of reconstructions per anaphase. No difference in the sensitivity to fast neutron activity was noted. Storage of the fodder pea, irradiated with gemma-radiation for 1 and 6 months and also with fractional irradiation at intervals of 1 month, showed no increase in the number of chromosome reconstructions. Furthermore, no change in the number of chromosome reconstructions was noted in seeds irradiated with neutrons. Storage of the Kapital pea seeds, irradiated with gamma-

Card 2/4

S/205/61/001/004/027/032 D298/D303

A cytological analysis ...

radiation for 1 and 6 months and also with fractional irradiation, showed that the number of chromosome reconstructions increased markedly. Storage of seeds irradiated with neutrons gave a much lower rise in the number of chromosome reconstructions. The OHE of neutrons compared with gammaradiation was 40 times more with the fodder pea and 10 - 15 times greater with the Kapital variety, judging from the percentage of anaphases with chromosome reconstructions. ZAbstracter's note: OHE not defined. Perhaps "obshchaya biologicheskaya effektivnost' (general biological effectiveness)"]. A study of the types of reconstructions showed that, after neutron irradiation of the seeds, chromatide bridges comprised about 10% of all the bridges, whereas after gamma-irradiation they comprised about 30%. Storage of the seeds irradiated with neutrons gave no change in the number of reconstructions, but the percentage of chromatide bridges increased. With storage of the Kapital seeds irradiated with gamma-radiation, the percentage of chromatide bridges almost doubled. U. N. Bregadze helped with irradiation of the seeds in the reactor and in calculating the doses of fast neutrons. There are 3 tables and 13 references: 6 Soviet-bloc and 7 non-Soviet-bloc. The 4

Card 3/4

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

A cytological analysis ...

S/205/61/001/004/027/032 D298/D303

most recent references to the English-language publications read as follows: 0. Gelin, L. Ehrenberg, S. Blixt, Agric. hort. genet., 16, 1/2, 78, 1958; A. V. Beatty, J. W. Beatty, Genetics, 45, 3, 331, 1950; J. D. Adams, R. A. Nylan, Rad. Res., 8, 2, 111, 1958; G. J. Neary, S. M. Tonkinson, F. S. Williamson, Int. J. Rad. Biol., 1, 3, 201, 1959.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR (Institute of

Biophysics, AS USSR), Moscow

SUBMITTED: March 20, 1961

Card 4/4

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

KHVOSTOVA, V.V.; KIKNADZE, I.I.; FILATOVA, I.T.

Nucleic acids in cells of the meristem of rootlets of pea varieties with varying radiosensitivity. TSitologiia 3 no. 2:183-188 Mr-Ap '61. (MIRA 14:4)

1. Laboratoriya radiatsionnoy genetiki Instituta biofiziki AN SSSR, Moskva i Laboratoriya obshchey tsitologii Instituta tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk. (NUCLEIC ACIDS) (PLANTS, EFFECT OF RADIOACTIVITY ON) (PEAS)

KHYOSTOVA, V.V.; PRAVEDNIKOVA, G.L.

Study of meiosis in constant 56-chromosome intermediate forms of Triticum-Agropyron hybrids. Dokl.AN SSSR 138 no.1:215-218 My-Je '61. (MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR i Institut tsitologii i genetiki Sibirskogo todeleniya Akademii nauk SSSR. Predstavleno akademikom N.V.TSitsinym.

(RITICUM_AGROFYRON HYBRIDS)

(CHRCMCSOMES)

GLEMBOTSKIY, Ya.L.; PROKOF'YEVA-BEL'COVSKAYA, A.A.; SHAMINA, Z.B.;
KHVOSTOVA, V.V.; VALEVA, S.A.; EYGES, N.S.; NEVZDOGINA, L.V.

Effect of space flight factors on the heredity and development in actinomycetes and higher plants. Probl.kosm.biol. 1:236-247 '62. (MIRA 15:12) (SPACE FLIGHT—PHYSIOLOGICAL EFFECT)

S/865/62/002/000/016/042 D405/D301

AUTHORS: Khvostova, V.V., Prokof yeva-Del govskaya, A.A.

Sidorov, J.N. and Sokolov, N.N.

TITIE: Effects of space flight conditions on seeds of high-

er plants and an actinomycetes

SOURCE: Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisakyan and V. Yazdovskiy. Moscow, Izd-vo AN SSSR, 1962,

153-163

TEXT: The seeds of plants and the spores of actinomycetes were selected from the viewpoint of their chromosome stage and owing to their practical value in prolonged space flights. The experiment al method is described. In the case of seeds, the genetic effect was estimated by the number of cells with chromosome abberations in the rootlets. It was found that the percentage of cells with chromosome abberations in the first mitoses of the rootlets of the wheat NNP-186 (PPG-186) increased after flight on the space ships Vostok and Vostok-2. The same effect was observed in pea seeds.

Card 1/2

8/747/62/000/000/016/025 D296/D307

Kuzin, A. M., Isayev, B. M., Khvostova, V. V., Tokarskaya, AUTHORS:

V. I. and Bregadze, Yu. I.

The biological effect of ${\tt C}^{14}$ incorporated into living TTTLE:

Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk SOURCE:

AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 267-273

TEXT: After the performance of nuclear tests the content of radio-active carbon in the atmosphere increased between 1955 and 1958 at 5% annually. When assessing the possible biological effects of these doses they are usually estimated by the radiosensitivity of living tissues exposed to the external source of radiation. These calculations tions fail, however, to take into consideration the special geometry of incorporation of C¹⁴ into radiosensitive structures such as chromosomes as well as the so-called transformation effect in DNA molecules ($C^{14} \rightarrow N^{14}$). These effects may lead to more frequent aberra-Cará 1/3

CIA-RDP86-00513R000722510007-7" APPROVED FOR RELEASE: 06/13/2000

S/747/62/000/000/016/025 D296/D307

The biological effect ...

tions than expected from calculations on the basis of the dose to which the cells are exposed. The authors compared the biological effect of ${\rm C}^{14}$ incorporated into plant seedlings, with the effect of exposure to external gamma radiation emitted by ${\rm Co}^{60}$. Normally growing 10-day old plants were placed into a photosynthesis chamber containing ${\rm C}^{14}$ 02 (total activity 100 μ C, volume of chamber 22.5 dm³); radioactivity of the inner layer of the plants was estimated on scintillation counters and the tissues were investigated cytologically, counting the proportion of micronuclei and the mitotic index. The percentage of cells with chromosome aberrations increased from 0.16% in the control plants to 0.26% in the experimental plants. Plant cells exposed to more than double the dose of radiation (Co⁶⁰) showed a slight increase in the number of aberrations but calculation revealed that the mutagenic effect of incorporated ${\rm C}^{14}$ was ten times higher than that of an equal dose of external irradiation.

This fact shows that the transformation effect ${\rm C}^{14} \to {\rm N}^{14}$ as well as Card 2/3

The biological effect ...

