

KONIKOV, L.A., red.; GERASIMOVA, Ye.S., tekhn.red.

[Methodology for determining norms for specific capital investments] Metodika opredeleniia normativov udel'nykh kapital'nykh vlozhenii. Moskva, Ekonomizdat, 1962. 72 p.  
(MIRA 15:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy nauchno-ekonomicheskii sovet.

(Capital investments)

GREBTSOV, G.I., kand. ekon. nauk, dots.; SMEKHOV, B.M., kand. ekon. nauk,  
dots.; SMOLYAR, L.I., starshiy prepodavatel'; GRANBERG, A.G.;  
GANBEGYAN, A., kand. ekon. nauk, red.; KONIKOV, L.A., red.;  
GERASIMOVA, Ye.S., tekhn. red.

[Principles of working out an interbranch balance] Osnovy raz-  
rabotki mezhotraslevogo balansa; uchebnoe posobie. [By] G.I. Greb-  
tsov i dr. Moskva, Ekonomizdat, 1962. 278 p. (MIRA 16:3)

1. Vychislitel'nyy tsentr Gosudarstvennogo nauchno-ekonomicheskogo  
soveta Soveta Ministrov SSSR (for Granberg).  
(Russia—Economic policy)  
(Programming (Electronic computers))

FREYMUNDT, Ye.N., dots.; KORENEVSKAYA, N.N., dots.; IL'CHENKO, S.P.;  
SAMOYLOVA, A.A., dots.; GUROV, G.M., dots.; IVANOV, Yu.M.;  
ZAYTSEVA, N.V., dots.; EYDEL'MAN, M.R., red.; KONIKOV, L.A.,  
red.; PONOMAREVA, A.A., tekhn. red.

[Balance of the gross national product of a Union Republic;  
problems in the theory and methodology of its preparation]  
Balans obshchestvennogo produkta soiuznoi respublikii; vop-  
rosy teorii i metodiki sostavleniia. Moskva, Ekonomizdat,  
1962. 326 p. (MIRA 16:4)

1. Moscow. Ekonomiko-statisticheskii institut.  
(Gross national product)

POMERANTSEV, Vladimir Vladimirovich, kand. tekhn.nauk; KONIKOV, L.A.,  
red.; GERASIMOVA, Ye.S., tekhn. red.

[Practical method of correlation analysis; using the examples  
of analyses of capital expenditures] Prakticheskaja metodika  
korreliatsionnogo analiza; na primerakh issledovani kapital'-  
nykh zatrat. Moskva, Ekonomizdat, 1963. 24 p. (MIRA 16:6)  
(Correlation (Statistics)) (Capital investments)

KONIKOV, L.A., red.; GERASIMOVA, Ye.S., tekhn. red.

[Problems in improving the planning and the supply of materials and equipment] Voprosy sovershenstvovaniia planirovaniia i material'no-tekhnicheskogo snabzheniia. Moskva, Ekonomisdat, 1963. 196 p. (MIRA 16:7)

(Russia--Economic policy)

(Industrial procurement)

BELKIN, Viktor Danilovich; KONIKOV, L.A., red.; MISHNAYEVSKAYA,  
G.V., mladshiy red.; GERASIMOVA, Ye.S., tekhn. red.

[Uniform prices and economic measurements based on them]  
TSeny edinogo urovnia i ekonomicheskije izmereniia na ikh  
osnove. Moskva, Izd-vo ekon. lit-ry, 1963. 345 p.

(MIRA 16:12)

1. Zaveduyushchiy ~~laboratoriyey~~ ekonomicheskikh issledovaniy  
Instituta elektronnykh upravlyayushchikh mashin (for Belkin).  
(Prices)

BIRMAN, I.Ya., red.; MINTS, L.Ye., red.; KONIKOV, L.A., red.;  
MISHNAYEVSKAYA, G.V., mlad. red.; PONOMAREVA, A.A.,  
tekhn. red.

[Mathematical methods and the problems of production  
distribution] Matematicheskie metody i problemy razme-  
shcheniia proizvodstva. Moskva, Ekonomizdat, 1963. 347 p.  
(MIRA 16:12)

(Industries, Location of)  
(Economics, Mathematical)

MITROFANOV, A.I., kand. ekon. nauk; TIKIDZHIYEV, R.N., kand. ekon. nauk; BEREGOVA, L.I.; SLABCHENKO, S.K.; SHAPIRO, Ye.A.; KORZUN, P.P., kand. ekon. nauk; KHAVKIN, S.N., kand. ekon. nauk; REZCHIKOV, A.I.; KONIKOV, L.A., red.; GERASIMOVA, Ye.S., tekhn. red.

[Determining specific capital investments in industry]  
Opredelenie udel'nykh kapital'nykh vlozhenii v promyshlennosti. Moskva, Ekonomizdat, 1963. 215 p.

(MIRA 17:1)

1. Tsentral'nyy nauchno-issledovatel'skiy ekonomicheskii institut.

(Capital investments)



SHCHELOKOV, N.A.; MAKHYENKO, B.M., doktor ekon. nauk; KONIKOV,  
L.A., red.

[Economy of the Moldavian S.S.R. and prospects for develop-  
ing it] Ekonomika Moldavskoi SSR i perspektivy ee razvitiia.  
Moskva, Ekonomika, 1964. 211 p. (MIRA 08:1)

KHAYKIN, Vladlen Pavlovich; NAYDENOV, Viktor Sergeevich; GALUZA, Stanislav Grigor'yevich; LIEBERMAN, Ye.G., doktor ekon. nauk, prof., red.; KONIKOV, L.A., red.; MISHINAYEVSKAYA, G.V., mlad. red.

[Correlation and statistical models in economic calculations]  
Korreliatsiia i statisticheskoe modelirovanie v ekonomicheskikh raschetakh. Moskva, Ekonomika, 1964. 215 p.  
(MIRA 17:9)

ACC NR: AP6021477

SOURCE CODE: UR/0413/66/000/011/0103/0104

INVENTOR; Autsgraf, F. Zh.; Vertushkin, B. A.; Golovin, V. V.; Kon'kov, Yu. A.; Fedoseyev, R. Yu.

ORG: None

TITLE: A pneumatic relay. Class 42, No. 182416

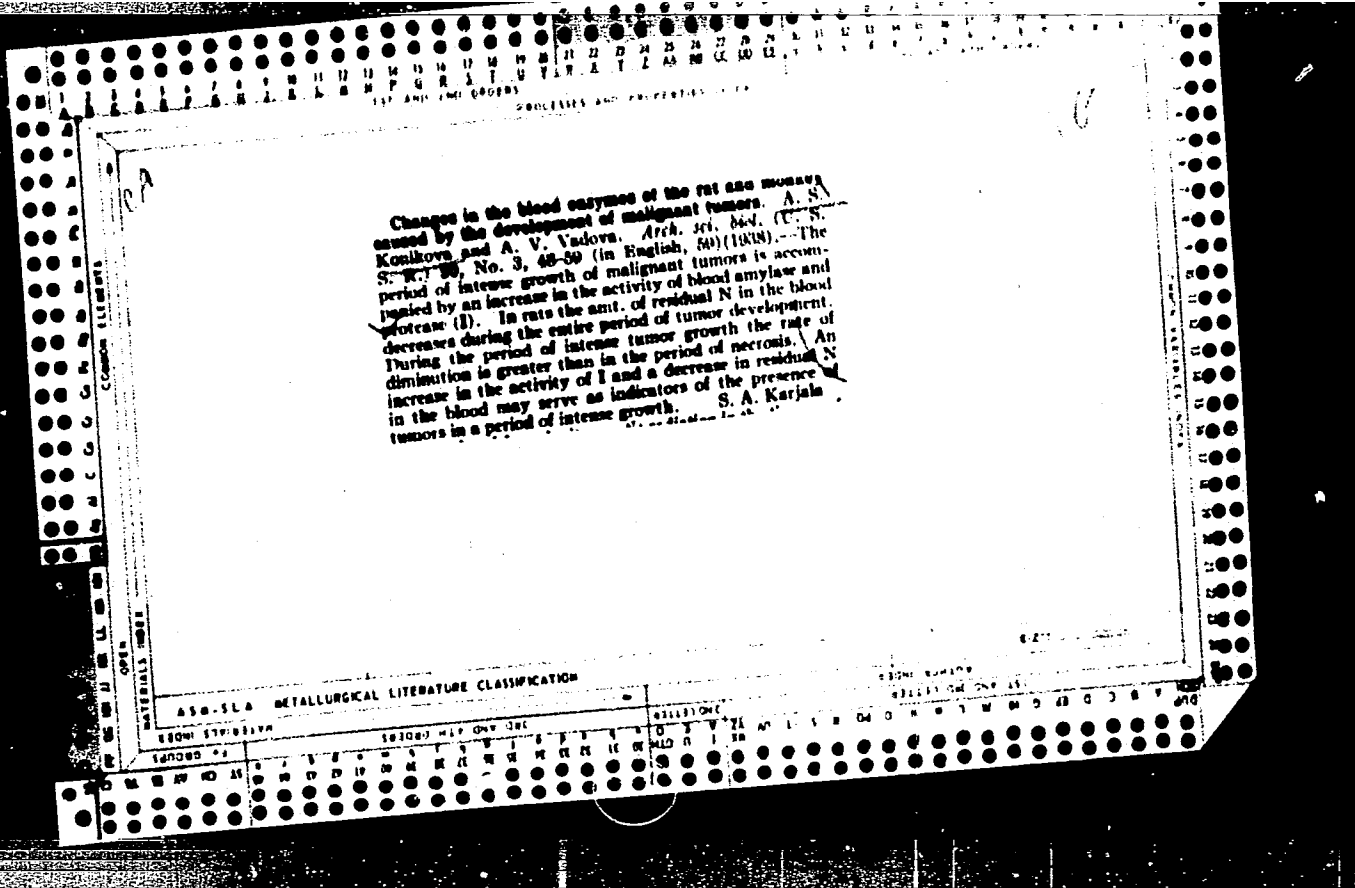
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 103-104

TOPIC TAGS: pneumatic device, nonelectric signal equipment

ABSTRACT: This Author's Certificate introduces a pneumatic relay which contains a housing made in the form of disc plates with channels, a diaphragm unit which forms a number of chambers, and nozzles mounted in the flow chambers. Short circuiting conditions are prevented by making the face plates on the rigid center of the diaphragm unit from an elastic material, e. g. rubber, and putting a greater distance between the planes of these face plates than between the edges of the nozzles.

Card 1/2

UDC: 681.142-525



PROCESSES AND PROPERTIES

116

Enzyme changes during the development of malignant tumors. A. V. Blagoveshchenskiĭ, A. S. Konikova and A. V. Vadova. *Arch. sci. biol. (U. S. S. R.)* 31, No. 3, 145-52 (in English, 152)(1938).--The temp. coeff. and activation energies of proteolysis and H<sub>2</sub>O<sub>2</sub> decompn. by catalase show an abrupt decrease at the onset of tumor development, followed by a steady increase until the death of the animal. S. A. Karjala.

