ROGOZIN, G.M.; TSYNKOV, M.Yu., kand. sel'skokhozyaystvennykh nauk; LOBANOVA, A.A., kand. sel'skokhozyaystvennykh nauk; RUMYANTSEVA, T.V.; TRUDOLYUBOV, B.A., kand. sel'skokhozyaystvennykh nauk; KUDRYAVTSEV, P.N., doktor sel'skokhozyaystvennykh nauk; LITOVCHENKO, G.R., kand. sel'skokhozyaystvennykh nauk; KOLOBOV, G.M.; IOFE, M.Sh.; KHITRENKOV, G.G., doktor sel'skokhozyaystvennykh nauk; BADIR'YAN, G.G., doktor sel'skokhozyaystvennykh nauk; IVANOVA, A.A.; MAKAROV, A.P.; ALTAYSKIY, I.P.; SPIRIDONOV, A.L., kand. sel'skokhozyaystvennykh nauk; ZHUYKOV, G.G.; BANNIKOV, N.A., red.; IVANOVA, A.N., red.; ZUBRILINA, Z.P., tekhn. red.

[Economics and organization of stockbreeding on collective farms] Ekonomika i organizatsiia zhivotnovodstva v kolkhozakh. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 550 p. (MIRA 11:7)
(Stock and stockbreeding)

TRUDOLYUBOV, B. A.

Sovkhoz imeni Molotova (Molotov state farm). Moskva, Sel'khozgiz, 1952. 171 p.

SO: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

TRUDOLYUBOV, B. A.

Agriculture

Molotov state farm, Moskva, Sel'khozgiz, 1952

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

TRUDOLYUBOV, B.A.; ZHIGLEVICH, B.P., redaktor; MUSHTAKOVA, L., tekhnicheskiy redaktor

[Methods of preparing and feeding hay meal] Tekhnika prigotovleniia i skarmlivaniia sennoi muki. Moskva, Gos. izd-vo selkhoz. lit-ry, 1950. 66 p. (MLRA 10:1)
(Hay)

TRUDOLYUBOV, E. A.

Agriculture

Methods of preparing and feeding hay meal. (Moskva), Sel'khozgiz), 1951

Monthly List of Russian Accessions, Library of Congress , November 1952 UNCLASSIFIED

1. TRUDOLYUBOV, B. A.

2. USSR (600)

4. Stock and Stockbreeding

7. Production successes of the Molotov State Farm, Sotx. zhiv., 14, No. 12, 1952.

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

VIRNIK, D.I., starshiy nauchnyy sotrudnik; ARTEMOVA, N.N., mladshiy nauchnyy sotrudnik; RADKEVICH, D.P., mladshiy nauchnyy sotrudnik; SEROCHKINA, V.P., mladshiy nauchnyy sotrudnik; KUZNETSOV, V.P., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; SPIRIN, Ye.T., starshiy inzh.

Development of a new technology and mechanized continuous production line for the manufacture of edible gelatin from collagen-containing pigskins. Trudy VNIIMP no.13: 84-94 '63. (MIRA 17:5)

BARMASH, A.I., kand.tekhn.nauk; DERGUNOVA, A.A., starshiy nauchnyy sotrudnik; DYKLOP, V.K., kand.bilogicheskikh nauk; DUBROVINA, L.I., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B.; POLETAYEV, T.N.; V rabote prinimali uchastiye; LAVROVA, L.P.; POZHARISKAYA, L.S.; ZUYEVA, L.D.; KALITA, L.A.; NESLYUZOV, A.F.; GOL'DMAN, Ye.I.; MAKEYEVA, M.N.; STEFANOV, A.F.

Use of blood in sausage manufacturing and canning. Trudy VNI IMP no.9:63-74 '59. (MIRA 13:8)

1. Vsesoyuznyy nauchnoy-issledovatel'skiy institut myasnoy promyshlennosti (for Lavrova, Pozhariskaya, Zuyeva, Kalita, Neslyuzov). 2. Spetsialisty Moskovskogo myasokombinata (for Gol'dman, Makeyeva, Stefanov).

(Blood as food or medicine) (Sausages)
(Canning and preserving)

KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik; FREYDLIN, Ye.M., kand.veter. nauk; PEROVA, P.V.; IL'YASHENKO, M.A.; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; PLOTNIKOV, V.I.; KRASIL'NIKOV, R.I., starshiy nauchnyy sotrudnik; FITINGOV, S.N., starshiy nauchnyy sotrudnik; RUSANOV, R.S., mladshiy nauchnyy sotrudnik; KONUSPAYEVA, U.S., mladshiy nauchnyy sotrudnik; Prinimali uchastiye: YAKOVLEV, L.A., prof.; MITROFANOV, V.N.

Sanitary evaluation of the meat of sheep affected with brucellosis. Trudy VNIIMP no.14:87-95 '62. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Kukharkova, Freydlin, Perova, Il'yashenko, Trudolyubova, Plotnikov). 2. Kazakhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy promyshlennosti (for Krasil'nikov, Fitingov, Rusanov, Konuspayeva). 3. Saratovskiy zooveterinarnyy institut (for Yakovlev). 4. Saratovskaya oblastnaya veterinarnaya bakteriologicheskaya laboratoriya (for Mitrofanov).

(Meat inspection) (Brucellosis in sheep)

GAYEVOY, Ye.V., kand. sel'skokhoz. nauk; PANYUKIN, I.I., kand. tekhn. nauk; MASHKOV, A.N., kand. sel'skokhoz. nauk; DINARIYEVA, G.P., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; RADKEVICH, L.P., mladshiy nauchnyy sotrudnik; BRYUZGINA, G.A., mladshiy nauchnyy sotrudnik

Use of formaldehyde compounds for the conservation of fur and garment sheepskins. Trudy VNIIMP no.15:24-43 '63. (MIRA 17:5)

BARMASH, A.I., kand. tekhn. nauk; ADUTSKEVICH, V.A., kand. vet. nauk; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; POLETAYEV, T.N., mladshiy nauchnyy sotrudnik

Technology of the production of canned tongue. Trudy VNIIMP no.11: 87-105 '62. (MIRA 18:2)

TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik

Sanitary inspection of cattle carcasses infected by coli in the depths of muscular tissues. Trudy VNIIMP no.11:194-205 '62. (MIRA 18:2)

KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik; IRNOVA, P.V., kand. veterin. nauk; IL'YASHENKO, M.A., kand. veterin. nauk; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik

Microflora of uncooked smoked sausages. Trudy VNIIMP no.12:112-121 '62. (MIRA 18:2)

GAYEVOY, Ye.V., kand. sel'skokhoz. nauk; VASSERMAN, B.A., inzhener-tekhnolog; RADKEVICH, D.P., starshiy inzhener; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; BRYUZGINA, G.A., mladshiy nauchnyy sotrudnik; GEGUZINA, I.Yu., mladshiy nauchnyy sotrudnik; BLYANSKAYA, N.V., tekhnik

New method for the conservation treatment of raw leather in a mobile apparatus. Trudy VNIIMP no.15:67-78 '63. (MIRA 17:5)

SHUR, I.V., prof.; YAKOVLEV, L.A., prof.; KUKHARKOVA, L.L.; FREYDLIN, Ye.M., kand. veterin. nauk; PEROVA, P.V., kand. veterin. nauk; IL'YASHENKO, M.A., kand. veterin. nauk; KRASIL'NIKOV, R.I., starshiy nauchnyy sotrudnik; FITINGOF, S.N.; starshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; RUSANOV, R.S., mladshiy nauchnyy sotrudnik; KONUSPAYEVA, U.S., mladshiy nauchnyy sotrudnik; MITROFANOV, V.N., mladshiy nauchnyy sotrudnik; KAPERNAUMOVA, N.P., mladshiy nauchnyy sotrudnik.

Sanitary evaluation of meat from sheep with brucellosis. Veterinariia 38 no.11:60-65 N '61 (MIRA 18:1)

1. Rukovoditel' laboratorii mikrobiologii i veterinarno-sanitarnoy ekspertizy Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy promyshlennosti (for Kukharkova).

GAYEVOY, Ye.V., kand. sel'skokhoz. nauk; DINARIYEVA, G.P., mladshiy nauchnyy sotrudnik; TRUBOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; RADKEVICH, D.P., mladshiy nauchnyy sotrudnik; ERYUZGINA, G.A., mladshiy nauchnyy sotrudnik

Efficiency of the use of formaldehyde compounds for the conservation of fur and coat sheepskins during long storage of the raw materials. Trudy VNIIMP no.15:43-55 '63. (MIRA 17:5)

TRUDOLYUBOVA, G. B., RUSANOV, R. S., KONUSPAYEVA, U. S., MITROFANOV, V. N., KAPERNAUMOVA, N. P.,1, SHUR, I. V., YAKOVLEV, L. A.,2, KUKHARKOVA, L. L.,3, FREYDLIN, E. M., PENOVA, P. V., IL'YASHENKO, M. A.,4, KRASIL'NIKOV, R. I., PITINGOF, S. N.,5. (1 Junior Scientific Workers), (2 Professors), (3 Director of the Laboratory of Microbiology and Veterinary Sanitary Inspection of VNIIMP [All-Union Scientific Research Institute of the Meat Industry), (4 Candidates of Veterinary Sciences,) and (5 Senior Scientific Workers).

"Sanitary Appraisal of Mutton from Sheep Infected by Brucellosis."
Veterinariya vol. 38., no. 11., November 1961., p. 60

KUKHARKOVA, L.L.; TRUDOLYUBOVA, G.B.

Sanitary evaluation of canned meat containing coccal micro-organisms.
Trudy VNIIMS no.6:84-98 '54. (MLRA 10:4)
(Meat, Canned--Bacteriology)

KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik; LAVROVA, L.P., kand. tekhn. nauk; SOLOV'YEV, V.I., kand. khim. nauk; FREYDLIN, Ye.M., kand. veter. nauk; PEROVA, P.V., kand. veter. nauk; SADIKOVA, I.A., kand. biol. nauk; KRYLOVA, V.V., starshiy nauchnyy sotrudnik; BUSHKOVA, L.A., starshiy nauchnyy sotrudnik; RYNDINA, V.P., starshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., starshiy nauchnyy sotrudnik; KARGAL'TSEV, I.I., assistent; MIKHAYLOVA, A.Ye., mladshiy nauchnyy sotrudnik; KARPOVA, V.I., mladshiy nauchnyy sotrudnik; POLETAYEV, T.N., mladshiy nauchnyy sotrudnik; MERKULOVA, V.K., mladshiy nauchnyy sotrudnik

Directed use of microorganisms for the improvement of the quality of sausage products. Report No. 1. Trudy VNIIMP no.16: 64-75 '64. (MIRA 18:11)

1. Kafedra tekhnologii Moskovskogo tekhnologicheskogo instituta myasnoy i molochnoy promyshlennosti (for Kargal'tsev).

BRYUZGINA, G.; GAYEVOY, Ye., kand.sel'skokhoz.nauk; DINARIYEVA, G.; RADKEVICH,D.; TRUDOLYUBOVA, Ye.; MASHKOV, V., kand.sel'skokhoz.nauk; PANYUKIN, I.,, kand.tekhn.nauk. [deceased]

New methods of preservation of fur and garment sheep pelts and mechanization of their processing. Mias.ind.SSSR 33 no.5:15-21 '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Bryuzgina, Gayevoy, Dinariyeva, Radkevich, Trudolyubova). 2. Nauchno-issledovatel'skiy institut mekhovoy promyshlennosti (for Mashkov, Panyukin).
(Hides and skins) (Assembly-line methods)

VILENKINA, N.M., inzhener; TRUDOV, B.A., inzhener.

Experiment in industrialized construction of schools on collective farms. Stroi.prom. 32 no.5:19-22 My '54. (MLRA 7:6)
(Schoolhouses) (Precast concrete construction)

TRUDOV, F.

We have lowered the pork production cost. Nauka i pered. op. v sel'khoz. 9 no.7:27-28 Jl '59. (MIRA 12:11)

1. Direktor sovkhoza "Rodnichki", Kruglovskogo rayona, Stalingradskoy oblasti.
(Stalingrad Province--Swine)

TRUDOV, F.; KOMLEV, A., ekonomist

Each state farm can and must become profit yielding. Fin. SSSR 20 no.7:29-33 Jl '59. (MIRA 12:11)

1.Direktor sovkhoza "Rodnichi" Stalingradskoy oblasti.
(State farms--Finance)

TRUDOV, F.G.;KOMLEV, A.A., ekonomist

Prerequisites of high returns. Zhivotnovodstvo 21 no.11:19-24 '59
(MIRA 13:3)

1. Direktor sovkhoza "Rodnichki," Kruglovskogo rayona, Stalingradskoy oblasti (for Trudov).
(Agriculture--Economic aspects)

TIMOV, I., arkhitektor

Transformation of the village of Lyubartsy. Sil'.bud. 10 no.2:4-6 F '60. (MIRA 13:5)

1. Gosudarstvennyy proyektnyy institut "Dipromist."
(Lyubartsy--City planning)

TRUKOV, N.

Insurance, Social

Social insurance council and its active group. V pom. profaktivu 14, No. 5, 1953.

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

CHUDNOVSKIY, V.Yu.; TRUDOV, V.N.

Portable device for gluing on and drying of wire strain gauges.
Zav.lab. 27 no.6:760 '61. (MIRA 14:6)

1. Dnepropetrovskiy gornyy institut imeni Artema.
(Strain gauges)

LYAKHOVITSKIY, S.I., kand.tekhn.nauk; TRUDOV, V.N., inzh.

Preventing accidents of multiple-bucket excavators operated on rail tracks. Ugol' Ukr. 5 no.12:19-21 D '61. (MIRA 14:12)

1. Dnepropetrovskiy gornyy institut.
(Excavating machinery)
(Strip mining)

KRASOVSKIY, G.E., [illegible]

Some problems in the [illegible] of linear systems of mass. [illegible] 43 p. (MIRA 15:9) 16.

CHUDNOVSKIY, V.Yu., inzh.; TRUDOV, V.N., inzh.

Use of the electrotensiometric method in studying the metal parts of transporter bridges and stackers. Vop. rud. transp. no.6:63-75 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.
(Conveying machinery)

KRYUKOV, B.I., inzh.; LYAKHOVITSKIY, S.I., kand.tekhn.nauk; TRUDOV, V.N., inzh.

Apparatus for dynamic tests of vibrating conveyors. Vop. rud. transp. no.6:152-158 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.
(Conveying machinery)

TRUDOV, V.N., aspirant

Results of testing chain and bucket excavators at the Kumertau Coal Strip Mine. Izv. DPI 41 pt.2:69-74 '62.