8/747/62/000/000/016/025 D296/D307

the special geometry of the incorporation of \mathbf{C}^{14} are factors to be considered further. There is 1 figure and 1 table.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moskva (Institute of Biological Physics, AS USSR, Moscow)

Card 3/3

S/747/62/000/000/025/025 D243/D308

AUTHORS: Khvostova, V. V. and Nevzgodina, L. V.

TITLE: The causes of the radiostability in plants

SOURCE: Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 358-366

TEXT: The present work was aimed at determining at which stage the formation of chromosome reorganization proceeds differently in radiosensitive and radioinsensitive plant cells. Air-dried seeds of maple and Capital peas were irradiated with total doses, over 5 hours, of 270 r of Co⁶⁰ f rays at 450 r/min, and 500 r of fast neutrons. Maple pea seeds were found to be more resistant to f rays, while both types were equally susceptible to fast neutrons. The seed reaction, as measured by the percent of anaphase cells with chromosomal reorganization, was more uniform after neutron than after radiation, especially in Capital peas. Two series of experiments, with 7500 r and 5000 r of f radiation respectively, were then carried out to study the effect of chromosome reorganization, in factor and 1/2

SYUY CHEN -MAN ! [Hau Ch en-man]; KHVOSTOVA, V.V.

Effect of fast neutrons on the development of winter wheat PPG-186. Radiobiologiia 2 no.61926-930 *62 (MIRA 16:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

¥

KHVOSTOVA V. V., and VALEVA, S. A.,

"Cytogenetic Analysis of the Sensitivity of Plants to Different Kinds of Radiation."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands, 2-10 Sep 63

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7

KHVOSTOVA, V. V., MOZHAYEVA, V. S., and EYGES, N. S.,

"Effectiveness and Specificity of Ionizing Radiations and Some Chemical Substances in Inducing Mutations in Winter Wheat."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands, 2-10 Sep 63

KHVOSTOVA, V.V.; YACHEVSKAYA, G.L.; LUNKINA, A.N.

Analysis of the genetic structure of constant 56-chromosomal triticum-agropyron hybrids. Izv. SO AN SSSR no.4. Ser. biol.-med. nauk no.1:76-78'63. (MIKA 16:8)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR i Nauchno-issledovatel'skiy institut sel'skogo khozyaystva tsentral'nykh rayonov nechemozemnoy polosy.

L 19h53-63 EWT(1)/FCC(w)/FS(v)-2/BDS/ES(a)/ES(j)/ES(c)/ES(k)/ES(t)-2/EEO-2/ES(v) AFFTC/AMD/AFMDC/ESD-3 Pb-h/P1-h/Po-h/Pq-h/Pe-h TT/A/RD/DD ACCESSION NR: AP3007352 S/0293/63/001/001/0186/0191

AUTHOR: Khvostova, V. V.; Gostimskiy, S. A.; Mozhayeva, V. S.; Nebzgodina, L. V.

TITLE: Further study of the influence of conditions of space flight 20 on chromosomes of primary roots of pea and wheat sprouts

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 1, 1963, 186-191

TOPIC TAGS: space flight effect, chromosome reconstruction, 660-Mev proton, cobalt 60 Gamma ray, Vostok 1, Vostok 2, Vostok 3, Vostok 4

ABSTRACT: Dry seeds of winter wheat (PPG-186) and peas ("Kapital" variety) were exposed to effects of space flight on the four Vostok spaceships. A cytological analysis of the sprout roots of seeds indicated that exposure to space flight resulted in a small but statistically significant increase in chromosome reconstructions. The percentage of reconstructions does not depend on the duration of flight. More reconstructions were found in seeds flown in Vostok-2 than in seeds flown in Vostok-3, in which there was a distinct,

Card 1/2

L 19453-63 ACCESSION NR: AP3007352

but not statistically significant increase. There was no increase in the number of reconstructions in seeds flown in Vostok-4. Control seeds were subjected to radiation and vibration in an attempt to identify which aspects of space flight were responsible for the increase. Exposure to vibration (70 eps; amplitude, 0.4 mm) for 4 hr did not increase the number of reconstructions. Exposure of seeds to 660-Mev protons (dose 1940 rad; rate, 43/min) was no more effective as far as the number of reconstructions is concerned than exposure to Co⁶⁰ y-rays (dose, 1940 rad; rate, 289/min). Orig. art. has: 4 tables.

ASSOCIATION: none

SUBMITTED: 24Apr63

DATE ACQ: 210ct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 007

OTHER: 001

Card 2/2

SHKUTINA, F.M.; SHEPELEV, V.M.; KHVOSTOVA, V.V.

Study of fertility and the characteristics of meiosis in wheatrye amphidiploids. Biul. MOIP. Otd. biol. 69 no.1:20-27 Ja-F '64. (MIRA 17:4)

DUBININ, N.P., red.; KHVOSTOVA, V.V., kand. blol. nauk, red.;
FCHELINTSEVA, G.M., red.

[Radiation and plant breeding] Radiatsiia i selektsiia
rastenii; sbornik statei. Moskva, Atomizdat, 1965. 205 p.

(MIRA 18:12)

REVOSTOMA, V.V.; ELICHUMI, K.A.

Partial removal of injurious radiation effect in teriey seeds.

Radiobiologiia 5 no.1:136-139 '65. (MIRA 18:3)

1. Institut biologicheskey fiziki AV SSSE, Mockve.

ACCESSING WART APROLETES

(BY/0705/85/005/005/005/005/004/0/0445)

577724155:039.11

AUTHOR: Autostova, V. V.I. Monbayeva, V. Si

TITLE: Matagenic effect of genes rays and fast neutrons on vinter wheat seeds

SOURCE: Radiobiologica, v. S. no.: 57*1665, Manuals

(COPIC TAGS: genes ray, fast neutron; seed) Chromosomal aborestion, mutation, mitosis wheat

ABSTRACT: Analysis of the first generation of vinter wheat plants (PPC-185 variety)
Tyrealed that after the seeds were freedated with fast heutrons the shoots overvintered much sore poorly than they did when the seeds were irrediated with games
rays: Games rays in dones of up vv 500 in produced an insignificant number of chromosomal aborestions in the first mitoses of the roots. The RDE of I had of fast
neutrons was over 400 as compared with about 10 for smissials): A comparison of the
maximum satagenic affect of sat neutrons and genes rays showed that neutrons prodiaced approximately 5 times as also parted with its and rays. Showed that neutrons prodiaced approximately 5 times as also parted winter wheat forest that proved to

Card 1/2

Incorpted & Control of the Control o			
ACCESSION NR: AP50157/35	a diseases (rust		
With short, sturgy at the resulted was also resistant to rust owig association institut blooglobes		The neutrons, One of them 68, Utables,	
physics, AM SSSR) SUBMITTED) 21May64	BECH OO	MORGON (INSTITUTE OF BIG-	
80.183 80A 015 A	(THEN; 2001)		

LATIONA-E FEG(3)/ETT(a)

ADDISSION NR: APSODESS

APPROXE: Debiting N. P. (Qurresponding member AN ESSE)) Ebrowlevs, Y.V. (Candidate of biological sciences)

25

27

TITLE: Atomic energy and selection

SOURCE: Privots, no. 3, 1965; 25-31

TOPIO TACS: nuclear redistion; unclear particle, satistion, agricultura/ Erectoid 72 seast, PRO 106 sheet, Radiola 1175 bean, Radiola 1177 bean, Chudo Grusii soya bean, Universal soya bean, Exra potato, Bedor, potato, Ramyaya Rosa potato

ARSTRAUT: The effect of storic energy on the callular heredity of plants is discussed; 11 is proposed to apply may antivessents in this field to the Curther development of plant salembion (envinced to its present state by 1.1. Micharia and N. 1. Veyiloy). Confession redistion has been applicate the growth of commercial fungi from natural send, thus increasing the production of artibiotics.