ASB S LA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND CROSS

PROCESSES AND PROPERTIES INDEX

11G

ca

Proteolytic autolysis of normal and malignant tumor tissue. A. S. Koulikova. *Hull. bio. med. exp. U. R. S. S. 7, 302-3 (1968)* (in German).— The proteolytic autolysis of mixes. of rat and rabbit muscle tissues is higher than that of each taken separately. Sarcoma tissue alone gives a high value, indicating that it is fundamentally different from normal tissue. Mixts. of tissues of heterogeneous tumors show no increase in proteolytic autolysis. S. A. Karjala

433-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

1ST AND 2ND CROSS

COMMON ELEMENTS

MATERIALS INDEX

1ST AND 2ND CROSS

PROCESSES AND PROPERTIES INDEX

112

*60*

**Role of *d*-glutamic acid in the development of malignant tumors.** A. S. Kunikida. *Biochimica* 5, 316-20(1940); cf. C. A. 34, 335P. — Glutamic acid was prepd. from the proteins of normal and malignant tissues according to the latest method of Kogl (C. A. 34, 50P). Most of the investigated malignant tumors showed a complete absence of *d*-glutamic acid. In 3 malignant tumors, the rotatory power, 10% in glutamic acid isolated was +20.5, +27.0, +22.0, instead of +31.5, the rotatory power of pure *L*-glutamic acid. H. Priestley

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

E-2

COMMON ELEMENTS

COMMON CHARACTERISTICS INDEX

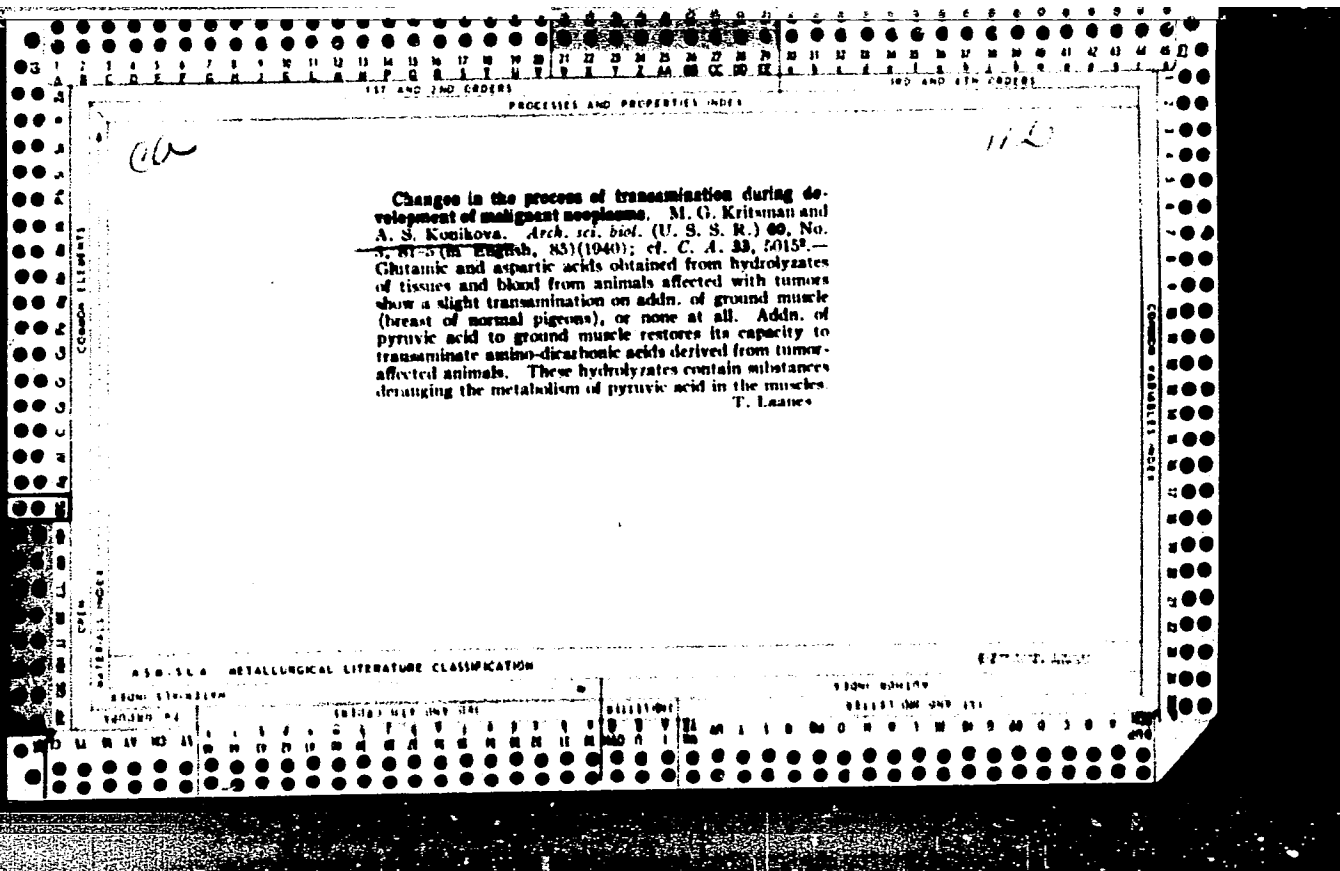
INTERNAL INDEX

EXTERNAL INDEX

GROUPS

LETTERS

NUMBERS





PROCESSES AND PROPERTIES INDEX

BC
AA

**Hydrolysis and Synthesis of Iodo, V. N. Goshwami, A. S. Ghosh, A. S. Ghosh, A. S. Ghosh, and N. A. Bhatia**

*Ann. N.Y. Acad. Sci.*, 1941, 34, 625-630. (Cotton, 1941, 34, 625-630.)

The authors describe the synthesis of the peptides (Iodo, V. N. Goshwami, A. S. Ghosh, and N. A. Bhatia) at pH 4-11 and the hydrolysis of cytosine at pH 7-9. Glycerol extracts indicate that hydrolysis occurs at pH 7-9. Glycerol extracts indicate that hydrolysis occurs at pH 7-9. Glycerol extracts indicate that hydrolysis occurs at pH 7-9. The results suggest the existence of "acid" and "alkaline" dependencies, the alkaline dependencies only being sol. in glycerol.

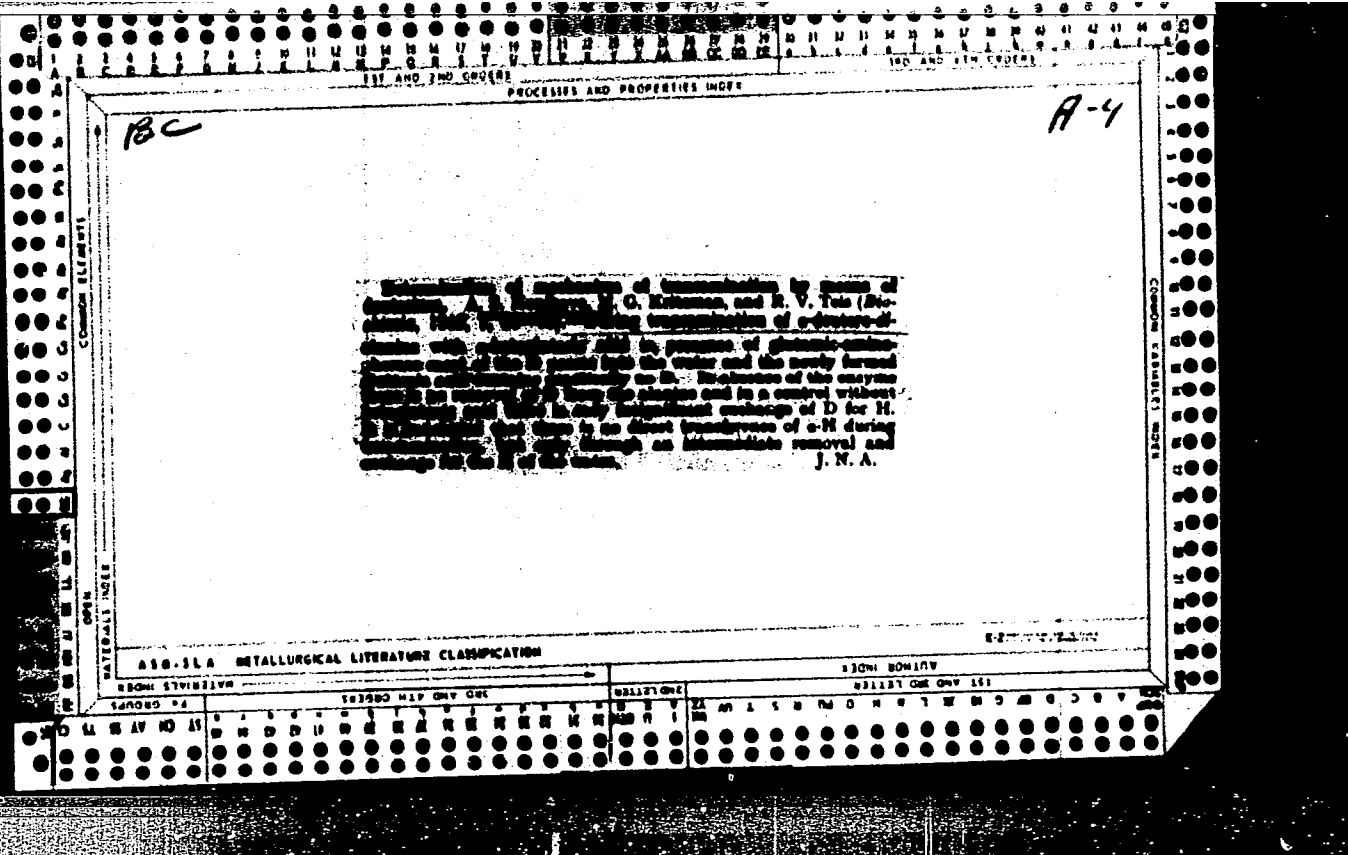
W. McC.

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

COMMON ELEMENTS

COMMON VARIABLES INDEX



KONIKOVA, A.S.