Results of some experimental studies on the conveyor bridges at the Baydakov and Semenov-Golovkovskiy coal strip mines. Ibid.:75-79 (MIRA 18:9)

SOURCE: Ref. zh. Matematika, Abs. 5B516

curacy and yields relatively simple finite relations, convenient for practical use.
As an example the oscillations [illegible]

SHIROCHENKO, Ye.V., kand.tekhn.nauk [deceased]; CHUDNOVSKIY, V.Yu., inzh.; TRUDOV, V.N., inzh.; KUDLOV, L.V., inzh.; MURZINA, Z.I., inzh.

Experimental checking of the design calculations of the metal structures of mobile transport bridges. Ugol' Ukr. 6 no.5: 13-16 My '62. (MIRA 15:11)

1. Dnepropetrovskiy gornyy institut.
(Transport bridges--Design and construction)
(Ukraine--Strip mining)

SAVINSKIY, D.V., prof.; BOYARSKIY, A.Ya.; PODVARKOV, G.A.; CHEKANSKIY, N.A.; GROMYKO, G.L. TRUDOVA, M.G.; YEFIMOV, O.S., red.; KOZLOVA, T.A., tekhn. red.

[Economic statistics]Ekonomicheskaia statistika; kurs lektsii. Pod red. D.V.Savinskogo. Moskva, Izd-vo Mosk. univ., 1962. 270 p. (MIRA 16:2)

1. Moscow. Universitet. Kafedra statistiki.
(Statistics)

TRUDOVA, M.G.

3-7-27/29

AUTHORS: Gromyko, G.L., and Trudova, M.G. Candidates of Economics.

TITLE: On the Manual "Statistika" (Ob uchebnike "Statistika")

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 7, pp 91 - 95 (USSR)

ABSTRACT: The authors express their opinion about "Statistika" a 567-page manual on statistics edited by Academician S.G. Strumilin, Gosstatizdat, 1956. The book, composed by a staff of 12 persons, deals with the general theory of statistics and its branches, actual statistical practice, principles of statistical organization, the classification and summary of statistical facts and statistical matters relating to population, public health, culture, production, turnover of goods, etc.

The critics state, that while the structure of the book with its multitude of examples, and references is satisfactory, there are, nevertheless, some shortcomings. Some parts have not been treated in detail, in particular those relating to economic statistics, and various subjects have been omitted. The fact that the book was composed by a staff, explains the lack of an organic unity. There are also many repetitions for the same reason.

Card 1/2

On the Manual "Statistika" 3-7-27/29

On the whole it can be said that the manual possesses many good qualities and is a valuable book for students of economic vuzes and faculties. The above mentioned deficiencies can be eliminated in a future edition.

ASSOCIATION: The Moscow State University imeni M.V. Lomonosov (Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova)

AVAILABLE: Library of Congress

Card 2/2

PIROG, P.I.; TRUDOVA, O.T., redaktor; SUDAK, D.M., tekhn.redaktor.

[Production and preparation of heat insulation work using foam concrete] Proizvodstvo termoizoliatsionnykh rabot penobetonom i ego izgotovlenie. Moskva, Gos. izd-vo torgovoi lit-ry, 1954. 85 p. (MLRA 7:12)

(Insulation(Heat)) (Concrete)

PA 175T7

TRUDOVA, P.G.

USSR/Biology - X-Rays, Effect of 21 Apr 50

"Growth Variations in the Sensitivity of Shoots to X-Rays," P. G. Trudova, Inst Physiol of Plants imeni K. A. Timiryazev, Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR" Vol LXXI, No 6, pp 1139-1142

Expt discussed here study mitosis of seeds and winter wheat shoots from the meristematic state. Mitosis of seeds and wheat shoots of various stages of growth is measured in samples bombarded by X-rays and control samples. Trudova

175T7

USSR/ Biology - X-Rays, Effect of 21 Apr 50 (Contd)

emphasizes that means used for measuring sensitivity to X-rays in expt are more accurate than means used heretofore. Submitted 25 Feb 50 by Acad N. A. Maksimov.

175T7

TRUDOVA, R.G., SHEKHTMAN, Ya.L.

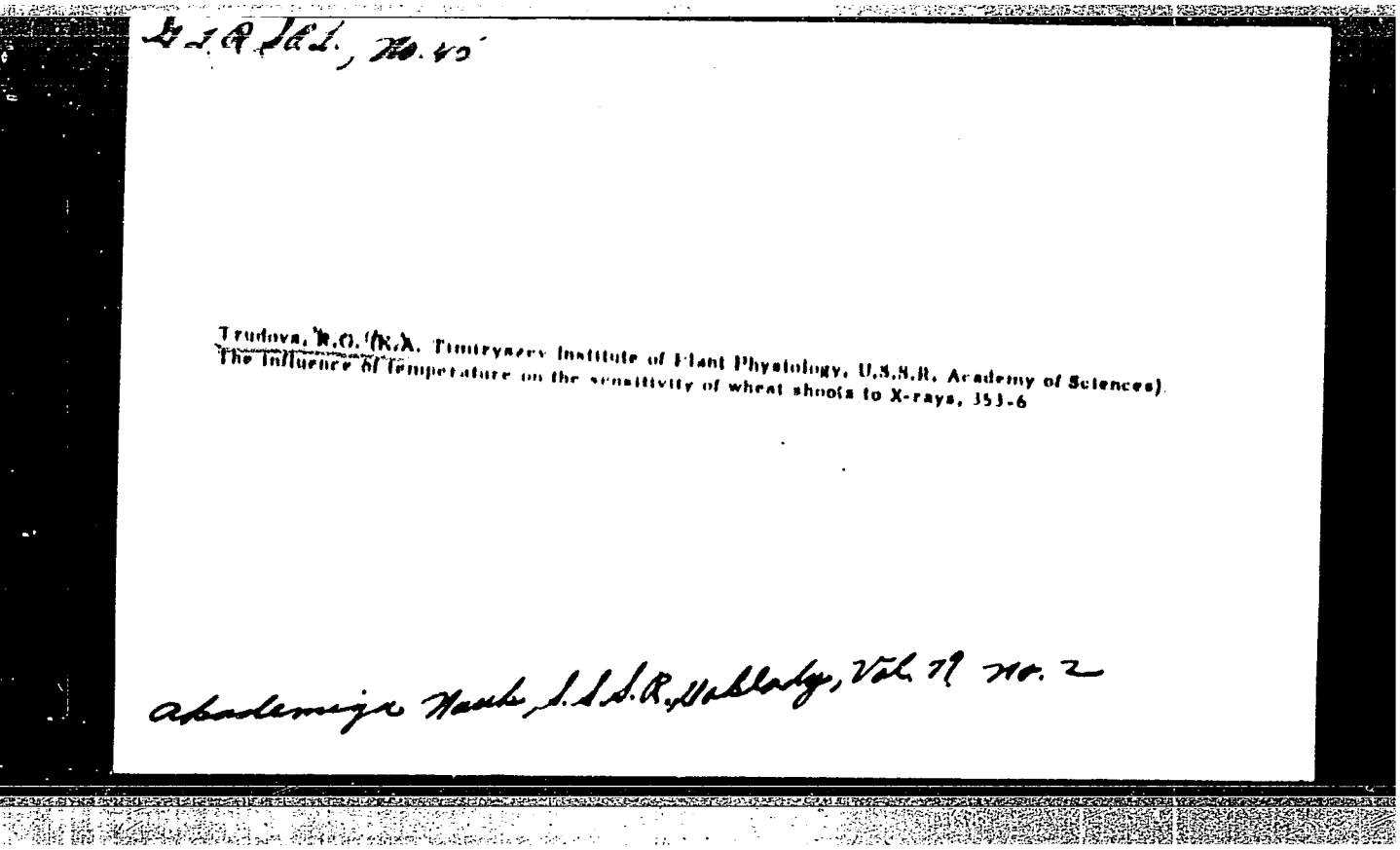
Changes in the mitotic activity of root meristem in wheat seedlings following X irradiation [with summary in English]. Biofizika 3 no.4:519-521 '58 (MIRA 11:8)

1. Institut fiziologii rasteniy AN SSSR, Moskva (for Trudova).
2. Institut biologicheskoy fiziki AN SSSR, Moskva.
(PLANTS, EFFECT OF X RAYS ON)
(KARYOKINESIS)
(WHEAT)

TRUDOVA, R. G.

"Effect of Radiophosphorous Radiations on Cell Divisions of Root Meristem," Doklady Ak Nauk SSSR, Vol 85, No 1, 1952, pp 219-20

SO: CLML, Vol 23, No 1, Jan 1953



Trudova, R.G. (K.A. Timiryazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences)
The influence of temperature on the sensitivity of wheat shoots to X-rays. 353-6

CA

Botany 11-D

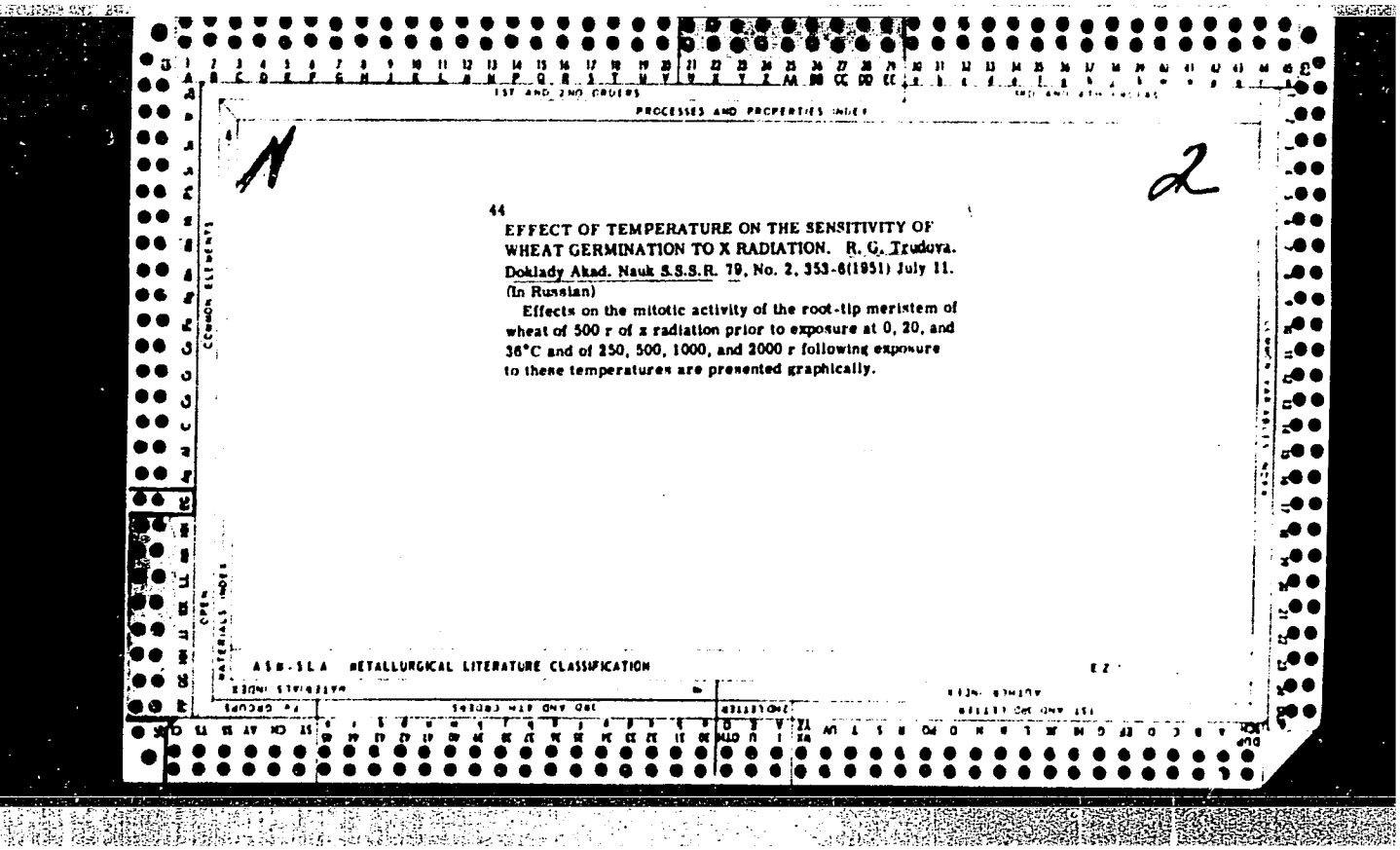
Effect of radiations of radioactive phosphorus on cell mitosis in root meristems. R. G. Trudova. *Doklady Akad. Nauk S.S.S.R.* 85, 219–21(1952).—Action of radiations of radioactive P on mitosis in wheat rootlets was studied at activity levels of 0.1–20 μc./ml. At lowest levels there is a small increase of the no. of mitoses, but from dosage of 0.5 upward there is a sharp decline so that at 20 μc./ml. there are but 14% of the normal mitoses after 24-hr. exposure; in 48-hr. tests the results are even more pronounced. All mitosis stops after 72-hr. exposure; exceptions are detected with x-radiation.

G. M. Kosolapoff

CA

IID

Measurement of isoelectric point of cell colloids in plants under the action of x-rays. R. G. Trudova. *Doklady Akad. Nauk S.S.S.R.* 72, 197-9(1950). Irradiation of oat rootlet tips with 250 r. (in 1-min. exposure) gave only a temporary growth retardation; at 500 r. the effect was more definite, and at 13000 r. mitosis was essentially stopped. A shift of isoelec. point of colloids of the plasma and nucleus occurs simultaneously but returns to normal within 24 hrs. even at 13000 r. dosage; this max. shift is to 2.8-3.4 pH for plasma (2.4-2.6 normal) and 3.4-4.2 pH for nucleus (2.8-3.0 normal) taken 15 min. after x-ray exposure. The individual spread of values is greater after irradiation than in controls. G. M. Kosolapoff



44

EFFECT OF TEMPERATURE ON THE SENSITIVITY OF WHEAT GERMINATION TO X RADIATION. R. G. Trudova. Doklady Akad. Nauk S.S.S.R. 79, No. 2, 353-6(1951) July 11. (In Russian)

Effects on the mitotic activity of the root-tip meristem of wheat of 500 r of x radiation prior to exposure at 0, 20, and 36°C and of 250, 500, 1000, and 2000 r following exposure to these temperatures are presented graphically.

