

BABOSHIN, V.A.; BOROVIKOV, P.P.; ZAKHARCHENKO, A.I.; IVANOV, A.A.; NIKANOROV,
A.S.; NIKITIN, V.D.; RYTSK, Yu.Ye.; SMIRNOVA, V.S.; SOKOLOV, Ya.N.;
SOLOV'YEV, A.T.; TSEKHOMSKIY, A.M.

In memory of Daniil Timofeevich Misharev. Trudy VSEGEI 108:189-191
'64. (MIRA 18:2)

ACCESSION NR: AR 4015134

S/0124/63/000/012/B120/B120

SOURCE: RZh. Mekhankika, Abs. 12B741

AUTHOR: Baboshin, V. M.

TITLE: Frictional resistance in the motion of a gas-liquid fuel mixture through a round pipe

CITED SOURCE: Sb. nauch. tr. Vses. n.-i. in-t metallurg. teplotekhn., no. 9, 1963, 246-253

TOPIC TAGS: fluid flow, frictional resistance, gas-liquid mixture, fuel mixture flow

TRANSLATION: The author gives results of the treatment of experimental data obtained for the motion through round pipes of fuel oil mixed with water vapor or heated compressed air and compares them with data obtained in other studies. The state of mixture flow in these experiments may be considered straight and axially-symmetrical. The Reynolds number for the liquid phase did not exceed 306. The frictional pressure losses were used to compute the coefficient of resistance of

†
Card 1/2

ACCESSION NR: AR4015134

the two-phase flow. The thermal state of the mixture was also determined. On the basis of the experimental data, the author shows the possibility of using the method of computing the pressure losses in a two-phase flow with a laminary liquid layer for conditions of high-velocity mixture flow through thermally-insulated small-diameter pipes. He obtains a formula for the approximate computation of the frictional resistance for the motion of steam- or air-fuel oil emulsions through small-diameter pipes. Yu.A. Chismadzhev.

DATE ACQ: 31Dec63

SUB CODE: PH

ENCL: 00

Card 2/2

BABOSHIN, V.M.

Calculating systems of feeding emulsified fuel to burners.
Izv. vys. ucheb. zav.; chern. met. 7 no.2:157-163 '64.
(MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgi-
cheskoy teplotekhniki.

BABOSHIN, V.M., inzh.

Study of the effect of the coefficient of excess air on the
flame length of emulsion burners. Teploenergetika 10 no.10:
51-56 0'63 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgi-
cheskoy teplotekhniki.

DURNOV, V.K.; BABUSHKIN, N.M.; PUSHKASH, I.I.; Prinimali uchastiye:
KOLMOGOPOV, A.V.; KLEPTSIN, V.G.; MASLENNIKOVA, E.G.;
CORYACHEVA, A.V.; BARAKHVESTOV, V.S.; RASIN, B.S.; ZEMLYAKOV,
A.A.; BABOSHINA, G.V.

Distribution of the temperature of the hot blast in the
tuyere passage of the blast furnace. Stal' 25 no.3:205-209
Mr '65. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurg-
icheskoy teplotekhniki i Nizhne-Tagil'skiy metallurgicheskiy
kombinat (for Durnov, Babushkin, Pushkash).

38146. BABOSHINA, N. A. AND TSION, A. A.

Bor'ba s krasnukhoy i rzhavchinoy kishchnogo tovara. Trudy
Azerbaydzh. Nauch-issled. Vet. opyt. stantsii, t. III, 1949, s. 161-69. -
Na azerbaydzh, i rus. yaz. - Bibliogr: s. 166

38241. BABOSHINA, N. A.

Bakteritsidnyye svoystva neftenoliya, izgo tovlennogo khimicheskim zavodom mestnoy promyshlennosti Bakgorispolkoma. Trudy Azerbaydzh. Nauch.-issled. vet. opyt. stantsii, t. III, 1949, s. 170-74. - Na azerbaydzh. yaz. - Rezyume na rus. yaz.

BAPOSHINA, N. A.