"The Use of Heavy Isotopes of Hydrogen and Nitrogen in Biochemistry" (p.27) by  
A.S. Konikova (Moscow) and M.G. Kraitsman

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XV, 1942, No. 1

**CA KONIKOVA, A. S.**

*HC*

**Chemical properties of gramicidin-forming bacteria.**  
 A. S. Konikova, R. M. Azakh, E. I. Blumikova, and N. N. Tshbert. *Microbiology U.S.S.R.* 13, 171-01m (English, 1974) (1974). --To work out methods for culturing for max. yield of the active substance, strain 12, isolated from soil by R. V. Pradkin (Tomsk) and strain 16 of Z. V. Ermolova and 1 American strain 110 (Dulco) were studied. The Russian strains had the same properties as strain 110, described by Dulco (cf. *C.A.* 83, 6827). Their bacteriostatic activity was tested by Sechenov and Woodward's method (cf. *C.A.* 36, 23619). Tyrothricin (I) was cultured more readily and the liquid clears rapidly when HCl is added to the warm culture. For pptn. of the alc. ext. of the first ppt. with 10 vols. of 1% NaCl soln., it is better to add the alc. soln. drop-by-drop to the salt soln. while stirring. This prevents the formation of a stable emulsion, occurring when the salt soln. is added to the alc. soln. The yield of I showed a variation of 70-350 mg. per l. of culture in all 3 strains. Expts. to det. the causes of this variation led to the following conclusions: The compn. of the nutrient medium affects the yield of I. (A broth, dild. 1:2, and contg. 1% peptone and 33 mg./l. of leucine, serine, and alanine, provides optimal conditions.) Trypsin destroys the stable bond between I and the protein; this increases the yield of I extd. by alc. The N fractions of the culture change as follows: in the 1st 24 hrs. amino N decreases and NH<sub>4</sub> increases a little, on the 2nd day

No 4

**Lab of Chemistry of Protein Metabolism,  
Dept of Biochemistry of Microbes, Inst  
of Exptl Med, Moscow**

the NH<sub>4</sub> content increases sharply. Then, up to the 6th day, during the period of accumulation of I, there are no changes in the distribution of N. The decline in activity and yield, beginning on the 7th day, coincides with the secondary rise in NH<sub>4</sub> and the decrease in amino acid N, and in the bacterial and protein N, while the residual N content increases. F. L. Lagan's

ADD-35A METALLURGICAL LITERATURE CLASSIFICATION

PROCESSING AND PROPERTIES INDEX

*2A* *11C*

Oxidation of amino acids in suspensions of *Bacillus brevis*. A. S. Konikova, P. M. Amrah, and N. N. Dolbert. *Mikrobiologiya* 10, 82-8 (1966).—Oxidative deamination by *B. brevis* is most readily obtained with the following amino acids: *l*- and *d*-glutamic acid, *l*- and *d*-aspartic acid, *l*- and *d*-alanine, *d*-serine, and *l*-arginine. The following amino acids are not attacked: *d*-valine, *l*- and *d*-leucine, *l*- and *d*-isoleucine, *l*-tryptophan, *l*-tyrosine, *d*-phenylalanine, and *d*-3,4-dihydroxyphenylalanine. *d*- and *l*-Alanine are metabolized with equal ease. *d*-Glutamic and *d*-aspartic acids are not as readily metabolized as the *l*-isomers. No correlation exists between the intensity of oxidative deamination and their anaerobic dehydrogenation. H. Priestley

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

CA

11C

PROCESSES AND PROPERTIES (cont.)

**Bacteriostatic substances of animal origin.** A. Kuzibaka, A. P. Urazova, and R. M. Azarova. *Abstracts of the 1st All-Union Conference on the Chemistry of the USSR, 1957*. *Dokl. Akad. Nauk S.S.S.R.*, 47, 250-251 (1957). From the data, it appears that bacteriostatic substances occur in some organs endowed with a barrier function, such as the liver or the placenta. These substances can be isolated by a procedure similar to that used for extg. tyrothricin from soil bacteria. This bacteriostatic effect is accompanied by the inhibition of *glucose dehydrogenase* and of *pyruvate dehydrogenase* of the susceptible bacteria. The purification and identification of the active principle are in progress. The species of bacteria used were *Staphylococcus aureus*, *Streptococcus hemolyticus*, *Bacillus brevis*, and *Escherichia coli*.

Leonard Katz

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

GROUPS

ALPHABETIC INDEX

NUMERICAL INDEX

~~KONIKOVA, A. S.~~ KONIKOVA, A. S

"Amino-Acid Metabolism of Bacteria," Uspekhi sovrem. biokhimii (Advances in Modern Biochemistry), 1, 1947, 99-141

1ST AND 2ND ORDERS      3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

CA KOHIKOVA, A. S.      **Lab Nitrogen Metabolism, Inst Biol and Med Chem,  
Acad Med Sci USSR**      112

Utilization of various sources of nitrogen and carbon by the spore-forming *Bacillus brevis*. A. S. Koukova and N. N. Dolbert (Acad. Med. Sci., Moscow). *Biochimya* 12, No 1, 79-87 (1947). —*B. brevis* can utilize the N of ammonium salts for the formation of bacterial proteins; but the formation of amino acids from ammonium salts and pyruvic acid could not be detected. Growth does not occur when the pyruvic acid is replaced by succinic or acetic acids. Ammonium salts are utilized even with these substrates, provided glucose is added to the medium. Glucose alone cannot serve as the only source of C for the growth of *B. brevis* in a medium contg. ammonium salts. H. P.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUPS OF      INDEXED BY      SUBJECTS      INDEXED BY

15      16      17      18      19      20      21      22      23      24      25      26      27      28      29      30      31      32      33      34      35      36      37      38      39      40      41      42      43      44      45      46      47      48      49      50



11-A

**CA**

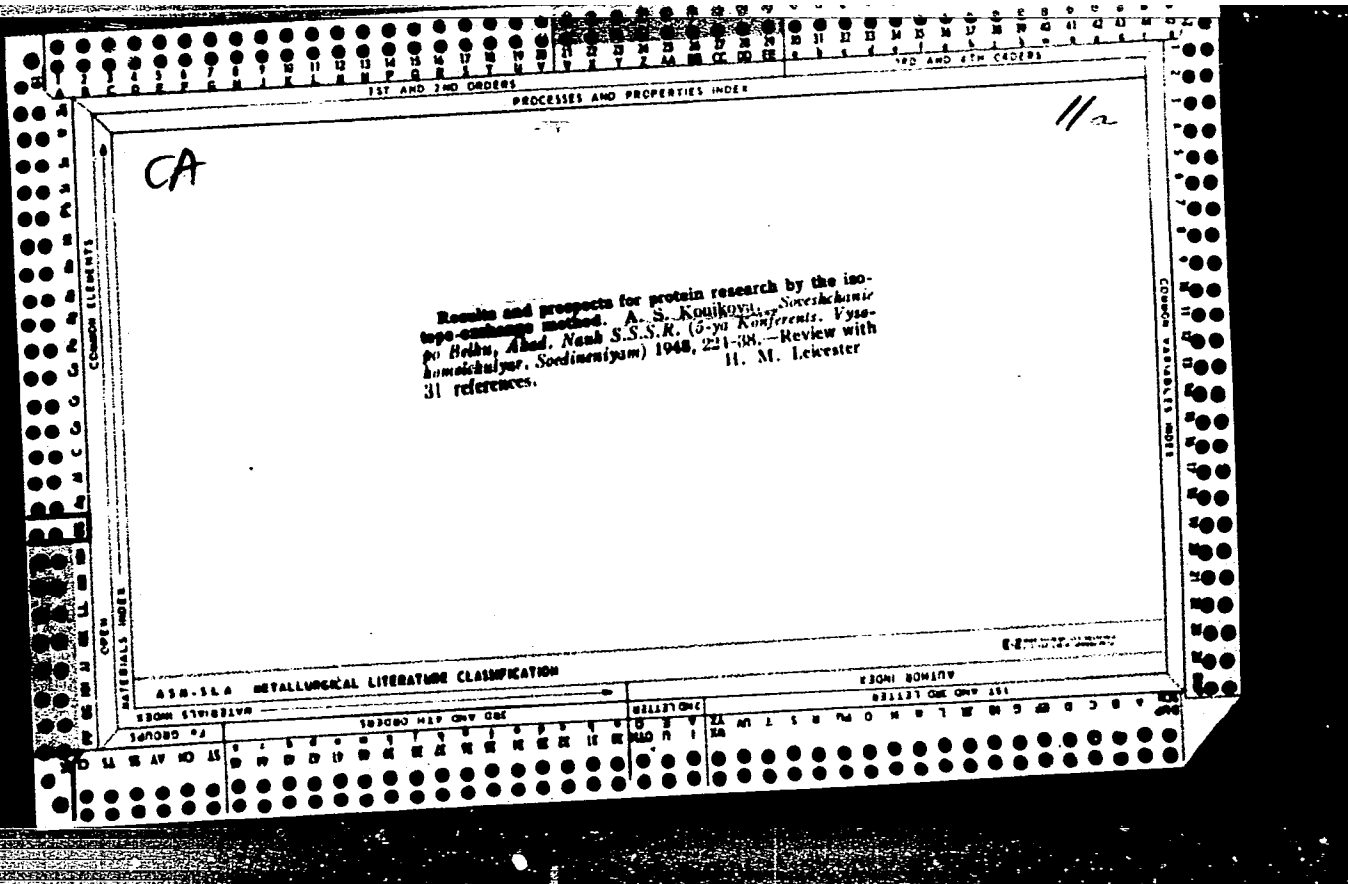
PROCESSES AND PROPERTIES INDEX

**Labilization of  $\alpha$ -hydrogen of amino acids by amino-  
phorase. A. S. Kamison, N. N. Dobbert, and A. E.  
Braunshstein (Acad. Med. Sci., Moscow), *Biokhimiya*  
12, 850-88(1947); cf. C.A. 37, 4111; 41, 2152i, 2456d.--  
The degree of labilization was detd. by measuring the amt.  
of heavy water evolved from the amino acids having deu-  
terium in the  $\alpha$ -position, when treated with a highly puri-  
fied and specific glutamic-alanine aminopherase. As is  
known, peramination occurs only when one of the reaction  
components is a dicarboxylic  $\alpha$ -amino or  $\alpha$ -ketonic acid.  
However, in expts. with  $\alpha$ -deuterioglutaric acid, the  
labilization of H in the presence of aminopherase takes  
place even in the absence of a second substrate. The  
aminopherase labilizes the  $\alpha$ -H of amino acids under con-  
ditions where the peramination reaction cannot be ac-  
complished. The labilizing activity of glutamic amino-  
phorase is maintained after a soln. is heated for 15 min.  
whereas its peramination activity is completely destroyed  
by heating for a short period at a 85-90°. The labiliza-  
tion of the  $\alpha$ -H is a thermostable function of this enzyme.  
In the presence of phosphorylated pyridoxal alone, labil-  
ization of the  $\alpha$ -H does not take place. H. P.**

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

GROUPS: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

INDEXING: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100



KONIKOVA, A. S.

PA 64T28

USSR/Chemistry - Synthesis  
Chemistry - Amino Compounds

Jan/Feb 1948

"The Formation of Amino Nitrogen From Ammonium and Alpha-Keto Acids in Suspensions of B. Subtilis," A. S. Konikova, M. G. Kritsman, L. M. Yakobson, Lab of Chem of Nitrogen Replacement, Inst of Biol and Med Chem, Acad Med Sci USSR, Moscow, 2½ pp

"Biokhiz" Vol XIII, No 1

Results of studies conducted to determine the effects of aminization of suspensions of B. subtilis with pyroracemic acid, alpha-ketoglutaric acid, and phenyl-pyroracemic acid. Submitted 13 May 1947.

64T28

KONIKOVA, A. S.