Bee redistion courses, isotopes 6650 and Ge¹³⁷, passa-reys, and fast neutrons were used for the irradiation of seeds and outling. Agricultural laboratories directed Geri 1/5

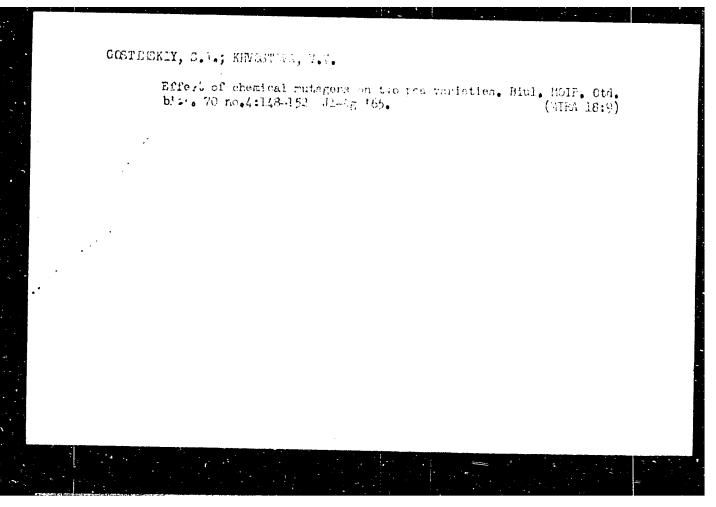
A1084-65 MOUSSION-HRI APSOCERS

Card 2/3

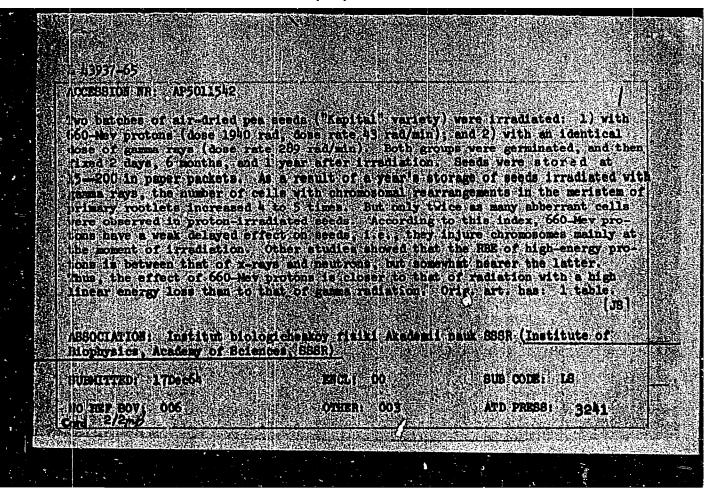
12

the redicactive mutation research toward goshinations of physical strength with resistance to infections and climatic hasards; also, new fruit distribution along the branch (convenient for mechanised parvesting) and improved mutritive properties of new breeds combined with an impreased crop were achieved. A wheat mutant, Erectoid-72 (obtained by gamma-ray breatment), gave a crop increase of bils in a cold, rainy climate. Hence types of soft wheat crossed with the initial PPC-186 wheat produced a variety more resistant to climatic basards but still preserving the high qualities of grain typical for soft wheat. An improved cotton mutant 108-F was obtained at the Unbek Academy of Sciences by gamma-ray 00-0 (200r) irradiation of the plant in the budding stage. The Institute of Cytology and Genetics of the Siberian Branch of the Academy of Sciences applied this technique to the improvement of potato types Euron, Sedoy, and Rannynya Rosa; their tubers were treated by gamma-(1500-3000r) and x-rays (2000-8000r) and the grafts by x-rays in doses of 100, 600; 800 am 1000r; The amount of altered plants produced was correspondinglys 2 186, 7.6 and 0.63%. Immeras potato seeds treated with gamma-rays of CoO fast neutrons, and chemical mutation agents showed promising results. The first radiation plants were obtained at the Estalchtari (Georgia) Agricultural Station by the selection specialist 8. C. Teodotedas. Crops of beans Radiola-1175 and Radiola-1177 accessed the standards by 60-905, and the soys beans

L 41084-65 ACCESSION MR. APSO08826 Universal and Gnodo Grusil Singlet increased groups ton and elaptability to silinatio differences. The compination of involvidisation with redistion has produced new forms highly resistant to the Graheler of Linescotions from the wild forms. Although the mitams obtained require additional salection before achievement of the final results, they show better plaracteristics than those of the intrasortal louridisation Cols. Art. Des . Dippo ographs ASSCRIATION: Laboratoriya sudiatelomby genetiki, Instituta brologioheskoy field All SCOR MOSCOL (Douglas of Ballation Owner De Libritate of Biological Physic) (RPES ILA STEMETER: O ESCLY CO SUB CODE: NP. 13 EO ELF-8971 000 OTHER) OUR Cord 3/3



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GOSTIMSKIY, S.A.; KHVCSTOVA, V.V.

Change in the rate of chromosome reorganization induced by ethylenimine in the first mitosis of pea rootlets. Dokl.

AN SSSR 162 no.1:197-200 My 165. (MIRA 18:5)

1. Institut biologicheskoy fiziki AN SSSR. Submitted June 25, 1964.

4.4

EL'SHUNI, K.1.: KHYOSTOVA, V.V.; STOLETOV, V.N.

Fartial removal of damaging irradiation effect and the mutation process in gramineous plants. Genetika no.3:70-74 S 165.

(MIRA 18:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted March 30, 1965.

NAMESTNIKOV, V.S. (Novosibirsk); KHVOSTUNKOV, A.A. (Novosibirsk)

Creep in duralumin under both constant and variable loads.

PMTF no.4:90-95 N-D '6C. (MIRA 14:7)

(Creep of metals)

(Duralumin)

ACC NR: AP7005133

SOURCE CODE: UR/0126/66/022/004/0591/0597

AUTHOR: Lerinman, R. M.; Khvostyntsev, K. I.; Nikanorov, M. A.; Anitov, I. S.; Ksenofontova, T. B.