22597. BAPOSHINA, N. A. Primenenie atss pri teylerioze krupnogo rogatogo skota. avtoreferat. Veterinariya, 1949, No. 7, S.-9

SO: LETOPIS' No. 30, 1949

BABOSHINA N.A.

27269

Ali Zadye, M.A. I Shmulyevich, A. I. Khmiotyerapiya Tyeylyerioza Krupnogo Rogatogo Skota
Flavarginom. Vyetyerinariya, 1949 No. 9, S. 27-29.

SO: LETOPIS NO. 34

С А Б А О С Ш И Н А , Н . А .

11 H

Chemotherapy of theileriosis with aminoacriquine. A. I. Shmulevich, N. N. Baboshina, and M. A. Ali-Zade. *Veterinariya* 28, No. 8: 31-3 (1951).—7-Aminoacriquine (A-5) is an effective agent against infections by *Theileria annulata* in cattle. The recoveries reach 85% and the drug is harmless to the animals. The satisfactory dosage for calves is about 0.0035 g./kg. intravenously as 1-2% soln., best introduced in 2 doses spaced by 48-72 hrs. G. M. Kosolapoff

BABOSHINA, N. A.

"The Clinical Manifestations and Therapy of Theileriosis of Cattle in the Azerbaydzhan SSR." Cand Vet Sci, Yerevan Zooveterinary Inst, (Yerevan?), 19 January 1955. (K, 6 Jan 55)

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

BABOSHINA, N. A.

USSR / Diseases of Farm Animals. Diseases Caused by Protozoa

R

Abs Jour: Ref Zhur-Biologiya, No 16, 1958, 74218

Author : ~~Baboshina, N. A.~~

Inst : Azerbayzhan Scientific-Research Veterinary Experimental Station

Title : Comparative Evaluation of Chemical-Therapeutic Drugs Used During Theileriasis in Cattle

Orig Pub: Tr. Azerb. n.-i. vet. opytn. st., 1956 (1957), 5, 36-44

Abstract: Tripaflavine, acaprene, arrhenal, neganin, euflavin, novoplasmin, hemosporidine, proflavine-dichlorhydrate, proflavine-lactate, thiagen, injection acrichine, and bigumal were tested. All of these

Card 1/2

TYCHINO, N.Ya.; BABOSHINA, O.A.

Hydrogeological characteristics of the oil and gas horizons of
the Irkutsk amphitheater. Biul.nauch.-tekhn.inform VIMS no.1:26-
29 '63. (MIRA 18:2)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazve-
dochnyy institut, Leningrad.

PRUZHANSKIY, Konstantin Grigor'yevich; BABOSHKO, Grigoriy Romanovich;
SVET, Ye.B., red.; KUZNETSOVA, O.Ya., tekhn.red.

[Protecting the area of earthwork from freezing] Predokhra-
nenie zemliarykh zaboev ot promerzaniia. Cheliabinsk, Che-
liabinskoe knizhnoe izd-vo, 1963. 35 p. (MIRA 17:3)

BABOSHO, V.K., inzh.; CHARKIN, B.V., inzh.

Thermostatic and impulse types of condensation chambers. Sudostroenie
24 no.8:67-68 Ag '58. (MIRA 11:10)
(Consensers (Steam)) (Ships--Heating and ventilation)

BABOSOV, Ya.M.

Unity of analysis and synthesis in I.P.Pavlov's teaching. Vestsi
AN BSSR. Ser. bial. nav. no.2:46-58 '61. (MIRA 14:7)
(PAVLOV, IVAN PETROVICH, 1849-1936)
(BIOLOGY--PHILOSOPHY)

BABOSOV, Yevgeniy Mikhaylovich, kand. filos. nauk; STEPANOV, V.I.,
doktor filos. nauk, prof., nauchnyy red.; PSHONIK, B.M., red.;
ZIMA, Ye.G., tekhn. red.