PA 3/49T72

USSR/Medicine - Bacteria, Culture Mar/Apr 48  
Medicine - Chemistry

"Utilization of Amino Acids of L and D Configuration  
in Cultures of B. Brevis," A. S. Konikova, N. N.  
Dobbert, Chem of Nitrogenous Exchange Lab, Biol and  
Med Chem Inst, Acad Med Sci USSR, 9 pp

"Biokhimiya" Vol XIII, No 2

Describes experiments. Lists various l-amino acids  
which may be used by B. brevis as sole source  
of nitrogen and carbon. Addition of glucose  
accelerates growth. Lists various d-amino acids  
in which B. brevis do not grow. Addition of glucose  
enables these acids to serve as nitrogen-feeding  
3/49T72

USSR/Medicine - Bacteria, Culture (Contd) Mar/Apr 48  
substrates; d-amino acids enter into composition of  
B. brevis albumen. Submitted 25 May 47.

3/49T72

KONIKOVA, A. S.

PA 12/49T75

USSR/Medicine - Bacteria  
Medicine - Microorganisms

May/Jun 48

"Review of A. M. Kuzain's Book, 'Chemistry and Biochemistry of Pathogenic Microbes,' " A. S. Konikova and L. M. Jakobson, 2½ pp

"Biokhimiya" Vol XIII, No 3

Chapter-by-chapter review. Gives book a lukewarm reception. Some chapters are useful, others need rewriting. Published by Medgiz, Moscow, 1946, 276 pp, 10,000 copies.

12/49T75

KONIKOVA, A. S.

USSR/Medicine - Enzymes  
Medicine - Bacteria, Subtilis

Jul/Aug 48

"Formation of Amino Nitrogen from Ammonia and Alpha-Keto Acids With the Aid of B. Subtilis Ferments," M. G. Kritsman, L. M. Yakobson, and A. S. Konikova, Inst of Biol and Med Chem, Acad Med Sci USSR, Moscow, 4 $\frac{1}{2}$  pp

"Biokhimiya" Vol XIII, No 4

The ferment preparations (I) of the vegetative form of B. subtilis and phosphate extracts from an acetone preparation of these bacteria form  $\text{NH}_2\text{-N}$  from ammonia and pyrroacemic acid. In the presence of ammonia, I can also form  $\text{NH}_2\text{-N}$  from  $\alpha$ -ketoglutaric acid. Spore suspension and spores treated with acetone cannot do this. Submitted 16 Dec 47.

PA 12/49T80

CA

11-A

**Mechanism of transformation of malic acid by malic dehydrogenase.** S. Ya. Davydova and A. S. Konikova, *Doklady Akad. Nauk S.S.S.R.* 60, 251-3 (1948). Exptl. systems were used of malic acid, malic dehydrogenase (from pig heart, Straub, C.A. 37, 2749), cozymase, KCN, and water contg. 20% heavy water (which gave a measure of labilization of  $\alpha$ -hydrogen of malic acid). KCN was used to repress the hindering effect of oxalacetic acid. The Warburg technique was used with 1.5-hr. incubation at 38° and oxidation of malic acid was followed by O uptake. Labilization of  $\alpha$ -H and exchange with D<sub>2</sub>O occurs in the presence of malic dehydrogenase without the necessary presence of cozymase (about 10% exchange occurs in a system contg. 1500 micromoles malic acid, 3 mg. cozymase, 10 mg. KCN, in 2.5 ml. vol.). Only 8 micromoles of malic acid were oxidized (owing to lack of H acceptor) and, since all resulting oxalacetic acid was bound by KCN, all observed D uptake is due to malic acid hydrogen labilization by the enzyme.

G. M. Kosolapoff

ASM-31A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND CROSS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH CROSS

CA

Synthesis of amino acids from ammonia and keto acids by various bacteria. L. M. Yakobson, A. S. Konikova, M. G. Kritsman, and S. S. Melik-Sarkisyan. *Bio-khimiya* 14, 14-19(1949); cf. *C.A.* 42, 8874f. Amino acids are synthesized from keto acids and NH<sub>3</sub> among saprophytes (which can grow on synthetic media with NH<sub>3</sub> as the only source of N), and also among facultative saprophytes and pathogenic microbes (which employ for their growth prep. amino acids). Of the pathogens, the Asiatic cholera vibrio causes the most intense synthesis of amino acids from NH<sub>3</sub> and pyruvic, phenylpyruvic, malic, and ketoglutaric acids. The ability to synthesize aminomalic acid is a unique property of the Asiatic cholera vibrio (Blas and Macheboeni, *C.A.* 40, 1857\*). The enzyme systems of amino acid synthesis from pyruvic and α-ketoglutaric acids are stable in the presence of acetone. A marked loss in activity is observed when acetone is used in the enzyme systems of amino acid synthesis from phenylpyruvic and malic acids. Both glucose and coenzyme must be present for the formation of amino acids from pyruvic and α-ketoglutaric acids. Coenzyme is not needed for the synthesis of phenylalanine from phenylpyruvic acid and NH<sub>3</sub>. Amino acid is synthesized from malic acid and NH<sub>3</sub> without addn. of coenzyme or glucose. The optimum pH of the enzyme systems catalyzing the synthesis of amino acids from pyruvic and phenylpyruvic acids is 8.3 for all types of bacteria. The enzyme system catalyzing the synthesis of glutamic acid from α-ketoglutaric acid has an optimum pH of 7.5.

11/2

ASD-514 METALLURGICAL LITERATURE CLASSIFICATION

H. Priestley

1ST AND 2ND CROSS

3RD AND 4TH CROSS



BA  
A-III

25

**Synthesis of individual amino-acids from ammonia and keto-acids by various bacteria.** A. S. Kondova, M. G. Kritisman, I. M. Yablum, and D. I. Kaskin-Tsvetkova, 1960, *Id.* 223-270. -- Paper chromatography was used for identification of amino acids formed in bacterial cultures. Addition of pyruvic acid and  $\text{NH}_4$  to suspensions of *H. coli* results in formation of alanine, aspartic acid, and glutamic acid. Acetone prep. of *H. brevis*, which cannot synthesize aspartic acid, can synthesize alanine and glutamic acid from pyruvic acid and  $\text{NH}_4$ . Dialysed prep. can synthesize alanine only. *H. coli* and *H. brevis* in presence of  $\alpha$ -ketoglutaric acid and  $\text{NH}_4$  can synthesize glutamic acid. Addition of phenylpyruvic acid and  $\text{NH}_4$  results in formation of phenylalanine. Similar reactions are also carried out by *Vibrio cholerae*. Similar *V. cholerae* can synthesize aspartic acid from malic acid and  $\alpha$ -amino- $\alpha$ -dicarboxylic acid from  $\alpha$ -ketodipic acid. D. H. SWYR.

KONIKOVA, A. S.

PA 39/49T65

USSR/Medicine - Liver  
Medicine - Amino Acids

Mar 49

"Research with C13 on Restoring Dicarboxylic  
Amino Acids in the Liver," A. S. Konikova, V. N.  
Orekhovich, M. G. Kritsman, S. Ya. Davydova, A.  
B. Kholiev, M. G. Kuhnvalde, B. V. Ottesen, M. L.  
Kosshikov, I. L. Gol'din, Inst Biol and Med  
Chem, Acad Med Sci USSR, 3 pp

"Dokl Ak Nauk SSSR" Vol IXV, No 3

Using C13, investigated the restoration of aminedicarboxylic acids of proteins in a normal and regenerated liver, and in sections of the liver adjoining the regenerate and removed from it. Concludes that protein exchange in regenerated tissue is characterized neither by an increased, in comparison with exchange in normal tissue, formation speed of dicarboxylic amino acids, nor by a more intensive inclusion of them in the proteins. Submitted by Acad A. I. Oprin, 26 Jan 49.

39/49T65

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND DEGREE

140 AND 4TH DEGREE

ca

11F

Renewal of aminocarboxylic acids in the blood by heavy carbon<sup>14</sup>. A. S. Kuulkova, M. G. Keitsman, V. N. Orekhovich, S. Ya. Davydova, B. V. Ohtsen, M. I. Men'shikov, L. L. Goldin, and G. M. Kukavtze. *Doklady Akad. Nauk S.S.S.R.* 66, 809-810(1949). Fresh blood of rats and pigeons (heparinized) was incubated with NaHCO<sub>3</sub> (enriched with C<sup>14</sup>), in the presence of alanine, pyruvic acid, ketoglutaric acid, fumaric acid, and NH<sub>4</sub>Cl at pH 7.6 for 24 hrs. at 37-8° in Oatm. The aminocarboxylic acid (II) fraction was then analyzed for C<sup>14</sup> content (after hydrolysis of the protein ppt. by 6 N HCl). The free I content showed 0.07-0.04 atom % excess of C<sup>14</sup> (over control) in rat and 0.03-0.01 in pigeon blood; the fraction obtained from protein hydrolysis was essentially identical with control (probably because of high degree of "dilution" of heavy C, thus escaping detection). The blood metabolic cycle is therefore: fixation of CO<sub>2</sub>, transformation of keto acids through tricarboxylic acid cycle, amination of keto acids, and protein synthesis.

G. M. Kosolapoff

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION

KEYWORD #1

KEYWORD #2

KEYWORD #3

KEYWORD #4

KEYWORD #5

KEYWORD #6

KEYWORD #7

KEYWORD #8

KEYWORD #9

KEYWORD #10

KEYWORD #11

KEYWORD #12

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KEYWORD #14

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KEYWORD #42

KEYWORD #43

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KEYWORD #47

KEYWORD #48

KEYWORD #49

KEYWORD #50

KONIKOVA, A. S.

USSR/Medicine - Blood  
Amino Acids

21 Nov 49

"Formation of Amino Acids in Blood," M. G. Kritsman, A. S. Konikova, S. Ya. Davydova,  
Inst of Biol and Med Chem, Acad Sci USSR, 3 $\frac{1}{2}$  pp with 2 $\frac{1}{2}$  pp of plates.

"Dok Ak Nauk SSSR" Vol LXXIX, No 3

Established that whole blood, depending on presence of certain ferment systems, can synthesize amino dicarboxylic acids from various keto- and oxy-acids in the presence of ammonium. Data obtained gives reason to assume blood is not merely conveyor of nitrogenous compounds, but takes active part in forming and rebuilding structural units of albumin molecules. Submitted 24 Sep 49 by Acad A. I. Oparin.

158T68

KRITSMAN, M.G.; KONIKOVA, A.S.

Amino-acid syntheses in living organisms and in bacterial cells.  
Uspekhi Biol. Khim. 1, 203-15 '50. (MLRA 5:8)  
(CA 47 no.14:7008 '53)

KONIKOVA, A.S.