ORG: Institute of Metal Physics, AN SSSR (Institut fiziki metallov AN SSSR)

TITLE: Combined effect of plastic deformation and aging on the structure and properties of

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 4, 1966, 591-597

TOPIC TAGS: titanium alloy, metal aging, plastic deformation, phase composition, metal recrystallization / TS6 titanium alloy

ABSTRACT: The effect of plastic deformation (rolling with degrees of deformation amounting to 3, 10 and 40% and aging(at 480°C for 2, 10, 30 and 100 hr) on the fine structure (the kinetics of decomposition of the β -phase, dispersity and the distribution of the α -phase) of TS6 titanium alloy (3.22% Al, 3.42% Mo, 7.80% V, 10.80% Cr, Q.18% Fe, 0.03% C, 0.01% Si, 0.07% O2, 0.011% $\rm N_{2}$, with Ti as the remainder) was investigated by means regular and electron microscopy and measurements of hardness and tensile strength. It is shown that plastic deformation accelerates the decomposition of the metastable β -phase and results in a more fine-Cord 1/2

UDC: 548,526

ACC NR: AP7005133

-grained and uniform structure devoid of undecomposed boundary-layer and intragranular re-CIA-RDP86-00513R000722510007-7 sidues of the β-phase, which, together with the high degree of dispersity of the particles of the segregating α -phase, leads to a general improvement in mechanical properties. Quenching the alloy from 800°C following 3% deformation results in polygonization; following 10% deformation, in partial recrystallization; and following 40% deformation, in total recrystallization of the structure. In this last case, since the decomposition of the recrystallized β-phase occurs slowly, a marked change in the alloy's hardness is observed only after 100 hr of aging at 480°C. This may be a cause of the heterogeneity of the alloy's properties following its hardening by heat treatment. The highest hardening rates were observed for the specimens subjected to 3 and 10% deformation prior to their quenching, which indicates that an incompletely recrystallized structure is favorable to the increase in mechanical strength following aging. Orig. art. has: 7 figures, 3 tables.

SUB CODE: 20/ SUBM DATE: 05Feb66/ ORIG REF: 001/ OTH REF: 001

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7 I 8320-56 EWI (m)/EWP(t)/EWP(b) ACC NRI AP5025722 IJP(c) SOURCE CODE: UR/0286/65/000/018/0075/007 INVENTOR: Anitov, I. S.; Nikanorov, M. A.; Khvostyntsev, K. I. ORG: none 74,55 8 74.51 7,44,55 TITLE: High-strength titanium-base alloy. Organization of the State Committee of Defense Engineering USSR (Organizatsiya gosudarstvennogo komiteta po oboronnoy tekhnike USSR)] SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 75 TOPIC TAGS: titanium alloy, aluminum containing alloy, molybdenum containing alloy, vanadium containing alloy, chromium containing alloy ABSTRACT: This Author Certificate introduces a high-strength titanium-base alloy containing aluminum, molybdenum, vanadium, and chromium. To improve ductility, the alloy composition is as follows: 2.5-3.5% aluminum, 3.2-4.5% molybdenum, 6.5-7.5% vanadium, 10-11.3% chromium, and the balance titanium. [ND] SUB CODE: 11/ SUBM DATE: 01Jun64/ ATD PRESS: 4/49

ACC NR. AP7001528

SOURCE CODE: UR/0193/66/000/012/0005/0006

AUTHOR: Khvotostukhin, L. A.; Pleshivtsev, N. V.; Bibayev. V. N.

ORG: none

TITLE: Machining of 1Kh18N2AG5 stainless steel

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 12, 1966, 5-6

TOPIC TAGS: stainless steel, high strength steel, chromium, nickel, manganese steel, nitrogen containing steel, steel mechanical property, steel machining/lKh18N2AG5

ABSTRACT: The Moscow Institute of Aviation Technology has developed low-nickel high-strength stainless lKhl8N2AG5(EP-26) steel as a substitute for lKhl8N1OT[AISI321] steel. The lKhl8N2AG5 steel, in which a great part of the nickel is replaced by manganese and nitrogen, belongs to the austenitic-ferritic class and contains more than 70% austenite. The steel has high mechanical properties, a tensile strength of l17 kg/mm², a yield strength of 50 kg/mm², an elongation of 30%, an HB hardness of 240 kg/mm², and quite satisfactory machinability. It is recommended for aircraft engines and other industrial uses. Sintered carbide-tipped tools are recommended for machining the steel. Sintered T15K6 and VK8 tips are recommended for rough machining and T15K6 tips for semifinished and finished machining. A satisfactory surface finish is produced at cutting speeds above 40 m/min. Subsequent burnishing with a diamond

Card 1/2

UDC: 621.9: 669.14.018.8

ACC NR AP7001528 APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7" tool greatly improves the surface finish and increases the microhardness of the surface layer. [MS]

SUB CODE: 11, 13/ SUBM DATE: none/ ATD PRESS: 5110

KHVOYNIK, P.

On the agricultural produce market. Vnesh.torg. 41 no.5:39-48 °61. (MIRA 14:4)

PUGACHEVSKIY, V.P.; KHVOVNITSKAYA, M.A.

Protective containers for working with radioactive substances. Vest. rent. i rad. 35 no. 6:80 N-D '60. (MIRA 14:2)

1. Iz Kiyevskogo instituta gigiyeny truda i profzabolevaniy (direktor - dotsent L.I. Medved)). (RADIOACTIVE SUBSTANCES—SAFETY MEASURES) (RADIATION PROTECTION)

KHVOYNITSKAYA, M.A.; PUGACHEVSKIY, V.P.

Hygienic evaluation of labor conditions during the use of radioactive isotopes in metallurgy. Vrach. delo no.8:93-94 Ag '60. (MIRA 13:9)

1. Radiologicheskaya laboratoriya Kiyevskogo instituta gigiyeny truda i professional'nykh zabolevaniy.

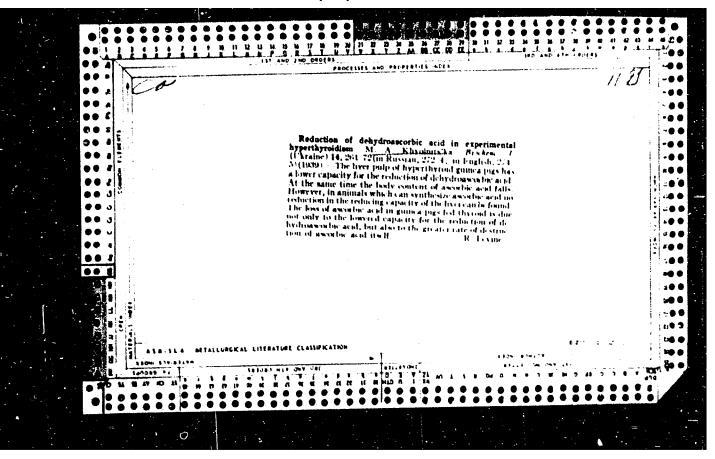
(RADIOACTIVITY_SAFETY MEASURES)

