YORDANOV, N.; PAVLOVA, M.

Study of rhenium (VII) reduction by tin (II) chloride with the purpose of using it in analytical practice. Zhur.anal.khim. 20 no.5:591-597 '65. (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii Bolgarskoy AN, Sofiya. Submitted April 17, 1964.

KUKAYN, R. [Kukaine, R.]; INDULEN, M. [Induléna, M.]; KANEL', I. [Kanele, I.]; KONDRASHOVA, M.; KALNINYA, B. [Kalnina, V.]; VOLRAT, A. [Volrate, A.]; FELDMAN, G. [Feldmane, G.]; NAGAYEVA, L.; PAVLOVA, M.; POPOVA, V.

Characteristics of the tuberculin tests in children inocculated during early infancy with peroral BCG vaccine and live poliomyelitis vaccine. Vestis Latv ak no.7:115-117 '62.

1. Institut mikrobiologii AN Latviyskoy SSR.

PAVLOVA, M.

T.V.Tishchenko's packaging apparatus. Sov.torg. 35 no.4:54-55 Ap '62. (MIRA 15:4)
(Packaging--Equipment and supplies)

PAVLOVA, M.

SURNAME, Given Names

(3)

Country: Czechoslovakia

Academic Degrees:

Affiliation: Human Nutrition Research Institute (Ustav pro Vyzkum Vyzivy Lidu) Prague
Director: Dr. J. MASEK

Source: Prague, Ceskoslovenske Gastroenterologie, Vol XV, No 5, Aug 61, pp 30[illegible] 30[illegible]

Data: "Determinin[illegible] Protein 'Saturation' of the Body"

MASEK, J.
HRUBA, Fr.
PAVLOVA, M.

GPO 981643

IORDANOV, N.; PAVLOVA, M.

Valency of rhenium in its orange-red thiocyanate complex.
Zhur. anal. khim. 19 no.2:221-223 '64. (MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii Bolgarskoy akademii nauk, Sofiya.

MINCHEVA-STEFANOVA, I.; GOROVA, M.; PAVLOVA, M.

Zinc tetrahedrite of lead-zinc deposits in the Madan District. Spis
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1. Geologic Institute of the Bulgarian Academy of Sciences.

PAVLOVA, M.; IORDANOV, N.

"Determining the potassium in the blood serum by polarographic method."

p.113 (Izvestiia, Vol. 5, 1957, Sofiia, Bulgaria)

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ORLOVA, V.; PAVLOVA, M.

Machinery of N.I. Chernikov and A.I. Trofimov. Sov. torg. 33 no.7:42-45 Jl '59. (MIRA 12:9)
(Vegetable trade--Equipment and supplies)

PAVLOVA, M., starshiy inzhener

Trays for confectionery. Obshchestv. pit. no.6:37 Je '61.
(MIRA 14:9)

1. Byuro po delam ratsionalizatsii i izobretatel'stva Ministerstva torgovli RSFSR.
(Confectionery--Equipment and supplies)

PAVLOVA, M. A.

PAVLOVA, M. A.: "Paris -- the economic center of France." Acad Sci USSR. Inst of Geography. Moscow, 1956. (DISSERTATION For the Degree of Candidate in GEOGRAPHICAL SCIENCES.)

So: Knizhnaya letopis' No 24 1956

KHMEL'NITSKAYA, Ye.L., prof., doktor ekon. nauk; VOLKOV, M.Ya., kand. ekon. nauk; BEL'CHUK, A.I., kand. ekon. nauk; IORDANSKAYA, E.N., ml. nauchn. sotr.; MENZHINSKIY, Ye.A.; PAVLOVA, M.A., kand. ekon. nauk; VASIL'KOV, N.P., kand. ekon. nauk; ARDAYEV, G.B., kand. ekon. nauk; VAL'KOV, V.A., kand. ekon. nauk; TIMASHKOVA, O.K., kand. ekon. nauk; ANDREYEV, Yu.K., ml. nauchn. sotr.; PUSHKIN, A.A., ml. nauchn. sotr.; MAKSIMOVA, M.M., kand. ekon. nauk; KIRSANOV, A.V., kand. ekon. nauk; SHEBANOV, A.N., ml. nauchn. sotr.

[Changes in the economic structure of the countries of Western Europe] Izmeneniia v ekonomicheskoi strukture stran Zapadnoi Evropy. Moskva, Nauka, 1965. 433 p. (MIRA 18:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy.

PAVLOVA, M. A.

PAVLOVA, M. A.: "The psychological requirements for teaching two languages (experiment in the sychological investigation of the process of mastering Russian by Latvian students)." Odessa State U imeni I. I. Mechnikov. Odessa, 1956. (Dissertation for the Degree of Candidate in Pedagogical Science.)

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No 32, 1956. Moscow.

ZHED', V.P., kand. tekhn. nauk, Prinimali uchastiye: BASS, G.S., inzh.; VOROB'YEV, [illegible], kand. tekhn. nauk; YELISAVETSKIY, A.G., inzh.; PAVLOVA, M.A., st. inzh.; SHEINBERG, S.A., doktor tekhn. nauk; LUK'YANOV, A.K., red.; VIKTOROVA, Z.N., tekhn. nauk

[Units and mechanisms of machine tools; survey of foreign design] Uzly i mekhanizmy metallorezhushchikh stankov; obzor zarubezhnykh konstruktsii. Moskva, TSentr. in-t nauchno-tekhn. informatsii, 1961. 53 p. (MIRA 14:11)
(Machine tools--Design and construction)

PAVLOVA, Mariya Alekseyevna; SAVZDARG, V.E., redaktor; VASKOVA, Ye.I., tekhnicheskiy redaktor

[Gooseberries] Kryzhovnik. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 93 p. (MLRA 9:8)
(Gooseberries)

PAVLOVA, Mariya Alekseyevna; SAVZDARG, V.E., red.; BALLOD, A.I., tekhn.red.

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1. Luganskiy sel'skokhozyaystvennyy institut.
(Lugansk Province--Corn (Maize)) (Soil temperature--Measurement)

PAVLOVA, M.G.

Vortex Motion

Experiments with vortexes in liquids. Fiz. v shkole No. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, December 1952, Uncl.

LEYDERMAN, Yu.R.; URAZBAYEV, M.T., otvetstvennyy redaktor; PAVLOVA, M.I., redaktor izdatel'stva; SHEPEL'KOV, A.T., tekhnicheskiy redaktor

[Rigidity and vibration of frame structures] Ustoichivost' i kolebaniia ramnykh konstruktsii. Tashkent, Izd-vo Akademii nauk Uzbekskoi SSR, 1955. 219 p. (MIRA 9:12)
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PAVLOVA, M. I.

Physicans

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Nature of the beating-up process in the forming of woolen fabrics. Izv.vys.ucheb.zav.;tekh.tekst.prom. no.2:75-85 '60. (MIRA 13:11)

1. Moskovskiy tekstil'nyy institut.
(Woolen and worsten manufacture) (Looms)

ABIDZHANOV, Sokhib; BAZHITOV, I.V.; inzh.-normirovshchik; KIRICHUK, A.S.; KOKOREV, V.A.; KUZNETSOV, I.F.; PAVLOVA, M.I.; dotsent; ZHUPIKOVA, D.M., dotsent

Consultation. Tekst. prom. 21 no.1:91-93 Ja '61. (MIRA 14:3)

1. Master lento-rovinchnogl tsekha Kokandskogo chulochuno-pryadil'nogo kombinata (for Abidzhanov). 2. Fabrika imeni Lakina (for Bazhitov). 3. Master remontno-montazhnogo otdela Barnaul'skogo khlopchatobumazhnogo kombinata (for Kirichuk). 4. Vsesoyuznyy nauchno-issledovatel'skiy institut tekstil'nogo i legkogo mashinostroyeniya (for Kokorev). 5. Nachal'nik tekhnicheskogo otedela Pavlov-Pokrovskoy fabriki (for Kuznetsov). 6. Kafedra tkachestva Moskovskogo tekstil'nogo instituta (for Pavlova, Zhupikova).
(Textile industry)

VOLKOV, Pavel Vasil'yevich; SIMAKIN, V.V., retsenzent; PAVLOVA, M.I., retsenzent; ORLOVA, L.A., red.; LEVITSKAYA, N.N., tekhn. red.

[Arrangement and operation of mechanical looms for the cotton weaving industry] Ustroistvo i obsluzhivanie mekhanicheskikh tkatskikh stankov khlopchatobumazhnoi promyshlennosti. Izd.3., ispr. i dop. Moskva, Izd-vo nauchno-tekhn. lit-ry RSFSR, 1960. 130 p.
(MIRA 14:8)

(Looms) (Cotton manufacture)

SUBBOTINA, A.P., uchitel'nitsa, GAYDUKOVA, T.A., uchitel'nitsa, BARABASH, A.D., unchitel'nitsa, PAVLOVA, M.I.; SOPKIN, G.A.; ADAYEV, M.U.