Chemical Abst.  
Vol. 48 No. 6  
Mar. 25, 1954  
Biological Chemistry

8-24-54  
RML

(S)

*Investigation of protein metabolism in normal and in tumorous rats by means of deuterium. A.S. Konikova and S. Ya. Davydova (Acad. Sci. U.S.S.R., Moscow). Uprav. Biokhim. Zhur. 22, 420-4 (1954) (in Russian); C.A. 44, 10840a. —* The rate of formation of proteins in the organs and tissues of embryonic, 2-week-old, and mature rats was studied. The rats drank 4% D<sub>2</sub>O continuously, and then for several days 50% D<sub>2</sub>O was introduced in the amt. of 3 ml./100 g. weight. For embryonic studies, D<sub>2</sub>O was injected subcutaneously into the pregnant rats, and the rats drank 4% D<sub>2</sub>O during the gestation period. Two-week-old rats fed on mother's milk from birth, the mothers drinking 4% D<sub>2</sub>O during the nursing period. Proteins in the sep. organs and tissues were detd. by phosphoric acid pptn., followed by boiling. The proteins were then washed repeatedly to remove D by phys. exchange, dried to const. wt., and incinerated. The water produced was analyzed for D by the density-flotation method. The rate of protein synthesis was judged by the excess of D in the proteins. In rats bearing M<sub>1</sub> sarcomas the at. percentage of D in the proteins of all organs is somewhat lower than in the proteins of normal rats. Apparently protein resynthesis is hampered during malignant growth. Labeled isotope was then introduced *in vivo* prior to grafting of sarcoma M<sub>1</sub>; the tumor was allowed to grow for 7 days on one rat, and for ten days on the others; the proteins were sepd. from the organs, and the tumor and isotope values were detd. Only a trace of isotope was present in the tumor. Proteins are apparently not utilized by tumors during their growth; this suggests that the proteins of malignant neoplasms are constructed from low-mol. structural units entering from the total metabolic pool of the organism. Clayton F. Holway --

CA

118

*The rate of renewal of proteins of various tissues and organs. V. N. Orekhovich, A. S. Kuzikova, K. D. Orekhovich, and N. N. Dobbert. Doklady Akad. Nauk S.S.S.R. 71, 105-7 (1950). — Detn. of D introduced into the various tissues of rats after several days of administration of D<sub>2</sub>O to bring the av. body-fluid concn. of D<sub>2</sub>O to 1% showed (in descending order) the uptake of D to be highest in the liver, followed by intestines, spleen, kidney, stomach, heart, lungs, and brain. The series of the ease of loss of D is: liver, kidneys, intestines, stomach, lungs, spleen, heart, and brain. The following percentage renewal series, based on the extent of D exchange, in various tissues is (in descending order): blood proteins (total), blood globulins, liver globulins, skin globulins, skin collagen, skin pro-collagen, ossein, muscle proteins, and myogen. The renewal rate is considerably lower in rats which had just given birth to young than in normal adult animals when skin and muscle proteins are considered; the values for internal organs remain normal. The newborn, however, have a rather uniform rate of renewal in all tissues and this is substantially above that of the mother.*  
G. M. Kosolapoff

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CA

Content of free amino acids in some organs and tissues of animals. T. A. Fedorova and A. S. Konikova. Doklady Akad. Nauk S.S.S.R. 72, 737-9 (1950). Direct determination of amino N in various organs gave the following results, av. values: in rats 0.36 mg./g. in liver, 0.45 in kidney, 0.36 in spleen, and 0.21 in blood; in rabbits: 0.42, 0.42, 0.66, 0.19, resp.; in frogs: 0.36, 0.38, —, 0.23, resp. Thus liver and kidney levels do not vary much with the species. Distribution chromatography revealed the same amino acids in all cases: aspartic acid, glutamic acid, cystine, glycine, serine, alanine, methionine, arginine, and phenylalanine, by Consden, Gordon, and Martin's method (C.A. 39, 537<sup>g</sup>). G. M. K.



KONIKOVA, A. S.

PA 175T54

USSR/Medicine - Proteins, Formation 11 Jul 50  
Deuterium

"Intensity of Protein Formation of Various Or-  
gans of Rats in Relationship to Their Age."  
S. Ya. Davydova, A. S. Konikova, Inst Biol  
and Med Chem, Acad Med Sci USSR

"Dokl Ak Nauk" Vol LXXIII, No 2, pp 349-350

Studies subject problem by testing intensity of  
occlusion and decrease of deuterium in proteins  
of various tissues of 2-week old and adult rats,  
when their water diet is  $4\frac{1}{2}$  D<sub>2</sub>O. Greatest in-  
tensity in adults is in the liver and least in

177924

USSR/Medicine - Proteins, Formation 11 Jul 50  
(Contd)

the muscles, while in young rats greatest is in  
skin and muscles and least in the liver, pos-  
sibly due to former being the more rapidly de-  
veloping tissues in postembryonal stage. Three  
tables. Submitted 22 Apr 50 by Acad A. I.  
Oparin.

177924

CA

112

Effect of coenzyme factors on protein synthesis of tissues and organs. A. E. Komkova, M. A. Dotsky, and O. P. Yulshovskaya. *Doklady Akad. Nauk S.S.S.R.* 78, 87-88 (1962).—Biotin acts to accelerate the incorporation of amino acids (labeled methionine) into the proteins of blood, liver, brain, kidney, muscle, and skin in rats. In animals which were supplied with 10-20  $\gamma$  biotin after 20 hrs. there was noted 45-76% increase of B-contg. components of the above-mentioned organs over controls which were given methionine alone. Possibly biotin acts as a coenzyme in the process. G. M. Kostapoff

1951

CA

Investigation on the nitrogen metabolism in diabetes with radioactive methionine. M. G. Kritsanin, A. S. Konikova, D. G. Stepanyan, and L. M. Pyatigorskaya (Acad.-Med. Sci., Moscow). *Biochimiya* 16, 240-9 (1951); cf. Friedberg and Greenberg, *C.A.* 42, 1829a. —Healthy rats after treatment with insulin show a 25% more intense synthesis by the kidneys of proteins from S-contg. amino acids. The insulin has no effect on protein synthesis in other organs or tissues. A 40% decrease, as compared to controls, in the intensity of protein formation from S-contg. amino acids is shown by the kidneys of rats with alloxan diabetes. Protein synthesis decreases in the liver by 15-20% only in cases of grave diabetic conditions. Only very slight changes are observed in protein synthesis by other organs. The injection of therapeutic doses of insulin into diabetic animals activates the process of protein formation in the kidneys to a higher level (25-40%) than in healthy animals (without insulin). Here also introduction of insulin has no effect on the activation process of amino acid conversion into protein in other organs. Insulin participates in the protein metabolism of the kidneys.

H. Priestley

//c

CA

microbiological applications of tracer atoms. A. S. Kouikova and M. G. Kritsman (Biochem. Research Inst., Acad. Med. Sci., Moscow). *Mikrobiologiya* 20, 58-71 (1951).—Uses of  $C^{14}$ ,  $C^{13}$ , and  $C^{12}$  are reviewed as to biosynthesis of  $CH_4$ ,  $HCOOH$ ,  $AcOH$ , and citric acid. Attention is also given to  $N^{15}$  for N fixation studies, and to D for studying H metabolism in bacteria. 44 references.  
Julian F. Smith

YOSHIKAWA, A.S. and KRITSMAN, H.G.

Use of Tracer Atoms In Microbiology, " Mikrobiologiya, 21, 88. 1981.

KONIKOVA, A. S.

PA 236712

USSR/Medicine - Protein Metabolism, Toxicology, Isotopes Jul/Aug 52

"Inclusion of S35 Methionine and C14 Glycine Into the Proteins of Enzymes and Blood/Plasma," M. G. Kritsman, A. S. Konikova, Ts. D. Osipenko

"Biokhimiya" Vol 17, No 4, pp 488-494.

The experiments described establish that inclusion of the amino acids in question into noncellular proteins takes place in human plasma and serum, the plasma and serum of a number of birds and animals, albumin, fibrin, plasmin, trypsin, and papain.

236712

Enzyme poisons (KCN, p-hydroxyquinoline, quinalizarin, alpha-nitroso-beta-naphthol, moniodoacetic acid, sodium azide, sodium arsenite, 2,4-dinitrophenol) inhibit the inclusion of methionine and glycine into the proteins of plasma and trypsin. The results of these experiments (carried out in vitro) open up wide possibilities of investigation by the isotope method of changes which plasma proteins undergo in the intact organism and of the utilization of proteins administered for parenteral nutrition.

236712



KONIKOVA, A. S.

VISHNEVSKIY, A. A.;GRITSMAN, Yu. Ya;KONIKOVA, A. S;MAZINA, F. V.

Investigation on the role of the nervous system in regulation of  
synthesis of hippuric acid by kidneys. Doklady Akad. nauk SSSR  
83 no.4:621-624 1 Apr 1952.  
(CLML 22:2)

1. Presented by Academician A. D. Speranskiy 8 February 1952.



КОНОВА, А. С.

(11)

*S*-labeled methionine in the study of the effect of the diet on protein metabolism. A. S. Konikova, T. A. Fedorova, V. G. Yakovlev, and V. V. Bochkarev. *Trudy Prikladnoy Radioaktiv. Izotop. e Med.* (Moscow: Medgiz) 1953, 256-62; *Risrat. Zhur. Khim., Biol. Khim.* 1955, No. 8370. — A study was made of the rate of inclusion of *S*<sup>35</sup>-methionine into the proteins of different tissues of the white rat and of the appearance rate of the labeled isotopes from the proteins of various organ tissues. The radioactivity was determined in isolated tissue proteins 30 hrs., and 2 and 8 days after the introduction of the labeled methionine. Some of the rats were kept on starvation for the last 3 days. It was demonstrated that the inclusion of *S*<sup>35</sup>-contg. amino acids into the organ proteins and tissues (with the exception of proteins of skeletal muscles) was considerably higher in the starved rats. The disappearance of the labeled isotopes from the proteins in the starving rats was of a lower rate than in those fed normally, with the exception of the proteins of the skeletal muscles.

B. S. Levine

(3)

100110047, A.S.

111) / Radiomethionine and D.O studies of the renewal of proteins in rats with biotin deficiency. M. O. Kritsman, A. S. Konikova, and O. P. Yulnovskaya. *Trudy Priklad. Radioaktiv. Islop. v Med.* (Moscow: Medgiz) 1953, 203-0. Referat. *Zhur. Khim. Biol. Kazn.* 1955, No. 3255. Rats with exptl. biotin deficiency received methionine-<sup>35</sup>S (I) intravenously. Radioactivity was detd. 17-18 hrs. later in the proteins of the different organs. Inclusion of I into the proteins of organs of rats with biotin deficiency was lower than in the controls. The administration of 10 µg of biotin (II) per day on two successive days prior to the injection of I raised its inclusion to normal. Deficiency of II in young rats has a more pronounced neg. effect than in adult rats. *In vitro* expts. with organ tissues gave similar results. Rate of inclusion of I into the proteins of tissue slices of the liver and into blood plasma *in vitro* indicated that the addn. of II to the medium activated the inclusion of I into the proteins. B. S. Levine.

(2)

KONIKOVA A.S.