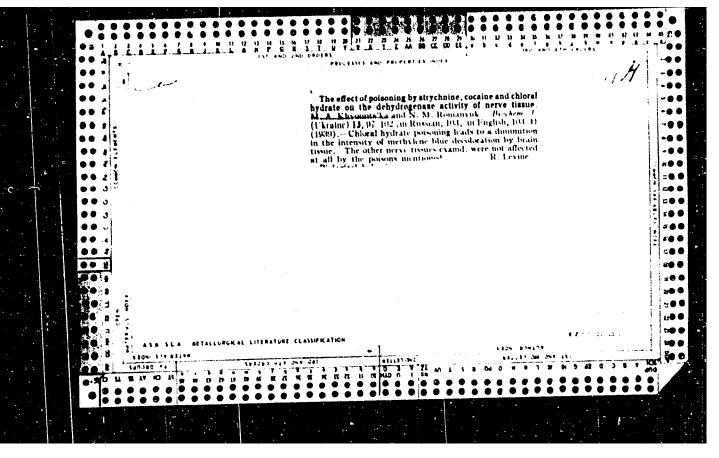
(ISOTOPES_INDUSTRIAL APPLICATIONS)

ALEKSEYEV, A.F.; BORISENKO, A.P.; GLIKSON, V.I.; GROMOVA, N.F.; KRASOVSKAYA, A.I.; HOVIKOVA, N.N.; OVCHAROVA, A.I.; KHVOYHIK, P.I.; CHURAKOV, V.P.; SHASTITKO, V.M.; GEORGIYEV, Ye.S., red.; SHIL DERUT, V.A., red.; LEVCHUK, K.V., red.; LEKANOVA, I.S., tekhn.red.

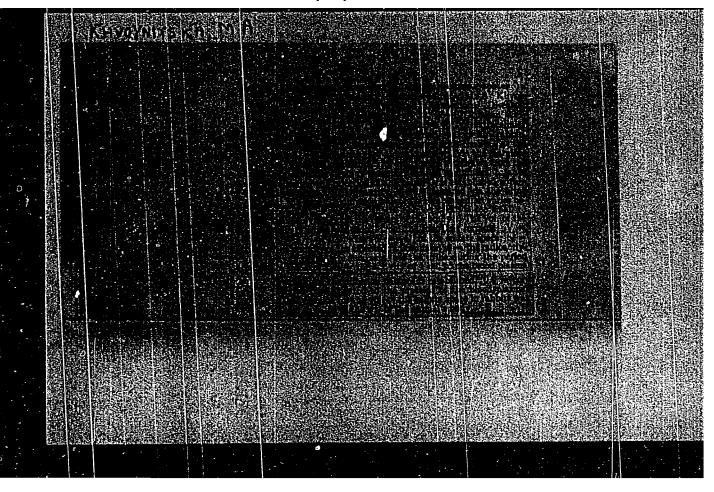
[Prices on the world capitalistic market; a handbook] TSeny mirovogo kapitalisticheskogo rynka; spravochnik. Moskva, Vneshtorgizdat, 1958. 391 p. (MIRA 12:7)

1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut.
(Prices)





"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7



KHVOYNITSKAYA, M.A.

Water distribution in the body following exposure to high environmental temperature. Biul. & sp. biol. med. 47 no.5:53-56 My '59 (MIRA 12:7)

1. Iz Instituta gigiyeny truda i profzabolevaniy (dir. - dotsent L.I. M. Aved'), Kiyev. Predstavlena deystvitel'nym chlenom AMN SSSR S.Ye. Severinym.

(HEAT, eff.

on water distribution (Rus))

(WATER, metab.
eff. of heat distribution (Rus))

KHVOYHITSKAYA, H.A.

Changes in water-salt metabolism in radiation sickness induced in rabbits by radiophosphorus. Med.rad. 4 no.7:88-89 J1 159.

(MIRA 12:9)

1. Iz Kiyevekogo instituta gigiyeny truda i profzabolevaniy.

(RADIATION INJURY exper.)

(PHOSPHORUS radioactive)

(BODY FLUIDS)

KHYOYNITSKAYA, M.A. [Khvoynyts ka, M.A.]

Method for simultaneous determination of the volume of extracellular "sulfate" space and the volume of circulating blood in an intact organism by the use of radioactive sulfur and phosphorus. Ukr.bio-khim.shur. 31 no.5:759-764 159. (MIRA 13:4)

1. Institute of Labor Hygiene and Occupational Diseases, Kiev. (BODY FLUIDS) (SULFUR-ISOTOPES) (PHOSPHORUS-ISOTOPES)

KHVOYNITSKAYA, M.A.; PUGACHEVSKIY, V.E.

Hygienic requirements in work with continuously radioactive luminous paint. Vrach. delo no.12:126-129 D '61. (MHA 15:1)

1. Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny truda i profzabolevaniy.

(LUMINOUS PAINT) (RADIOACTIVE SUBSTANCES_TOXICOLOGY)

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BABENTSHEV, V.M.; KHVOYNITSKIY, V.I.

Automatic device for rate-measuring potentiometric and coulometric titration. Zav.lab. 26 no.1:113-114 160. (MIRA 13:5)

1. Kuybyshevskiy industrial'nyy institut.
(Titration)

KHVOYNOVSKIY, A.

USSR/Medicine, Veterinary - Infectious Diseases

War 52

"Ring Test for Diagnosing Brucellosis of Cows (Translated into Russian from 'Medycyna Veterinaryina,' No 6, 1951)" S. Runge, T. Lozinskiy, A. Khvoynovskiy, T. Dzyubek

"Veterinariya" Vol XXIX, No 3, pp 55, 56

Describes in detail the technique of this test, which is carried out on lactating cows.

216136

EHVLLI, A. M.

Khvol', A. K. "Rickets in the sar and postsor period," Trudy VI Vsesoyur. streets det. vrachey, postyashch. pasyati prof. Filatova, Moscou, 1946, p. 220-23

50: U-3064, 10 April 1993, (Amtopis Inhurnal Ingkh States, N. 3, 1/40)

KHVUL', A.K.

Pulmonary function in experimental rickets. Pediatriia 39 no.6: 10-15 N-D *56. (MLRA 10:2)

1. Iz patomorfologicheskoy laboratorii (zav. - dotsent N.A. Maksimovich) Ukrainskogo nauchno-issledovatel'skogo instituta olkhreny materinstva i detstva (dir. - zasluzhennyy vrach USSR M.D.Burova)

(RICKETS, experimental, lungs in (Rus)) (LUNGS, in various diseases, exper. rickets (Rus))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722510007-7"

.ba Jour: Red Zhur-Diol., No 12, 1958, 92944.

Into or : Envul', A.M., Vende, V.P.

Yasa : 18 Marainana SBR.

while : Influence of the Synthetic Complex of William in 2 and

Projects on the Course of Richets in Children.

Orac Pab: V sb.: Viterainy. 3. Klyev, AM USSR, 1958, 186-173.

Abstract: No abstract.

Card : 1/1

KHVUL', A. M.; GUSOVSKIY, Ya. M.; VENDT, V. P.

Development of hypervitaminosis D after administration of synthetic vitamin D preparations. Pediatrila no.11:34-39 161.