Speeches of delegates to the All-Union Teachers' Congress. Biol. v shkole no.5:10-16 S-O '60. (MIRA 13:11)

1. Goryachevodskaya srednyaya shkola, predgornogo rayona, Stavropol'skogo kraya (for Subbotina). 2. Kantemirskaya srednyaya shkola, Voronezhskoy oblasti (for Gaydukova). 3. Srostinskaya srednyaya shkola, Altayskogo kraya (for Barabash). 4. Direktor Yermishinskoy sredney shkoly, Ryazanskoy oblasti; chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for Pavlova). 5. Direktor Tigil'skoy sredney shkoly, Kamchatskoy oblasti (for Sopkin). 6 Direktor Kadgaronskoy sredney shkoly, Severo-Osetinskoy ASSR (for Adayev).
(Agriculture—Study and teaching)

PAVLOVA, M.I.

ROZANOV, P.M.; BORODOVSKIY, M.S.; VASIL'CHENKO, V.N.; PAVLOVA, M.I.

Analytical method of computing the tension of a thread. Tekst.prom. 14 no.9:47-50 S '54. (MLRA 7:11)

1. Kafedra tkachestva Moskovskogo tekstil'nogo instituta. (for Rozanov, Borodovskiy, Vasil'chenko, Pavlova)
(Thread) (Strains and stresses)

NIKIFOROV, S.I.; BLYUYER, V.A., retsenzent; PAVLOVA, M.I., retsenzent; KAPELEVICH, Ye.I., redaktor; NEKRASOVA, O.I., tekhnicheskiy redaktor

[The planning of cotton weaving factories] Proektirovanie khlopkotkatskikh fabrik. Izd. 2-oe, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR, 1956. 277 p. (MLRA 9:10)
(Cotton manufacture)

PAVLOVA, Mariya Ivanovna; ZHUPIKOVA, Dar'ya Maksimovna; KARPOV, Yakov Alekseyevich; BYKOV, A.P., retsenzent; ZAYTSEVA, T.M., red.; KOGAN, V.V., tekhn.red.

[Four-shuttle British-Northrop loom] Chetyrekhchelnochnyi tkatskii stanok British-Nortrop. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1957. 182 p. (MIRA 11:3)
(Looms)

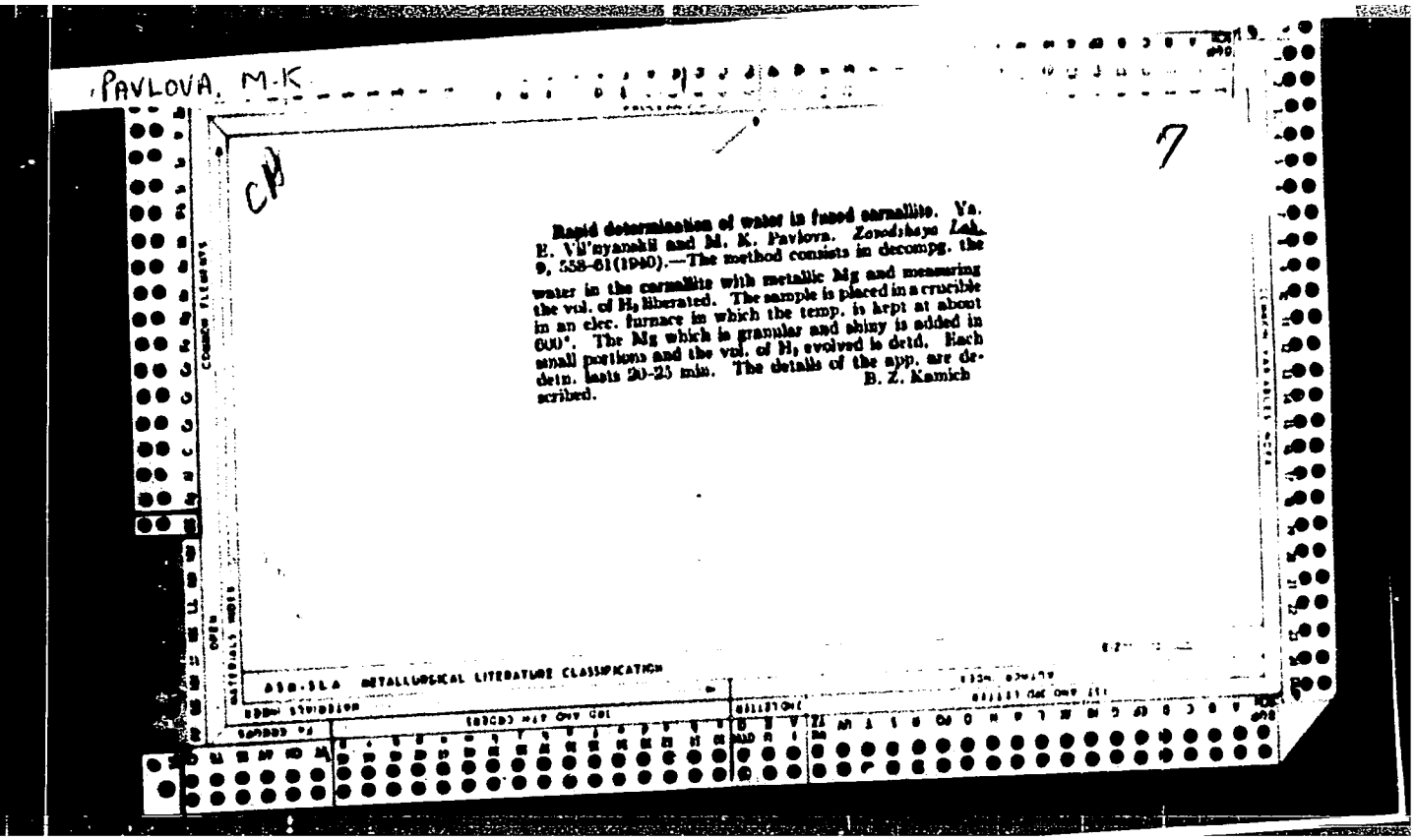
PAVLOVA, M.I.

Equipment for the study of the principles of agricultural production. Politekh. obuch. no.3:33-36 Mr '58. (MIRA 11:2)
(Agriculture--Study and teaching)

ARIFOV, Ubay Arifovich, doktor fiziko-matem. nauk, akademik.
Prinimali uchastiye: PARALIS, E.S.; GURVICH, L.G., st. nauchnyy sotr.; STARODUBTSEV, S.V., akademik, otv. red.; MIL'MAN, Z.A., red.; PAVLOVA, M.I., red.; SHPEL'KOV, A.T., tekhn.red.

[Interaction of atomic particles with a metal surface] Vzaimodeistviu atomnykh chastits s poverkhnost'iu metalla. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1961. 323 p. (MIRA 15:3)

1. Akademiya nauk Uzbekskoy SSR (for Arifov, Starodubtsev).
2. Zaveduyushchiy teoreticheskim sektorom otdela elektroniki Instituta yadernoy fiziki (for Paralis). Otdel elektroniki Instituta yadernoy fiziki (for Gurvich).
(Collisions (Nuclear physics))
(Metals, Effect of radiation on)



PAVLOVA, M.K

CM

7

Rapid determination of water in fused carnallite. Va. E. Vil'yanskii and M. K. Pavlova. *Zavodskaya Lab.* 9, 558–61 (1940).—The method consists in decompg. the water in the carnallite with metallic Mg and measuring the vol. of H_2 liberated. The sample is placed in a crucible in an elec. furnace in which the temp. is kept at about 600°. The Mg which is granular and shiny is added in small portions and the vol. of H_2 evolved is detd. Each detn. lasts 20–25 min. The details of the app. are described.

B. Z. Kamich

METALLURGICAL LITERATURE CLASSIFICATION

MOSKVIN, M.M.; MASLAKOVA, N.I.; DOBROV, S.A.; PAVLOVA, M.M.; NAYDIN, D.P.; SHIMANSKIY, V.N.; ASTAF'YEVA, K.A.; POSLAVSKAYA, N.A.. Primal uchastiye CHEKHOVICH, M.V.. SHOROKHOVA, L.I., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Atlas of upper Cretaceous fauna of the Northern Caucasus and the Crimea] Atlas verkhnemelovoi fauny Severnogo Kavkaza i Kryma. Pod red. M.M.Moskvina. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 499 p. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnykh gazov. 2. Sotrudniki kafedry istoricheskoy geologii i paleontologii Geologicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta (for all except Shorokhova, Mukhina).
(Caucasus, Northern--Paleontology, Stratigraphic)
(Crimea--Paleontology, Stratigraphic)

PAVLOVA, M.M.

