

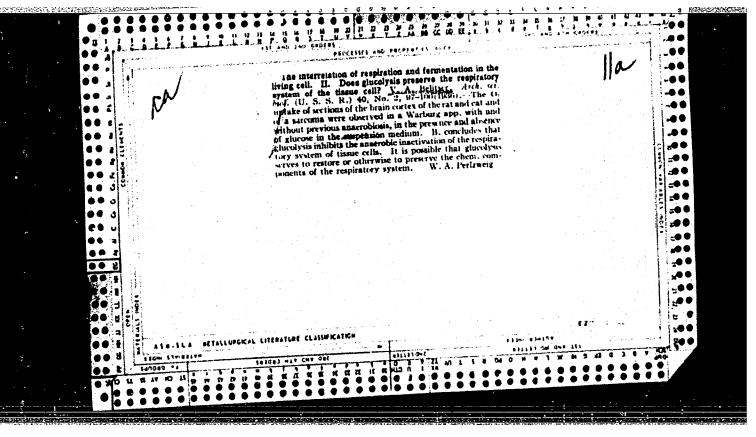
BELITSEV, V. A.

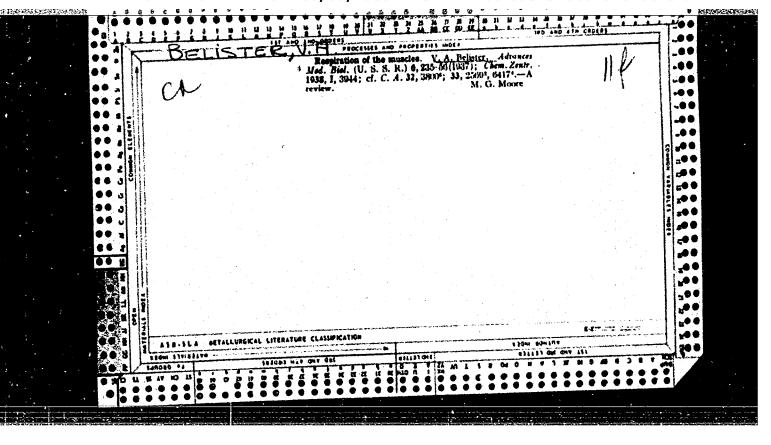
"Problems of the new scheme of Fermentation", (p. 709) by Belitsev, V. A.

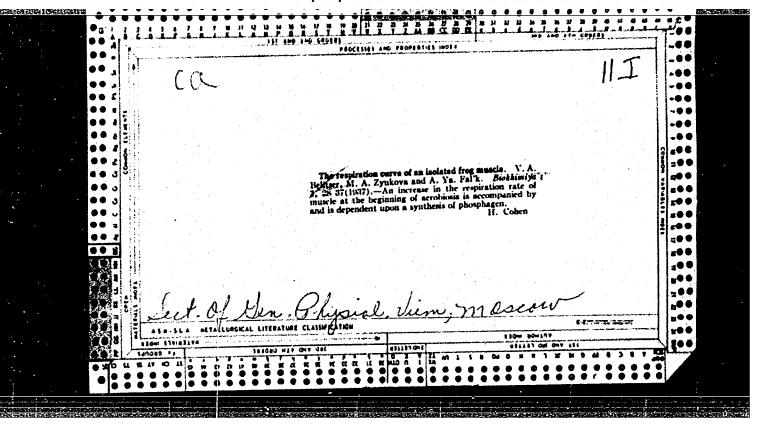
SO: Advances in Contemporary Biology (USPEKKI SOVREMENNOI BILOGII) Vol. V. No. 4 1936

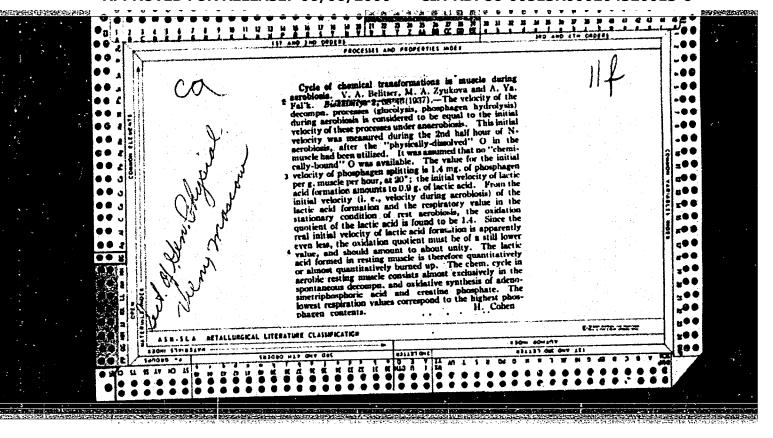
RECENT WORK Of the meyerhof school", (p. 921) by Belitser, V.

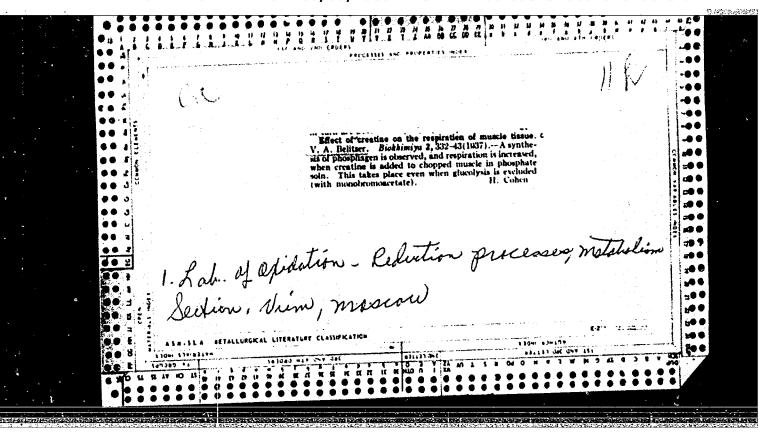
SO: Advances in Contemporary Biology (USPEKKI SOVREMENNOI BIOLOGII) Vol. 5, No. 5 1936

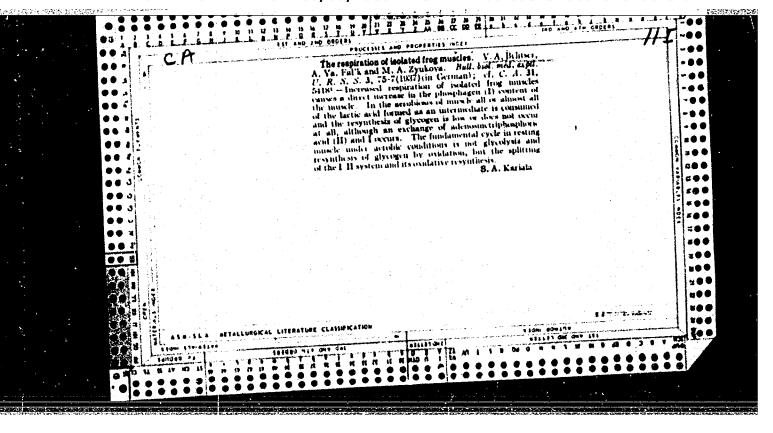












BELITSER, V. A.

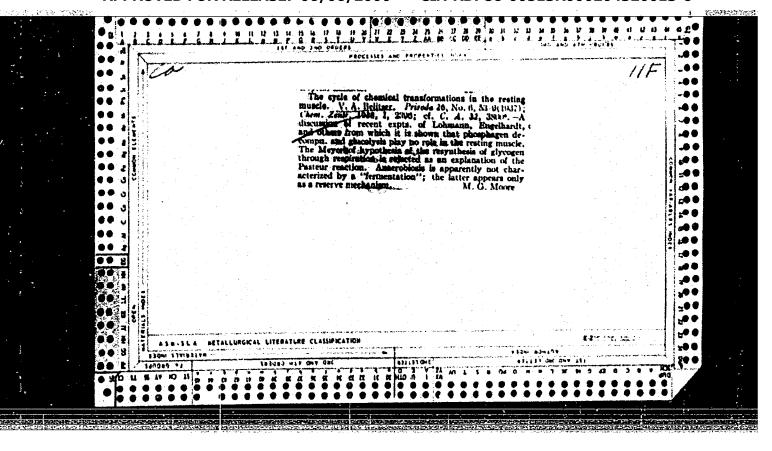
"New data on the mechanism of fernentation." (p. 182) by Belitser, V. A.