[The new man is trained in collective work]V kollektivnom trude vospityvaetsia novyi chelovek. Minsk, 1962. 31 p. (Obshchestvo po rasprostraneniю politicheskikh i nauchnykh znaniy Belorusskoi SSR, no.12) (MIRA 15:9)
(Labor and laboring classes)

ISAGULYANTS, V.I.; MEDZYKHOVSKAYA, N.A.; SHISHKOV, V.P.; BABOTINA, V.P.

Synthesis and properties of the vinyl ether of 2-decahydro-2-naphthol.
Doklady Akad. Nauk S.S.S.R. 85, 329-30 '52. (MLRA 5:8)
(CA 47 no.15:7470 '53)

BABOTNOV, T. A.

"Viable seeds in the soils of meadow cenosites (?)" (p. 551) by T. A. Babotnov (Moscow)

SO: Progress of Contemporary Biology Vol. 26, No. 1 (4) Jul.-Aug. 1948

BABOTNOV, T.A.

Some data on experimental study of syngenesia in meadows. Biol.
MOIP. Otd.biol. 65 no.3:63-76 My-Je '60. (MIRA 13:7)
(OKA VALLEY--PASTURES AND MEADOWS) (PHYTOSOCIOLOGY)

BABOV, D. M.

Babov, D. M.

"The dynamics of change in the agglutinability of sanitary-indicative microorganisms as they remain in an aqueous medium." Odessa State Medicat Inst imeni I. P. Pirogov (sic). Odessa, 1956. (Dissertation for the Degree of Candidate in Medical Sciences).

Knizhnaya Letopis'
No. 21, 1956. Moscos.

672004, 10
NEDIK, V.V., professor, doktor tekhnicheskikh nauk; NEYKOV, O.D., gornyy inzhener; SHEKHETIN, A.V., kandidat tekhnicheskikh nauk; BABOV, D.M., kandidat meditsinskikh nauk.

Mine dust removal with self-cleaning oil filters. Gor.zhur. no.6:66-69
Je '57. (MLRA 10:8)

1.Krivorozhskiy gubernodnyy institut i Krivorozhskiy institut
gizheny truda.

(Mine dusts) (Filters and filtration)

LEVIN, A.I.; BABOV, D.M.; SHELEKETIN, A.V.

"Pneumoconiosis"; bibliographic index to Russian literature from
1918-1955. Reviewed by A.I.Levin, D.M.Babov, A.V.Sheleketin. Gig.
truda i prof.zab. 1 no.5:62-63 S-O '57. (MIRA 10:11)
(BIBLIOGRAPHY--LUNGS--DUST DISEASES)

BABOV, D.M., SAMOYLOV, A.P., SHEVCHENKO, A.M.

Conference on the problem "Silicosis and its control", devoted
to the 40th anniversary of the Ukrainina S.S.R. Gig. truda i
prof. zab. 2 no.6:70-71 N-D '58 (MIRA 11:12)
(LUNGS--DUST DISEASES)

BABOV, D.M.

Duration of para properties of intestinal bacteria in aqueous medium.
Gig. i san. 24 no.2:84-85 F '59. (MIRA 12:3)

1. Iz kafedry obshchey gigiyeny Odesskogo meditsinskogo instituta.
(ESCHERICHIA COLI
para-property preserv. in aqueous medium (Rus))

BABOV, D.M., dotsent; NADVORNEY, N.N.; CHUSOV, Yu.N.

Detection and survival of pathogenic serotypes of Escherichia coli in sewage and in soil. Vrach. delo no. 8:133-134 Ag'63.
(MIRA 16:9)

1. Kafedra obshechey gigiyeny (zav. - prof. A.F.Stoyanovskiy)
Odesskogo meditsinskogo instituta.
(ESCHERICHIA COLI)

BABOV, D.M., dotsent (Odessa)

Purification of waste waters during their passage through canals. Vod.
i san. tekh. no.9:28-29 S '63. (MIRA 17:2)

BABOV, Kiril

Aiding the learning of foreign languages. Radio y televiziia 13
no.10:318 '64.

BABOVIC, D.