Roentgenologic picture of heart modification in pulmonary emphysema. Klin.med., Moskva 29 no.1:87-88 Jan 51. (CIML 20:5)

1. Of the Faculty Therapeutic Clinic (Director--G.F.Lang, Active Member of the Academy of Medical Sciences USSR, deceased) and of the Department of Roentgenology (Head--Prof.D.G.Rokhlin, Corresponding Member of the Academy of Medical Sciences USSR), First Leningrad Medical Institute imeni Academician I.P.Pavlov.

MOSKVIN, M.M.; PAVLOVA, M.H.

Lower Turonian in the Northern Caucasus. Biul. MOIP. Otd. geol. 35 no.5:124-141 S-O '60. (MIRA 14:1)
(Caucasus, Northern--Geology, Stratigraphic)

PAVLOVA, K. K.

"Inoceramus of the Upper Cretaceous Deposits of Dagestain." Cand Geol-Min Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, Moscow, 1954. (KL,No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

PAVLOVA, M.N.; SAKHAROV, B.V.

Treatment of open infected fractures in the knee joint area with metal osteosynthesis; experimental study. Ortop., travm. i protez. 25 no.7:11-16 Jl '64. (MIRA 18:8)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V.Volkov). Adres avtorov: Moskva A-299, Novaya Ipatovka, d.8, TSentral'nyy institut travmatologii i ortopedii.

POLYAKOV, V.A.; TOREEV, V.P.; LAVLOVA, N.A.

Characteristics of the regeneration processes of bone tissue in irradiated animals. Ortop., travm. i protez. 26 no.12[illegible] (MIRA 1[illegible] D '65.

1. Iz Tsentral'nogo ordena [illegible] travmatologii i ortopedii (direktor - [illegible] prof.M.V.Volkov.). Adres avtorov: Moskva [illegible], ul. [illegible]reva, d.10, Tsentral'nyy institut travmatologii [illegible]. Submitted March 25, 1965.

CA PAVLOVA, M.N

11 C

Ribonucleic acid in cells of mammalian connective tissue. L. B. Levinson and M. N. Pavlova (Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 69, 437–40(1949).—Since inflammation increases the basophilic reaction of the cytoplasm (in white mice, rabbits, and dogs subjected to subcutaneous introduction of sterile pieces of celluloid plastic to induce inflammation), evaluation of the level of ribonucleic acid in the affected cells was of interest in detn. of the cause of the basophilic reaction. Cytological examn. showed that the level of ribonucleic acids did rise significantly in affected tissues.
G. M. Kosolapoff

CA Inst Zoology

IMAMALIYEV, A.S., doktor med. nauk; PAVLOVA, M.N.

Fate of joint homografts and its relation to the time of their preservation at low temperatures. Ortop., travm. i protez. 25 no.4:18-22 Ap '64 (MIRA 18:1)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (direktor - chlen-korrespondent AMN SSSR prof. M.V. Volkov). Adres avtorov: Moskva A-299, Novaya Ipatovka, d.8, TSentral'nyy institut travmatologii i ortopedii.

PAVLOVA, M.N., kand.biolog. nauk (Moskva, Fortunatovskaya ul., d.33/44, kv.88)

Morphological changes in the nerves of animal bone tissue during acute radiation sickness. Ortop. travm. i protez. 24 no.2:9-14 F'63. (MIRA 16:10)

1. Iz kliniko-radiologicheskogo otdeleniya (zav. - dotsent V.A. Palyakov) Tsentral'nogo instituta travmatologii i ortopedii (dir. - prof. M.V.Volkov).

GRODZENSKIY, D.E.; GORIZONTOV, P.D.; VOROB'YEV, Ye.I.; MANOYLOV, S.Ye.; FEDOROVA, T.A.; PAVLOVA, M.N.; GABUNIYA, R.I.

Second International Congress on Radiation Research in England, Aug. 5-11, 1962. Med. rad. 8 no.3:83-92 Mr '63. (MIRA 17:9)

PAVLOVA, M. N., kand. med. nauk, (Moskva, Fortunatovskaya ul., d. 33/44, kv. 88)

Morphological changes in the bone tissue of animals in acute radiation sickness combined with radiation injuries. Ortop., travm. i protez. no.11:46-51 '61. (MIRA 14:12)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - deystvitel'nyy chlen AMN SSSR prof. N. N. Priorov[deceased])

(RADIATION SICKNESS) (BONES—RADIOGRAPHY)

PAVLOVA, M.N.

Biological Effect of Ionizing Radiation on Bony Tissue

V. A. Polyakov, M. N. Pavlova and V. P. Torbenko

The effect of a MLD/50/30-day dose of X-ray on bone has been studied by X-ray crystallography, by biochemical and by histological methods. The collagen structure is changed and "dwarf" crystals of 10 $^{-6}$ mm size grow on stable hydroxyapatite crystals 14 days after exposure.

The amylase and alkaline phosphatase activity is decreased after 1 week, but returns to a norm at least after 30-40 days.

Resorption of bone, degeneration of epiphyseal cartilage, and also repair processes, are abnormal. Some of these changes are the result of disturbances in the nerve and blood supply and in metabolism.

The Central Institute of Traumatology and Orthopaedics under the USSR Ministry of Public Health, USSR

report presented at the 2nd Intl. Congress of Radiation Research, Harrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962

PAVLOVA, M. N. (Moskva)

Case of fibrous osteodysplasia of the occipital bone in monkeys. Arkh. pat. no.6:67-69 '61. (MIRA 14:12)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - deystvitel'nyy chlen AMN SSSR prof. N. N. Priorov)

(OCCIPITAL BONE--DISEASES)

PAVLOVA, M. N.

"The Condition of Nucleic Acids in Cellular Elements of Porous Connective Tissue During Various Disturbances of the Central Nervous System." Cand Biol Sci, Moscow State Pedagogical Inst imeni V. I. Lenin, 27 Dec 54. (VM, 15 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

VYGODSKAYA, M.B., inzh.; KRAMARENKO, G.N., starshiy nauchnyy sotrudnik; PAVLOVA, M.N., kand. biolog. nauk

Experimental data on transplantation of bone homografts after prolonged preservation in high polymer compounds. Ortop., travm. i protez. 24 no.11:42-47 N '63.

(MIRA 17:10)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - prof. M.V. Volkov). Adres avtorov: Moskva A-299, Novaya Ipatovka, d.8, TSentral'nyy institut travmatologii i ortopedii.

KALABINA, A.V.; MYASNIKOVA, L.S.; KOLMAKOVA, E.F.; SHESTAKOVA, I.R.; PAVLOVA, M.P.

Synthesis and transformations of vinyl aryl ethers. Report No.17: Synthesis and some properties of α,β-dibromoethyl aryl ethers. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un. 5 no.1:225-237 '61. (MIRA 16:8)

(Ethers)

LEONOV, V.A.; PAVLOVA, M.P.

Disturbance of the natural radioactivity of β- and γ- radiation in leukemia in children. Dokl. AN BSSR 7 no.1:54-56 Ja '63. (MIRA 17:1)

1. Sektor gerontologii AN BSSR.

PAVLOVA, M. P., SALIKHODZHAYEV, S. S.

"The role of high-dispersion fractions of quartz-containing dust in the development of pneumoconiosis."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

PAVLOVA, M.P. [Paulava, M.P.]

All-Union Conference on the Problem of Longevity. Vestsi AN BSSR.Ser.biial.nav. no.2:135-137 '59. (MIRA 12:9)
(LONGEVITY--CONGRESSES)

S/081/63/000/004/017/051
B166/B186

AUTHORS: (17) Kalabina, A. V., Myasnikova, L. S., Kolmakova, E. P., Shestakova, I. R., Pavlova, M. P., (18) Kalabina, A. V., Prilezhayeva, Ye. N., Yakovleva, Z. I.

TITLE: Studies in the field of synthesis and conversions of vinylaryl esters. No. 17, Synthesis and certain properties of α,β-dibromethylaryl esters. No. 18. The addition of mercaptans to vinyl esters of the aromatic series

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1963, 238, abstract 4Zh122 (Izv. Fiz.-khim. n.-i. in-ta pri Irkutskom un-te, v. 5, no. 1, 1961, 193 - 206, 225 - 237)

TEXT: (17) Bromination of the vinyl esters of phenol (I), o-cresol (II), n-tert-butylphenol and thymol (III) in CCl_4 gave the respective α,β-dibromethyl esters (IV - VII), which have lachrymatory properties; without the solvent partial polymerization takes place. IV - VII probably exist in the form of two tautomeric forms $CH_2BrCHBrOAr \rightleftharpoons [CHBr{=}CHO(H)Ar]^+Br^-$, as ionic Br is easily back-titrated by aqueous solutions of NaOH and $AgNO_3$.