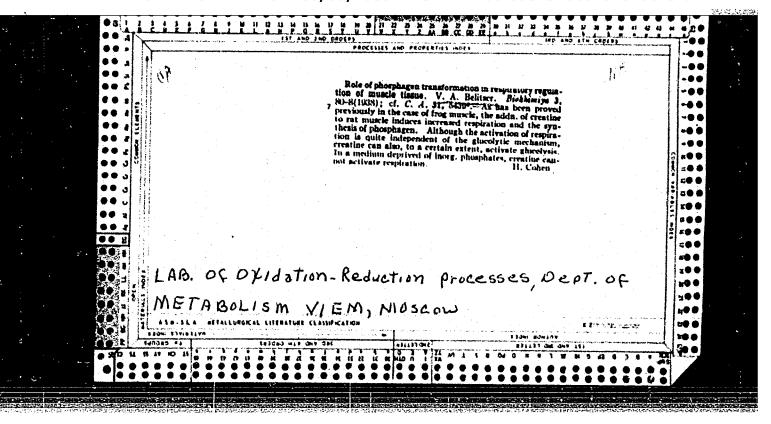
SO: Advances in Contemporary Biology (Uspekhi Sovremennoi Biologie) Vol. VI, No. 1 1937

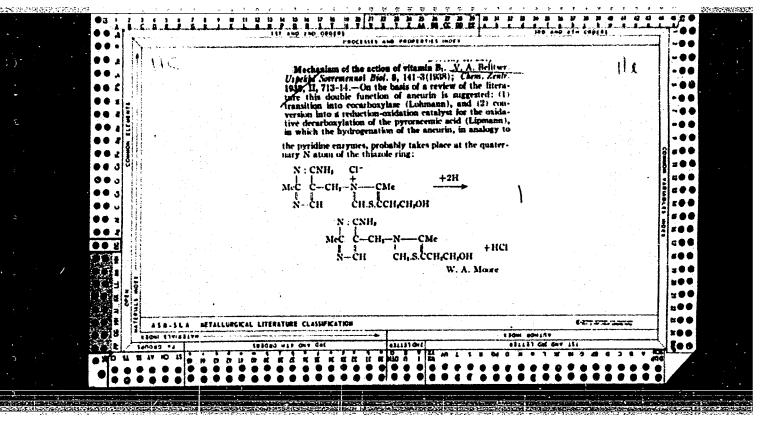
BELITZER V. A.

"The respiration of muscles" (p. 235) by Eelitzer V. A.

SO: Advanced in Contemporary Biology (Uspekhi Sovremennoi Biologie) Vol. VI, No. 2 1937

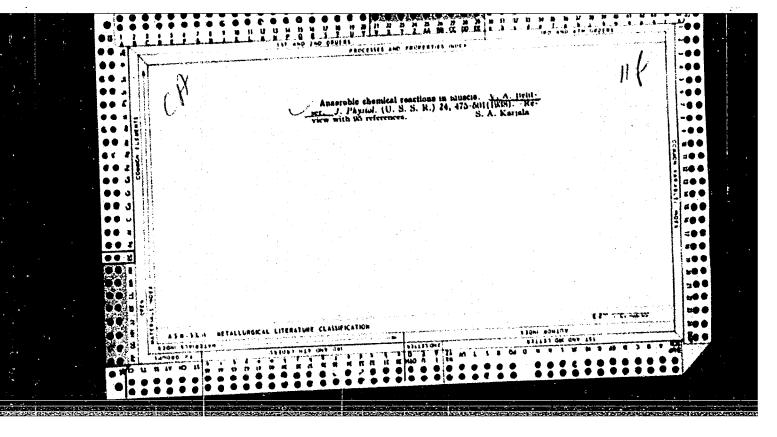


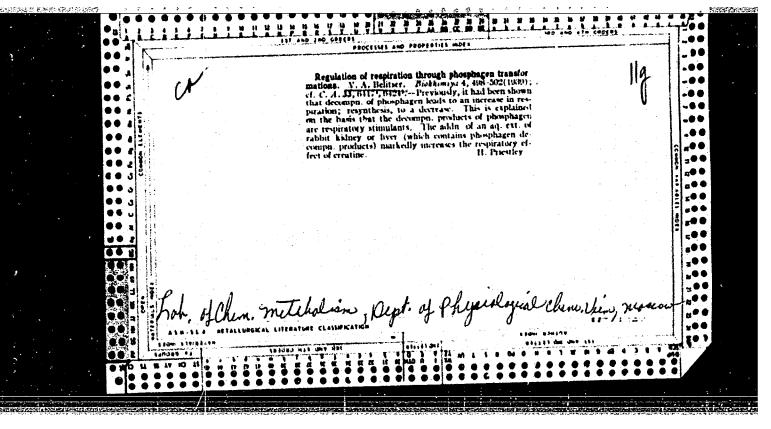


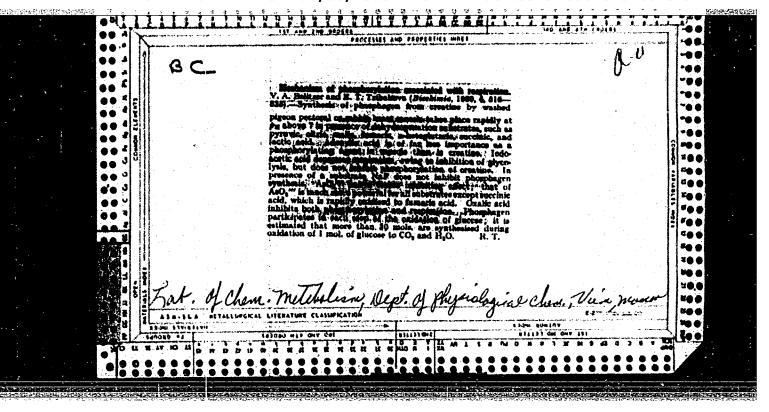


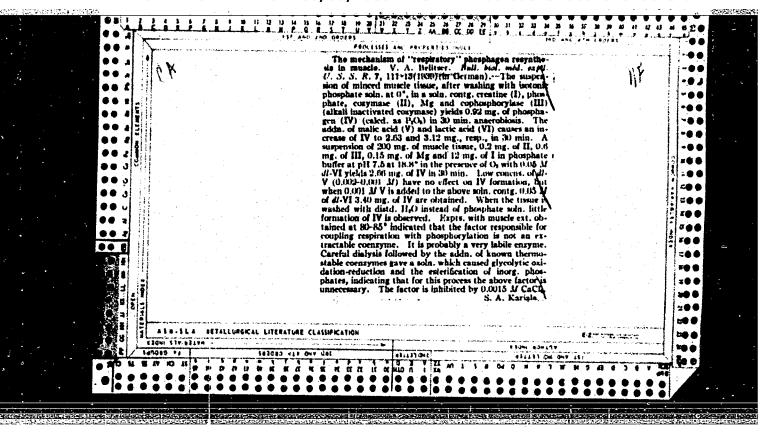
"Pasteur-reaction." (p. 416) by <u>V. Belitzer</u>

SO: Advances in Contemporary Biology (Uspekki Sovremennoi Biologii) Vol. VIII, No. 3, 1938









BELITZER, V. A.

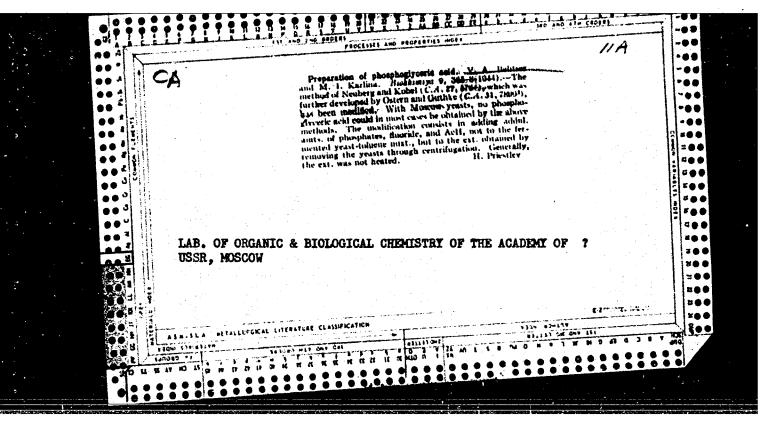
"The Application of the Radio-Active Elements in Biochemistry" (p. 157)by Belitzer, V.A.