13999* **The Action of Radioactive Phosphorus Rays On Cell Division in the Meristem of Roots.** (Russian.) R. G. Trudava. *Doklady Akademii Nauk SSSR*, new ser., v. 85, July 1, 1952, p. 219-220.

An investigation of the above was made as a factor in using P^{32} as a tracer in biological processes. Data are charted and discussed.

N.S.A

Biology & Medicine

6252
EFFECTS OF RADIATIONS OF RADIOACTIVE PHOSPHORUS ON CELL DIVISION IN ROOT MERISTEM. R. G. Trudova. Doklady Akad. Nauk S.S.S.R. 85, 219-20(1952) July 1. (In Russian)

The number of cell divisions in the root meristem of 48-hr wheat seedlings following transfer to aqueous P^{32} solutions of specific activities up to 20 μc/ml is plotted for exposures of 24, 48, and 72 hr.

TRUDOVA, R. G.

Beans

Effect of X-ray irradiation upon root formation of bean stalks. Dokl. AN SSSR 85 No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953. Unclassified.

TRUDOVA, R. G.

Phosphorus - Physiological Effect

Effect of radiation of radioactive phosphorus on cell division of the root meristem. Dokl AN SSSR 85 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953. Unclassified.

TRUDOVA, R. G.

Roots (Botany)

Effect of radiation of radioactive phosphorus on cell division of the root meristem. Dokl. AN SSSR 85, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953. Unclassified.

TRUDOVA, R.G.

USSR/Biology - Effects of Radiation 1 Jul 52

"Effect of the Radiation Produced by Radioactive Phosphorus on the Division of Cells of the Root Meristem," R. G. Trudova, Inst of Plant Physiol imeni K. A. Timiryazev, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXXV, No 1, pp 219, 220

Found that after a certain dosage of radiation derived from P 32 used as a radioactive tracer has been exceeded, the division of cells of the meristem of wheat roots is reduced. Presented by Acad N. A. Maksimov (deceased) 29 Apr 52.

224T2

[illegible], I. G.

Roots (Botany)

Effect of radiation of radioactive phosphorus on cell division of the root meristem. Dokl. AN SSSR 85, no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

[illegible], T. L.

Beans

Effect of X-ray irradiation upon root formation of bean stalks. Dokl. AN SSSR 85 No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

[illegible], P. G.

Phosphorus - Physiological Effect

Effect of radiation of radioactive phosphorus on cell division of the root meristem. Dokl AN SSSR 85 No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

TRUDOVA, R. G.

X-rays - Physiological Effect

Effect of X-ray irradiation upon root formation of bean stalks. Dokl. AN SSSR 85 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952
UNCLASSIFIED.

CZECHOSLOVAKIA

TRUELLE, M.

Kraj Hygienic-Epidemiological Station KHV of the South Bohemian Kraj (Krajska hygienicko-epidemiologicka stanice KHV Jihoceskeho kraje), Ceske Budejovice

Prague, Ceskoslovenska Hygiena, No 10, 1964, pp 601-608

"The Use of Plastics in the Withdrawing of Samples of Air for the Detection of Radon."

TRUELLE, M.A., dr., inz.

Natural radioactivity of underground waters. Vodní hosp 13 no.5:169-170 '63.

1. Krajska hygienicko-epidemiologicka stanice, Ceske Budejovice.

KRUEG, V.D.

Birdhouses

Attracting birds to shelterbelts. Les i step/No.2, 1952

Monthly List of Russian accessions, Library of Congress, June 1952.
Unclassified.

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application. Water Treatment, Sewage. H-5

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 15775

Author : Truollo, M.
Inst : Not given
Title : Data on River Pollution in Czechoslovakia for 1957

Orig Pub : Ceskosl. rybarstvi, 1958, No 6, 90

Abstract : No abstract given

Card 1/1

H-11

TRUETA, KH. PA 45/49T94

USSR/Medicine - Literature, Medical Apr 49
Medicine - Surgery

"New Books Available for Sale by Medgiz" 1 p

"Khirurgiya" No 4

Lists 18 new books, including: S. M. Rubashov's "Anesthesia During Surgical Operations" (Manual for Doctors Starting in Practice), and Kh. Trueta's "Theory and Practice of Military Surgery."

FDB 45/49T94

TRUETS, KH. PA 45/49T92

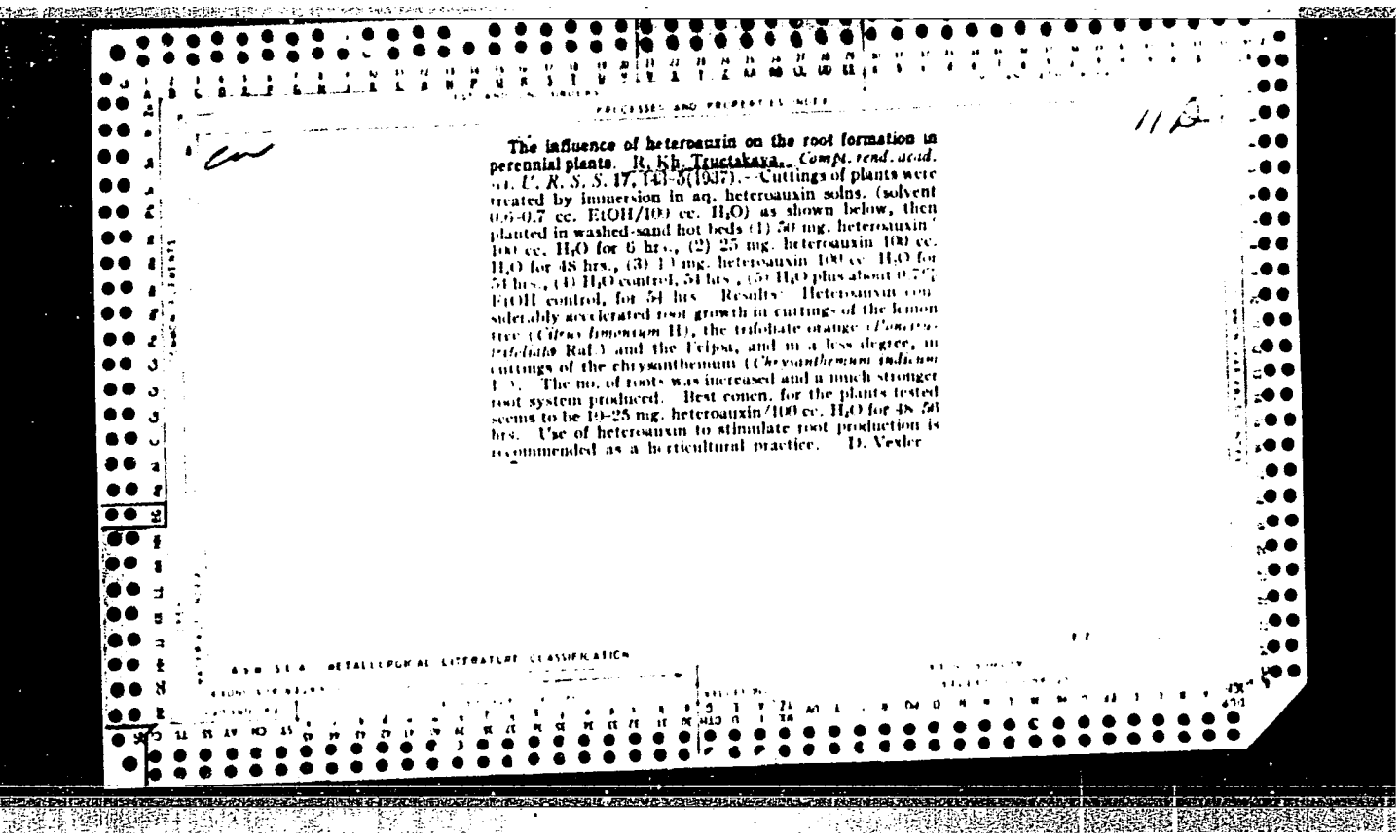
USSR/Medicine - Literature, Medical Apr 49
Medicine - Surgery

"New Books" 1½ pp

"Khirurgiya" No 4

Lists nine new books, including: Works of S. I. Spasokukotskiy, 1870 - 1943, Kh. Trueta's "Theory and Practice of Military Surgery," Ye. A. Tyutryumova's "Bibliography of Soviet Traumatology in 1940," V. Ya. Shlapoberskiy's "Penicillin in Surgery," and "War Trauma and Its Complications" (Works of Nav Med Acad).

FDB 45/49T92



The influence of heteroauxin on the root formation in perennial plants. R. Kh. Turetskaya. *Compt. rend. acad. sci. U. R. S. S.* 17, 141–5(1937).—Cuttings of plants were treated by immersion in aq. heteroauxin solns. (solvent 0.6–0.7 cc. EtOH/100 cc. H_2O) as shown below, then planted in washed-sand hot beds (1) 50 mg. heteroauxin/100 cc. H_2O for 6 hrs., (2) 25 mg. heteroauxin 100 cc. H_2O for 48 hrs., (3) 12 mg. heteroauxin 100 cc. H_2O for 54 hrs., (4) H_2O control, 54 hrs., (5) H_2O plus about 0.7% EtOH control, for 54 hrs. Results: Heteroauxin considerably accelerated root growth in cuttings of the lemon tree (*Citrus limonium* H), the trifoliate orange (*Poncirus trifoliata* Raf.) and the Eripsa, and in a less degree, in cuttings of the chrysanthemum (*Chrysanthemum indicum* L.). The no. of roots was increased and a much stronger root system produced. Best concn. for the plants tested seems to be 19–25 mg. heteroauxin/100 cc. H_2O for 48–50 hrs. Use of heteroauxin to stimulate root production is recommended as a horticultural practice. D. Vexler

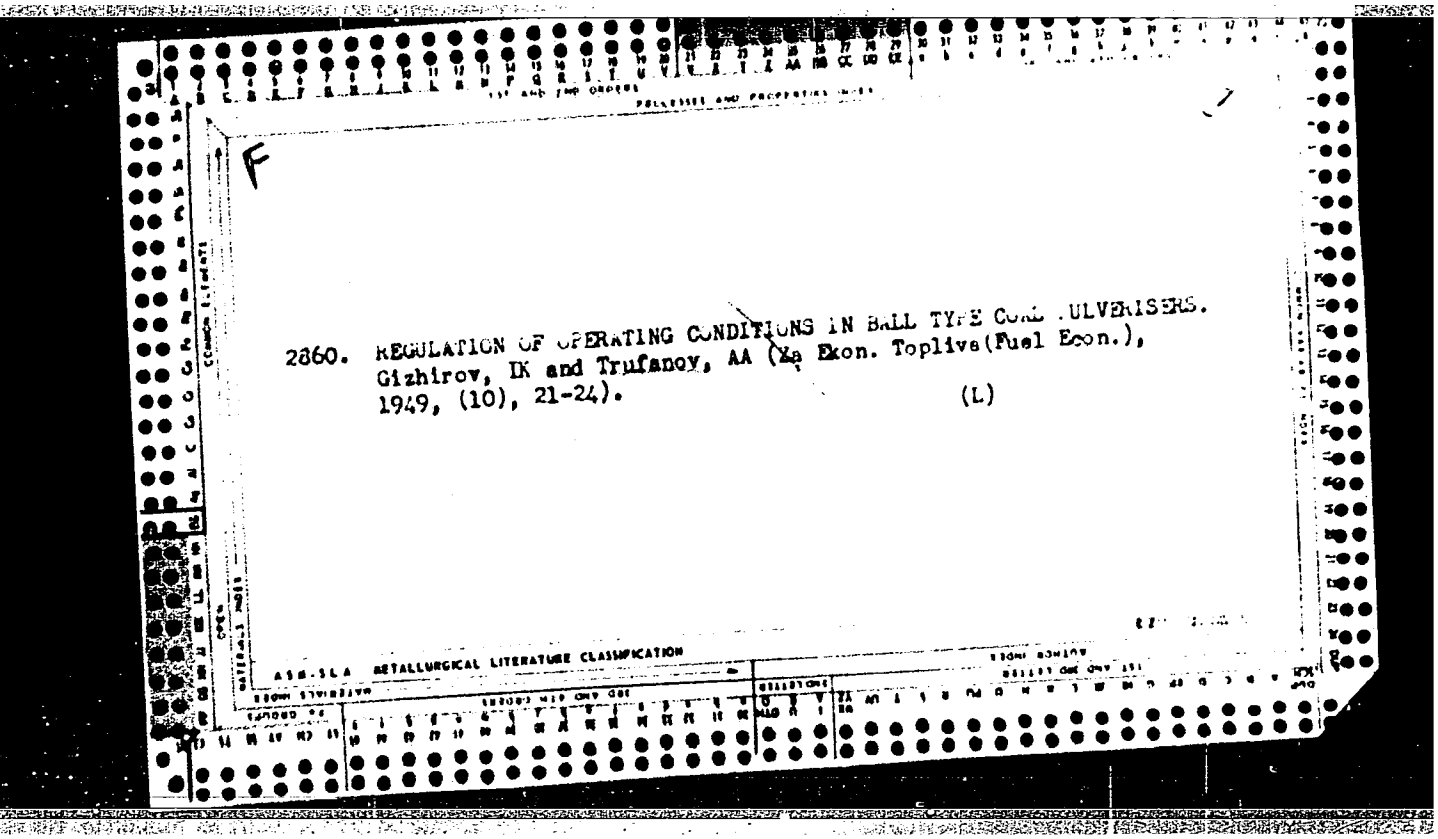
Nikolai Ivanovich Truevtsev; 1903 - ; on the occasion of his sixtieth birthday. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.6: 187 '63 (MIRA 17:8)

ILIVITSKIY, A. A.; NIKOLIN, V. I.; DUBYNIN, N. G.; GAN'SHIN, L. P.; RYABCHENKO, Ye. P.; SVAROVSKIY, B. M.; TREGUBOV, B. G.; TRUFAKIN, N. Ye.

"Determining the properties of rocks" by L. I. Baron, B. M. Loguntsov, and E. Z. Pozin. Reviewed by A. A. Ilivitskii and others. Gor. zhur. no.10:77-78 O '62. (MIRA 15:10)

1. Institut gornogo dela Ural'skogo filiala AN SSSR, Sverdlovsk (for Ilivitskiy, Nikolin). 2. Institut gornogo dela Sibirskogo otdeleniya AN SSSR, Novosibirsk (for Dubynin, Gan'shin, Ryabchenko, Svarovskiy, Tregubov, Trufakin).

(Rocks—Testing) (Baron, L. I.)
(Loguntsov, B. M.) (Pozin, E. Z.)