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Studies in the field of...

whilst IV - VII themselves are smoothly converted into β-bromvinyl esters (BVE) when vacuum distilled, yield 80 - 85%. Hydrolysis of IV - VII proceeds in two distinct stages: first of all under the action of H_2O cold there is dissociation of the weak oxonium complex, and the BVE which forms only splits with long boiling in an acid medium. Into a solution of 0.14 moles I in 40 ml CCl_4 at -5°C (3 - 8°C inside the flask) were stirred, over a period of 1.5 - 2 hrs, 0.15 moles dry Br_2 in 20 ml CCl_4, and IV, $C_8H_8OBr_2$, was distilled off, yield 97.2%, b.p. 129 - 130°C/12 mm Hg, $n^{20}D$ 1.5849, d_4^{20} 1.7418, fumes in air. 3 g IV and 50 ml water were shaken in a closed bottle at 45 - 50°C for 5 hrs, this was extracted with ether, and 1.19 g phenol BVE (VIII) was separated by distillation, b.p. 100 - 102°C/10 mm Hg, $n^{20}D$ 1.5750, as well as 1.403 g IV. 1 g VIII and 25 ml 5% H_2SO_4 were heated, stirring at ~100°C for 6 - 7 hrs; this was neutralized with alkali and extracted with ether; after evaporating, $BrCH_2CHO$ was separated from the residue in the form of a semicarbazone; the alkaline layer was treated with 10% H_2SO_4, C_6H_5OH was extracted with ether. V - VII were synthesized under similar conditions

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B166/B186

Studies in the field of...

(below are given: the substance, yield %, b.p. in °C/mm Hg, $n^{20}D$, d_4^{20}): V, 97.6, 133 - 134/14, 1.5718, 1.5662, (BVE, b.p. 145 - 148°C/35 mm Hg, $n^{20}D$ 1.5662); VI, 96.1, 126 - 127.3, 1.5450, 1.4909; VII, 97.5, 149 - 150.4, 1.5548, 1.4595.

(18) The addition of ethyl- and butylmercaptans to I - III was achieved by ionic and radical mechanisms, leading to $CH_3CH(SR)OAr$ (IX) and $RSCH_2CH_2OAr$ (X) respectively. Substitutes of the first kind in the benzene ring considerably simplify radical addition. The thioacetals produced are easily hydrolyzed with dilute H_2SO_4 and split quantitatively when X is treated with $HgCl_2$, which proves their structure to be that of β adducts; under these conditions IX is highly stable. 0.1 mole I, 0.1 mole C_2H_5SH and 0.02 g azodiisobutyrodinitrile were heated in a sealed ampoule at 90 - 100°C for 24 hrs, and X (R = C_2H_5, Ar = C_6H_5), $C_{10}H_{14}OS$, was distilled, yield 85.02%, b.p. 123.5°C/3 mm Hg, $n^{20}D$ 1.5433, d_4^{20} 1.0543. The other X were produced under similar conditions (below are given: R, Ar, the gross formula, yield %,

Card 3/4

Studies in the field of...

b.p. in °C/mm Hg, $n^{20}D$, d_4^{20}); C_4H_9, C_6H_5, $C_{12}H_{18}OS$, 97.20, 141.0 - 142.0/2, 1.5313, 1.0118; C_2H_5, o-$CH_3C_6H_4$ (Xa), $C_{11}H_{16}OS$, 97.19, 139.0/7, 1.5394, 1.0352; C_2H_5, 3-CH_3-5-iso-$C_3H_7C_6H_3$, $C_{12}H_{22}OS$, 98.61, 166.0 - 167.0/12, 1.5270, 1.0025. A weak stream of dry SO_2 was bubbled for 1 - 2 min into a cooled ampoule containing 0.1 mole I and 0.1 mole C_2H_5SH; this was allowed to stand for 3 - 4 hrs and then neutralized with dry H_2CO_3, giving IX (R = C_2H_5, Ar = C_6H_5) (IXa), $C_{10}H_{14}OS$, yield 68.5%, b.p. 62 - 63.0°C/3 mm Hg, $n^{20}D$ 1.5365, d_4^{20} 1.0436. A mixture of 0.2487 g IXa and an excess of 20% solution of $HgCl_2$ in alcohol was allowed to stand for 2 - 3 hrs, methyl orange was added and 97.52% HCl was found by titration with 0.1 N NaOH. A stream of SO_2 was bubbled for 0.5 - 1 min into a mixture of 0.1 mole II and 0.15 mole C_2H_5SH, after 20 - 25 min IX was separated by distillation (R=C_2H_5, Ar = o-$CH_3C_6H_4$), $C_{11}H_{16}OS$, yield 60.0%, b.p. 74 - 75°C/12 mm Hg, $n^{20}D$ 1.5250, d_4^{20} 1.0084, as well as Xa (in view of traces of O_2), yield 3.1 g. For the previous communication see RZhKhim, 1961, 5Zh101. [Abstracter's note: Complete translation.]

Card 4/4

TIKHOMIROV, V.N.; PAVLOVA, M.P.

Flora of the upper Moscow River prior to the building of the Mozhaysk Reservoir. Nauch. dokl. vys. shkoly; biol. nauki no.2: 139-145 '61. (MIRA 14:5)

1. Rekomendovana kafedroy vysshikh rasteniy Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.
(MOSCOW RIVER—FRESH-WATER FLORA)

PAVLOVA, M.P. [Paulava, M.P.]

Cobalt in tubular bones of the human fetus. Vestsi AN BSSR. Ser. biial. nav. no.3:73-76 '60. (MIRA 14:1)
(FETUS) (COBALT IN THE BODY) (BONES)

PAVLOVA, M.P. [Paulava, M.P.]

Nickel in tubular bones of the human fetus. Vestsi AN BSSR. Ser. biial. nav. no. 4:85-88 '60. (MIRA 14:1)
(Nickel in the body) (Bones)
(Fetus)

PAVLOVA, M.P.

Copper in the long bones of the human fetus. Zdrav. Belor. 6 no. 10:16-19 O '60. (MIRA 13:10)

1. Kafedra detskikh bolezney (zaveduyushchiy - akademik AN BSSR V.A. Leonov) Minskogo meditsinskogo instituta.
(COPPER IN THE BODY) (EXTREMITIES (ANATOMY))

LEONOV, V.A.; PAVLOVA, M.[illegible]

Natural radioactivity balance in leukemias. Dokl. AN BSSR [illegible]:
407-409 Je '65.

1. Minskiy gosudarstvennyy meditsinskiy institut.

PAVLOVA, M.P.

Significance of microelements in the diet of pregnant women. Zdrav. Bel. 7 no. 2:11-13 F '61. (MIRA 14:2)

1. Iz kafedry pediatrii (zaveduyushchiy - akademik AN BSSR V.A. Leonov) Minskogo meditsinskogo instituta.
(TRACE ELEMENTS) (PREGNANCY)

20-2-41/61

AUTHOR: Pavlova, M. P.

TITLE: On the Significance of the Polymeric Condition of Ribonucleic Acid for the Renewal of Protein Complexes of Cytoplasmatic Structures (O znachenii polimernogo sostoyaniya ribonukleinovoy kisloty dlya obnovleniya belkovykh kompleksov tsitoplazmaticheskikh obrazovaniy)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2 pp. 363 366 (USSR)

ABSTRACT: It is of interest to clarify the question in how far the polymeric state of ribonucleic acid is necessary in order to guarantee the normal course of the process of breathing and of the connected phosphorylation and renewal of the cytoplasmatic protein complex. There is no doubt that nucleoproteids form the basis of the internal cellular structures, and the ribonucleic acid participates in the biosynthesis of proteins It has been shown in a previously published scientific paper on this topic that the addition of ribonuclease to the incubation mixture of the cytoplasmatic extract does in no way

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On the Significance of the Polymeric Condition of Ribonucleic Acid for the Renewal of Protein Complexes of Cytoplasmatic Structures

reduce the process of breathing together with the phosphorylation, in spite of the depolymerizing effects of this enzyme. During investigations of the phosphorus renewal in this acid by P^{32} it was also seen that the total radioactivity of the ribonucleic acid hardly decreased whereas the specific radioactivity sharply increased, and this in spite of the only small quantity of ribonucleic acid preserved in the polymeric state. As these results had been obtained by fractionating the ribonucleic acid in accordance with Schmidt-Tannhauser, the author of the paper under review wanted to verify that method, and even more so as that method has been criticized recently. These fractionating results were compared to the results obtained with the aid of the reliable Ogur method (extraction by 1 n chloric acid) and those obtaind by the Schmidt-Tannhauser method. It was seen that ribonucleic acid that had been insulated by application of the latter method really was strongly contaminated with foreign phosphorus. Formerly, its existence had led the author of the paper under review to the incorrect conclusion with respect to the metabolic heterogeneity of the ribonucleic acid in the cytoplasmatic extract. However, its preservation