The podzol soil on Northwestern Metohija [Yugoslavia]. Milivoje Cirić, Milutin Pančević, and Dragoljub Babović (Inst. Agr. Research, Peć, Yugoslavia). *Zemljopisna Biljka* 1, 115-34(1952)(English summary).—The soil investigated here changes its reaction, due to the varying chem. compn. of the irrigation water, and under the influence of rain. The total amt. of adsorbed bases is negligible, Ca^{++} predominates greatly among them. The soil ingredients are strongly washed out, and there is very little basic satn. and a high hydrolytic acidity, which makes liming a necessity. The free Al^{+++} present causes the increase of substitutional acidity and binds the PO_4^{---} as $AlPO_4$; thus, if used for agricultural purposes, these soils need heavy fertilizing, especially with superphosphates. W. J.

3

BABOVIC, D.

Results of tests in calcification, humusation, lime fertilization, compost, and mineral fertilizers 37.

(GLASNIK, Vol. 4, No. 7/8, July/Aug. 1956 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

BABOVIC, Vladimir, inz. (Beograd, Proleterskih brigada 25)

Elements of galvanic fuel. Tehnika Jug 18 no. 8:
Supplement: Elektrotehnika 12 no. 8: 1508-1519 Ag '63.

USSR/Soil Science. Organic Fertilizers.

J-4

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24770.

Author : Zalys, A.; Tamulaityte, E.; Dabraitis, V.

Inst :

Title : Utilization of Peat Fertilizers and Their Preparation
in the Summer.

Orig Pub: Soc. zemes ukis, 1956, No 6, 5-12.

Abstract: No abstract.

Card : 1/1

BABRAUSKAS, V.

A case of combined tubal and uterine pregnancy. Sveik. apsaug.
8 no.2:29-30 F'63.

1. Skuodo rajono ligonine. Vyr. gyd. - A.Matulevicius.

*

REF ID: A66013473 (A) SOURCE CODE: UR/0374/66/000/002/0245/0252

AUTHOR: Kalnin', M. M.; Karlivan, V. P.; Babre, Ye. Ya.; Shkeatere, I. G.

ORG: Riga Polytechnic Institute (Rizhskiy politekhnicheskiy institut)

TITLE: Adhesion of filled polyethylene-base compositions to steel

SOURCE: Mekhanika polimerov, no. 2, 1966, 245-252

TOPIC TAGS: adhesion, adhesive bonding, polyethylene, filler, steel

ABSTRACT: The effect of a series of fillers on the adhesion of polyethylene to steel during direct thermal bonding of a monolithic polymeric adhesive to a steel substrate was studied. P-20-10-V high-pressure and P-4007 low-pressure polyethylene and St3 steel were employed. The fillers were ground kaolin, talc, quartz sand, graphite, and asbestos. The strength of the adhesive bond of filled compositions of both types of polyethylene was found to increase with rising filler content up to 8-10% by volume. The character of the rupture of adhesive bonds with increasing filler content changes from adhesive to mixed, then to cohesive. A further increase in filler content weakens the adhesion. The adhesion of filler compositions and of the pure polymer increases with the degree of purity and specific surface of the steel. It also increases with rising temperature and duration of the bonding process in the range from 130° to 280°C and from 6 to 300 min. The adhesion of filled compositions is always strong-

UDC: 678:01.58

Card 1/2

L 26113-06

ACC NR: AP6013473

er than that of the pure polymer. Orig. art. has: 6 figures, 5 tables.

SUB CODE: 11/

SUBM DATE: 06Oct65/

ORIG REF: 008/

OTH REF: 006

Card 2/2

BABRENOVIC, B.; VICIC, D.

Demagnetizers. p. 1416. Vol. 9, No. 9, 1954.
TEHNIKA. Beograd, Yugoslavia.

SOURCE: East European Accessions List, (KEAL) Library
of Congress, Vol. 5, No. 8, August, 1956.

BABRIS, G.

Reform of February 19, 1861 and the peasant uprising in Latgale.
Vestis Latv ak no.6:3-13 '61.

1. Latvijas PSR Zinatnu akademijs, Vestures instituts.

(Latgale--Peasant uprisings)

BABRIS, I.