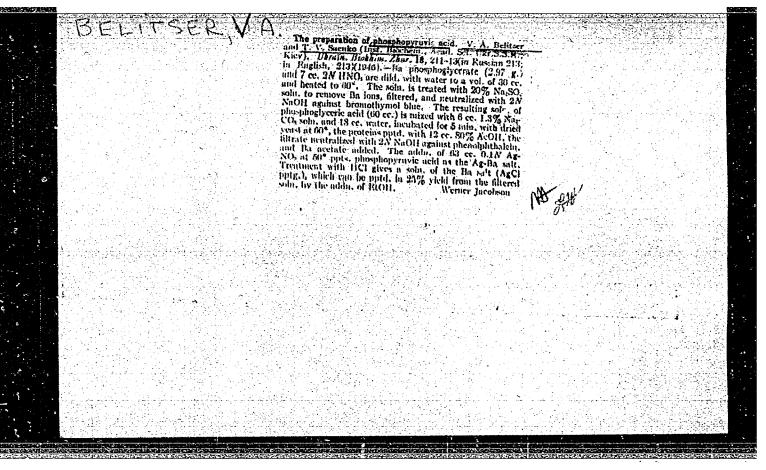
SO: Advances in Contemporary Biology, (Uspekhi Sovremennoi Biologii), Vol. I, No. 1,

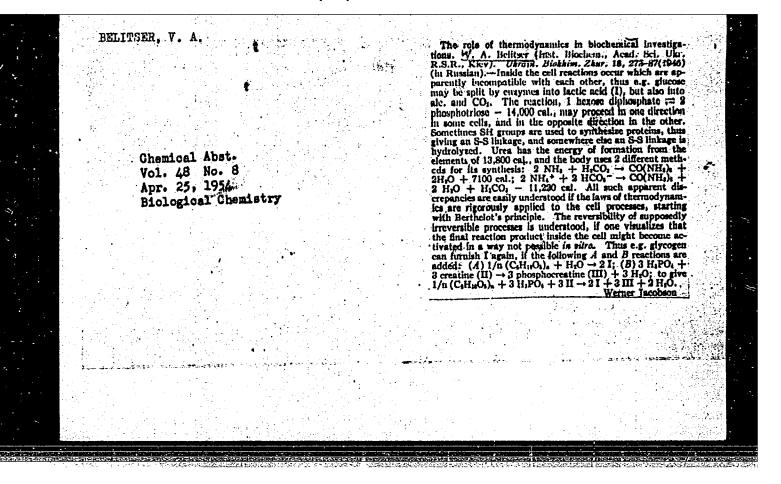
1939

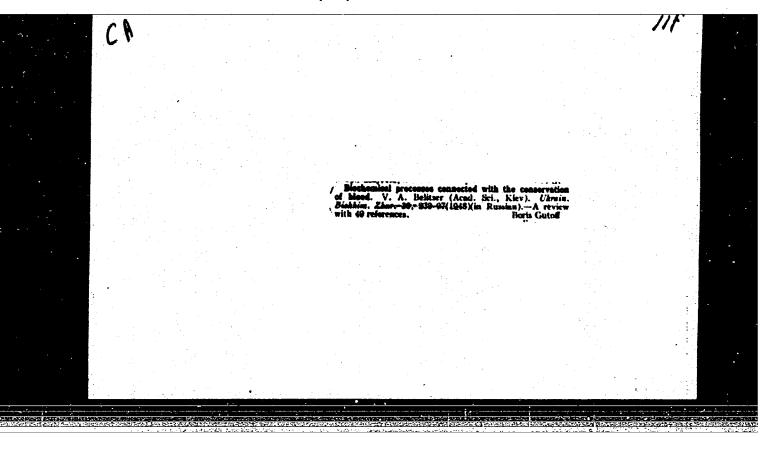
#Elucidation of the fermentation - process* (p. 372) by Belizer, V. A.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie) Vol. XII, No. 2, 1940