On the Significance of the Polymeric Condition of Ribonucleic Acid for the Renewal of Protein Complexes of Cytoplasmatic Structures

in the polymeric state is of profound importance for the protein renewal in the extract; this was proved in special experiments. The experiments were conducted with an extraction from the rind substance of rabbit kidneys. As can be seen from Table Nr 3 in the paper under review, the 50-75% depolymerization of the ribonucleic acid leads to a sharp retardation of the methionin inclusion into the proteins of the extraction. This inclusion, however, represents the expression of a truly metabolic process, which depends on the normal course of the tissue breathing. Addition of yeast ribonuclease considerably weakens the influence of the ribonuclease on the inclusion of methionin into the proteins. In this context, the depolymarization of the ribonucleic acid is not hampered. The significance of the ribonucleic acid for the renewal of protein and for protein biosynthesis becomes clearer and clearer. But when attempts are made to put the existing concepts into concrete shape, scientists differ fundamentally in their views. According to some

20-2-41/60

On the Significance of the Polymeric Condition of Ribonucleic Acid for the Renewal of Protein Complexes of Cytoplasmatic Structures

scientists, the ribonucleic acid is a compound with macroenergetic phosphoric bonds and it is in a position to directly yield the energy for the protein biosynthesis. It follows from earlier observations made by the author of the paper under review that in the ribonucleic acid fraction of the bacteria there can be found a phosphorus which can be easily hydrolyzed. Another point of view, confirmed by direct experiments, seems to be more probable: namely that the entrance of different amino acids into the protein macromolecule is caused by the specific interaction of the former with certain sectors of the polynucleic chain of the ribonucleic acid. There are 1 figure, 4 tables, and 19 references, 8 of which are Slavic.

PRESENTED: January 7, 1957, by V. A. Engel'gardt, Academecian

SUBMITTED: June 14, 1956

AVAILABLE: Library of Congress

Card 4/4

PAVLOVA, M.S.; PAVLOV, L.A.

Phenology of Anopheles maculipennis and the time for antimalarial measures in Kazakhstan. Trudy Inst. zool. AN Kazakh. SSR 19: 209-219 '63. (MIRA 16:9)
(Kazakhstan--Mosquitoes--Extermination)
(Kazakhstan--Malaria--Prevention)

PAVLOVA, M. S., TUSHNYAKOVA, M. K., POPOV, V. M., GROSHKOVA, I. S.

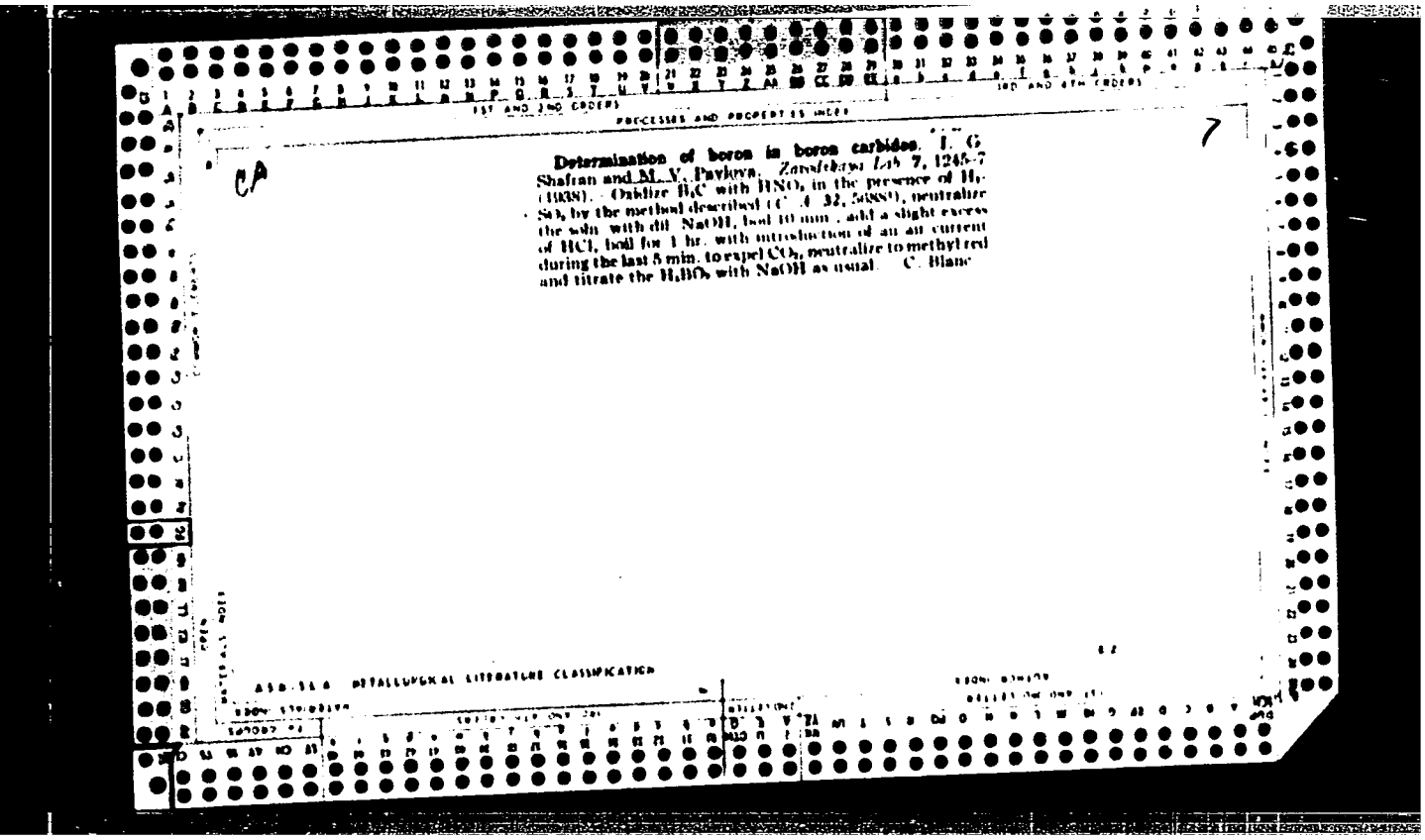
"A study of the spontaneous infection of the Dermacentor Marginatus ticks with the encephalitis virus in the foci of the Kustanai oblast, Kazakh SSR." Pare ??

Desyatoye soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

GROSHKOVA, I.M.; PAVLOVA, M.S.; POPOV, V.M. [deceased]; TYUSHNYAKOVA, M.K.

Data on the epidemiology of a tick-borne encephalitis focus in Kustanay Province. Vop.virus. 4 no.2:194-197 Mr-Ap '59. (MIRA 12:6)

1. Kazakhskaya respublikanskaya sanitarno-epidemiologicheskaya stantsiya, Alma-Ata, i Tomskiy institut vaktsin i syvorotok.
(ENCEPHALITIS, EPIDEMIC, epidemiol.
tick-borne, in Russia (Rus))