Treatment of gastrointestinal haemorrhages at hospitals of the
Latvian S.S.R. Izv. AN Latv.SSR no.1:76-80 '64. (MIRA 17:4)

1. III Rizhskaia gorodskaya bol'nitsa.

SPRESLIS, A.; BABRIS, Ya.[Babris, J.]

70th birthday of Janis Krastins. Vestis Latv ak no.8:164-166 '60.
(EEAI 10:9)

(Krastins, Janis) (Historians, Latvian)

9.6000

S/194/61/000/001/030/038
D216/D304

AUTHOR: Babrovinkov, L.Z.

TITLE: Transistorized phasemeters for the sub-ultrasonic range of frequencies

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 1, 1961, 12, abstract 1 I112 (V Sb. Poluprovodnik. pribory i ikh primeneniye, no. 4, M., Sov. Radio, 1960, 396-405)

TEXT: Description is given of 3 types of phasemeters for the frequency range of a few hundredths of a cycle to hundreds of kilocycles which may be used for measurements both in linear and in non-linear circuits. The phase measurement error is 2 - 5°. One of the described types of phasemeters is suitable for spectral analysis of complex periodic voltage. ✓

Card 1/1

BARRYNIN, B.N.

Ways of developing scientific research in the field of pressure
treatment of synthetic polymer materials. Plast.massy no.1:
42-44 '60. (MIRA 13:6)

(Polymers)

KORSHAK, V.V.; VINOGRADOVA, S.V.; BABSHINITSER, T.M.

Coordination polymers. Part 3: Coordination polymers based on
bis (8-hydroxyquinoline) methane. Vysokom. soed. 2 no.4:498-507
Ap '60. (MIRA 13:11)

1. Institut elementoorganicheskikh soedineniy AN SSSR.
(Polymers) (Methane)

BABSKA, Zofia (Warszawa)

Position preference as a basic factor influencing the choice made by preschool children in recognition tests. *Studia psychol* 5:132-157 '63.

Position persistence as a basic choice factor depending on the age of children. *Ibid.*:158-183

BABSKA, ZOFIYA

Development of object identification in one and two-year
old children. Vop.psikhol. 5 no.6:131-138 N-D '59.
(MIRA 13:4)

1. Kafedra detskoy i pedagogicheskoy psikhologii Varshavskogo
universiteta. (Child study) (Learning. Psychology of)

KOSHTOYANTS, K.S.; BABSKAYA, N.Ye,

Biochemical pathways for the elimination of blocking effects of methylene blue on the action of the vagus nerve. *Biul. eksp. biol. med.* 47 no.1:39-43 Ja '59. (MIRA 12:3)

1. Iz kafedry fiziologii zhivotnykh i cheloveks Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova (zav. - chlen-korrespondent AN SSSR prof. Kh. S. Koshtovants), Moskva. Predstavlena deystvitel'nyim chlenom AN SSSR V.N. Chernigovskim.

(SULFHYDRYL COMPOUNDS, effects,

on vagus-blocking eff. of methylene blue (Rus))

(VAGUS NERVES, effect of drugs on,

methylene blue, elimination of blocking eff. by
sulfhydryl cpds. (Rus))

(METHYLENE BLUE, effects,

vagus-blocking eff., eff. of sulfhydryl cpds. (Rus))

BABSKAYA, N.Ye.

Effect of gamma-aminobutyric acid, beta-alanine, and L-glutamic acid on Sechenov inhibition. Dokl. AN SSSR. 144 no.6:1410-1413 (MIRA 15:6)
Je '62.

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavleno akad. V.N.Chernigovskim.
(Butyric acid) (Alanine) (Glutamic acid)

ENGEL'GARDT, V.A.; LYUBIMOVA, M.N.; VENKSTERN, T.V.; TIMOVYEVA, M.Ya.;
BABSAYA, Yu.B.

Enzymatology of myosin, splitting of adenosintri-phosphatase and
deaminase. Doklady Akad. nauk SSSR 85 no. 2:397-400 11 July 1952.
(GLML 23:3)

1. Corresponding Member of the Academy of Sciences USSR for
Engel'gardt.

Д.И.С.К.Н.В.Н., Ю.Е.