F

2860. REGULATION OF OPERATING CONDITIONS IN Ball TYPE Coal .ULVERISERS. Gizhirov, IK and Trufanov, AA (Za Ekon. Toplive(Fuel Econ.), 1949, (10), 21-24). (L)

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

85374

S/081/60/000/017/009/016
A006/A001

11.2000

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 17, p. 284, # 69745

AUTHORS: Yerofeyev, A.A., Trufanov, A.A.

TITLE: A Method of Rheodynamic Simulation of Viscous-Plastic Media

PERIODICAL: Tr. Kazansk. khim-tekhnol. in-ta, 1957 (1959), No. 22, pp. 99-109

TEXT: The authors discuss a method of generalizing criterial equations of viscous and viscous-plastic flow when the kinematic similarity in analogous points is not applicable. The method of generalizing the criterial equation $Eu = -f(Re_o)$ for viscous and viscous-plastic liquids is based on the experimental or analytical determination of the reduction coefficient β from the condition La_o = idem for both liquids, where La_o is the generalized Lagrange criterion. Coefficient β expresses the effective part of the dynamical extremal shear stress in the summary form of the friction force. The drop of pressure consumed to overcome the friction forces during the motion of viscous and viscous-plastic liquids, is calculated by the generalized function $Eu = f(Re_o)$. The kinematic structure of

Card 1/2

85374

S/081/60/000/017/009/016
A006/A001

A Method of Rhecdynamic Simulation of Viscous-Plastic Media

a viscous-plastic flow can be evaluated with the use of criterion $T = \Delta P/\theta$, being determined where ΔP is the resulting drop of pressure, and θ is the dynamic extremal shear stress.

R.K.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

TRUFANOV, A.A.

Logarithmic law of velocity distribution obtained by the integration of differential equations of the motion of liquid. Trudy KKHTI no.13: 101-111 '48. (MIRA 12:12)

1. Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova, kafedra protsessov i apparatov, gidravliki i obshchey khimicheskoy tekhnologii.
(Liquids) (Turbulence)

THUFANOV, A.A.

N.K.Petrov's hydrodynamic grounds for his theory of the lubrication of machine parts moving with friction. Trudy KKHTI no.15:40-54 '50. [publ. '51] (MIRA 12:12)
(Friction) (Lubrication and lubricants)

THUFANOV, A.A., inzh. (Kazan')

Some problems of the interaction between floating logs and machines putting them into piles. Trudy KKHTI no.21:209-219 '56. (MIRA 12:11)

(Wood--Transportation) (Floating cranes)

TRUFANOV, A. A. Cand Tech Sci -- (diss) "Certain Problems of the Theory of the Interaction Between Tying Machines and ~~the log~~ Bundles (of Logs) Being Tied." Kazan', 1957. 22 pp with diagrams, 20 cm. (Min of Higher Education, Kazan' Chemicotechnological I$_n$st im im S. M. Kirov), 150 copies (KL, 27-57, 108)

TRUFANOV, A.A.; ARBUZOV, A.Ye., akademik, glavnyy redaktor; MIROPOL'SKIY, L.M., professor, otvetstvennyy redaktor.

[Cross circulation in free flowing channels (working hypothesis of the theory of circulation)] O poperechnoi tsirkuliatsii v svobodnom ruslovom potoke (opyt rabochei gipotezy teorii tsirkuliatsii). Kazan', Izd-vo Kazanskogo filiala AN SSSR, 1950. 86 p. (Academiia nauk SSSR. Kazanskii filial. Trudy, seriia vodokhoziaistvennykh problem no.1) (MLRA 10:4)

(Hydraulics)

PETROV, G.N.; TRUFANOV, A.A., doktor tekhnicheskikh nauk,professor, otvetstvennyy redaktor; VOZNVIZHENSKAYA, M.Kh., redaktor; SHARAFUTDINOVA, M.Z., tekhnicheskiy redaktor.

[Low-level summer period flow in rivers and its investigation] Mezhennyi stok i ego izuchenie. Kazan', Tatknigoizdat. Red.nauchno-tekhn.lit-ry 1956. 143 p. (Akademiia nauk SSSR.Kazanskii filial. Trudy.Seriia energetiki i vodnogo khoziaistva, no.1) (MLRA 10:3)
(Hydrology) (Rivers)

TRUFANOV, A. A.

Trufanov, A. A. "The logarithmic law of distribution of velocities, obtained by integrating differential equations of fluid motion." Trudy Kazansk. khim.-tekhnol. in-ta im. Korova, Issue 13, 1948, p. 101-11

SO: U-3264, 10 April 1953, (Letopis 'Zhurhal 'hykh Statey, No. 3, 1949).

THUFANOV, A.

RT-1265 /Velocity curve of a stream with the surface covered with ice or rough film/
O krivoi skorostei dlia potoka, poverkhnost' kotoro o pokryta l'dom ili sherokhovatoiu plenkoiu.
Meteorologiia i Gidrologiia, 5(1): 51-57, 1939.
(Translation does not include illustrations).

TRUFANOV, A.A.

General flow circulation. Trudy KKHTI no.11:158-175 '47. (MIRA 12:11)

(Fluids)

TRUFANOV, A.A.

Newton's theorem on hydrostatics. Trudy KKHTI no.13:112-117 '48. (MIRA 12:12)

1. Kafedra protsessov i apparatov, gidravliki i obshchey khimicheskoy tekhnologii.

(Hydrostatics)

TRUFANOV, A.A., prof.

D.I. Mendeleev's book "Resistance of liquids." Trudy KKHTI no.14: 3-14 '49. (MIRA 12:11)
(Mendeleev, Dmitrii Ivanovich, 1834-1907)

TRUFANOV, A.A., prof.

Tractive force of a stream or an average friction tension along the wetted perimeter of the viscous liquid stream. Trudy KKHTI no.14:15-18 '49. (MIRA 12:11)
(Hydraulics)

TRUFANOV, A. A.

Trufanov, A. A. "One of Newton's theorems on hydrostatics," Trudy Kazansk. khim.-tekhnol. in-ta im. Kirova, Issue 13, 1948, p. 112-17

SO: U-3264, 10 April 1953, (Letopis 'Zhurhal 'hykh Statey, No. 3, 1949).

TRUFANOVA, Aleksandra Ivanovna; REZNIK, Mikhail Borisovich; TUPIKOV, A.I., red.; PULIN, L.I., tekhn. red.

[Extending the life of metals] Prodlenie zhizni metalla. Tula, Tul'skoe knizhnoe izd-vo, 1960. 110 p. (MIRA 14:5)
(Corrosion and anticorrosives) (Protective coatings)

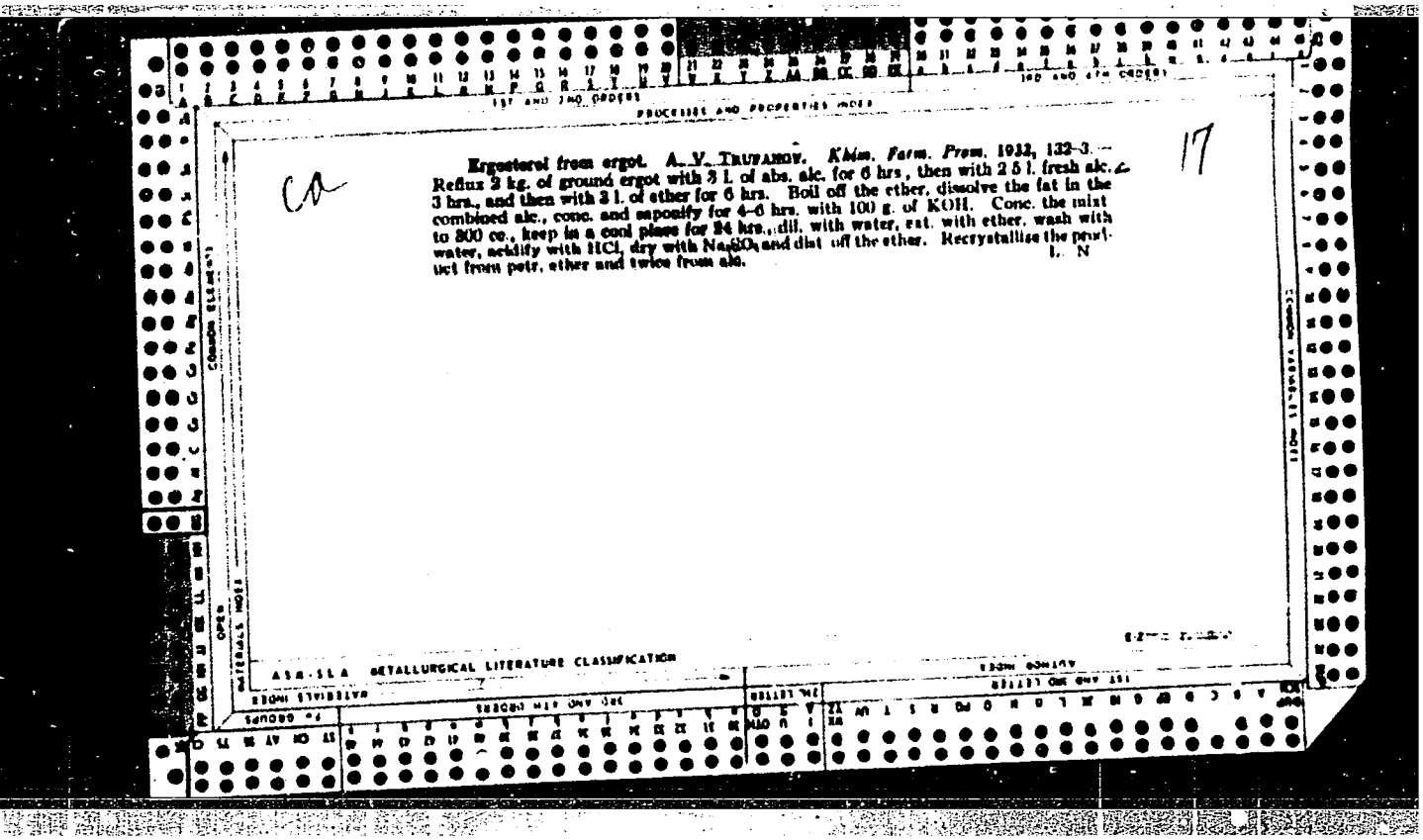
TRUFANOV, Andrey Viktorovich, prof.; SYCHIK, Ye.V., red.; GOR'KOVA, Z.D., tekhn.red.

[Biochemistry and physiology of vitamins and antivitamins] Biokhimiia i fiziologiia vitaminov i antivitaminov. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 653 p. (MIRA 13:2)
(VITAMINS)

EXCERPTA MEDICA Sec 6 Vol 13/11 Internal Med. Nov 59

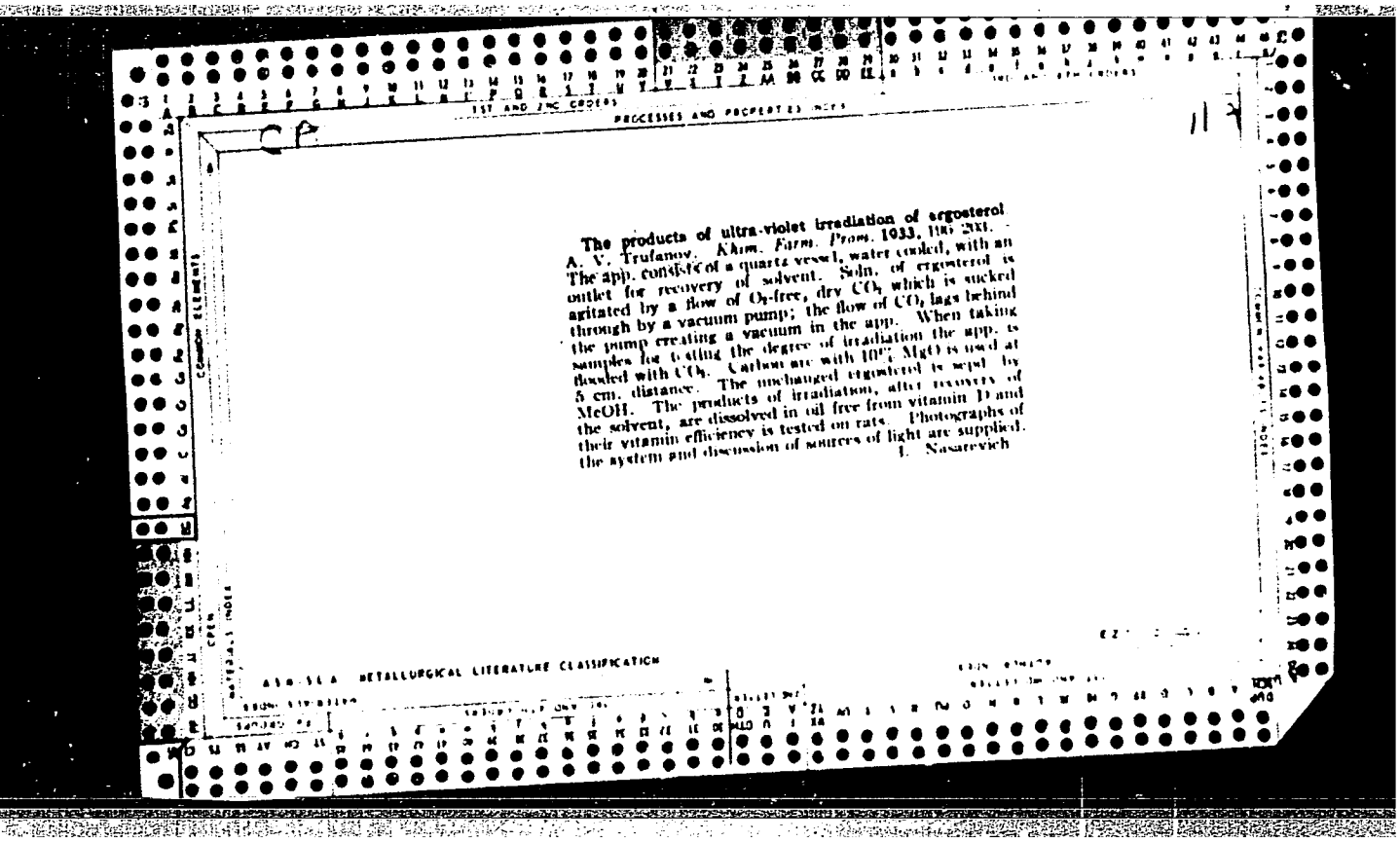
6489. CHANGES IN THE STOMACH IN GIARDIAL AND CATARRHAL CHOLECYSTITIS (Russian text) - Trufanov A. Ya. - KLIN. MED. (Mosk.) 1959, 37/2 (105-109)

370 patients with chronic gastritis and functional disturbances of the stomach were under observation. Cholecystitis due to Giardia was established in 22% of cases, chronic catarrhal cholecystitis in 11%. Initially cholecystitis manifested hypersecretion of gastric juice; at later stages inhibition of secretion develops, up to achylia. Gastroscopic investigations show the prevalence of superficial catarrhal changes of the gastric mucosa in giardial as well as in catarrhal cholecystitis, affecting predominantly the antral and medial portion of the stomach. It is concluded that giardial and catarrhal cholecystitis may provoke changes in the stomach of the chronic gastritis type, and even ulcerative disease.