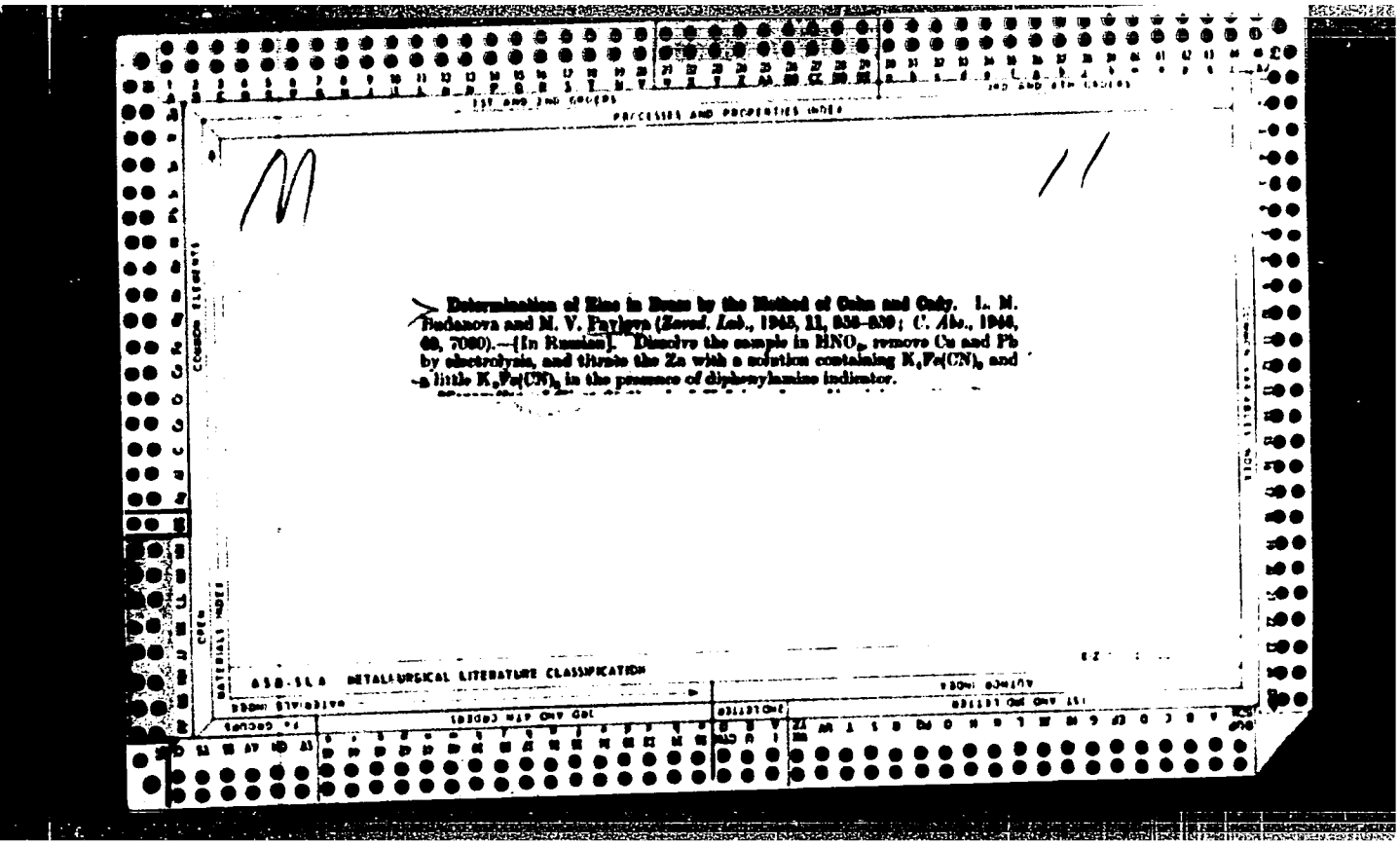


CA

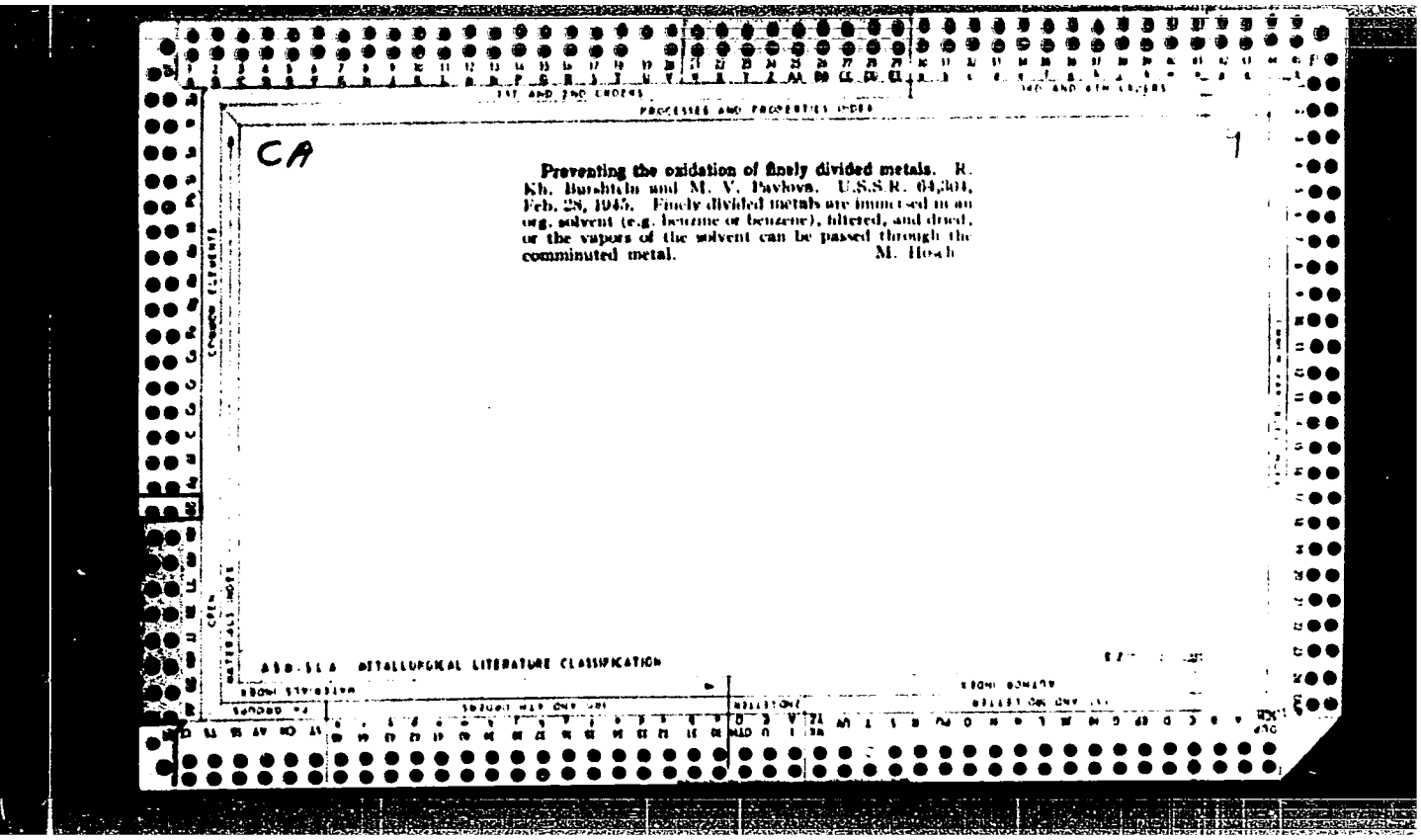
7

Determination of boron in boron carbides. I. G. Shafran and M. V. Pavlova. *Zavodskaya Lab.* 7, 1245-7 (1938). Oxidize B_4C with HNO_3 in the presence of H_2SO_4, by the method described (*C. A.* 32, 5088⁹), neutralize the soln. with dil. NaOH, heat 10 min., add a slight excess of HCl, boil for 1 hr. with introduction of an air current during the last 5 min. to expel CO_2, neutralize to methyl red and titrate the H_3BO_3 with NaOH as usual. C. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Determination of Zinc in Brass by the Method of Cuba and Cuby. L. M. Fedanova and M. V. Pavlova (*Zavod. Lab.*, 1945, 11, 838–839; *C. Abs.*, 1946, 40, 7080).—[In Russian]. Dissolve the sample in HNO_3, remove Cu and Pb by electrolysis, and titrate the Zn with a solution containing $K_4Fe(CN)_6$ and a little $K_3Fe(CN)_6$ in the presence of diphenylamine indicator.



CA

Preventing the oxidation of finely divided metals. R. Kh. Burshtein and M. V. Pavlova. U.S.S.R. 64,301, Feb. 28, 1945. Finely divided metals are immersed in an org. solvent (e.g. benzine or benzene), filtered, and dried, or the vapors of the solvent can be passed through the comminuted metal. M. Hoch

A50-51A METALLURGICAL LITERATURE CLASSIFICATION

PAVOLOVA, M. V.

Ya. B. Aron and M. V. Pavlova, Surface phenomena of water drops. Pp. 1251-5.

The angle of contact and deformation of water drops on paraffin was investigated as a function of the size of the drops, in connection with the mechanism of adherence of the drops to a solid surface and their rolling down a sloping surface.

All Union Inst. of Aviation Materials
Moscow,
Feb. 9, 1948.

SO: J. Phys. Chem. (USSR) 22, No. 10 (1948)

PAVLOVA, M. V.

"Corrosion of Metals by Iodine Hydrocarbon Solutions," Dok. AN, 69, No. 3, 1949. All-Union Sci. Res. Inst. Aviation Materials, -cl949-.

PAVLOVA, M.V.

PA 190T36

USSR/Chemisty - Corrosion Oct 51

"Corrosion of Copper and Lead by Hydrocarbon Solutions of Iodine," L. G. Gindin, M. V. Pavlova

"Zhur Prik Khim" XXIV, No 10, pp 1026-1032

Benzene and iso-octane solns of iodine corrode copper and lead, converting the former to CuJ, the latter to PbJ_2. Iso-octane solns of iodine are more corrosive than benzene solns to lead, while both are equally aggressive in regard to copper.

190T36

9

CA

Corrosion of iron by solutions of iodine in benzene. I. G. Gandin and M. V. Pavlova. *Zhur. Priklad. Khim.* **24**, 1151-5(1951).—Fe is corroded by a soln. of I in C_6H_6 and FeI_2 is formed. This is converted to Fe_3O_4 by O. The conversion of FeI_2 into Fe_3O_4 stimulates corrosion and accompanies liberation of I, therefore giving, to the latter, present in soln., the character of a continuously regenerated aggressive agent. Steizon

PAVLOVA, M.V.

Electrophoretic study of blood serum protein fractions in experimental silicoses. Trudy LSGMI 75:170-175 '63.