MD

Vestrin. I. M. Yakobson, A. S. Konikova, A. I. Chamova, and N. N. Dobbert. *Trudy Vsesoyuzn. Nauch. Issledovatel. Inst. Antibiotikov* 1953, No. 1, 152-7. -- Eritrin, an antibiotic extd. from liver and spleen of white rats, is an amorphous, dark-red powder, sol. in weak alkalis, acetone, and insol. in water and acids. It remains biologically active when heated at 70° for 10 min. in neutral or weak alk. or acid solns. In weakly alk. media, eritrin is inactivated in 48-60 hrs. It can be pptd. out by (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> and acids, especially by trichloroacetic acid. Eritrin destroys almost completely the activity of D-amino acid oxidase; it also decreases the activity of glutamic acid dehydrogenase by about 50%. The decrease of activity of the above substances probably is due to the presence of hemin.

V. Mihajlov

Changes in the proteins of serum, kidneys, and the liver following their parenteral injection into the organism, studied with the aid of labeled atoms. K. I. Gavrilova and B. S. Levin (Inst. Surgery Acad. Med. Sci. U.S.S.R., Moscow). *Trav. Inst. 19, 113-116 (1957)*. Rats and rabbits were used as rept. animals. Labeled proteins were obtained by injecting methionine- $^{35}$ S into the donors. Serum and homogenates of liver and kidney tissues obtained from donors were injected parenterally into recipients 5 times in a period of two days, after which the serum, kidney, and liver tissues of the recipients were studied by special methods. Homologous as well as heterologous serums parenterally injected are utilized in the building of nuclear proteins, cytoplasm of the liver, and tissues of kidneys by the rat without their preliminary break-down into amino acids. Upon the introduction of labeled methionine of homologous or heterologous serum into rats or rabbits a rather high degree of radioactivity appears in the fibrinogen fraction of the plasma, which is greater than a similar radioactivity of the liver proteins. Intraperitoneally injected proteins of serum and liver or kidney homogenates are utilized directly as such in building of organ tissue proteins.

B. S. Levin

KONTROVA, A. S.

The incorporation of amino acids into individual proteins and protein complexes. A. S. Kontrova, M. G. Kritsman, and O. P. Samarin (A. V. Vishnevskii Inst. Surgery, Acad. Med. Sci. U.S.S.R., Moscow). *Biznesyazh* 19, 448-9 (1964).—Liver homogenates, blood serum, and blood plasma of the rat and rabbit as well as hemolymph of the oak silkworm were employed. In addition, deoxypentose nucleohistone, pentose nucleoprotein, and globulin isolated from the liver of the rat and rabbit were used. The incorporation expts. were of the *in vitro* type. The incorporation of glycine- $C^{14}$  into a variety of isolated proteins can be clearly noted following 2 hrs. of incubation at 37°. This process of incorporation proceeds at a higher intensity in the case of isolated rabbit proteins. At 100° the incorporation of glycine- $C^{14}$  into individual proteins or protein complexes proceeds rather intensely, but its rate remains lower in the case of protein complexes. At 100° the incorporation of glycine- $C^{14}$  into deoxypentose nucleohistone isolated from the liver of the rat proceeds at a rate higher than in the case of the same protein isolated from the liver of the rabbit. Proteins suspended in a buffer soln. and subjected for 2 hrs. to 100° and then subjected to the interaction with labeled glycine at the same temp. acquire a lowered radioactivity. The effect of 100° upon the degree of amino acid incorporation by various proteins varies with the proteins. Enzyme inhibitors impede the process of amino acid incorporation into isolated proteins at 100° similarly as at 37°. The rate of inhibition varies.

B. S. Levins

MA 2/24

KONIKOVA, A.S.

The formation of organs and tissues ... proteins in ...

E. I. Gavrilova, and A. S. Konikova (Inst. Therapy Acad. Med. Sci. U.S.S.R., *Biokhimiya* 19: 477 (1954); cf. *C.I.* 48, 852a). Male rats were used and cephalocholesterol esters of labeled serum was ... donor rabbit ...  
... from the ...  
... proteins ...  
... activity of the ...  
... (15,000 counts/min ...  
... labeled serum ...  
... recipients. After 10 ...  
... proteins isolated from the ...  
... the greater part of the ...  
... into organ proteins of ...  
... under the ...  
... primary breakdown into amino acids. The ...  
... activities of the proteins of organs and tissues of the ...  
... and atherosclerotic rabbits which ...  
... from healthy donors ...  
... the case when ...  
... generally assumed that in atherosclerosis ...  
... result of the changes which have occurred in the blood plasma ...  
... compo. the normal process of protein regeneration in the ...  
... heart, liver and kidney cortex from the plasma proteins is ...  
... disturbed. This disturbance constitutes a ...  
... in the pathogenesis of atherosclerosis ...

KONIKOVA, A.S.

Test of new antithyroidal compounds with  
 antithyroidal activity of various organic compounds on  
 healthy humans who were given 100  $\mu$ Ci of  $^{131}$ I after  
 which the radioactivity in the thyroid gland was  
 determined. The compounds tested were:  
 1. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 2. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 3. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 4. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 5. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 6. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 7. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 8. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 9. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 10. 2-mercapto-1-(4-nitrophenyl)ethane-1-thione  
 G. M. Kostin

KONIKOVA, N. S.

✓ 2608. Influence of sleep caused by drugs on the rate of passage of sodium from the muscle tissue into the blood. M. S. Putseva and A. C. Konikova *Vop med Kazan* 1965, 1, 408-410. *Publ. in: ZH Biol* 1958, Abstr. No 78076. The rate of transport of the radioactive Na through the capillaries of muscles was studied. Rabbits were anaesthetised with a coin containing 1% urethane and 0.75% veronal introduced subcut. (15-20 ml). Rabbits slept 24-72 hr. NaCl soln. (1%) containing 10-20  $\mu$ c of  $^{24}$ Na was injected 1 cm. deep into one of the muscles of the loinnr. Anaesthesia reduced the rate of the passage of  $^{24}$ Na about 50%.

2  
1



UCHITEL', I.Ya.; KONIKOVA, A.S.

Some data on antibody formation. Biul. eksp. biol. i med. 40 no.12:  
35-39 D '55. (MLBA 9:3)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo (dir.-chlen-  
korrespondent AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR, Moskva.  
(ANTIGENS AND ANTIBODIES,  
antibody form)

KONIKOVA, A. S.

✓ The union of peptides (glutathione) with isolated proteins.  
O. P. Samarina, M. G. Kritsman, and A. S. Konikova (A.  
V. Vishnevskii Inst. Surg., Acad. Med. Sci. U.S.S.R.,  
Moscow). *Biochimiya* 21, 10-16(1956). Rabbits weighing  
2.6-3.0 kg. were given 4 intraperitoneal injections (at in-  
tervals of 45 min.) of labeled glutathione (I). One hr. after  
the last injection the rabbits were decapitated and the blood  
and liver sepd. The mercaptide of I and the subsequently  
free I were obtained. Final results were statistically ana-  
lyzed. The presence in the liver and in the erythrocytes of  
rabbits of radioactive I as a result of intraperitoneal injec-  
tion of glycine-<sup>14</sup>C and of cysteine-<sup>35</sup>S was established. The  
*in vitro* union of I with deoxy-pentose-nucleohistone, pen-  
tose-nucleoprotein, elastin, and plasma hemolyzate proteins was  
demonstrated. The union of peptide I with isolated pro-  
teins occurs with the formation of disulfide and more stable  
peptide bonds. The quant. relation among such bonds  
differs with the type of protein. Ten % CCl<sub>4</sub>H fails to  
impede the formation of the union between the peptide  
I and certain of the proteins.  
R. S. Levine

KO NIKOVA, A.S.

The reaction of isolated proteins with their structural units. A. S. Konikova, M. G. Kritsman, and O. P. Samarin. *Doklady Akad. Nauk SSSR* 109: 563 (1956). -- Expts. with blood serum, hemolyzate proteins, globulin, albumin, and myosin were carried out in conjunction with selected labeled amino acids. Methionine labeled in C<sup>14</sup>, methionine-S<sup>35</sup>, glycine-C<sup>14</sup>, glutathione labeled with <sup>34</sup>S and glycine-C<sup>14</sup>. The units were incubated in phosphate or Ringer buffer at 4° or 37° for 2 hrs. and the activity of the isolated proteins was then detd. Incorporation of labeled amino acids into serum proteins occurs at a rate inversely proportional to concn. of the protein; glutathione does not follow this pattern, however. The nature of the links formed in the reaction is unaffected by the change in concn. of the protein. Similar accelerating effects on incorporation of the simple amino acids is produced by lowering of concn. of the other proteins. The process is not a part of the denaturation process but is specific of protein per se.

3

11/11

C. M. Koslanoff

KONIKOVA, A. S., and KRITSMAN, M. G.

"Experimental Demonstration of Metabolic Processes in Simple Proteins,"  
a paper presented at the International Symposium on the Origin of Life  
on the Earth, Aug 57, Moscow.

*KONT KIV7, H. S.*

GAVRILOVA, K.I. [deceased]; KHODIYEV, E.M.; KONIKOVA, A.S.

Protein formation in transplanted & freeze-dried vascular grafts  
[with summary in English]. Eksp. khir. 2 no.3:40-44 My-Je '57.

(MIRA 10:10)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'-  
nyy chlen ANN SSSR prof. A.A. Vishnevskiy) ANN SSSR.

(BLOOD VESSELS, transpl.

protein synthesis in transplanted freeze-dried grafts)

(PROTEINS, metab.

synthesis in transplanted freeze-dried vasc. grafts)

KRITSMAN, M.G.; SUKHAREVA, B.S.; SAMARINA, O.P.; KONIKOVA, A.S.

Quantitative characteristics of the incorporation of free amino acids into isolated proteins [with summary in English]. *Biokhimiia* 22 no.3:449-459 My-Je '57. (MIRA 10:11)

1. Institut khirurgii A.V.Vishnevskogo i Institut terapii Akademii meditsinskikh nauk SSSR, Moskva.

(AMINO ACIDS,

incorporation into proteins in vitro (Rus))

*KONIKOVA, A.S.*

In the article "Protein Synthesis," A. S. Konikova and M. G. Kritsman, Doctors of Biological Sciences, review and explain to some extent Soviet and foreign (chiefly US and British) research on protein synthesis. The authors preface their discussion of actual research with remarks emphasizing the complexity and importance of proteins, their natural formation and how it has been studied with tracer atoms, and their fate in the living organism. They mention the role of nucleic acids and conditions necessary for natural formation of proteins in various biological systems. They cite early experiments in this field and research paths leading to chemical synthesis.

The authors briefly discuss enzyme systems entering into the natural process and present certain principles involved in chemical synthesis, and mention possibilities for new vaccines afforded by discovery of the mechanism underlying the formation of immune bodies.

Konikova and Kritsman state that by attaching various polypeptides to a protein, basic proteins capable of generating antibodies with differing specificity can be synthesized, and they foresee the use of synthetic polypeptides for increasing the food value of protein products. (Muzh 1 Zhizn', Vol 24, No 1, Jan 57, pp 17-20)

*Sum. 1305*

UCHITEL', I.Ya.; KONIKOVA, A.S.