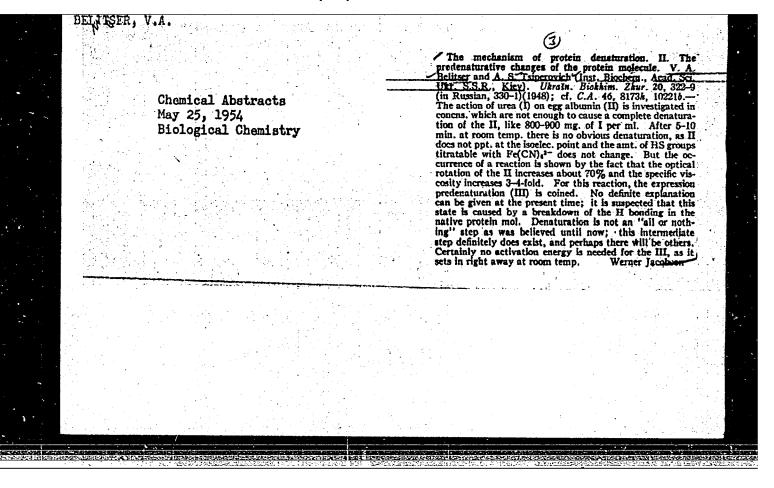


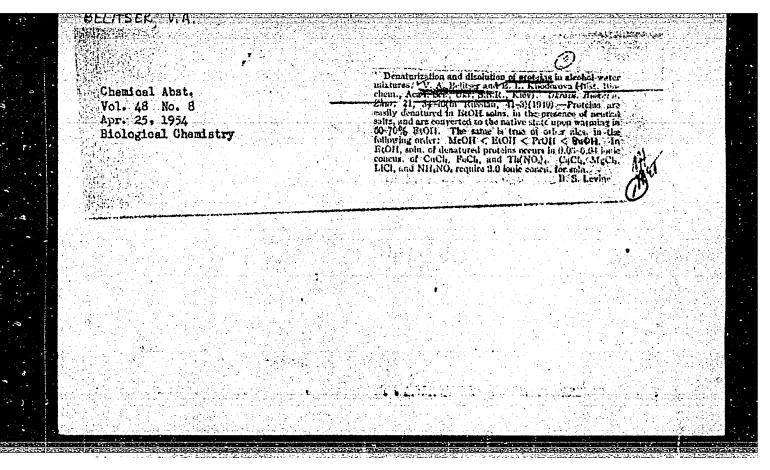




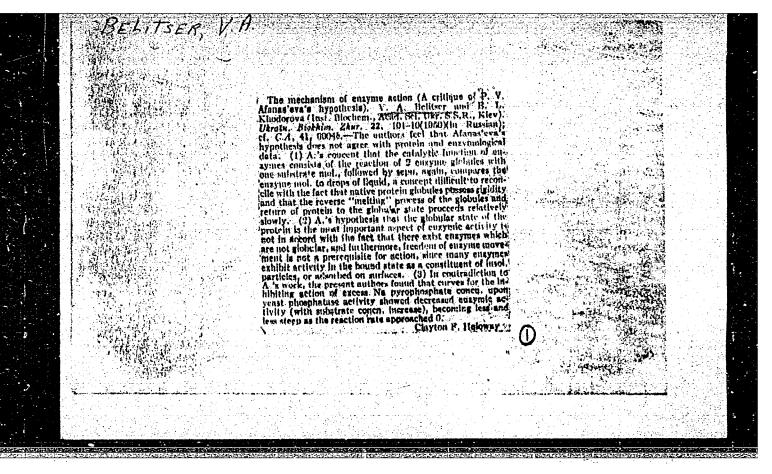
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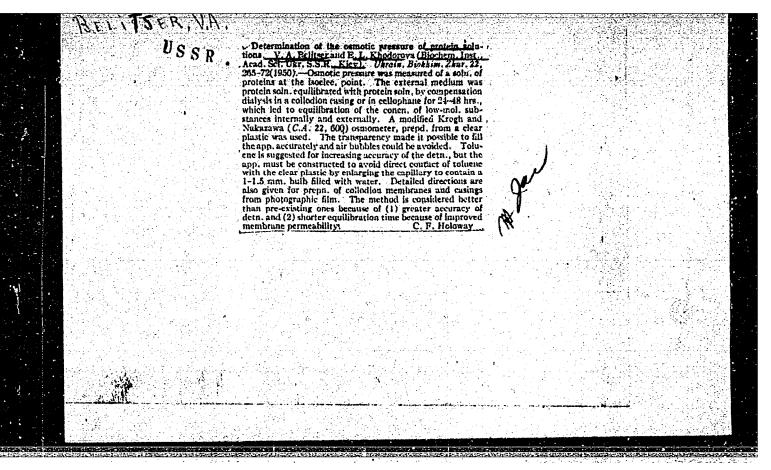
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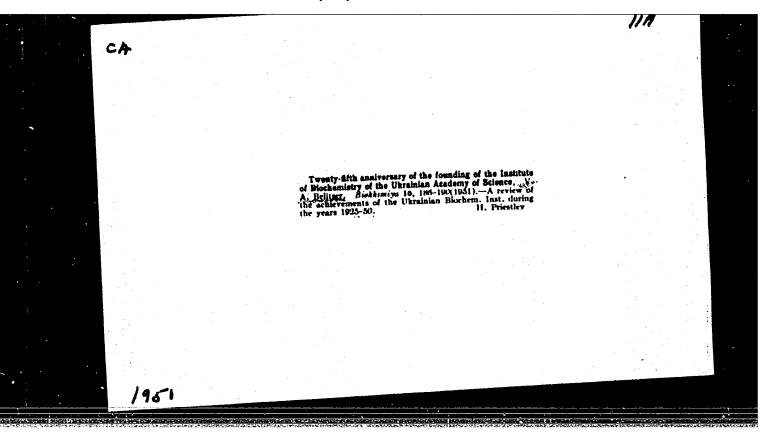


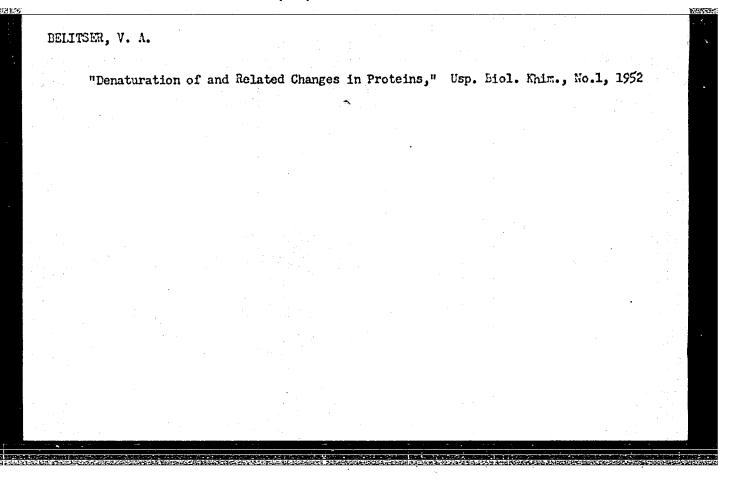


	Denaturation and the accompanying changes in proteins. U. Khim. 1, 53-69 '50. (CA 47 no.14:7007 '53)	Japakhi Biol. (MLRA 5:8)	
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BELITSER, V.A.; KHDOROVA, Ye.L. Nature of conversion of fibrinogen into fibrin. Biokhimiia, Moskva 17 no.6:676-683 Nov-Dec 1952. (CIML 25:1) 1. Institute of Biochemistry of the Academy of Sciences Exrainian SSR, Kiev.

BELITSER, V.A. (Kiyev).

Amphoteric properties of amino acids and proteins; a review. Ukr.biokhim. zhur. 24 no.2:225-257 '52. (MIRA 6:11)

(Amino acids) (Proteins)

"Completeness of Transformation of the Molecule During Densturation," V. A. A. S. Tsyperovich, Inst of Biochem, A Utrainian SSR "Dok Ak Nauk SSSR" Vol LXXXIII, No 2, New data supporting the essential sime the denaturation process of protein unditions were obtained by immunochem makes of Biochem, Acad Sci Ukrainian Signification of egg albumin by such an denaturation of egg albumin by such as alc, salicylate rhodsnide, and copper prepara are obtained which by antigenic contrast sharply with natural albumin, similar among themselves. A fundamental in the macrostructure of the protein mits denaturation takes place, but the compan (apparently due to unstability of the transformation attests to that folding of polypeptide chains in pendent. Service of the transformation attests to that folding of polypeptide chains in pendent.	
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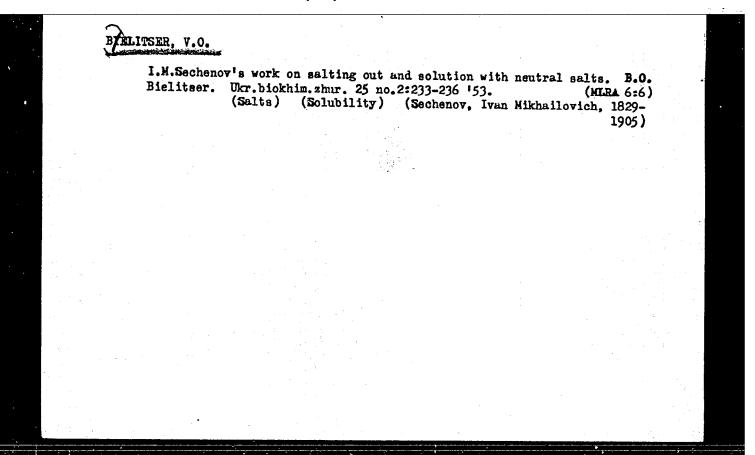
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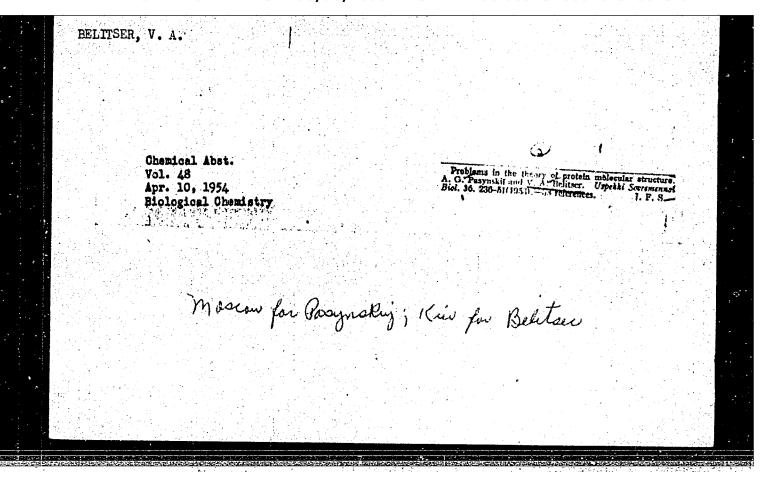
The tooth phosphatase in the caries picture (Russian text) STOMATOLOGIJA 1953, 5 (11-16)

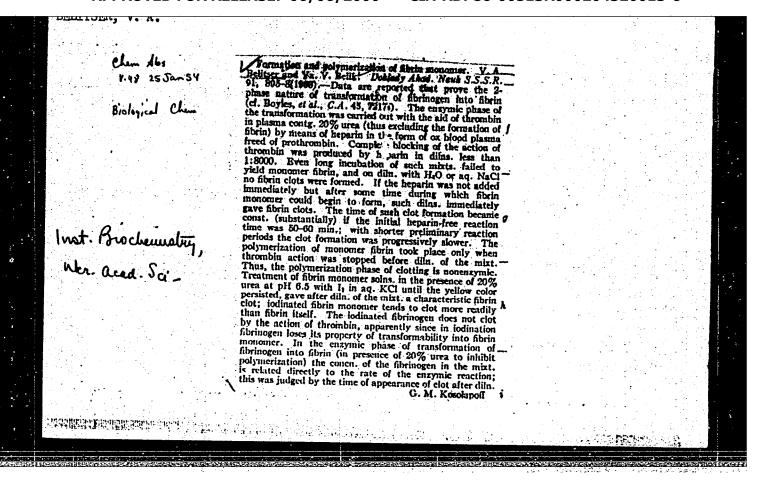
A comparison between the activity of chloroform extracts of tooth phosphatase and bone phosphatase from rabbits and pigeons is reported. The bone phosphatase appeared to be 4 times as active as the tooth phosphatase. In healthy intact teeth of adult humans the mean activity was found to be 180 (expressed as inorg. P splitt off by 1 g. material in 24 hr. from glycerophosphate) while the average activity of carious teeth from this group only amounted to 48, probably owing to less vitality of the pulps. In teeth from young people andchildren the average value for intact teeth was 115, but that for carious ones 276.