BRAUNSHTEYN, A.Ye.; SEVERINA, I.S.; BABSKAYA, Yu.Ye.

Inhibition of the ornithine cycle in urea synthesis by α -methyl-DL-aspartic acid [with English summary in insert]. Biokhimiya 21 no.6:738-745 N-D '56. (MLRA 10:7)

1. Laboratoriya obmena azotistykh veshchestv. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR, Moskva.

(ASPARTIC ACID, related compounds

α -methyl-DL-aspartic acid, inhib. of ornithine cycle in urea synthesis (Rus))

(UREA, metabolism,

synthesis, inhib. of ornithine cycle by α -methyl-DL-aspartic acid (Rus))

AUTHOR: Babskaya, Yu. Ye. 20-114-3-40/60

TITLE: Comparative Description of the Formation of Albumin in Separate Plasma Fractions and Comparison of Albumins in the Liver Tissue in the Course of Hypothermia (Sravnitel'naya kharakteristika obrazovaniya belkov otdel'nykh fraktsiy plazmy i belkov tkani pecheni pri gipotermii)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 3, pp. 598-601 (USSR)

ABSTRACT: Recently the attention of many scientists has been attracted by the hypothermal state as a special state of the organism in which the level of biological processes is artificially lowered. In this context, investigation of changes in metabolic processes is of profound significance, because such an investigation contributes to a clarification of the internal mechanism of the reversible transition of the animal organism to a lowered level of biological activity. Of the many investigations of metabolism of carbohydrates and fats, only a few deal with nitrogen and albumin metabolism. Nikulin studied the influence of hyperthermia upon the intensity of albumin synthesis in different tissues and organs by means of

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20-114-3-10/60
Comparative Description of the Formation of Albumin in Separate Plasma-
Fractions and Comparison of Albumins in the Liver Tissue in the Course of
Hypothermia

tracer (marked) atoms. At 24° , this intensity is considerably reduced in rabbits almost everywhere. The only exception is the liver, although formation of albumin in the blood plasma was retarded by several times its original velocity. For this reason, the topic mentioned in the title of this paper deserves particularly careful attention, as the formation of some albumin substances is closely connected with the function of the liver. In the experimental part of the paper under review, a description is given of the method used in these investigations: Subcutaneous injections of atropine solution, and several minutes later of a urethane solution of 25%, were given to a male chinchilla rabbit, weighing about 2 - 3 kg. In order to produce deeper narcotic effects, ether was applied at the same time. After this had been achieved, i.e. about 35 - 40 minutes later, aminacine was introduced intravenously (1 mg/1kg of body weight), and the animal was submerged in the ice water ($3 - 5^{\circ}$). After the temperature of the body had been reduced to 24° , the radioactive amino acid was introduced. Control animals were treated in a similar way, only without the cooling part of the experiment. Results: There is a striking absence of parallels between the changes in

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Comparative Description of the Formation of Albumin in Separate Plasma
Fractions and Comparison of Albumins in the Liver Tissue in the Course of
Hypothermia

intensity of the formation of albumin of the supratissue and of the blood plasma, in particular of albumin and fibrinogen. According to general concepts, these albumin substances are synthesized directly by the liver cells. Therefore one would rather expect developments to take place in the same direction. However, the sharp decrease in the formation of albumin and fibrinogen in the plasma, in the absence of albumin formation in the liver cells, as observed by the author of the paper under review, is in contradiction with the above concepts. The experiments described in the present paper seem to justify the assumption that albumin formation in the liver cells and in the different blood plasma fractions takes place independently of the synthesis in the liver cells; it rather is under the influence of different systems of ferments and is regulated by separate physiological mechanisms. Conclusions: 1) In the hypothermal state, no regular (explicable by mathematical interrelationships) decrease in the absorption of amino acid into the albumin substances of the liver cells

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20-114-3-40/60
Comparative Description of the Formation of Albumin in Separate Plasma
Fractions and Comparison of Albumins in the Liver Tissue in the Course of
Hypothermia

is observed. 2) The intensity of absorption of amino acids into the albumins of blood plasma is always sharply reduced in all fractions in the hypothermal state. 3) The reduction in intensity of absorption of amino acids into albumin and fibrinogen of blood plasma is stronger than into the other plasma fractions. 4) The same decrease in the intensity of the absorption into the above two kinds of albumin takes place independently of the inclusion of the amino acids into the albumin substances of the liver cells. There are 1 figure, 2 tables, and 7 references, 3 of which are Soviet.