Comparing the formation of antigens and nonspecific proteins in the body [with summary in English]. Biul.eksp.biol. i med. 44 no.7: 85-89 J1 '57. (MIRA 10:12)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR, Moskva. Prestavlena deystvitel'nyy chlenom AMN SSSR prof. P.F.Zdrodovskim.

(ANTIGEN ANTIBODY REACTION,

antigen form., comparison with vorm of non-specific proteins (Rus))

(PROTEINS, metabolism,

non-specific protein form., comarison with anitgen form. (Rus))



KONIKOVA, A.S.

Current status of developemt of the chemical industry and its  
significance for medicine. Eksper.khir. 3 no.5:3-7 S-0 '58  
(MIRA 11:11)

(CHEMICAL INDUSTRIES,  
current status & significance for med. (Rus))

UCHITEL', I.Ya.; KONIKOVA, A.S.

Antibody formation in hypothermia. Zhur. mikrobiol. epid. i immu. 29  
no.10:77-82, 0 '58. (MIRA 11:12)

1. Iz Instituta khirurgii imeni Vishnevskogo AMN SSSR.

(ANTIBODIES,

form., eff. of hypothermia ( Rus ))

(HYPOTHERMIA, eff.

on antibody form. ( Rus ))

**AUTHORS:** Konikova, A. S., Sukhareva, B. S., 20-119-4-33/60  
Kritsman, M. G.

**TITLE:** On the Characteristic of the Stability of Bonds Formed  
by the Incorporation of Amino Acids Into Isolated  
Proteins (K kharakteristike sily svyazey, obrazuyushchikhsya  
pri vklyuchenii aminokislot v izolirovannyye belki)

**PERIODICAL:** Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 4,  
pp. 749-752 (USSR)

**ABSTRACT:** The course of the incorporation of free amino acids in  
isolated proteins and in proteins of complicated biological  
systems was compared in several biological systems.  
It was found that peptides and other bonds are formed  
(references 1 - 4). Furthermore the position of several  
marked amino acids introduced was found in the peptide  
chains of isolated proteins. More detailed investigations  
showed that the  $\epsilon$ -amino group of the marked lysine takes  
part in the peptide bond of the latter. In the present  
paper those bonds were characterized which are formed by  
the incorporation of tyrosine-1- $C^{14}$  and glycine-1- $C^{14}$

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On the Characteristic of the Stability of Bonds Formed 20-119-4-33/60  
By the Incorporation of Amino Acids Into Isolated Proteins

in isolated myosine. This was obtained by the determination of the radioactivity of protein during its imperfect hydrolysis. The condition was the following: If in the case of incorporation of the marked amino acid in isolated proteins other bonds are formed than in the case of its synthesis in the organism, the radioactivity loss during an imperfect hydrolysis of a protein marked in vitro will not correspond to the increase of the residual nitrogen. Furthermore it is necessary that the curve of the decrease (with respect to time) of its total radioactivity differs from that of the hydrolysis of the peptide bonds of an analogous albumen, however, marked in vivo. An experimental part follows in which the production methods of myosine with marking in vivo and in vitro are described. Rabbits were used for this purpose. Myosine was subjected to either alkaline or acid hydrolysis. Table 1 shows the quantitative changes of the non-protein-nitrogen, of tyrosine and of the radioactivity of myosine during its imperfect hydrolysis. The comparison between the bonds formed by the transition

Card 2/4

KONIKOVA, A.S.; KRITSMAN, M.G.; KOROTKINA, R.N.; SUKHAREVA, B.S.;  
FOGOSOVA, A.V.

Comparative study on the type of bonds formed upon in vitro and in  
vivo incorporation of amino acids into proteins. Biokhimiia 24  
no.5:794-798 S-0 '59. (MIRA 13:2)

1. Institut khirurgii im. A.V. Vishnevskogo in Institut terapii  
Akademii meditsinskikh nauk SSSR, Moskva.  
(PROTEINS chem.)

KRITSMAN, M.G.; KONIKOVA, A.S. (Moskva)

Protein synthesis outside the organism in the light of investigations  
made by the use of radioactive tracers. Usp.sovr.biol. 48 no.2:136-  
154 S-O '59. (MIRA 13:3)  
(PROTEINS chem.)

KOROTKINA, R.N.; KONIKOVA, A.S.; KRITSMAN, M.G.

Simple method for obtaining blood serum albumin tagged with radioactive amino acids. Lab. delo 6 no.4:18-20 J1-Ag '60.

(MIRA 13:12)

1. Institut khirurgii AMN SSSR imeni A.V. Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) i Institut terapii AMN SSSR, Moskva.

(ALBUMIN)

(RADIOACTIVE TRACERS)

KRITSMAN, M.G.; SUKHAREVA, B.S.; KONIKOVA, A.S.; KOROTKINA, R.N.

Changes in the number of peptide bonds in isolated proteins.  
Biokhimiia 25 no.1:17-23 Ja-F '60. (MIRA 13:6)

1. Institute of Therapy and Surgical Institute, Academy of  
Medical Sciences of the U.S.S.R., Moscow.  
(MUSCLE PROTEINS chem.)



KONIKOVA, A. S., KOROTKINA, R. N., POGOSOVA, A. V., (USSR).

Comparative Analysis of the Process of Incorporation of Free Amino-Acids into Proteins in a Protein-Amino-Acid System and in the Intact Organism.

report presented at the 5th Int'l  
Biochemistry Congress, Moscow, 10-16 Aug. 1961

UTCHITEL, I. Y.; KONIKOVA, A. S.

Synthesis of antibodies when under the influence of factors decreasing the activity of the organism. J. hyg. epidem., Praha 5 no.2:199-209 '61.

1. Vishnevsky Institute of Surgery, Academy of Medical Sciences of the U.S.S.R., Moscow.

(ANTIBODIES) (BLOOD PROTEINS metabolism)

LEVITOVA, Ye.N.; KONIKOVA, A.S.; KRITSMAN, M.G.

Inclusion of labeled amino acids into plasteins. *Biokhimiia*  
26 no.6:961-965 N-D '61. (MIRA 15:6)

1. Vishnevskiy Institute of Surgery and Institute of Therapy,  
Academy of Medical Sciences of the U.S.S.R., Moscow.  
(AMINO ACIDS)  
(PLASTEIN)

UCHITEL', I.Ya.; KHASMAN, E.L.; KONIKOVA, A.S.

Intensity of synthesis of proteins of the body during the induction phase of the formation of typhoid agglutinins. Zhur.mikrobiol.epid. i immun. 32 no.1:17-22 Ja '61. (MIRA 14:6)

1. Iz Instituta khirurgii imeni Vishnevskogo AMN SSSR. (TYPHOID FEVER) (PROTEIN METABOLISM) (AGGLUTININS)

30711

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S/C20/61/141/002/025/027  
3101/B110

**AUTHORS:**

Babskaya, Yu. Ye., Konikova, A. S., and Kritsman, M. G.

**TITLE:**

Study of bonds formed as a result of the inclusion of amino acids into the proteins of a living organism

**PERIODICAL:**

Akademiya nauk SSSR. Doklady, v. 141, no. 2, 1961, 473-476

**TEXT:**

The authors refer to literature data according to which the bonds of amino acids with other constituents of the protein molecule may be dissimilar and may possess different stability. They checked this assumption by examining bonds formed in vivo as a result of introducing methionine-S<sup>35</sup> and cysteine-S<sup>35</sup> into liver protein and into the protein fractions of blood. The experimental method has already been described (DAN, 137; 710 (1961)). The proteins obtained were purified and then treated with alkali, performic acid, and thioglycolic acid. The amount of amino acid included into the protein with formation of a stable bond was estimated from the residual radioactivity remaining after this treatment. Fig. 1 presents data obtained for methionine-S<sup>35</sup> two hours after its introduction

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Study of bonds formed as a result ...

into the organism. In contradistinction to the liver which, preponderantly, firmly bound the methionine, the blood proteins showed a partially unstable addition of methionine. H. Tarver's assumption (see below) that unstable bonds are the result of a conversion of methionine into cysteine and addition of the latter by the formation of disulfide bonds was refuted by the fact that analogous to methionine-S<sup>35</sup> marked methionine-C<sup>14</sup> was used in the carboxyl group. Methionine-S<sup>35</sup> and methionine-C<sup>14</sup> showed the same behavior. Accordingly, besides disulfide bonds still other unstable bonds occur. While the bond between the liver and cysteine is mainly stable, preponderantly unstable bonding (up to 80-90%) occurs, similar to methionine, between blood proteins and cysteine. Examinations showed that unstably bound cysteine tended to decrease in the course of time after it had been introduced into the organism. 64 hours after introduction, however, 25% of cysteine-S<sup>35</sup> was still unstably bound. This leads to the conclusion that proteins always contain both stable and unstable cysteine molecules, the ratio of stably to unstably bound radicals depending on the period of time for which the amino acid was subjected to metabolism. In

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TOP SECRET

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Study of bonds formed as a result ...

addition, the ratio also depends on the physiological condition of the organism. The introduction of cysteine-S<sup>35</sup> into a rabbit in hypothermic condition (24°C) showed that merely 6% of cysteine was still stably bound. The ratio of stable to unstable bonds is, therefore, not constant but depends on the time of inclusion of the amino acid into the organism, on the kind of protein and on the organism's functional condition. There are 4 figures and 11 references: 4 Soviet and 7 non-Soviet. The four most recent references to English-language publications read as follows: H. Tarver, C. L. A. Schmidt, J. Biol. Chem., 146, 69 (1942); T. Winnick, E. A. Peterson, D. M. Greenberg, Arch. Biochem., 21, 235 (1949); E. A. Peterson, G. M. Greenberg, J. Biol. Chem., 194, 359 (1952); H. Borsook, Chemical Pathways of Metabol., 2, 1954, p. 173.

ASSOCIATION: Institut khirurgii im. A. V. Vishnevskogo Akademii meditsinskikh nauk SSSR (Institute of Surgery imeni A. V. Vishnevskiy of the Academy of Medical Sciences USSR)

PRESENTED: June 19, 1961, by V. N. Chernigovskiy, Academician

Card 3/0.3

POGOSOVA, A.V.; KRITSMAN, M.G.; KONIKOVA, A.S.

Effect of urea and temperature on the process of inclusion of amino acids into isolated proteins. Biokhimiia 27 no.1:19-24 Ja-F '62.  
(MIRA 15:5)

1. Institute of Therapy and Institute of Surgery, Academy of Medical Sciences of the U.S.S.R., Moscow.

(PROTEINS)

(UREA)

(TEMPERATURE)



KONIKOVA, A. S.; KHARNAS, S. Sh.; BABSKAYA, Yu. Ye.; POGOSOVA, A. V.;  
AVRUTSKIY, M. Ya.

Metabolic change in deep hypothermia. Eksp. khir. i anest.  
no.2:58-62 '62. (MIRA 15:6)

1. Iz Instituta khirurgii imeni A. V. Vishnevskogo (dir. -  
deystvitel'nyy chlen AMN SSSR prof. A. A. Vishnevskiy) AMN SSSR.