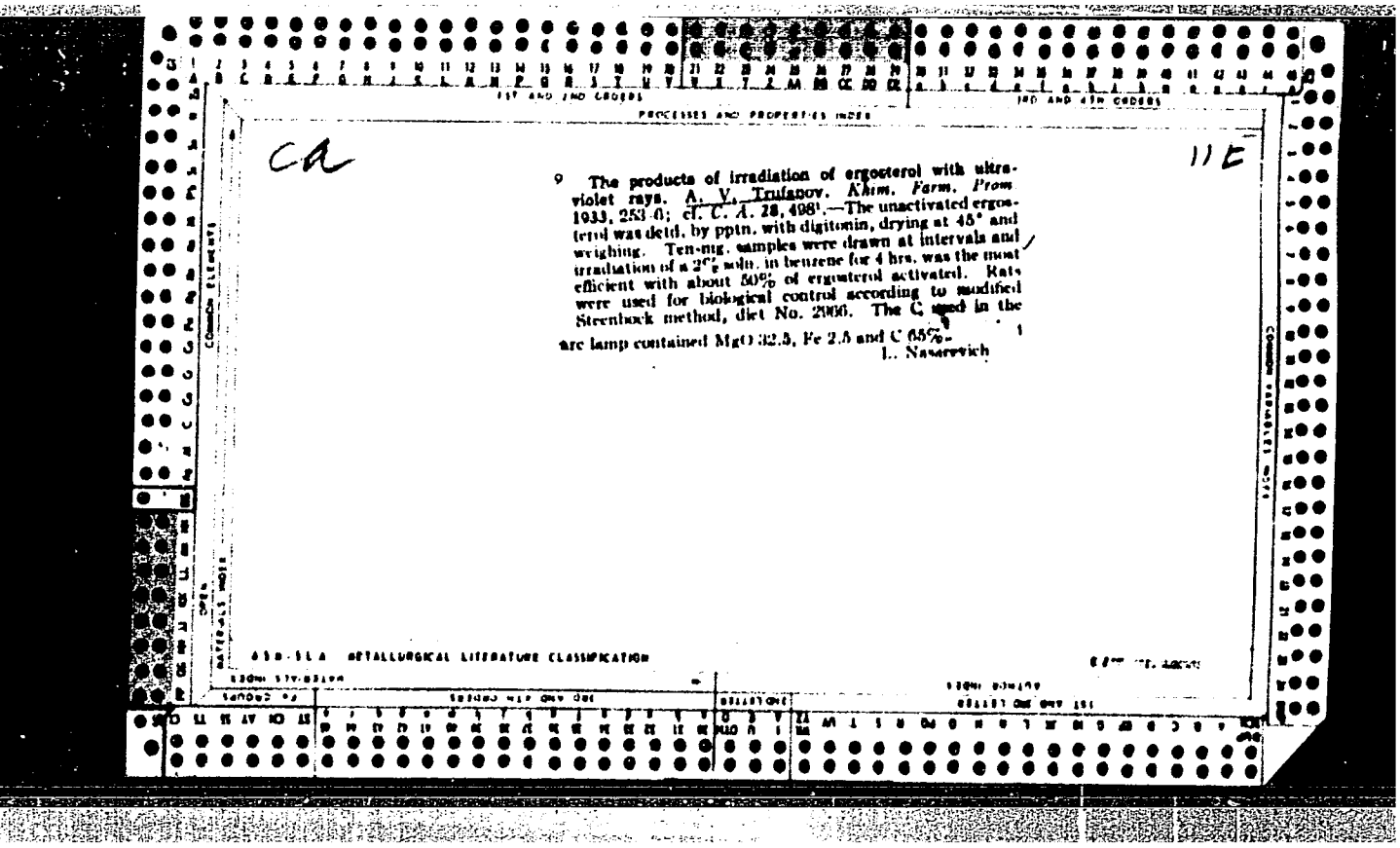


Ergosterol from ergot. A. V. TRUFANOV. *Khim. Farm. Prom.* 1932, 132–3.—Reflux 2 kg. of ground ergot with 3 l. of abs. alc. for 6 hrs., then with 2.5 l. fresh alc. 3 hrs., and then with 3 l. of ether for 6 hrs. Boil off the ether, dissolve the fat in the combined alc., conc. and saponify for 4–6 hrs. with 100 g. of KOH. Conc. the mixt. to 800 cc., keep in a cool place for 24 hrs., dil. with water, ext. with ether, wash with water, acidify with HCl, dry with Na_2SO_4 and dist. off the ether. Recrystallise the product from pet., ether and twice from alc. I. N

17



The products of ultra-violet irradiation of ergosterol. A. V. Trufanov. *Khim. Farm. Prom.* 1933, 110-2XI. — The app. consists of a quartz vessel, water cooled, with an outlet for recovery of solvent. Soln. of ergosterol is agitated by a flow of O_2-free, dry CO_2 which is sucked through by a vacuum pump; the flow of CO_2 lags behind the pump creating a vacuum in the app. When taking samples for testing the degree of irradiation the app. is flooded with CO_2. Carbon arc with 10% MgO is used at 5 cm. distance. The unchanged ergosterol is separated by MeOH. The products of irradiation, after recovery of the solvent, are dissolved in oil free from vitamin D and their vitamin efficiency is tested on rats. Photographs of the system and discussion of sources of light are supplied.
I. Nasarevich

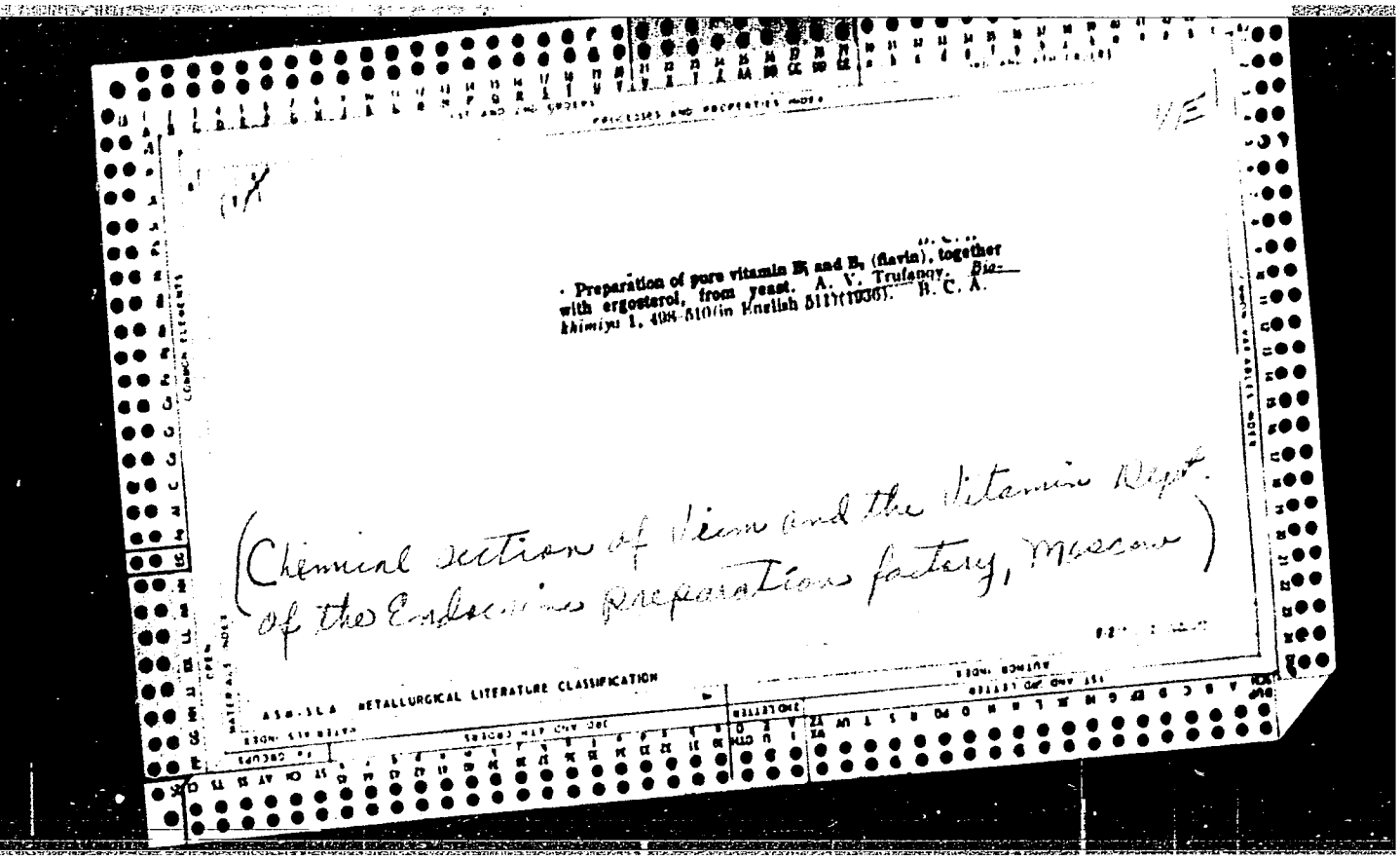


CA

11E

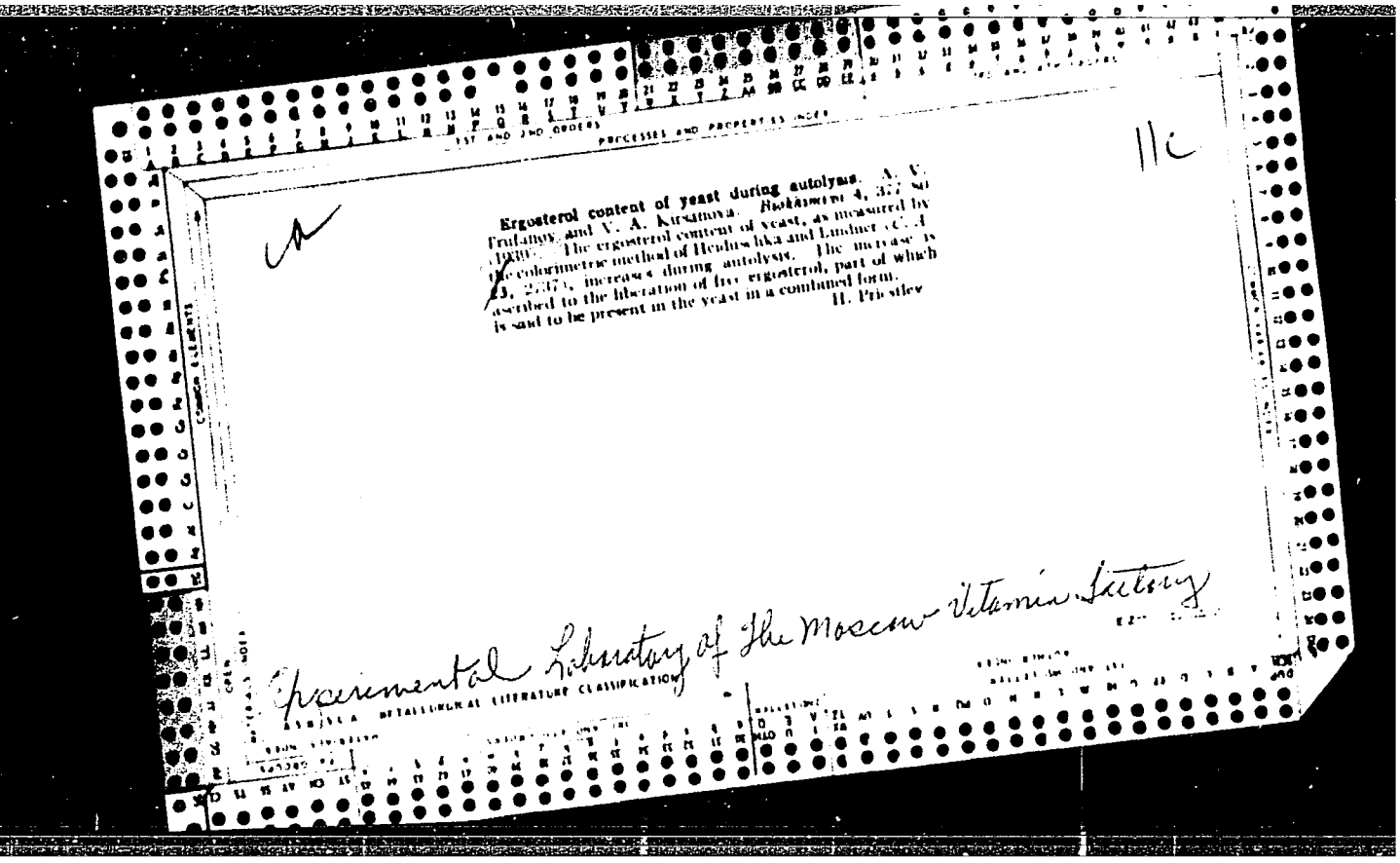
9 The products of irradiation of ergosterol with ultraviolet rays. A. V. Trufanov. *Khim. Farm. Prom* 1933, 253-6; cf. *C. A.* 28, 498¹.—The unactivated ergosterol was detd. by pptn. with digitonin, drying at 45° and weighing. Ten-mg. samples were drawn at intervals and irradiation of a 2% soln. in benzene for 4 hrs. was the most efficient with about 50% of ergosterol activated. Rats were used for biological control according to modified Steenbock method, diet No. 2966. The C used in the arc lamp contained Mg() 32.5, Fe 2.5 and C 65%.—

L. Nasarevich



· Preparation of pure vitamin B_1 and B_2 (flavin), together with ergosterol, from yeast. A. V. Trufanov. *Biokhimiya* 1, 498-510(in English 511)(1936). B. C. A.