PRESENTED: January 26, 1957, by L. S. Shtern, Member of the Academy

SUBMITTED: September 2, 1956

Card 4/4

BABSKAYA, Yu. Ye.

Effect of hypothermia on intramolecular reorganization of proteins.
Dokl. AN SSSR 137 no.3:710-712 Mr '61. (MIRA 14:2)

1. Institut khirurgii im.A.V.Vishnevskogo AMN SSSR. Predstavleno
akademikom V.N.Chernigovskim. (HYPOTHERMIA) (PROTEINS IN THE BODY)

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27.1100

S/020/61/141/002/025/027
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-S³⁵ and cysteine-S³⁵ 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-S³⁵ two hours after its introduction

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Study of bonds formed as a result ...

S/O20/61/141/002/025/027
B101/B110

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-S³⁵ marked methionine-C¹⁴ was used in the carboxyl group. Methionine-S³⁵ and methionine-C¹⁴ 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-S³⁵ 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

Card 2/4 3

Study of bonds formed as a result ...

S/923/61/141/002/025/027
B101/B110

addition, the ratio also depends on the physiological condition of the organism. The introduction of cysteine-S³⁵ 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. X

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 3/4 *3*

BABSKAYA, Yu.Ye.; ROGOSOVA, A.V.

Change in various circulatory indices of oxidation-reduction processes during the use of the artificial blood circulation apparatus. Eksper. khir. 5 no.6:53-55 N-D '60. (MIRA 14:2)
(OXIDATION-REDUCTION) (BLOOD-CIRCULATION, ARTIFICIAL)

BABSKAYA, Yu.Ye.; KONIKOVA, A.S.; KRITSMAN, M.G.

Study of bonds produced by the incorporation of amino acids into proteins of the intact organism. Dokl. AN SSSR 141 no.2:473-476
N '61. (MIRA 14:11)

1. Institut khirurgii im. A.V.Vishnevskogo Akademii meditsinskikh
nauk SSSR. Predstavleno akademikom V.N.Chernigovskim.
(PROTEIN METABOLISM) (CHEMICAL BONDS)

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

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

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

(HYPOTHERMIA) (METABOLISM)

BARSKAYA, 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)

BARSKI, W.

City districts restricted for automobiles. Motor 12 no.3:4
20 Ja '63.

BABSKI, wladyslaw, mgr inz.

A small dismountable bridge made of prefabricated concrete parts.
Gosp wodna 24 no.3:94-99 Mr '64.

BABSKIN, A.V.

Innervation of the vasa vasorum of the aortic arch. Vop. fiziol.
no.7:165-177 '54. (MLRA 8:1)

1. Osipenskovskiy uchitel'skiy institut.
(AORTA, anatomy and histology,
vasa vasorum, innervation)

BABSKIY, A. A.

KHELIMSKII M. A., KRIVOLIACHENKO A. A., BABSKIY A. A.

Tkanevaia terapiia po metodu V. P. Filatova pri nekotorykh
khirugicheskikh zabolevaniakh. [Tissue therapy in certain
surgical diseases by means of Filatov's method] Khirurgia,
Moskva 3 Mar 50 p. 64-7.

1. Of the Clinic for Hospital Surgery of the Therapeutic Faculty
(Head — Prof. A. G. Sosnovskiy) of Odessa Medical Institute.
SIZML Vol. 19, No. 1 July 1950

BABSKIY, A.A.

POPOVA, A.I. (Odessa); KATSER, L.I. (Odessa); KISILEVA, .N., nachal'nik; BABSKIY, A.A., professor, nauchnyy rukovoditel'.