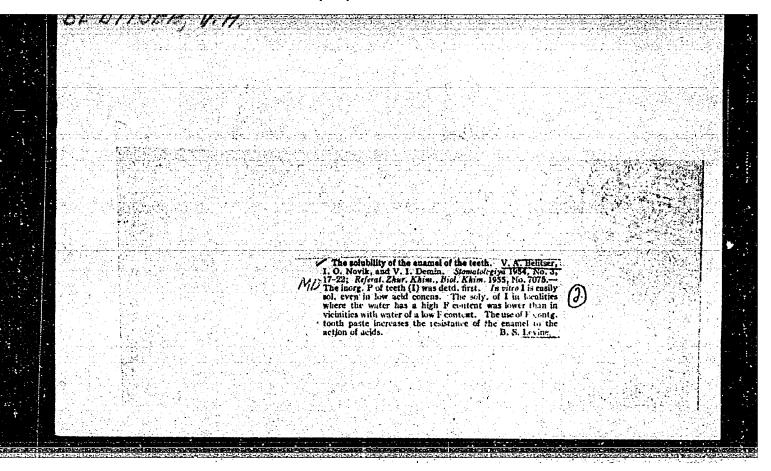
Eggers Lura-Holback

SO: EXERPTA MEDICA, Section II Vol. 7 No. 11

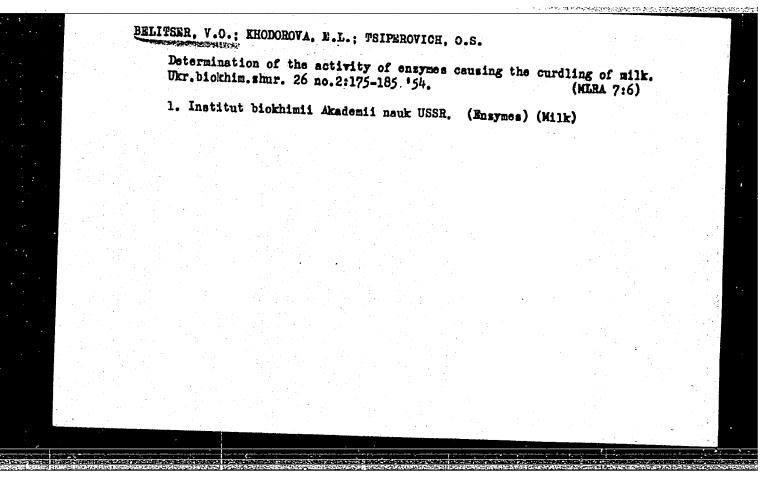


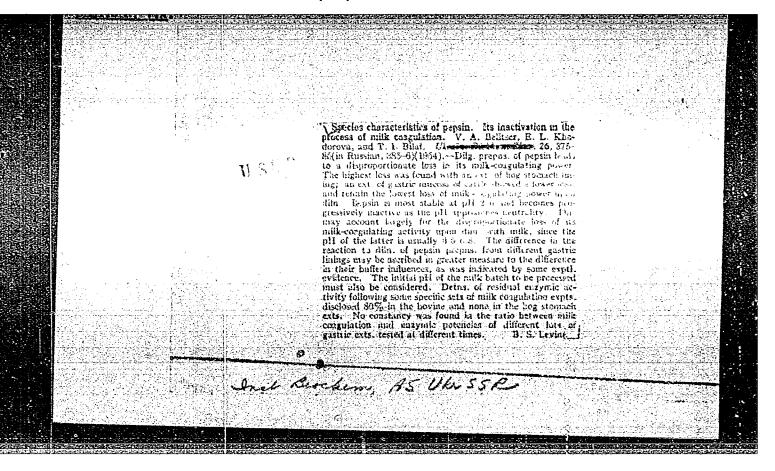






"Chemistry and biochemistry of proteins." F. Gaurovitts. Re V.A. Belitser. Ukr. biokhim. shur. 26 no.1:96-103 '54. (Proteins) (Gaurovitts, F						eviewed by	
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BELITSER, V. A. and PASYNSKIY, A. G.

"The Sturcture of the Protein Molecule", <u>Uspekhi Sovremennov Biologii</u>, Vol. 37, No 3, pp 358-360, 1954.

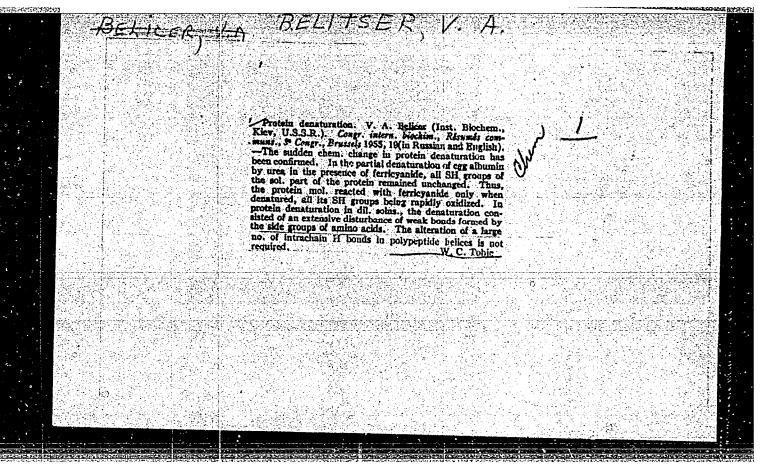
SO: Translation-M-695, 19 Aug 1955.

GULTY, M.F., redaktor; BELITSER, V.A., redaktor; SNEZHIN, M.I., redaktor; SIVACHERKO, IG.A., tekhnicheskiy redaktor.

[Proteins, their special properties] Soveshchaniia po probleme belka, Kiev, 1954. Belki, ikh spetsificheskie svoistva; trudy soveshchaniia. Kiev, Izd-vo Akad.nauk USSR, 1955. 246 p. (MLRA 8:10)

1. Chlen-korrespondent AN USSR (for Gulyy, Belitser).

(Proteins)



BELITSER, V.O.; BELIK, Ya.V.

Role of sulfhydryl groups in the formation of fibrin. Ukr.bio-khim.shur. 27 no.2:161-167 '55. (MLRA 8:10)

1. Institut biokhimii Akademii nauk Ukrains'koi RSR, Kiiv. (FIBRIN,

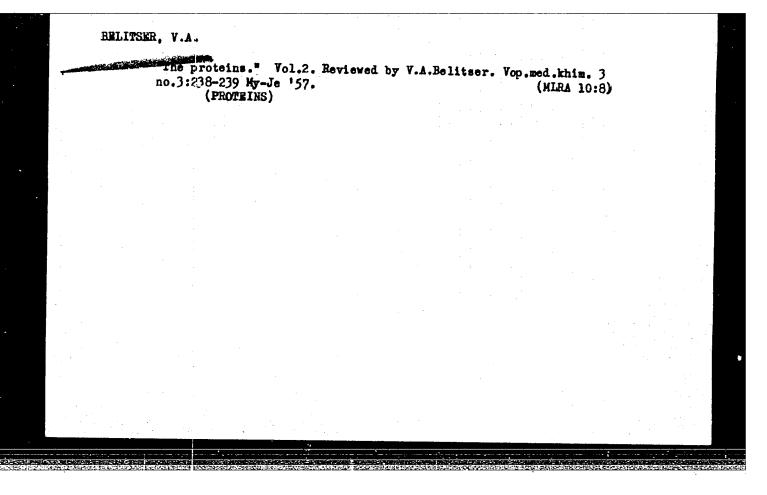
form., role of sulfhydryl cpds)
(SULFHYDHYL COMPOUNDS, metabolism,
in fibrin form)

SECOND International Conference on Lipids and the Third International Biochemical Congress. Vop.med.khim. 2 no.1:73-79 Ja-F 156.