Materials to substantiate the maximal permissible concentration of quartz-containing dust to the limit of 2 in the air on industrial premises. Ibid.:163-169

Gas exchange in the inhalation of quartz dust. Ibid.:176-180
(MIRA 17:4)

1. Kafedra gigiyeny truda s klinikoy professional'nykh zabolevaniy (zav. kafedroy - prof. Ye.TS. Andreyeva-Galanina) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

PAVLOVA, M. V.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Biological Chemistry

Significance of the polymeric state of ribonucleic acid and its connection with protein in the process of phosphorylation. M. V. Pavlova. *Doklady Akad. Nauk S.S.S.R.* 92, 841-3 (1953).—Incubation of rabbit kidney ext. (in phosphate buffer) with malic acid substrate, with glucose as P acceptor, and NaF added for blocking the phosphorylation action, resulted in the following elucidation of the effect of ribonuclease. The enzyme sharply represses respiration and phosphorylation activity of the ext. unless the proteolytic enzymes are thoroughly removed by 5-min. boiling. The pure enzyme does not affect the rate of phosphorylation or respiration. By means of P^{32}-labeled phosphate tracing it was shown that not all ribonucleic acid of the ext. is susceptible to the enzymic depolymerization, probably because of its link with the protein matter which hinders the action of the depolymerizing enzyme. Oxidative phosphorylation attacks only the part which is less firmly bound to the protein.

G. M. Kosolapoff

GURVICH, V.F.; PAVLOVA, M.V.

Hydrobiology of Orto-Tokoy Reservoir. Trudy probl. i tem. soveshch. no.2:48-55 '54. (MIRA 8:5)
(Orto-Tokoy Reservoir--Fresh-water biology)

Pavlova, M. V.

USSR/Safety Engineering. Sanitary Engineering. Sanitation. L

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10718

Author : Pavlova, M. V.
Inst : Leningrad Medical Institute for Health and Sanitation
Title : The Retention of Quartzitic Dust Particles in the Respiratory Tract During Certain Production Processes

Orig Pub: Tr. Leningr. san.-gigien. med. in-ta, 1955, Vol 21, 27-50

Abstract: No abstract.

Card 1/1

PAVLOVA, M.V.

Feeding and food relationships of fishes in Katta-Kurgan Reservoir and utilization of its feed supply by them. Izv. AN Kir.SSR Ser.biol.nauk 1 no.4:137-145 '59.
(MIRA 13:7)
(Katta-Kurgan Reservoir--Fishes--Food)

PAVLOVA, M.V.

Materials on the feeding and growth rate of Chalcalburnus chalcoides aralensis Berg in Katta-Kurgan Reservoir. Izv. AN Kir.SSR Ser.biol.nauk 1 no.4:153-159 '59.
(MIRA 13:7)
(Katta-Kurgan Reservoir--Carp)

PAVLOVA, M. V., Cand Biol Sci - (diss) "Feeding and rate of growth of the main commercial fish of the Katta-Kurganskiy Reservoir." Frunze, 1960. 18 pp; (Kirgizskiy State Univ); 150 copies; price not given; (KL, 19-60, 132)

GONCHAROV, A.I.; PAVLOVA, M.V.

Possibilities for the formation of the fish fauna in Lake Son-Kul'. Izv. AN Kir. SSR. Ser. biol. nauk 3 no.1:129-138 '61. (MIRA 14:12)
(SON-KUL'—FISHES) (ANIMAL INTRODUCTION)

DIL'MAN, V.M.; PAVLOVA, M.V.

Excretion of gonadotropins, estrogens and 17-ketosteroids in some precancerous and cancerous diseases; breast cancer; dysfunctional uterine hemorrhage. Vop. onk. 9 no.11:74-82 '63. (MIRA 18:2)

1. Iz laboratorii eksperimental'noy onkologii (zav.- zasluzhennyy deyatel' nauki prof. N.V. Lazarev) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR, prof. A.I. Serebrov).

PAVLOVA, M.V.

X-ray diagnosis of intracranial calcifications in toxoplasmosis.
Vest. rent. i rad. 39 no.4:46-48 Jl-Ag '64. (MIRA 18:7)

1. Luganskaya oblastnaya klinicheskaya bol'nitsa.

GORELOV, B.N., m.n.s. nauchn. sotr.; [illegible], K.I., m.l. nauchn. sotr.; SHUBTIN, V.I., spets. red.; CHERNIK, N.A., red.

[Packing of frozen fish products] Upakovka morozhenoi ryonoi produktsii; sbornik materialov. Kaluga, 1962. 23 p. (MIRA 17:10)

1. Kaluga. TSentral'nyy nauchno-issledovatel'skiy institut tary i upakovki.

PAVLOVA, M.V.; SILKINA, V.G.

X-ray diagnosis of changes in the bones in acute leukemias.
Vestn. rent. i rad. 38 no.3:72-74 My-Je '63. (MIRA 17:7)

1. Iz Luganskogo meditsinskogo instituta i Luganskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach UkrSSR I.O. Vashchenko).

PAVLOVA, Mariya Vladimirovna; GURVICH, V.F., otv. red.; PIVNEV, I.A., red.

[Zoobenthos in the gulfs of Lake Issykkul' and its use by fishes] Zoobentos zalivov ozera Issyk-Kul' i ego ispol'zovanie rybami. Frunze, Izd-vo "Ilim," 1964. 84 p. (MIRA 17:11)

PAVLOVA, Mariya Vasil'yevna, brigadir; ZAGORSKIY, G., red.; POKHLEBKINA, M., tekhn. red.

[Five hundred and sixteen centners of sugar beets per hectare] 516 tsentnerov sakharnoi svekly s gektara. Moskva, Mosk. rabochii, 1961. 15 p. (MIRA 15:8)

1.Sovkhoz "Zaokskiy" Serpukhovskogo rayona Moskovskoy oblasti (for Pavlova).

(Sugar beets)

MERMEL'SHTEYN, R.M.; PAVLOVA, M.Yu.

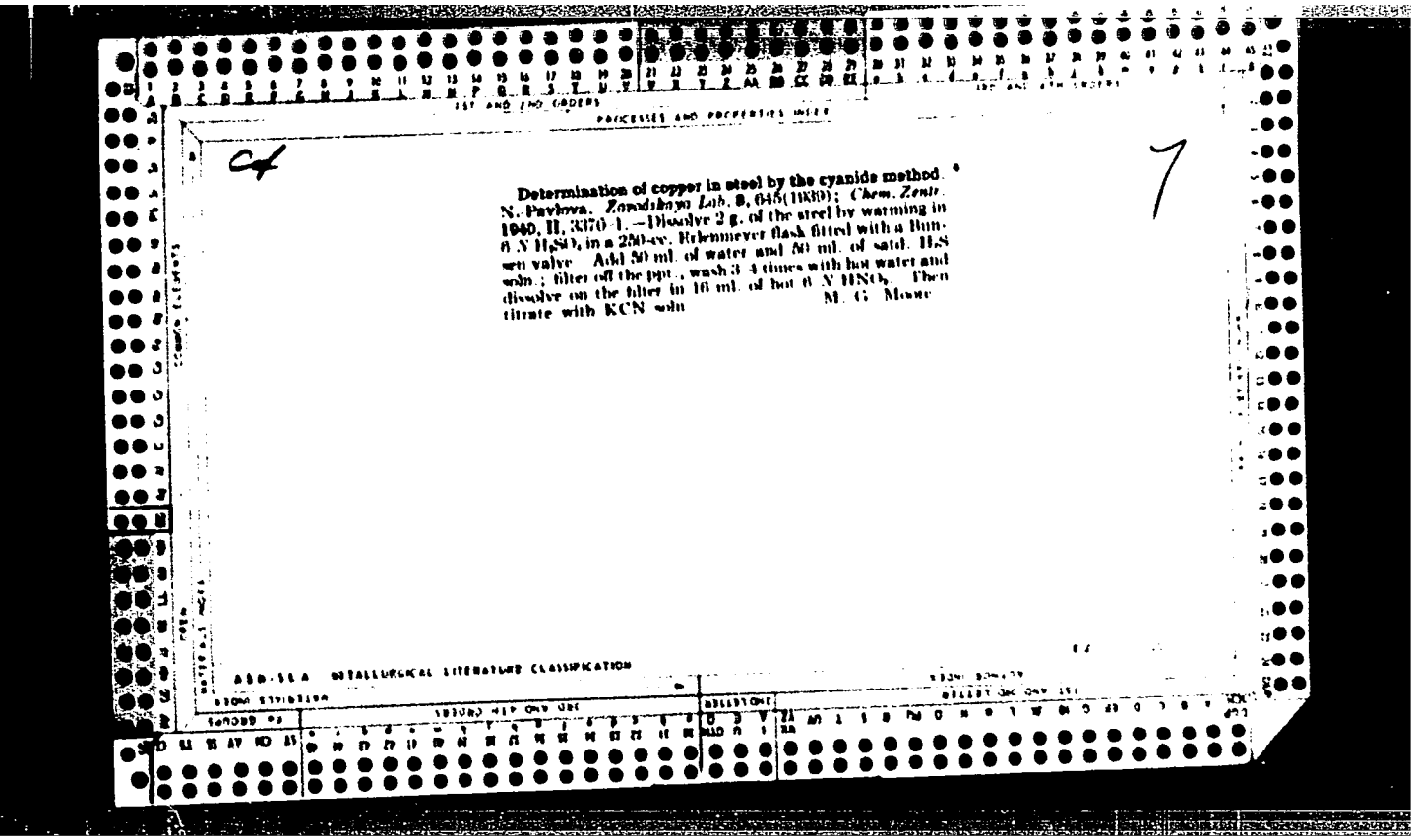
Problem of precocious physical and sexual development in girls. Vop.okh.mat. i det. 8 no.2:90 F'63. (MIRA 16:7)