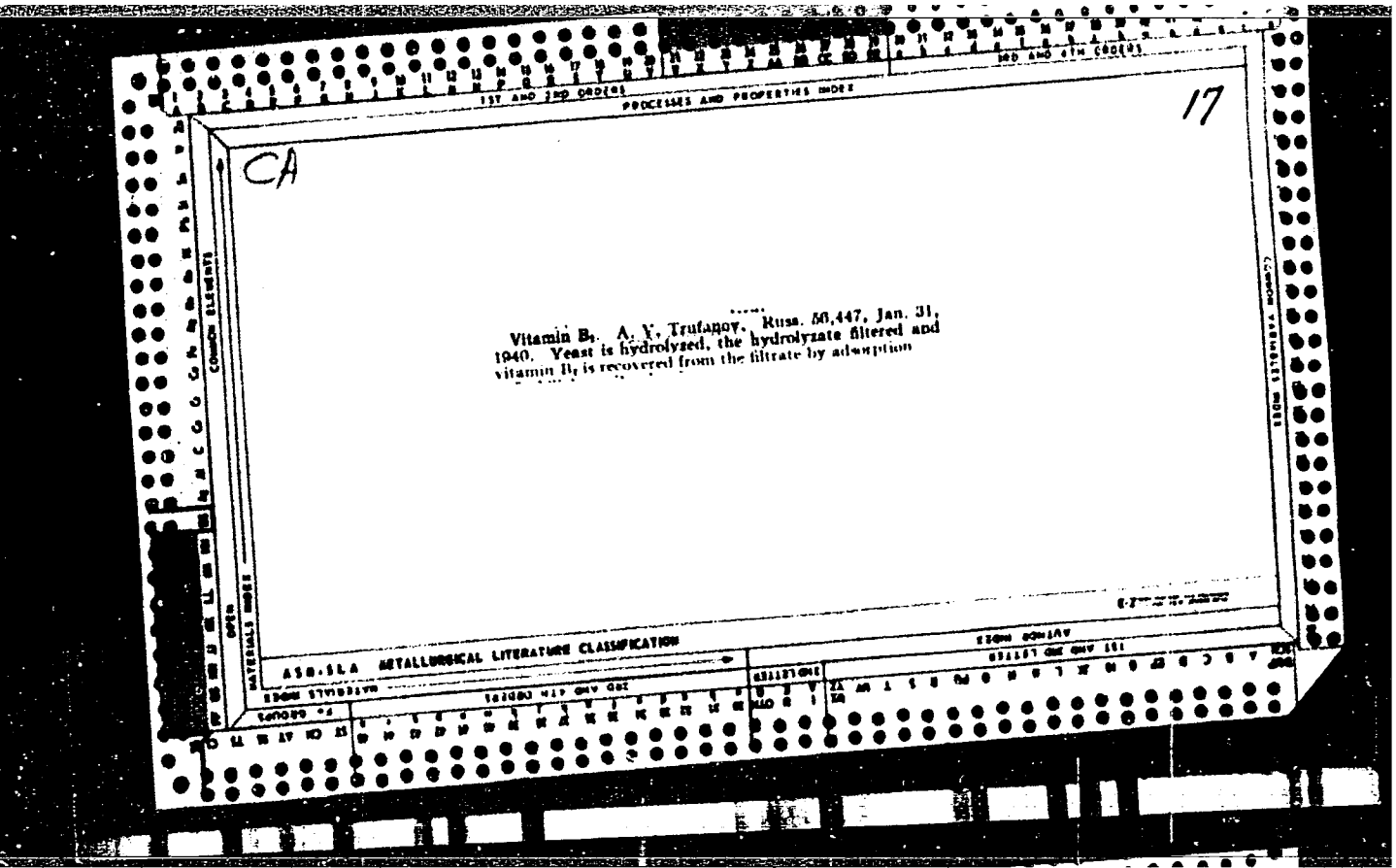
(Chemical section of Viam and the Vitamin Dept. of the Endocrine preparations factory, Moscow)



Ergosterol content of yeast during autolysis. A. V. Frufalyn and V. A. Kursanova. *Biokhimiya* 4, 327 (1939). The ergosterol content of yeast, as measured by the colorimetric method of Heilbron'ka and Lindner (C.A. 23, 2167), increases during autolysis. The increase is ascribed to the liberation of free ergosterol, part of which is said to be present in the yeast in a combined form.
H. Priestley

11c

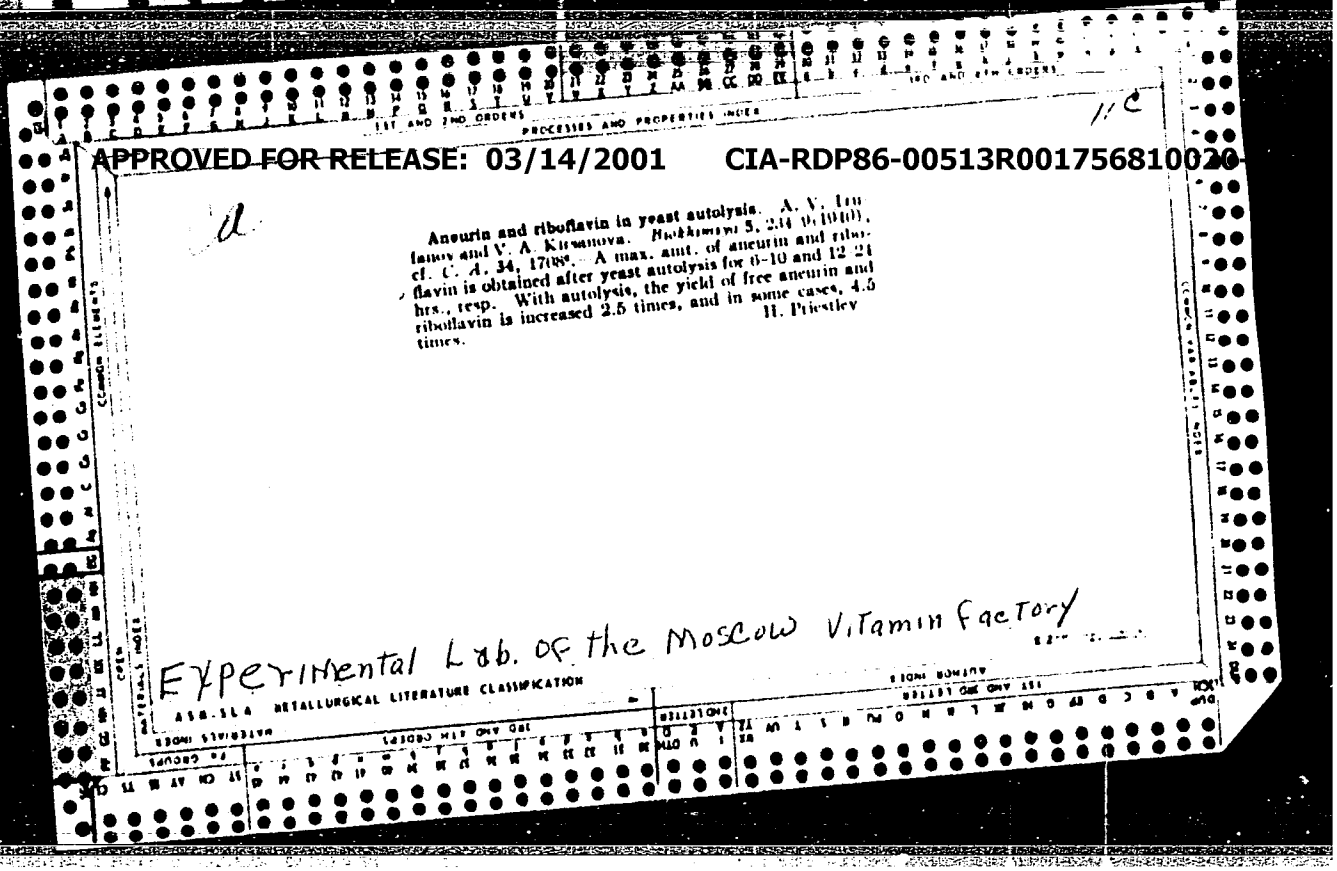
Experimental Laboratory of the Moscow Vitamin Factory



17

CA

Vitamin B_1. A. V. Trufanov. Russ. 50,447, Jan. 31, 1940. Yeast is hydrolyzed, the hydrolyzate filtered and vitamin B_1 is recovered from the filtrate by adsorption

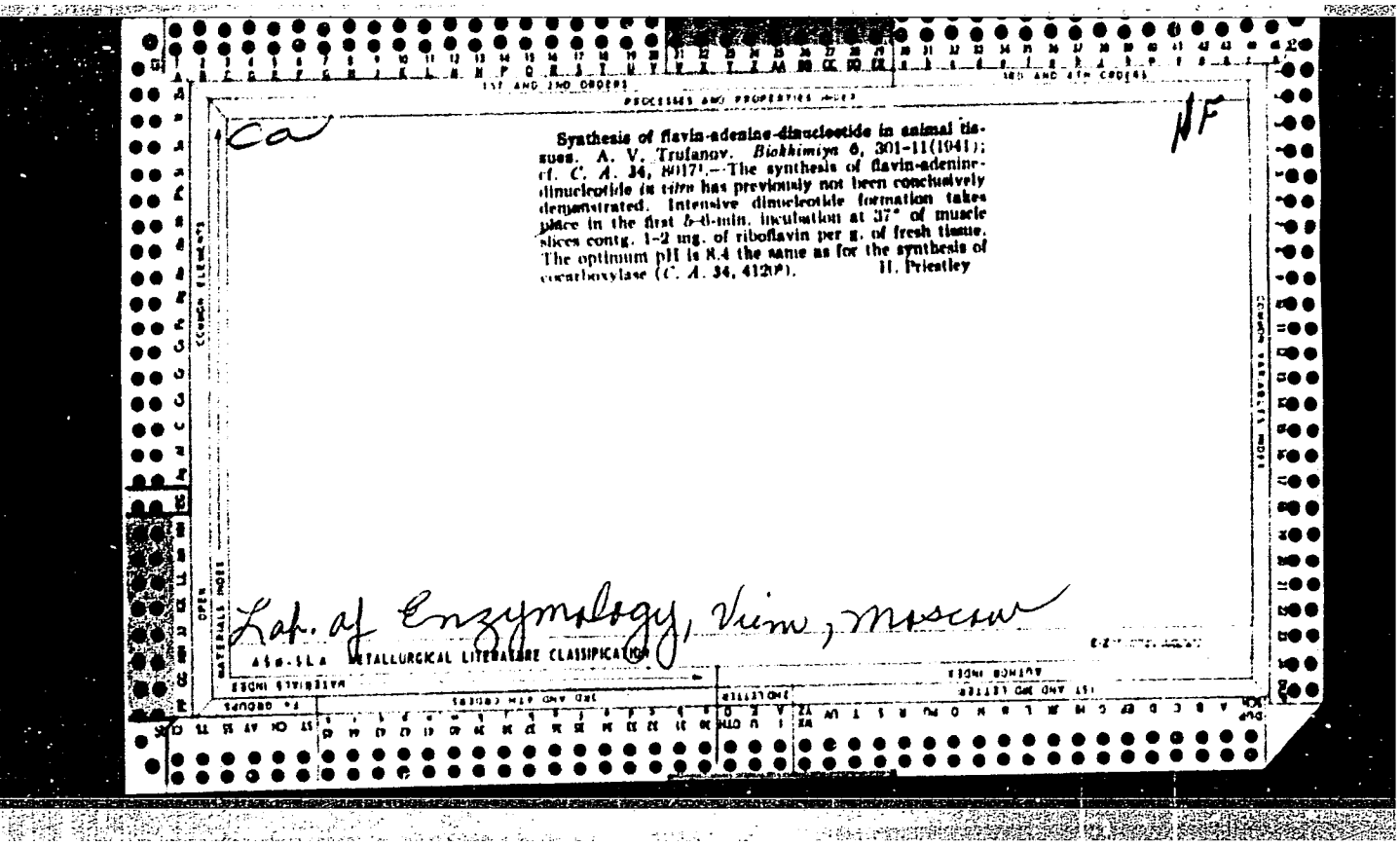


11C

d

Aneurin and riboflavin in yeast autolysis. A. V. Lutfainov and V. A. Kirsanova. Биохимия 5, 244-9(1940). cf. C. A. 34, 1708⁹. A max. amt. of aneurin and riboflavin is obtained after yeast autolysis for 8-10 and 12-24 hrs., resp. With autolysis, the yield of free aneurin and riboflavin is increased 2.5 times, and in some cases, 4.5 times. H. Priestley