(GHENT-LIPIDS--CONGRESSES)

(BRUSSELS--BIOCHEMISTRY--CONGRESSES)

(HIRA 9:9)



BELITSER, V.A.; SAYEMKO, T.V.

Refect of acid and alkali on egg albumin [with summary in English]

Biokhimila 22 no.1/2:274-282 Ja-F '57. (MLRA 10:7)

1. Institut biokhimil Akademil nauk Ukrainskoy SSR, Kiyev.

(EGG WHITE,

eff. of acids & alkali (Rus))

Salting out egg albumin in an acidic medium [with aummary in English]
Ukr.biokhim.zhur. 29 no.3:347-353 '57. (MIRA 10:9)

1. Institut biokhimii Akademii nauk Ukrainakoy SSR, Kiyov.
(ALBUMINS) (PRECIPITATION (CHEMISTRY))

AUTHORS:

BELITSER, V. A., Kotkova, K. I., Lobachevskaya, O.V. 20-3-28/46
Tsikalovskaya, G. N.

TITLE:

On the Properties and the Rôle Played by the Disulphide Groups in Serum Albumin (O svoystvakh i znachenii disul'fidnykh grupp v syvorotochnom al'bumine)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 3, pp. 451-454 (USUR)

ABSTRACT:

The subject of this treatise was the study of the reactivity of disulphide compositions in serum albumin and the dependence of several protein properties on the decomposition and recreation of these compositions. Crystalline albumin from horse blood scrum was used for this purpose. Besides the native kind of protein, the one denatured by urea was examined too (10 mol. urea per 1 liter of protein solution of 6 mol. potassium thiocyanate). The reaction of decomposition by sodium bisulphide was carried out in presence of acetate buffers. The tests by the authors have shown that the reaction of decomposition of the disulphide groups of serum albumin by bi-suphide proceeds slowly at the beginning for accelerating substantially thereupon. The reaction is accompanied by a general denaturization of the structure. The disuphide groups react only slowly in the initial protein. Due to the decomposition of several disulphide compositions in the molecule, a destabilization of the macro-structure takes place. Further the molecule suffers

Card 1/3

On the Properties and the Rôle Played by the Disulphide Groups 20-3-28/46 In Ser um Albumin.

a denaturization-convertion due to which a great number of its disulphide groups are decomposed by bisulphide. In order to verify this explanation the authors previously denaturized the urea and left it untouched during 30 minutes at room temperature. After the addition of bisulphide the reaction set in immediately at full maximum velocity. The number of disulphide groups capable of reaction is not constant in serum albumin. It increases by adding of urea, as well as by the use of newly prepared sodium bisulphide. Under favorable conditions 100% of the groups enter the reaction. The said reaction is partly reversible. By removing the bisulphide by dialysis or by separating the protein from the composition of reaction, a considerable portion of the disulphide groups is newly formed. 20 to 30 % of the sulphydryl-groups, however, are conserved. The reaction with bisulphide remains irreversible for them. The are incapable of a reaction with their partners, viz. the zystein-sulphon groups. This unequal behavior of the disulphide groups is known for the keratin of the wool. It should be explained by the steric factors. After having used NaCH instead of KCNS as denaturized matter, the authors obtained analogous results. The variation of the macro-structure, however remained irreversible. The egg-albumin exceeds serum albumin clearly by the solidity of the macro-structure, inspite of the

Card 2/3

On the Properties and the Rôle Played by the Disulphide Groups 20-3-28/46 in Serum Albumin.

presence of only 1 disulphide-composition compared with 17 in serum albumin. Unexpected results were obtained by a verification of the chemically immune specifity of serum albumin which after decomposition of the disulphide compositions was dialysed. The ring-precipitation-reaction ("reaktsiya kol'tsepretsipitatsii") between this protein and serum of rabbit was positive and is not inferior to that with native protein in respect to intensity. The irreversible conversion did not act on those sections of the macro-structure which determine the antigen properties of serum albumin. Concluding, several statements made by Gorbacheva, Bresler and Frenkel', in a paper which was published short time prior to the impression, of this paper are commented in negative sense. There are 1 figures, 1 table, and 10 references, 5 of which are Slavic.

ASSOCIATION:

Institute for Biology of AN Ukrainian SSR (Institut biologii AN USSR) Emost probably the affil octally reads Inst Beecken ASUESSK)

PRESENTED:

June 17, 1957, by A. V. Palladin, Academician

SUBMITTED:

June 1, 1957

AVAILABLE:

Library of Congress

Card 3/3

BELITSER, V. A.

"Distinguish denaturation from some other slight modifications of structure"

report presented at the 10th All-Union Conf. on Highly Molecular Compounds, Biologically Active Polymer Compounds, Moscow, 11-13 June 1958. (Vest. Ak Mank SSSR, 1958, No. 9, pp. 111-113)

BELITSER, V.A., prof. (Kiyev); PETISOV, N.V., prof. (Kiyev); DEMIE, V.I., kand.biol.nank (Kiyev); POKOTILO, Ye.D., kand.med.nank (Kiyev)

Significance of the complex of B vitamins in the treatment of paradentosis. Probl.ston. 4:237-240 '58. (MIRA 13:6)

(VITAMIES-B. ETC.—THERAPEUTIC USE)

(GUMS--DISEASES)

BELITSER, V.A., [BIRLITSER, V.O.], KHODOROVA, Ye.L. [KHODOROVA, IE,L.]
SERVISKAYA, A.A. [SERHIS'KA, A.O.]

Method of obtaining pensinogen [with summary in English].
Ukr.biokhim.shur. 30 no.2:179-186 58 (MIRA 11:6)

1. Institut biokhimii AN URSR. Kiiv.
(PEPSINOGEN)
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204320013-6"

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	• •	Serum preparations with a 30 no.5:776-793 '58	attenuated specificity. I	Ukr.biokhim.shur. (MIRA 11:12)		
		1. Institut biokhimii Al (SERUM)	N USSR, Kiyev.			
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HELITSE2, Tladimir Aleksandrovich [Bielitser, V.O.], akademik;
KOROTKORUCHKO, V.P., doktor biolog.nauk, glavnyy red.

[Protein, the basis of life] Bilok - osnova shyttia.

Kyiv, 1959. 28 p. (Toverystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR, Ser.5, no.21)

1. Akademiya nauk USSR (for Belitser).

(PROTEIN METABOLISM)

BELITSER, V.A. [Bielitser, V.O.]; VARETSKAYA, T.V. [Varets'ka, T.V.]

Binding of dyes by proteins in native, denatured and chemically modified states. Ukr.biokhim.zhur. 31 no.2:171-185 '59.

(HIRA 12:6)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.E., Kiyev.

(PROTEINS) (STAINS AND STAINING (MICROSCOPY))

BELITSER, V.O. [Bielitzer, V.O.]; LOBACHEVSKAYA, O.V. [Lobachevs'ka, O.V.]

Amperometric titration of mercapto groups with silver nitrate. Ukr. biokhim.shur. 31 no.4:579-588 159. (MIRA 13:1)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.

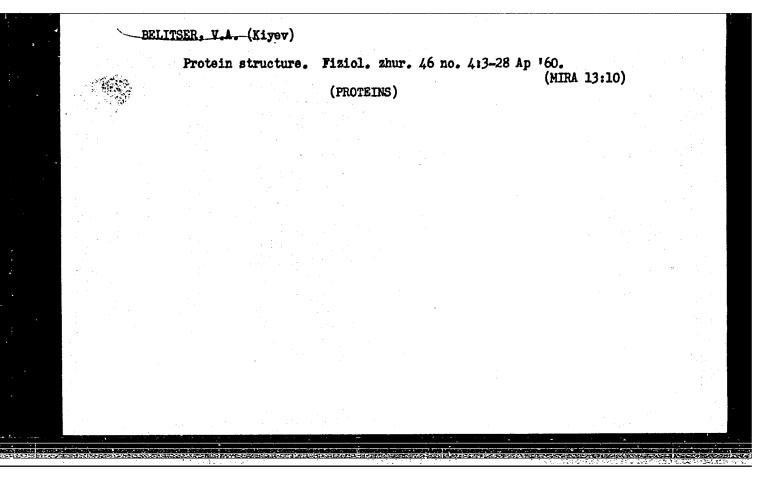
(CONDUCTOMETRIC ANALYSIS) (MERCAPTO GROUP) (SILVER NITRATE)

•	Symposium on the topic "Structure and biological protein molecule." Vest.AN SSSR 30 no.12:84-85 D	functions of the '60. (MIRA 13:12)	
	1. AN USSR. (PROTEINS)		
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BELITSER, V.A. [Bielitser, V.O.]; KOTKOVA, K.I.