(MIRA 14:12)

1. Iz Ykrainskogo nauchno-issledovatel¹skogo instituta okhrany materinstva i detstva imeni Geroya Sovetskogo Soyuza prof. P. M. Buyko (dir. kandidat meditsinskikh nauk A. G. Pap)

(VITAMINS__D) (HYPERVITAMINOSIS)

SVYATKINA, Klavdiya Andreyevna, prof.; KHVUL', Anna Markovna, doktor med. nauk; RASSOLOVA, Mariya Makeeyevna, kand. mod. nauk; POKOMAKEVA, P.A., prof. red.; DETIMOVA, Ye.P., red.

[Rickets] Rakhit. Moskvo, Meditsina, 19(4. 221 p. (MIRA 17:10)

KHVUL', G.M. [Khvul', H.M.]; GUSOVSKIY, Ya.M. [Husovs'kyi, IA.M]; VENDT, V.P.

Influence of large doses of various preparations of vitamin D on the rise of hypervitaminosis under experimental conditions. Ped., akush. i gin. 22 no.4:30-33 '60. (MIRA 14:5)

1. Ukrains'kiy naukovo-goslidniy institut OKhMD im. Geroya Radyans'-kogo Soyuzu prof. P.M.Buyka (direktor - zasluzh.likar URSR M.D. Burova) ta Institut biokhimii AN URSR (direktor - akad.O.V.Palladin). (HYPERVITAMINOSIS) (VITAMINS--D)

KHVUL', R.M.; PECHUK, L.M.; FRIZMAN. M.O.

Antibacterial therapy of cavernous forms of pulmonary tuberculosis in children and adolescents. Ped., akush. i gin. 20 no.6:5-8 '58.

1. Detskiy tuberkuleznyy sanatoriy im. M. Gor'kogo (konsul'tant - kand.med.nauk L.M. Pechuk), Kiyev, Pushcha-Voditsa.

(TUBERGULOSIS)

KLEBANOV, M.A., prof., ABERNMAN, A.A., KSHANOVSKIY, S.A., PRZHEVALISKAYA, L.A., KHVULI, R.M.

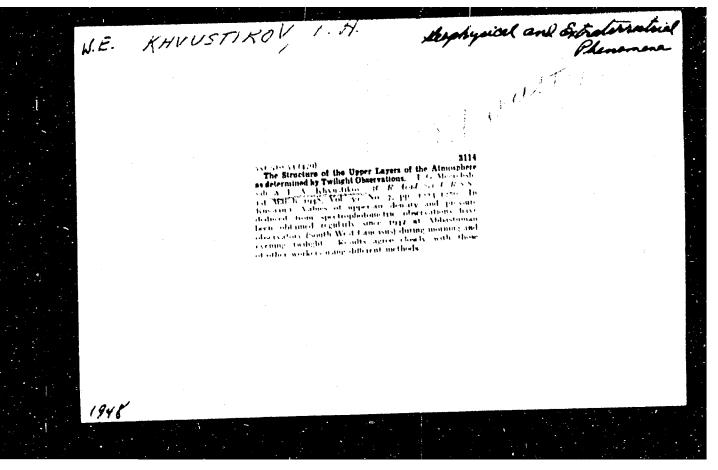
Causes of failure and outcome of prolonged antibacterial therapy of cavernous pulmonery tuberculosis [with summary in French].

Probl.tub. 36 no.6:16-28 158 (MIRA 11:10)

1. Iz Ukrainskogo instituta tuberkuleza imeni F.G. Yanovskogo (dir. dots. A.S. Mamolat).

(TUBERCULOSIS, PULOMONARY, ther.

chemother. in cavitation, causes of failure (Rus)))



BERMAN, G.N. [author]; KHVYL', G.L. (g. Smela) [reviewer].

Shortcomings, leading to idealism in metaphysics ("Number and its theory." G.N. Berman. Reviewed by G.L.Khvyl'.) Mat. v shkole no.5:76-78 S-0 '53. (NLRA 6:9)

(Numbers, Theory of) (Berman, Georgii Nikolaevich, d. 1949)

KHVYLYA, D. S. (and others)

Plowing

Work indicators of disk colters on black-earth and turfy-podzolic soils. Fochvovedenie, No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Undlassified.

KHVYLYA, K. S.

Soils - Analysis

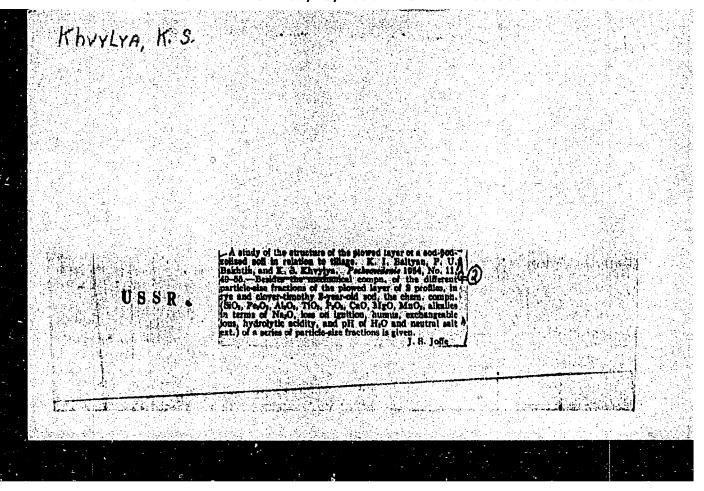
Improvement of the Fadeyev-Vil'yams apparatus for determining firmness of soil structure. Pochvovedenie No. 7, 1952

Monthly List of Russian Accessions. Library of Congress. September 1952. UNCLASSIFIED.

- 1. KHVYLYA, K. S.
- 2. USSR (600)
- 4. Plowing
- 7. Problem of the aim in plowing. Pochvovedenie No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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- 1. KHYAKIN YA.B.
- 2. USBR (600)
- 4. Sheep-Crimea
- 7. Growth of Tsugayskiy sheep in the Crimea, Sots.zhiv. 15, no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, unclass.

KHYAMYALYAYNEN, Khel'vi [Hamelainen, Helvi], finskaya pisatel'nitsa

Two solemn words, peace and friendship. Sov. profsoiuzy 18 no.20:39-40 0 162. (MIRA 15:10) (Finland--Labor and laboring classes) (Peace)

USPENSKIY, V.A.; RADCHENKO, O.A.; GLEBOVSKAYA, Ye.A.; SHISHKOVA, A.P.;

MEL'TSANSKAYA, T.N.; INDENBOM, F.B.; Prinimali uchastiye:

KOLOTOVA, L.F., khimik; CHAGINA, T.P., tekhnik; HASKINA, T.B.,

laborant; VIKULINA, M.N., laborant; POLOVNIKOVA, J.A., fizik;

PETROV, A.K., tekhnik; PONOMAREV, B.P., laborant; KHYAMYALYAYNIN,

L.B., laborant; KLOCHKOV, B.N., laborant; RAGINA, G.M., vedushchiy

red.; SAFRONOVA, I.M., tekhn.red.