Experimental Lab. of the Moscow Vitamin Factory



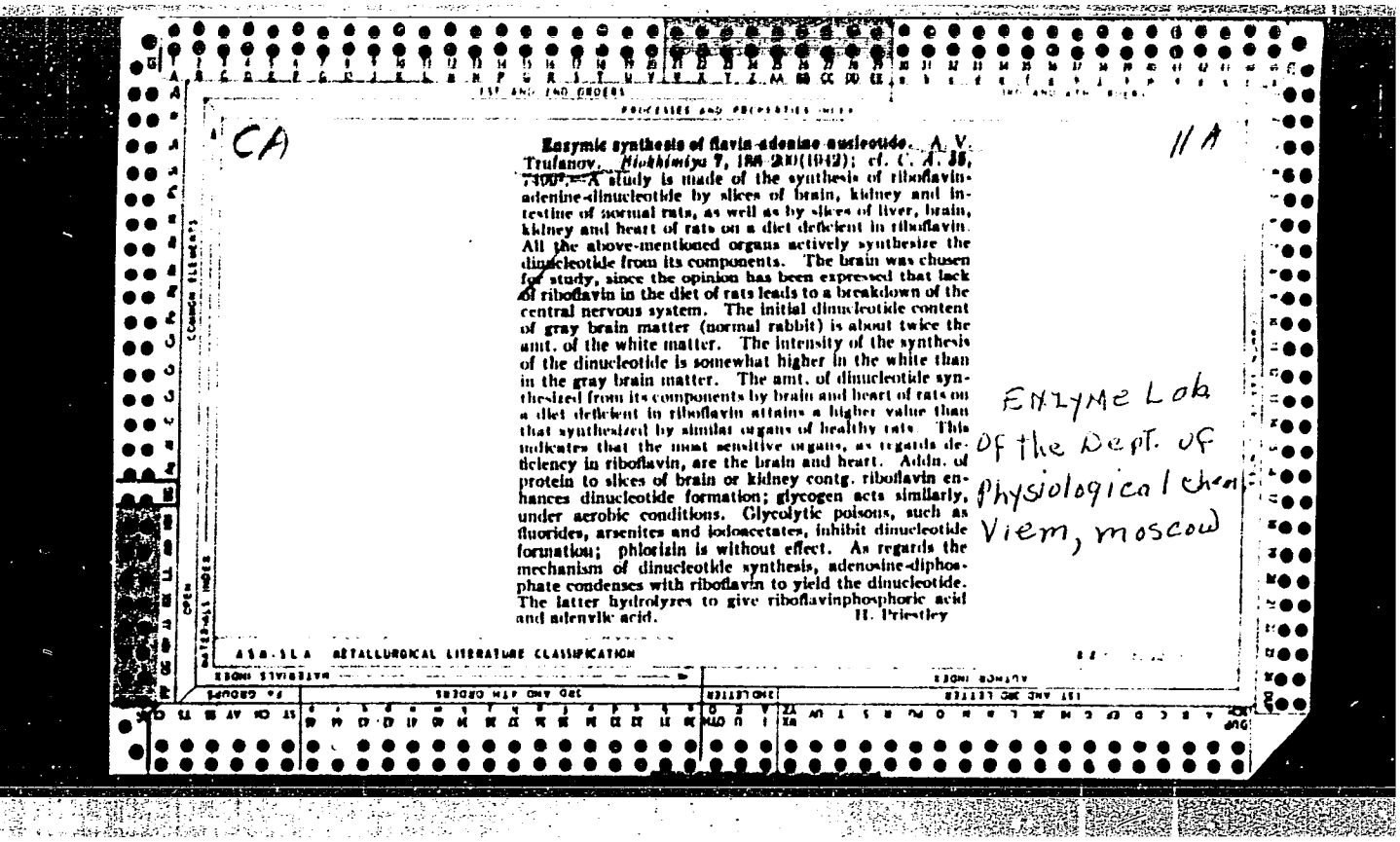
Ca

NF

Synthesis of flavin-adenine-dinucleotide in animal tissues. A. V. Trufanov. *Biokhimiya* 6, 301-11(1941); cf. *C. A.* 34, 8017⁹.—The synthesis of flavin-adenine-dinucleotide *in vitro* has previously not been conclusively demonstrated. Intensive dinucleotide formation takes place in the first 5–6-min. incubation at 37° of muscle slices contg. 1–2 mg. of riboflavin per g. of fresh tissue. The optimum pH is 8.4 the same as for the synthesis of cocarboxylase (*C. A.* 34, 4120⁹). H. Priestley

Lab. of Enzymology, Vitm, Moscow

A55-51A METALLURGICAL LITERATURE CLASSIFICATION

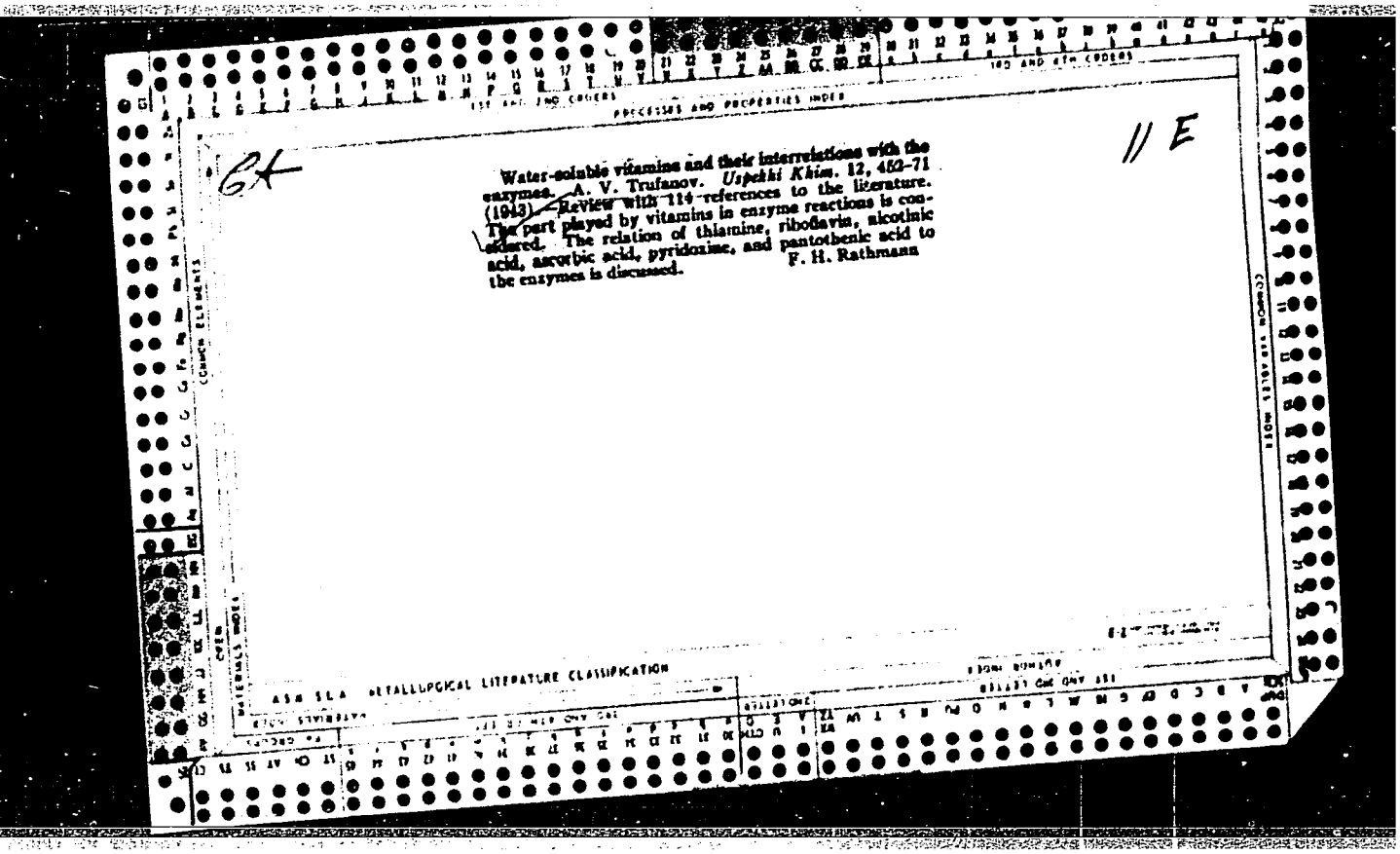


CA

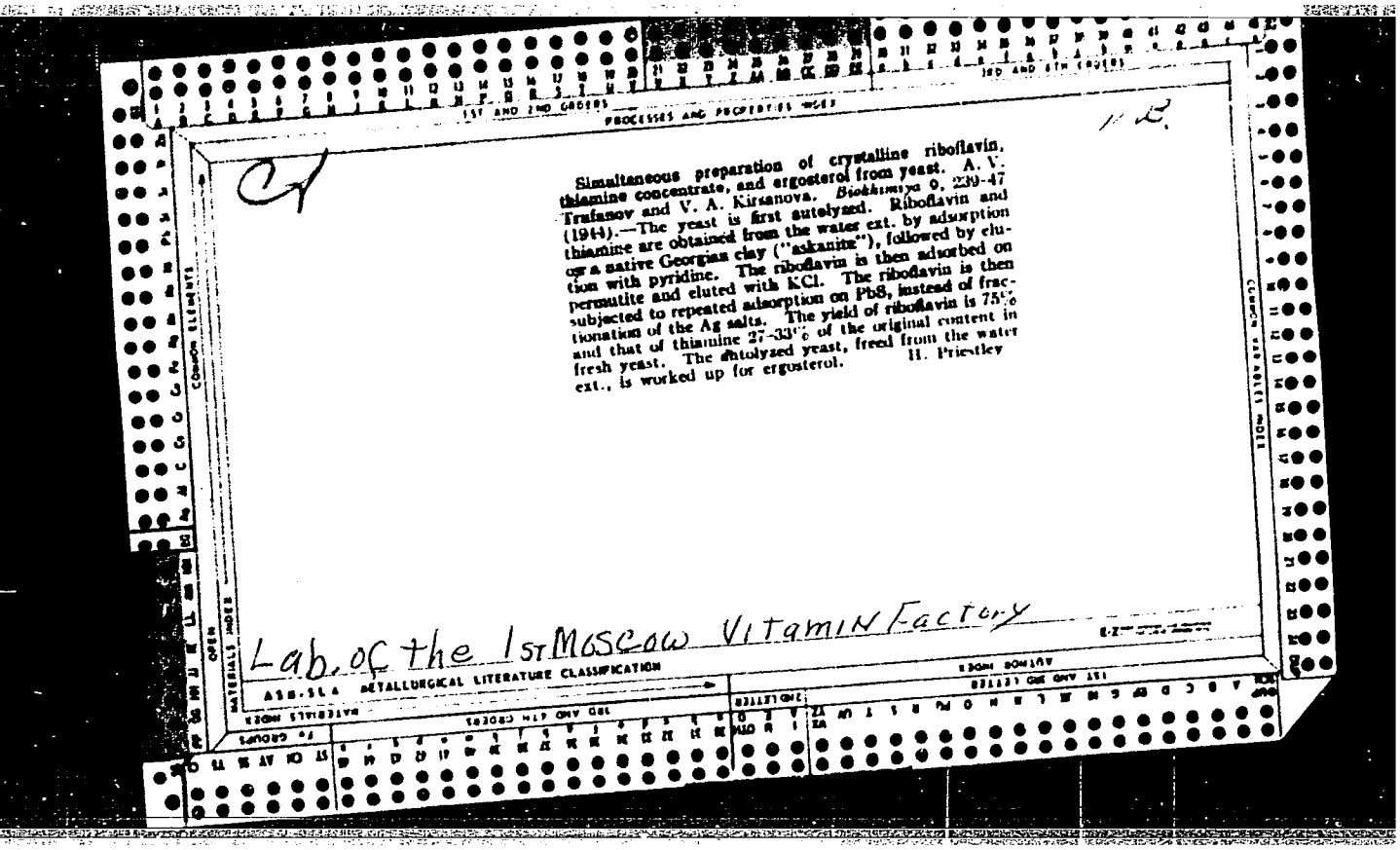
Enzymic synthesis of flavin-adenine nucleotide. A. V. Trufanov. *Biokhimiya* 7, 188-200(1942); cf. *C. A.* 35, 7300.—A study is made of the synthesis of riboflavin-adenine-dinucleotide by slices of brain, kidney and intestine of normal rats, as well as by slices of liver, brain, kidney and heart of rats on a diet deficient in riboflavin. All the above-mentioned organs actively synthesize the dinucleotide from its components. The brain was chosen for study, since the opinion has been expressed that lack of riboflavin in the diet of rats leads to a breakdown of the central nervous system. The initial dinucleotide content of gray brain matter (normal rabbit) is about twice the amt. of the white matter. The intensity of the synthesis of the dinucleotide is somewhat higher in the white than in the gray brain matter. The amt. of dinucleotide synthesized from its components by brain and heart of rats on a diet deficient in riboflavin attains a higher value than that synthesized by similar organs of healthy rats. This indicates that the most sensitive organs, as regards deficiency in riboflavin, are the brain and heart. Addn. of protein to slices of brain or kidney contg. riboflavin enhances dinucleotide formation; glycogen acts similarly, under aerobic conditions. Glycolytic poisons, such as fluorides, arsenites and iodoacetates, inhibit dinucleotide formation; phlorizin is without effect. As regards the mechanism of dinucleotide synthesis, adenosine-diphosphate condenses with riboflavin to yield the dinucleotide. The latter hydrolyzes to give riboflavinphosphoric acid and adenylic acid. H. Priestley

11A

Enzyme Lab of the Dept. of Physiological Chem Viem, moscow



Water-soluble vitamins and their interrelations with the enzymes. A. V. Trufanov. *Uspekhi Khim.* 12, 452–71 (1943). Review with 114 references to the literature. The part played by vitamins in enzyme reactions is considered. The relation of thiamine, riboflavin, nicotinic acid, ascorbic acid, pyridoxine, and pantothenic acid to the enzymes is discussed.
F. H. Rathmann