Photoexidation of fibrinogen and fibrin monomer. Ukr. biokhim. shur. 32 no.1:3-12 '60. (MIRA 13:6)

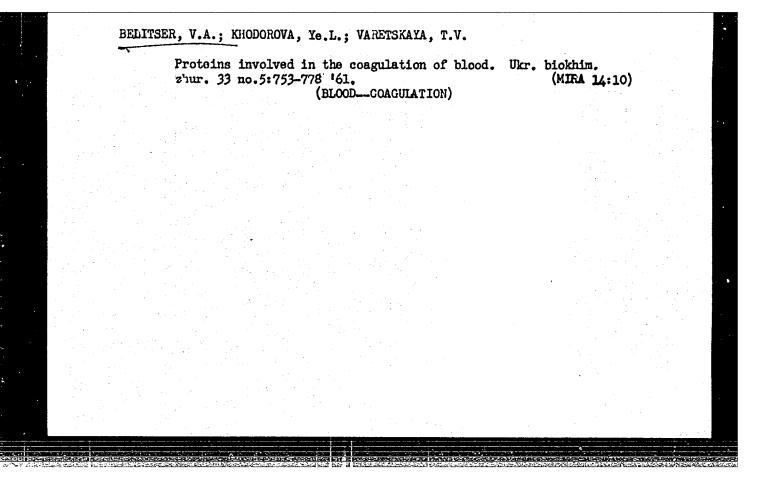
1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.
(FIBRIN) (FIBRINGEN)

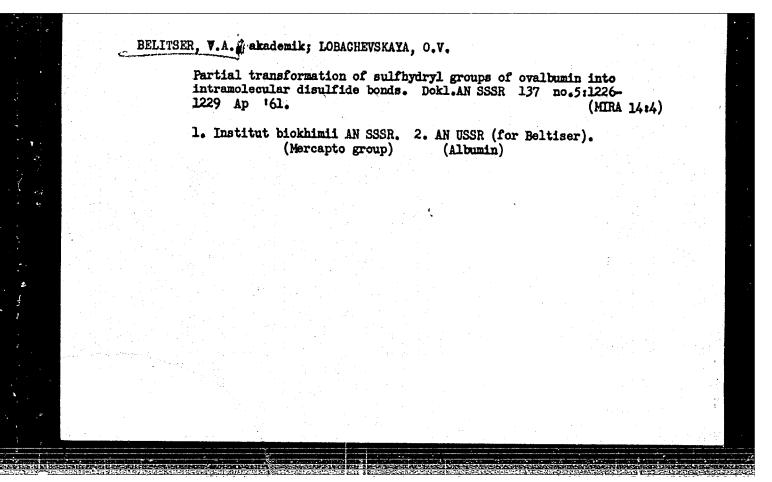


BELITSER, V. L., LOBACHEVSKAYA, O. 7. (USER)

"Reactivity of SH-Groups in Ovalbumin, Suspended in Polar and Non-Polar Media."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961





BELITSER, V.A. [Bielitser, V.O.]; KHODOROVA, Ye.L. [Khodorova, IE.L.];
LOSEVA, A.L. [Losieva, A.L.]

Simple method for obtaining pure prothrombin from the blood plasma of cattle. Ukr. biokhim. zhur. 33 no.4:499-504 '61. (MIRA 15:6)

I. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev.

(PROTHROMBIN)
(BLOOD PLASMA)

BELITSER, V.A. (Kiyev)

Macrostructure and denaturation of proteins. Ukr. biokhim. zhur. 34 no.2:290-320 *62. (MIRA 16:11)

GULYY, Maksim Fedotovich; BELITSER, V.A., arademik, otv. red.;
YANKOVSKAYA, Z.B., red.; KADASHEVICH, O.A., tekhn. red.

[Biosynthesis of protein] Biosintez belka. Kiev, Izdavo
Akad. nauk USSR, 1963. 202 p. (MIRA 1675)

1. Akademiya nsuk Ukr.SSR (for Belitser).

(Proteins) (Biosynthesis)

MEL'NICHUK, Yu.P. [Mel'nychuk, IU.P.]; BELITSER, V.A. [Bielitser, V.O.]

Splitting of fibrogen with trypsin. Isolation and characteristics of the products of its hydrolysis. Ukr. biokhim. zhur. 35 no.4:496-506 163. (MIRA 17:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.

ORLOVSKAYA, N.N. [Orlovs'ka, N.M.]; LOSEVA, A.L. [Lesieva, A.L.]; BELITSER, V.A. [Bielitser, V.O.]

Modification of the Phenylisothicogenate method for the determination of the N-terminal sequence of amino acids in proteins. Ukr. bickhim. zhur. 35 no.41593-605 '63. (MIRA 17:11)

l. Institute of Biochemistry of the Academy of Sciences of the Ukrainian $S_\bullet S_\bullet R_{\bullet,0}$ Kiyev.

VARETSKAYA, T.V. [Varets'ka, T.V.]; GRYAZNOKHINA, Ye.A. [Eciaznukhina, K.O.]; BELITSER, V.A. [Bielitser, V.O.]

Kinetics of the conversion of fibrinogen to fibrin. Ukr. bickhim. zhur. 36 no.1:3-13 164. (MIRA 17:12)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Klyev.

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ORLOVSKAY	A, N.N.; BELITSER, V.A.	
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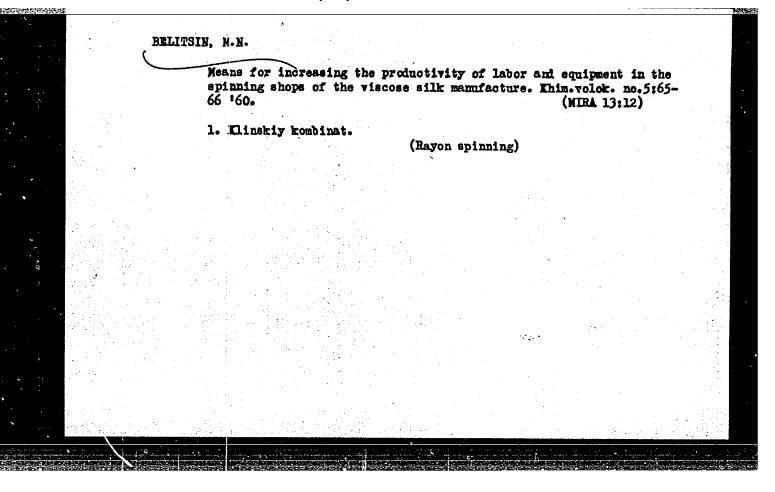
1. Klinskiy kombinat iskusstvennogo kombinata.
(Textile fibers, Synthetic—Congresses)

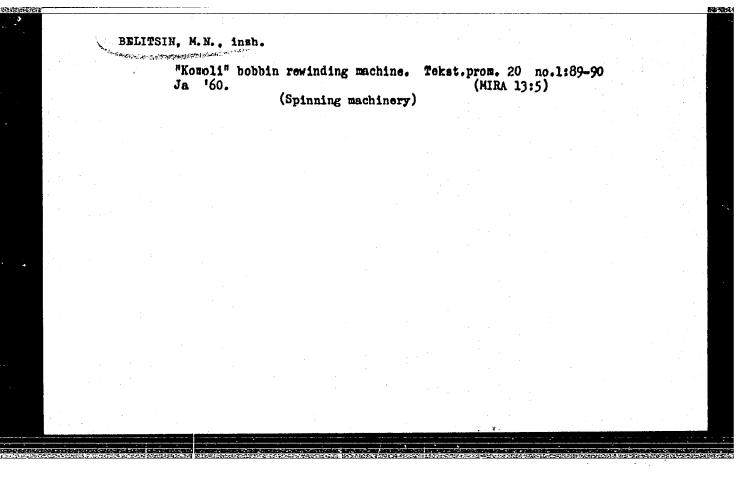
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VLADIMIROV, Boris Mikhaylovich; HYEAKOV, Vladimir Mikhaylovich; SAMOYLOV,