[Basic processes of the transformation of bitumens in nature and the problems of their classification] Osnovnye puti preobrazovaniia bitumov v prirode i voprosy ikh klassifikatsii.
Leningrad, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi
lit-ry Leningr.otd-nie, 1961. 314 p. (Leningrad. Vsesoiuznyi
nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy,
no.185). (MIRA 15:4)

(Bitumen--Geology)

GULYAYEVA, L.I.; VINOGRADOVA, A.P.; KHYANINA, A.P.; KARPOVSKAYA, R.R.

Determination of the trace amounts of sulfur in the products of petrochemical synthesis. Weftekhimiia 3 no.2:296-302 Mr-Ap (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

(Sugar--Analysis) (Petroleum chemicals)

GULYANEVA, L.I.; KEYANINA, A.P.

Spectrophotometria determination of the content of sleenels in aqueous solutions. Zav.lab. 30 no.4:417-418 '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

GULYAYEVA, L.I.; KHYANINA, A.P.

Using the pyroanalytic method to determine the fluorine in aluminoplatinum catalysts and catalysis products. Nefteper. i neftekhim. no.7:29-32 164. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut neftekhimicheskikh protsessov.

GULYAYEVA, L.J., KHYANINA, A.P.

Determination of the methanol content of formalin. Zav. lab. 30 no.8:944 '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

KHYAZEVA, A. A., GERSHUNI, G.V. AND FEDOROV, L. N.

"About the Modification of Auditory Sensitivity in Action of Sound During Hypnotic Sleep," Fiz. Zhur., 32m No.5, pp 557-566, 1946

Translation 297, Lulich

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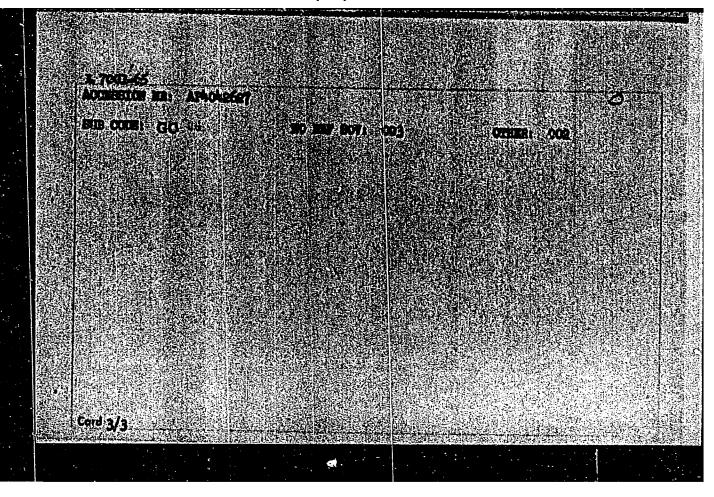
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ACRESIUS HE: APARICE?

gravimetrically after calcining the complete to Ero,. Conlin, nitrilotriacetic and ethylmedissiotetranophic acids hindered has precipitation of the sirconius. Bellevin or the sirconius of the sirconius of the sirconius of the sirconius of the sirconius. Bellevin to the presents of Ero of Er. Belle also precipitated Bb. Ta, its in another the presents of Er of Er. Belle also precipitated Bb. Ta, its in another is the presents of Er of Er. Belle also precipitated Bb. Ta, its in allowing it is a similar another than the malysis of Er alloys. In the snalyzis to solid another, supplicable in the malysis of Er alloys. In the snalyzis to dispose, after the addition of potassine pyroculfus, the solidion was evacorated to demonstrate the solidition of potassine pyroculfus. The solidion was evacorated to demonstrate the solidition of potassine pyroculfus to solidion of Belle as added, and the sentition for 10-15 sinutes; of the solidion of Belle as added, and the resultant solution was beated continuously for 30-b0 minutes. Subsequent to cooling the material use filtered, washed and direct at 110-1800 for 10-15 minutes and brighes. Orig. art. mat. 2 tables.

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KHYBUTIYA-JABUNIYA, O. A. --

"The Bacteria of the Genus Proteus, Their Significance in Food Poisoning, and a Comparative Biochemical and Serological Study of the Strains Isolated From Human and Rodent Faces."

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

TORPAN, B.K., kand. tekhn. nauk, dots.; KHYDRETARV, Kh.Kh. Dedrejärv, H.], inzh.

Investigating the corrosion of steel in the presence of shale ash at high temperatures. Izv. vys. ucheb. zav.; energ. 2 no.7: 105-110 Jl '59. (MIRA 13:1)

1.Tallinskiy politekhnicheskiy institut. (Steel--Corrosion) (Oil shales)

MAMEDOV, Shamkhal; LERNER, G.Ya.; KHYDROV, D.N.

Glycol ethers and their derivatives. Part 65: Synthesis of alkoxymethyl ethers of trichloromethylphenylcarbinol. Zhur.ob.khim. 34 no.1:53-58 Ja 64. (MIRA 17:3)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

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TITLE: Glycol ethers and their derivatives. CVIII. Synthesis of alkoxymethyl ethers of 1-hexyloxy-3-(diethylamino)-2-propanol

SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 8, 1966, 1377-1382

TOPIC TAGS: pesticide, hexyloxydiethylaminopropanol alkoxymethyl ether, ether, chemical synthesis

ABSTRACT: In a search for new pesticides, a series of previously unreported methoxy-, propoxy-, isopropoxy-, isobutoxy-, and isoamyloxy-methyl ethers of 1-hexyloxy-3-(diethylamino)-2-propanol (I) and methoxy-, propoxy-, butoxy-, and amyloxymethyl ethers of 1-vinylmethoxy-3-(diethylamino)-2-propanol (II) were synthesized by a variant of the Williamson ether synthesis, in which α-chloromethyl alkyl ethers are treated with I and II in the presence of NaOH. Composition and properties of the new ethers (III—XII) are given in the table. At 40—50°C in the presence of Na methoxide,

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I reacts with acrylonitrile to form XIII. Compound XIV was obtained by heating (at 75—80°C) a mixture of I with hexamethyleneamine, benzene, and paraformaldehyde. I reacts in benzene solution with thionyl chloride to form XV. Compounds XVI—XX were obtained by the reaction of XV with Na alkoxides at 60—70°C. At 90—100°C XV reacts with hexamethyleneamine to form XXI. Compound XXII was obtained by the reaction of XV with ethylmagnesium bromide. Reaction of XV with potassium acetate yielded XXIII; with potassium isommylkanthogenate XV reacts to form XXIV; and with ethylene glycol XV reacts to form XXV. XXVI is formed in the latter reaction as a by-product. XXVI reacts with α-chloro-methyl ether to form XXVII. Composition and properties of the new ethers are given in the table:

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Com- pound	Yield (in %)	bp (p in mm)	d420	n _D 20	1	^{IR} D		Found %		
no.				מיין	Found	Calc'd	c.	н	N	
. 1	90	126—130° (1)	0.8809	1,4412	69.28	69.49	67.46, 67.31	12.82,	6.46,	Ī
11	90	104-105 (5)	0.9153	1.4500	54.68	55.07	64.23, 64.27	11.57,	5.88 7.66, 7.64	
; 111	54	124-126 (1)	0.8934	1.4340	80.17	80.51	65.71, 65.93	12.40, 12.17	4.90.	
1V	55	141-143 (1)	0.8838	1.4368	89.79	89.81	-		4.67, 4.52	
v	40	135—137 (1)	0.8820	1.4360	69.72	89.81	66.88, 67,36	12.57. 12.52	4.55. 4.59	-
Vi	44	150-152 (1)	0.8800	1.4362	94.23	94.45		-	4.47, 4.88	,
VII	48	166—168 (1)	0.8514	1.4390	98.77	99.10	69.20, 68.89	12.32, 12.81	4.55, 4.55	
VIII	40	161—163 (1)	0.8790	1.4376	'98.77	99.10		-	4.70. 4.65	
1X	52	100—102 (2)	0,9200	1.4396	66.11	66.09	62.21, 62.67	11.19. 11.27	6.35, 6.53	
Х	50	123—125 (2)	0.9076	1.4400	75.22	75.38		· — `	. 5.41, 5.81	
XI .	52	128—130 (0.5)	0.9050	1.4405	78.72	79.04	65.96, 66.31	11.66, 11.82	5.47. 5.28	
XII _3/8	54	149—151 (2)	0.8993	1.4408	84.67	84.25	-	-	5.27. 4.99	- ·

Com-	Yield	bp	d ₄ ,20	n _D 20	20 1	IR _D		Found %	·····
pound ino.	(in %)	(p in mm)	O _L	"D"	Found	Calc'd	С	н	N
XIII	60	162-163 (0.5)	0.8927	1.4438	80.30	80.62	68.00, 67.90	11.67, 11.57	10.10,
XIV	54	172-174 (1)	0.9056	1.4603	103.51	104.01	70.62, 70.55	12.32,	8.48, 6.17
XV•	87	120—122 (1)	0.9172	1.4450	72.41	72.62	62.31, 62.48	11.28, 11.16	5.32, . 5.73
XVI	74	118-120 (1)	0.8595	1.4336	74.17	74.41	68.96, 68.76	13.05. 12.99	5.83. 5.78
XVII	. 61	126—127 (1)	0.8571	1.4341	78.69	79.06	-	_	5.79. 5.81
· XVIII	75	135—136 (*)	0.8532	1.4350	63.33	83.71	70.60, 70.04	12.90,	5.35, 5.49
XIX	70	- 146147 (1)	0.8517	1.4366	88.22	68.36	. –	-	4.77,
\cdot xx	77	154—156 (1)	0.8502	1.4380	92.93	\$3.00	72.19. 72.09	13.42,	4.72, 4.75
XXI	50	170-172 (1)	0.8835	1,4623	97.15	97.60	73.35, 73.17	13.16, 12.88	8.88, 9.25
XXII	46	116-119 (2)	0.8250	1.4354	76.90	77.30	74.06,	13.67, 13.83	5.67, 5.59
* F0	ound %:	C1 14.53,	14.29.	Calcul	lated X	: C1 14	.29.	•	•

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Com-	Yield	bp	di 20	nD 20 '	1	r _d	I	Found %	
no.	(in %)	(p in mm)	طن حر	D.	Feet d	Calc'd	· c	н	N
XXIII	54	144146 (1)	0.9088	1.4366	78.63	78.85	66.24. 66.22	11.18.	5.28, 5.35
XXIV **	54	208—210 (1)	0.9585	1.4912	113.95	114.35	60.76. 60.46	10.59, 10.70	3.66. 3.49
XXV	43	161—163 (2)	0.9200	1.4490	80.17	80.55	65.69. 65.49	11.61, 12.09	5.08, 5.07
XXVI	25	239—240 (2)	0.8997	1.4510	146.77	146.05	69.23, 68.59	12.33, 12.79	7.93, 8.14
nýxx	57	160—162 (1)	0.9202	1.4398	91.34	91.57	64.24, 63.98	11.75, 12.02	4.66, 4.28
•									

** Found %: S 16.59, 16.65. Calculated %: S 16.97.

•	Com-		Са	lculate	1 %		
	pound no.	Formula	, c	п	Ν	•	
	. 1	C13H18NO2	67.53	12.55	6.06		
•	, n	C10 H21 NO2	64.17	11.23	7.42	•	
	.111	C18 H 23 NO2	65.45	12.00	5.09	•	
	iv	C ₁₇ H ₃₇ NO ₃	-	·	4.62		
•	v	C17H37NO3	67.33	12.21	4.62		
	VI	C18 H 30 NO 3	– .	-	4.41		
	\ VII	C ₁₀ H ₄₁ NO ₃	68.88	12.39	4.23	•	
	vin	C19H41NO2	_	-	4.23	•	
•	ı IX	C121125NO3	62.34	10.82	6.06		
	, x	C14H23NO3	-	· -	5:67		
	× xı	C ₁₅ H ₃₁ NO ₃	65.93	. 11.36	5.12		
	XII	C18H23NO3			4.89	•	

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	pound no.	Formula	С	н	N
•	XIII	C14H34N2O2	67.60	11,27	9.85
	. XIV	C2011 10 N2 O2	70.18	12.28	8.18
	XV•	Ciallacino	62.78	10.86	5.64
	XVI	C14H31NO	68.57	12.66	5.71
	, XAII	C15H33NO2	-		5,40
	/ xvm	C16H35NO2	70.33	12,83	5.12
	XIX	C ₁₇ M ₃₇ NO ₂	_		4.88
	XX	C15H39NO2	71.76	12.95	4.65
	: XXI	C ₁₉ H ₄₀ N ₂ O ₂ .	73.08	12.82	8.97
	ixx	C ₁₅ H ₂₀ NO	74.07	13.58	5.90
	XXIII	C18 H31 NO3	65.93	11.35	5.12

		Com-	7	Ca	lculate	d X	· ·		
		no.	Formula	С	В	N	-		
		XXIV ••	C ₁₉ H ₃₉ NO ₂ S ₃	60.48	10.34	3.71	•		
		XXV	C ₁₈ H ₃₃ NO ₃ .	65.48	12.00	5.09		•	
		IVXX	C28H60N2O4	68.85	12.30	7.73			
		IIVXX	C ₁₇ H ₂₇ NO,	63.95	11,60	4.39			
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SUB CODE: 07,0	6/SUBM DATE:	21Jan65/	ORIG REF:	012/			(WA-30;	CBE NO.	12]
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ogo Drogrammi vyvan ya Nama Licasa Francisco	examin the non-in-e	The present authorized to the problem of the proble	considering the em (the "continuous" a known solution of	
ne non-integral solving the property of external states of external st	nal ac lone (bea sh	ear system. The gen	blem of selecting the eral problem is posed	
ard 1/3				

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	A/A/A/E/I
Also given n real numbers	Phimber persylich of transposition (a)=n (n) different n-dimensional vectors into each
of which all the numbers () these vectors, designated by the vector (1) and whi	Ster as coordinates. All of the points of the set of Coviols ly lie in a plane which is perpendicular to h passes, through the point (a.s., ., a) where
It is required to find a poin	Z in the set D
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