PROCESSES AND PROPERTIES INDEX

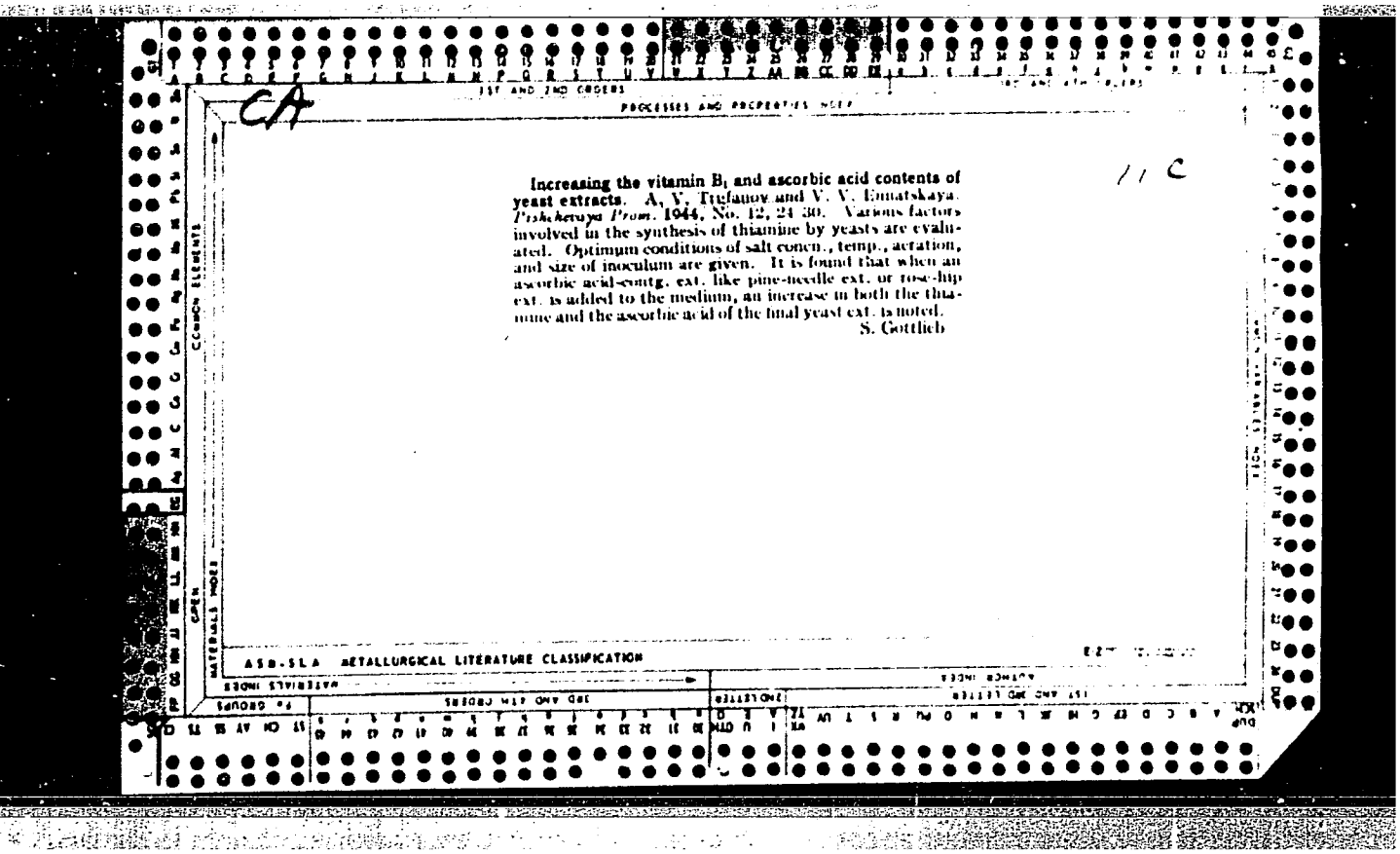
1ST AND 2ND GROUPS

3RD AND 4TH GROUPS

Simultaneous preparation of crystalline riboflavin, thiamine concentrate, and ergosterol from yeast. A. V. Trafanov and V. A. Kirsanova. *Biokhimiya* 9, 239-47 (1944).—The yeast is first autolyzed. Riboflavin and thiamine are obtained from the water ext. by adsorption on a native Georgian clay ("askanite"), followed by elution with pyridine. The riboflavin is then adsorbed on permutite and eluted with KCl. The riboflavin is then subjected to repeated adsorption on PbS, instead of fractionation of the Ag salts. The yield of riboflavin is 75% and that of thiamine 27–33% of the original content in fresh yeast. The autolyzed yeast, freed from the water ext., is worked up for ergusterol. H. Priestley

Lab. of the 1st Moscow Vitamin Factory

A58-51A METALLURGICAL LITERATURE CLASSIFICATION



CA

11 C

Increasing the vitamin B_1 and ascorbic acid contents of yeast extracts. A. V. Trufanov and V. V. Ematskaya. *Prikhcheviya Prom.* 1944, No. 12, 24-30. Various factors involved in the synthesis of thiamine by yeasts are evaluated. Optimum conditions of salt concn., temp., aeration, and size of inoculum are given. It is found that when an ascorbic acid-contg. ext. like pine-needle ext. or rose-hip ext. is added to the medium, an increase in both the thiamine and the ascorbic acid of the final yeast ext. is noted.

S. Gottlieb

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

TRUFANOV, A.V

~~TRUFANOV, A.V.~~

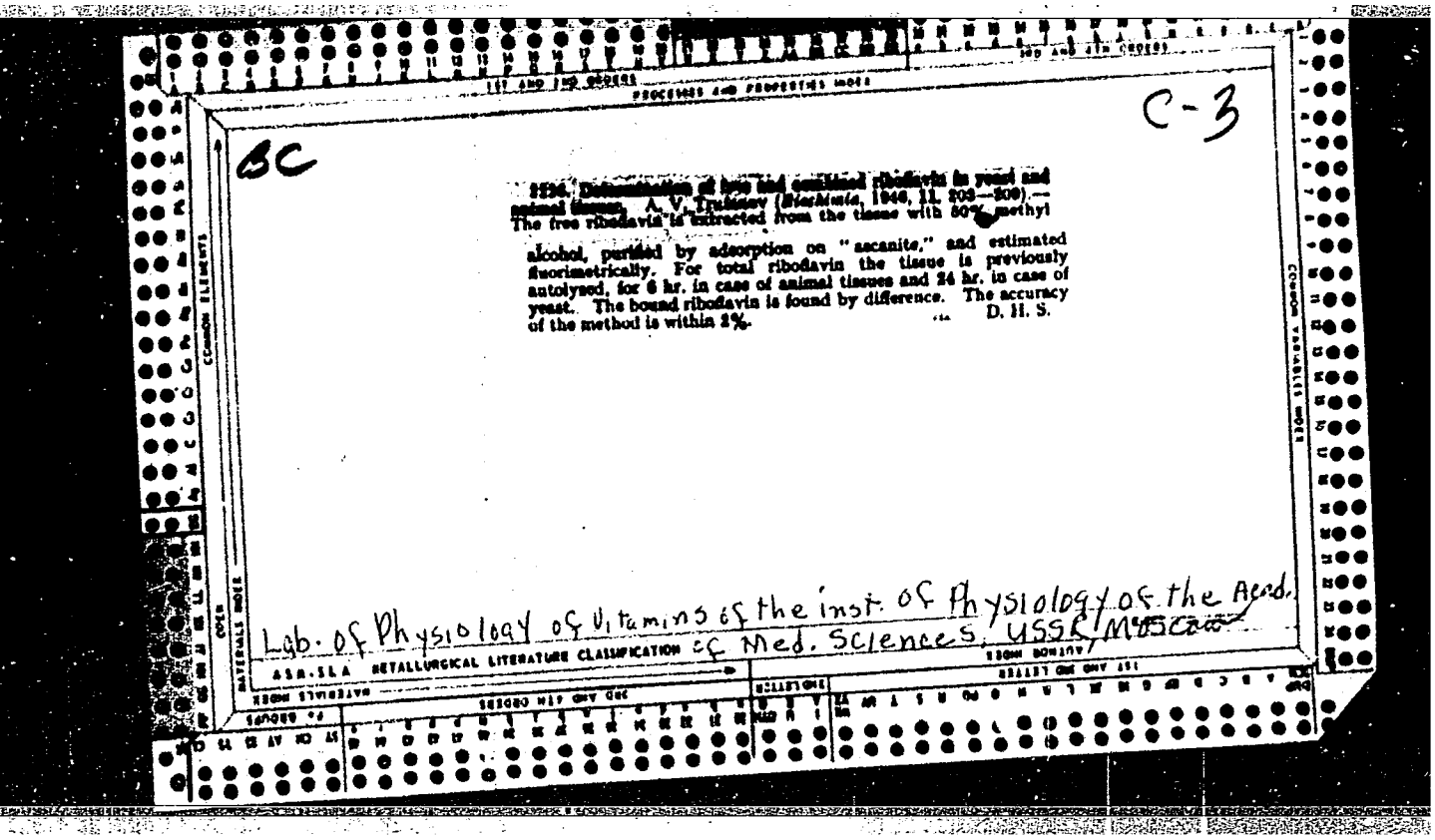
"Fate of Ribo lavi During Protsin Deficiency", A.V. Trufanov (Inst Physiol,* Acad Med Sci, Moscow).

"Biokhimiya" Vol. 11, 1946, pp 33-43.

Riboflavin increases in the u ine of rats kept on a low-protein diet. Riboflavin content of liver and muscle tissues sharply decreases. No synthesis of flavin-adenine-dinucleotide takes place in the liver and tissues of rats fed for 50 days on low-protien diet. When adequate protein diet is resumed, riboflavin content re urns to normal, and there is intense synthesis of the dinucleotide by the liver and muscle tissue.

AO: W-205, 5 Feb. 48.

*LAB of. Physiology of Vitamins



BC

C-3

2236. Determination of free and combined riboflavin in yeast and animal tissues. A. V. Trufanov (*Biokhimiia*, 1946, 11, 203–209).—The free riboflavin is extracted from the tissue with 80% methyl alcohol, purified by adsorption on "asanite," and estimated fluorimetrically. For total riboflavin the tissue is previously autolysed, for 6 hr. in case of animal tissues and 24 hr. in case of yeast. The bound riboflavin is found by difference. The accuracy of the method is within 2%. D. H. S.

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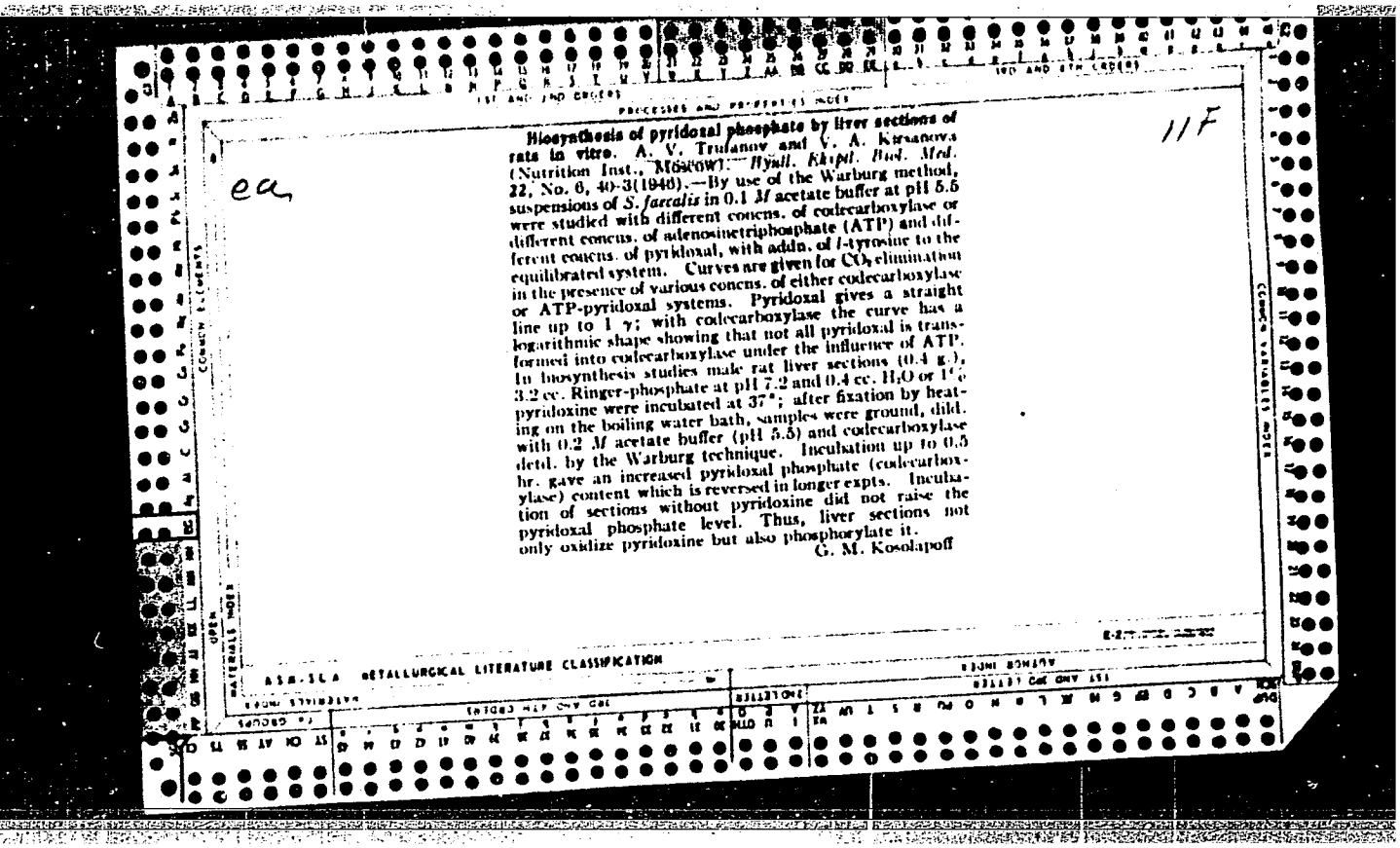
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

TRUFANOV, V. A.

"Folic acid, its properties and relation to other new nutritional factors." (p. 231)
by Trufanov, V. A. and Kirsanova, A. V.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XXII, No. 3, 1946.



Biosynthesis of pyridoxal phosphate by liver sections of rats in vitro. A. V. Trufanov and V. A. Kirsanova (Nutrition Inst., Moscow). *Byull. Eksptl. Biol. Med.* 22, No. 6, 40-3(1946).—By use of the Warburg method, suspensions of *S. faecalis* in 0.1 *M* acetate buffer at pH 5.5 were studied with different concns. of codecarboxylase or different concns. of adenosinetriphosphate (ATP) and different concns. of pyridoxal, with addn. of *l*-tyrosine to the equilibrated system. Curves are given for CO_2 elimination in the presence of various concns. of either codecarboxylase or ATP-pyridoxal systems. Pyridoxal gives a straight line up to 1 γ; with codecarboxylase the curve has a logarithmic shape showing that not all pyridoxal is transformed into codecarboxylase under the influence of ATP. In biosynthesis studies male rat liver sections (0.4 g.), 3.2 cc. Ringer-phosphate at pH 7.2 and 0.4 cc. H_2O or 1% pyridoxine were incubated at 37°; after fixation by heating on the boiling water bath, samples were ground, dild. with 0.2 *M* acetate buffer (pH 5.5) and codecarboxylase detd. by the Warburg technique. Incubation up to 0.5 hr. gave an increased pyridoxal phosphate (codecarboxylase) content which is reversed in longer expts. Incubation of sections without pyridoxine did not raise the pyridoxal phosphate level. Thus, liver sections not only oxidize pyridoxine but also phosphorylate it.

G. M. Kosolapoff

62/49T50

TRUFANOV, A. V.

USSR/Medicine - Pyridoxal Phosphate
Medicine - Biochemistry
Nov/Dec 47

"Pyridoxal Phosphate Synthesis by Animal Tissues," A. V. Trufanov, V. A. Kirsanova, Z. I. Solov'yeva, Lab of Chem of Vitamins, Nutrition Inst, Acad Med Sci USSR, 8 pp

"Biokhim" Vol XII, No 6

Explained synthesis of pyridoxal phosphate (codecarboxylase) in vitro in sections of livers, kidneys, heart, muscles and brains of normal rats in the presence of pyridoxene. Synthesis of pyridoxal phosphate is [redacted] 62/49T50

USSR/Medicine - Pyridoxal Phosphate (Cont'd) Nov/Dec 47

related to the enzymatic system of the cells which have optimum pH of about 7.2. Maximum synthesis occurs when pyridoxene and fresh tissues are mixed in a ratio of 2.5 mg (pyrid. dcrbne, to 1 g of tissue). Submitted 18 Feb 48.

[redacted]

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