Ivan Alekseyevich; BELITSIB, M.M., Aloktor tekhn.anuk, red.;

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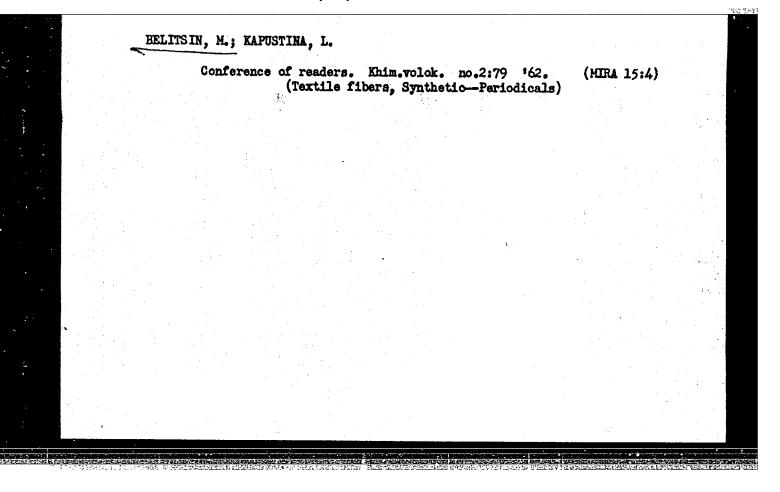
1. Klinskiy kombinat.

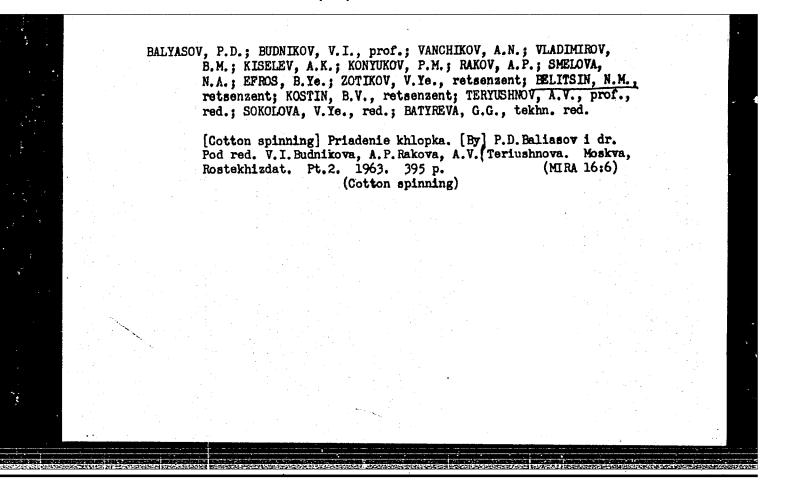
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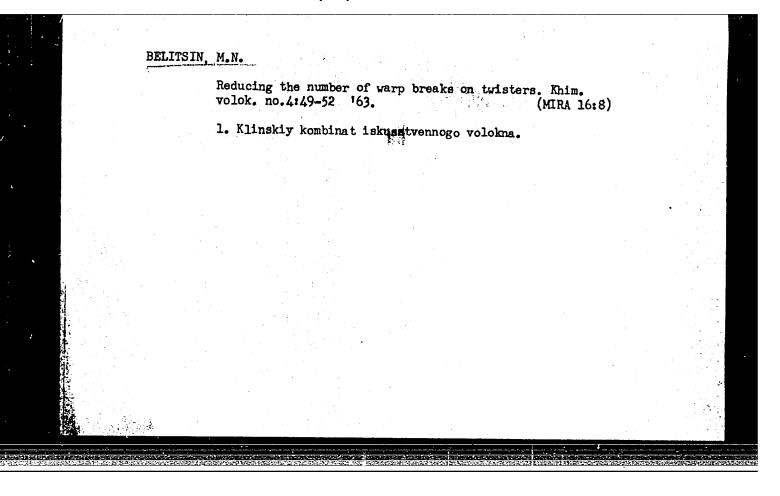




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		1. Klinskiy kombinat. (Textile fibers, SyntheticTesting)		, i
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Femperature effect on the mechanical properties of synthetic fibers.

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(SOILS—ANALYSIS) (TRACE ELEMENTS)

(SPECTRUM ANALYSIS)

PILIKOVSKIY, Mikhail Yakovlevich; RYBAKOV, Vladimir Mikhaylovich; UKRAINSKIY, E.M., retsenzent; BELITSINA, N.M., prof., doktor tekhn. nauk, red.; SOKOLOVA, V.Ye., red.; SHVETSOV, S.V., tekhn. red.

[Processing of synthetic fibers by cotton-spinning machinery]
Pererabotka khimicheskikh volokon na khlopkopriadil'nom oborudovanii. Pod red. N.M.Belitsina. Moskva, Izd-vo nauchnotekhn. lit-ry RSFSR, 1961. 166 p. (MIRA 15:1)

(Textile fibers, Synthetic)
(Spinning machinery)

17(4,10)

AUTHORS:

SOV/20-126-1-52/62 Shapiro, N. I., Bocharova, Ye. M., Belitsina, N. V.

TITLE:

On the "Oxygen-effect" Observed in the Case of Radiation Injuries in Vegetable and Animal Cells (O "kislorodnom effekte", nablyudayemom pri luchevom povrezhdenii rastitel'nykh i

zhivotnykh kletok)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 191-194 (USSR)

ABSTRACT:

One of the most universal radiobiological laws is the intensification of the ionizing effect in media containing oxygen. The "oxygen-effect" is observed in a relatively small specific ionization. According to numerous statements, it is related to the mechanism of the radiolysis of water (Ref 1). According to the latest investigations, the effect mentioned is much more complicated, since oxygen increases the damage, which has nothing to do with the radiolysis of water (Refs 2-11). Despite the data already known more facts are necessary to explain the "effect". The present article is meant to prove the "effect" in 2 completely different types of cells, where it is in no relation to the radiolysis of water. The objects used were

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barley seeds of the type "Wiener", and cells of the

On the "Oxygen-effect" Observed in the Case of Radiation Injuries in Vegetable

ascitic carcinoma of Ehrlich in mice. The chromosome aberration served as an index of the damage. The total dose of radiation amounted to 10000 r for barley, with an intenstiy of 515 r/min. Variations of the experiment were: I. 10 kr, II. 10 kr, and besides for 30 min 02 was blown through the water in which afterwards the seeds were soaked. III. - as II, but 4.10⁻³ m sodium metabisulphite solved in water beforehand. IV. - as III, but without 02. There were also 3 control variants. A summary of the results is given in table 1. Therefrom it may be seen that the frequency of the developing chromosome disturbance increases rapidly in the case of 0, treatment immediately before the seeds are exposed to ray treatment. The result achieved by the introduction of sodium metabisulphite shows that the generally comprehensible radiation-effect also includes that part of the damage of the object which, although due to the O2-influence, has nothing to do with the radiolysis

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On the "Oxygen-effect" Observed in the Case of Radiation Injuries in Vegetable

of water. This participation can be estimated to be about one third. The cells of the ascitic carcinoma were studied in vitro in the following variants: I. radiation in the air, II. the same under the conditions of a vacuum, III. - as in II, followed by 2 hours in the vacuum. The results achieved (Table 2) prove the bibliographical data on the existence of an "oxygeneffect" (Ref 14). Analogous to barley in this case it was not connected with the radiolysis of water. This evidence of the mentioned effect in 2 objects systematically so different from each other, proves its frequency in radiobiological reactions. Its physico-chemical mechanism deserves further investigations. There are 2 tables and 14 references, 1 of which is Soviet.

ASSOCIATION:

Institut biologicheskoy fiziki Akademii nauk SSSR (Institute of Biological Physics of the Academy of Sciences, USSR)

PRESENTED:

February 2, 1959, by A. L. Kursanov, Academician

SUBMITTED: Card 3/3

February 2, 1959