(HYPOTHERMIA) (METABOLISM)

BABSKAYA, Yu.Ye.; KONIKOVA, A.S.; KRITSMAN, M.G.; POGOSOVA, A.V.;  
RAPOPORT, E.A.

Problems of the synthesis of specific proteins. Dokl. AN SSSR  
146 no.2:460-463 S '62. (MIRA 15:9)

1. Institut khirurgii im. A.V. Vishnevskogo AMN SSSR i Institut  
terapii AMN SSSR. Predstavleno akademikom V.N. Chernigovskim.  
(PROTEINS)

KONIKOVA, A.S.; KRITSMAN, M.G. (Moskva)

Some data on the mechanism of protein synthesis obtained by  
the utilization of amino acid analogues. Usp. sovr. biol.  
55 no.3:339-354 My-Je'64 (MIRA 17:3)

KONIKOVA, Anna Semenovna; KRITSMAN, Mariya Grigor'yevna;  
SHREY BERG, G.A., red.

[Pathways of protein synthesis] Puti sinteza belka. Mo-  
skva, Meditsina, 1965. 357 p. (MIRA 18:6)

ECRENKOVA, S.A.; KONIKOVA, A.S.; KRITSMAN, M.G.

Biosynthesis of insulin chains A and B. Dokl. AN SSSR 163 no.2:503.  
506 JI '65. (MIRA 18:7)

1. Institut khirurgii im. A.V.Vishnevskogo AMN SSSR i Institut  
terapii AMN SSSR. Submitted October 24, 1964.

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*et*

**Biochemistry of ascorbic acid. III. Effect of ascorbic acid on catalase activity.** I. D. Kashchuk and G. S. Kuzikova (Natl. Med. and Stomatological Inst., Smolensk). *Russk. Ekspil. Biol. Med.* 13, No. 1, 2, (1912), (1913). *C.A.* 34, 5481. The effect of ascorbic acid on catalase activity in preps. of livers of rabbits and rats and livers of sheep, swine, and cattle was detd. by the amt. of  $O_2$  soln. of  $H_2O_2$  (in ml. of 0.1 N  $KMnO_4$ ) reduced in the system catalase +  $H_2O_2$  +  $H_2O$  at room temp. with addn. of ascorbic acid in physiol. soln. at a concn. of 10-70 mg.  $\%.$  Catalase activity was reduced 30 to 50% by the presence of ascorbic acid, and this effect was shown not to be due to pH effect of the ascorbic acid soln.  
K. Starr Cluster

ASTM-31A METALLURGICAL LITERATURE CLASSIFICATION

*Konnikova G.S.*

*0.2  
117*

Cholesterol-protein complexes of the brain. G. S. Konnikova (Stalingrad Med. Inst.). *Ukrain. Biokhimič. Žurn.* 12, 5-10 (1950) (in Russian).—Cholesterol-protein complexes were detd. in human and other mammalian, fish, reptile, and bird brains. Cholesterol in the forebrain is combined with both the neuroglobulin and neurostromin fractions. The quantity of cholesterol bound to neurostromin is approx. twice as high as that bound to neuroglobulins. Cholesterol is bound in free, nonesterified form to brain proteins. Cholesterol in gray matter is characteristically predominantly in the form of cholesterol-protein complexes. Not all cholesterol of the cholesterol-protein complexes of the brain is bound to proteins by identical bonds, since a portion is extractable by alc.-ether, and a portion is freed only upon extn. with boiling EtOH. The dura mater was removed, the brain washed with water to disappearance of pink coloration of wash water, minced, and extd. with physiol. soln. To prevent formation of emulsion, the brain was not ground or stirred. After 24 hrs., liquid was pressed through cheesecloth, filtered through a Seitz filter and then through an ordinary filter; the filtrate was transparent. Proteins were pptd. either by  $(NH_4)_2SO_4$  or by heating after acidification with HOAc in the presence of NaCl. Pptd. proteins were dialyzed, in one case to disappearance of Cl ion, and in the other to disappearance of the  $SO_4$  ion, and dried at 40-60°. The dry protein was extd. either with  $CHCl_3$ , alc.-ether, or boiling EtOH. Salkowski, Liebermann-Burchard, and digitonin tests were all pos. on the exts. Sepn. of neuroglobulins and neurostromins was carried out according to A. Lenz (*Recet. Voenno-Med. Akad.* 27, 456(1913)). Neuroglobulins were extd. with weak lactic acid soln. and neutralized with alkali. Neurostromins were sepd. next by weak alkali and pptd. with small HOAc excess. It was detd. by Liebermann-Burchard and digitonin tests that cholesterol was bound to both neuroglobulins and neurostromins.

Clayton F. Holoway

KOVNATSKIY, M.A.; GORN, L.Ye.; GRODZENCHIK, N.A.; YERMAKOVA, P.M.; KONIKOVA, G.S.;  
KORNIGS, A.I.; KUZNETSOVA, M.V.; MEL'NIKOVA, L.M.

Silicosis, etiology, pathogenesis, and clinical aspects. Gig. sanit.,  
Moskva no.8:28-32 Aug. 1952. (GIML 23:2)

1. Of the Clinical Department of Leningrad Scientific-Research Institute  
of Labor Hygiene and Occupational Diseases.



KONIKOVA, G. S.

"Disturbance of the Permeability of the Capillaries to the Proteins of the Blood Plasma in the Presence of Silicosis and Certain Forms of Silicatosiis." Min Public Health RSFSR, Leningrad Sanitary-Hygenic Med Inst, Leningrad, 1955  
(Dissertation for the Degree of Candidate of Biological Sciences)

SO: Knizhnaya Letopis', No. 32 6 Aug 55

KONIKOVA, G.S.

The role of the hyaluronidase hyaluronic acid system in the disturbance of capillary permeability in silicosis and silicatosia. (MLRA 9:5)  
Bor'ba s sil. 2:297-304 '55.

1. Leningradskiy nauchno-issledovatel'skiy institut gigiyeny truda i profsabolevaniy  
(HYALURONIDASES) (CAPILLARIES)  
(LUNGS--DUST DISEASES)

...  
mined under normal conditions and in an artificially  
created small stasis. An increase of capillary

T-5

USSR / Human and Animal Physiology. Respiration.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3450

Author : Kopikova, G. S.

Inst : Not given

Title : Disturbance of Capillary Permeability to Plasma Proteins  
in Silicosis and in Some Forms of Silicatosis

Orig Pub : Tr. Yubileyn. nauchn. sessii, posvyashch. 30-letney  
deyat-sti Gos. n.-i. in-ta gigiyeny truda i profzab-  
olevaniy. L., 1957, 221-225

Abstract : Capillary permeability was investigated by the method  
of Lendis, and also of Artynov and Semiglasova, in 290  
human beings that had been subjected to the effect of  
dust, as well as in 50 healthy persons; ESR and the  
protein fractions of the venous blood were also deter-  
mined under normal conditions and in an artificially  
created small stasis. An increase of capillary

Card 1/2

USSR / Human and Animal Physiology. Respiration.

T-5

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3450

permeability was noted in persons under the effect of quartz dust, especially in patients with silicosis. In short contacts with asbestos dust an increase of capillary permeability, and in long contacts a decrease of capillary permeability was seen. Analogic diphasic changes in capillary permeability were observed in silicosis due to nephelinic and olivinic dusts. In persons with altered capillary permeability due to the effects of quartz and silicate dusts, the urinary hyaluronidase activity is increased as compared with that of healthy people. It is believed that the disturbance of capillary permeability in silicosis is produced by a neuro-humoral mechanism. -- M. Ya. Mayzelis

Card 2/2

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KONIKOVA, G.S.

Humoral mechanism governing impairment of capillary permeability  
to blood plasma proteins in silicosis and silicatosis. Arkh.  
pat. 22 no. 8:39-45 '60. (MIRA 14:1)  
(LUNGS—DUST DISEASES) (CAPILLARIES—PERMEABILITY)

GRATSIANSKAYA, L. N.; TSIRUL'NIKOVA, I. I.; VELIKSON, I. M.;  
KONIKOVA, G. S. (Leningrad)

Clinical aspects of vibration sickness in concrete workers. Gig.  
truda i prof. zab. no.1:34-39 '62. (MIRA 15:2)

1. Leningradskiy institut gigiyeny truda i profzabolevniy.

(VIBRATION--PHYSIOLOGICAL EFFECT)  
(CONSTRUCTION WORKERS--DISEASES AND HYGIENE)

KONIKOVA, G. S.

Cholesterol metabolism in human subjects exposed to the prolonged action of lead. Terap. arkh. no.7:104-109 '61.

(MIRA 15:2)

1. Is kliniko-biohimicheskoy laboratorii (rukovoditel' - kandidat meditsinskikh nauk A. V. Shcheglova) klinicheskogo otdela (rukovoditel' - prof. M. A. Kovnatskiy) Gosudarstvennogo nauchno-issledovatel'skogo instituta gigiyena truda i profsabolevaniy.

(LEAD-POISONING) (CHOLESTEROL)

KONIKOVA, G.S. (Leningrad)

Cholesterol and phospholipids in the blood during prolonged exposure to some industrial poisons (lead, carbon disulfide and benzene). Terap.arkh. no.8:96-101 '62. (MIRA 15:12)

1. Iz kliniko-biokhimicheskoy laboratorii (rukovoditel' - kand. med.nauk A.V. Shcheglova) klinicheskogo otdela (rukovoditel' - prof. M.A. Kohnatskiy) Nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh zabolovaniy (dir. - prof. Z.E. Grigor'yev).  
(PHOSPHATIDES) (INDUSTRIAL TOXICOLOGY)



KONIKOVA, G.S.

Cholesterol metabolism in experimental lead poisoning. *Biul. eksp. biol. i med.* 54 no. 11:65-67 N '62. (MIRA 15:12)

1. Iz kliniko-biokhimicheskoy laboratorii (rukovoditel' - kand. med.nauk A.V.Shcheglova) klinicheskogo otdela (rukovoditel' - prof. M.A.Kozhatskiy) Leningradskogo nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh zabolevaniy (dir. - prof. Z.E.Grigor'yev). Predstavlena deystvitel'nym chlenom AMN SSSR V.M.Karasikom.

(CHOLESTEROL METABOLISM)(LEAD--TOXICOLOGY)

KONIKOVA, G.S.; KUZ'MINSKAYA, G.N.

Cholesterol metabolism in experimental poisoning with sodium fluoride. Farm. i toks. 28 no.6:741-742 N-D '65.

(MIRA 19:1)

1. Kliniko-b'okhimicheskaya i patofiziologicheskaya laboratoriya (rukovoditeli - kand. med. nauk A.V.Shecheglova i Zh. I.Abramova) klinicheskogo otdela (rukovoditel' - doktor med. nauk L.N. Gratsianskaya) Leningradskogo nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh zabolevaniy.

KONIKOVA, O.V.

Spectrophotometric study of a scandium compound with xylenol orange. Zhur. anal. khim. 19 no. 1:73-78 '64. (MIRA 17:5)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