1. Iz Zhitomirskogo oblastnogo kabineta gigiyeny i fizicheskogo razvitiya devochek pri 2-y Zhitomirskoy Gorodskoy bol'nitse.
(NO SUBJECT HEADINGS)

GAYDAMAK, S., student; SMIRNYAKOVA, G., studentka; KUZ'MINA, E., studentka; LIPOVA, R., studentka; FOMINA, T., studentka; PAVLOVA, N., studentka; KALINOVA, M., studentka; SHCHELKO, A., student; SHCHERBAKOVA, L., studentka; GUDOCHKINA, L.M.

Effect of salinity on the results of determining the specific weight of soils. Sbor. nauch. trud. kaz GMI no.19:197-198 '60. (MIRA 15:3)

(Soils--Analysis)



Determination of copper in steel by the cyanide method. N. Pavlova. *Zavodskaya Lab.* 9, 645(1940); *Chem. Zentr.* 1940, II, 3370-1.—Dissolve 2 g. of the steel by warming in 6 *N* H_2SO_4 in a 250-cc. Erlenmeyer flask fitted with a Bunsen valve. Add 50 ml. of water and 50 ml. of satd. H_2S soln.; filter off the ppt., wash 3-4 times with hot water and dissolve on the filter in 10 ml. of hot 6 *N* HNO_3. Then titrate with KCN soln. M. G. Moore

MUKHAMEDZHANOV, M., student; TURULINA, T., studentka; PAVLOVA, N., studentka; PARSHAKOVA, V., studentka; SUTBAYEV, S., student; SIDOROV, V., student; ANDRUSEVICH, V., student; BAYMENOV, A., student; ABRAMOVICH, B., student; MALINOVSKAYA, Ye., studentka; GUDOCHKINA, L.M., assistent

Mineralogical characterisitcs of loess of Alma-Ata Province. Sbor. nauch. trud. Kaz GMI no.19:159-163 '60. (MIRA 15:3)
(Alma-Ata Province--Loess)

PAVLOVA, N.

Blue lakes. IUn.nat. no.7:16-17 Jl '62. (MIRA 15:8)

1. Staro-Vichuzhskaya shkola, Ivanovskaya oblast'.
(Ivanovo Province--Peat bogs)

PAVLOVA, M.

"Evening Conferences of Rationalizers, a New Form for Popularizing Rationalizers' Activities", p. 7, (RATSIONALIZATSIIA, Vol. 4, No. 1, Jan. 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No.1, Jan. 1955, Uncl.

BELAN, G.A.; MESHCHADIM, A.G.; PAVLOVA, N.A.; GIL'DSHTEYN, N.N.

Processing of sunflower seeds by individual suppliers. Masl.-zhir. prom. 25 no.1:22-24 '59. (MIRA 12:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Belan, Meshchadim, Pavlova). 2. Soyuzglavpishcheprodsyr'ye (for Gil'dshteyn)

(Sunflower seed)

SHVEDOV, V.P.; PAVLOVA, N.A.

Coprecipitation of zirconium with cerium oxalate in nitric acid media. Trudy kom.anal.khim. 9:144-147 '58. (MIRA 11:11)
(Zirconium) (Cerium oxalate) (Precipitation)

SHVEDOV, V.P.; PAVLOVA, N.A.

Use of paper electrophoresis for determining the charge sign of zirconium ions in certain solutions. Radiokhimiia 1 no.4:400-401 '59. (MIRA 13:1)
(Paper electrophoresis) (Zirconium)

SHVEDOV, V.P.; MAKAROVA, T.P.; IVANOVA, L.M.; PAVLOVA, N.A.

Determination of radioactive strontium in water samples.
Radiokhimiia 1 no.5:616-618 '59. (MIRA 13:2)
(Strontium--Analysis) (Water--Analysis)

27688
S/076/61/035/009/013/015
B124/B101

5 1310

AUTHORS: Usachev, D. N., and Pavlova, N. A.

TITLE: Mechanism of electrolytic deposition of alloys of chromium with other metals

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 9, 1961, 2142-2143

TEXT: According to D. N. Usachev and A. T. Vagramyan (Ref.2: Zh.fiz. khimii 32, 1900, 1958), the reduction of chromate ions to metallic chromium is effected by products originating from a special cathode film containing anionic reducing agents, and not by ions present in the solution. A condition indispensable for the simultaneous deposition of chromium and other metals is the presence of an anionic coprecipitated substance in the chromic-acid electrolyte, which was experimentally proved by the deposition of Cr-Mn and Cr-Se alloys effected by introducing MnO_4^- and SeO_4^{2-} ions. The anions $[AuCl_4]^-$ and $[Fe(CN)_6]^{3-}$ were not reduced electrolytically under the conditions given. It follows that the simultaneous presence of various anions is not a sufficient condition for their simultaneous reduction with

Card 1/4

27600
S/076/61/035/009/013/015
B124/B101

Mechanism of electrolytic...

chromate. The reduction of anions in chromic-acid solution takes place in two steps: 1) penetration of anions into the film, and 2) their reduction in the film. The penetration of anions into the cathode film is investigated by using anions which do not affect the electrolysis of chromic acid, are not subject to electrolytic decomposition, and are called neutral anions. These neutral anions may displace either chromate ions or chromate and foreign anions simultaneously, or only foreign anions on penetration into the cathode film. If neutral anions are capable of penetrating into the cathode film which forms during electrolysis of chromic acid in the presence of an amount of sulfuric acid corresponding to the maximum current yield of chromium, the current yield of metallic chromium will decrease; otherwise, it will be constant. Based on data given in Ref.3(E. Liebreich, Z. Elektrochem. 40, 73, 1934; E. Müller, Arch. Metallkunde 2, 110, 1948), the phosphate ion may be considered a neutral anion. The compounds $K_3[Fe(CN)_6]$, $H_7[P(MoO_4)_6]$, and $[AuCl_4]$ were studied under this aspect, and the dependence of the current density on the cathode potential in the presence and absence of sulfuric acid was investigated. The polarization curves were obtained on the chromium cathode using a potentiostatic method;

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the shape of the polarization curve does not change after the addition of the mentioned compounds in quantities of 0.2 to 0.4 equivalents per liter. The compounds investigated have no effect on the electrolytic reduction of chromic acid to trivalent chromium, and show no decomposition in the chromic-acid solution. As is shown by experiments performed at 20°C and a current density of 0.2 a/cm^2 (Fig.), the current yield of metallic chromium decreases with increasing concentration of neutral anions. Hence, it can be concluded that all anions investigated are capable of penetrating into the film together with the chromate and sulfate anions. The capability of ions of penetrating into the cathode film is determined by the negative sign of the ions, and is independent of their nature. There are 1 figure and 4 references: 3 Soviet and 2 non-Soviet.

ASSOCIATION: Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti (Moscow Technological Institute of Light Industry)

SUBMITTED: January 2, 1961

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PAVLOVA, N.A.

USSR/ Medicine - Biochemistry

Card 1/1 Pub. 22 - 28/49

Authors : Pavlova, N. A.

Title : Biosynthesis of glycocoll from glyoxalic and amino acids

Periodical : Dok. AN SSSR 100/5, 947-949, Feb 11, 1955

Abstract : Experiments were conducted to determine the type of amino acids which could serve as a source of the amino group in the synthesis of glycocoll from glyoxalic acid. It was found that glycocoll is formed during the reaction of glyoxalic acid with alanine, methionine, leucine, aspartic and glutamic acids, asparagine, glutamine, ornithine, arginine, histidine, tyrosine and phenylalanine. The fact that glycocoll is formed during the reamination of glyoxalic acid with many amino acids leads to the belief that this substance plays a direct role in the amino acid metabolism in animal organs. Seven references: 4 USA and 3 USSR (1945-1954). Table.

Institution : The First Medical Institute, Moscow

Presented by : Academician A. D. Speranskiy, July 20, 1954