Effect of intraarterial administration of novocaine in thrombeangitis obliterans; electrocardiographic data. Klin.med. 31 no.7:57-59 J1 '53.

(MLRA 6:9)

1. Basseynovaya bol'nitsa moryakov.
(Blood vessels--Diseases) (Novocaine)

BABSKIY, A.A.; ROMANYUK, R.S.; LERNER, L.S.; KOROPOTNITSKAYA, O.L.; MIL'SHTEYN,
M.A.

Seromarin, a colloid-salt blood substitute. Trudy Kiev. nauch.-issl.
inst. perel. krovi i neotlozh. khir. 3:103-106 '61. (MIRA 17:10)

1. Odesskaya oblastnaya stantsiya perelivaniya krovi.

KAVUN, Vasilii Mikhaylovich. Prinimali uchastiye: BABSKIY, I.I.;
BOROVSKIY, V.A.; VITKOVSKIY, M.P.; ZIMOVETS, V.N.;
SEREDENKO, B.N.; PITUL'KO, V.Ye.; CHEPURNOV, I.A.;
BLAZHEVSKIY, V.K.; YAROPUD, V.N.; RYBAK, V.N.; KUZIK, G.I.;
ZADNEPRYANETS, G.V.; IVANOV, A.N., red.; BELOVA, N.N.,
tekhn. red.

[Efficient farm management] Ratsional'noe vedenie khoziaistva.
Moskva, Sel'khozizdat, 1963. 205 p. (MIRA 16:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut ekonomiki i organizatsii sel'skogo khozyaystva (for Bab'skiy, Borovskiy, Vitkovskiy, Zimovets, Seredenko, Pitul'ko, Chepurnov).
 2. Vinnitskaya gosudarstvennaya sel'skokhozyaystvennaya opyt-naya stantsiya (for Blazhevskiy, Yaropud).
 3. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya (for Rybak).
 4. Sekretar' partiynoy organizatsii kolkhoza imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza (for Kuzik).
 5. Glavnyy agronom kolkhoza imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza (for Zadnepryanets).
- (Collective farms--Management)

BABSKIY, V.A., inzh.; RUBCHINSKIY, A.V., kand.tekhn.nauk; KHROMOY, Yu.D.,
inzh.

Density of mercury vapor in open-type ignitrons. Vest. elektroprom.
34 no.8:34-40 Ag '63. (MIRA 16:9)
(Mercury-arc rectifiers)

BABSKIY, V.A., inzh.; RUBCHINSKIY, A.V., kand.tekhn.nauk; KHROMOY, Yu.D.,
inzh.

Density of mercury vapor in open-type ignitrons. Vest. elektroprom.
34 no.8:34-40 Ag '63. (MIRA 16:9)
(Mercury-arc rectifiers)

BABSKIY, Ye., akademik; SORIN, A., inzh.

Radio pills. Radio no.8:31-32 Ag '64.

(MIRA 17:11)

1. AN UkrSSR (for Babskiy).

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ca

BABSKIY, Ye. B.

The humoral effect of a pain stimulus on the activity of the kidney. N. M. Alekseeva and E. B. Babskii. *Arch. sci. biol.* (U. S. S. R.) 40, No. 1, 37-42 (in English) 42 (1936). On the basis of expts. with crossed blood-circulation and transplantation of the kidney from the abdominal cavity to the neck, one can presume that the mechanism of reflex anuria provoked by a painful stimulus is due to several factors: direct action of the nervous system on the urine secretion and humoral action of some elements produced in the organism after stimulation of afferent nerves, of the activity of the kidney or the water-salt exchange in the tissues. W. A. Perlzweig

Local paralytic changes in the brain produced by mescaline poisoning. A. B. Aleksandrovskii, E. B. Babskii and B. Ya. Kryazhev. *Arch. sci. biol.* (U. S. S. R.) 43, No. 1-2, 147-74 (in English 294) (1938). The authors studied changes in the conditioned salivary and motor reflexes of dogs following a single intoxication with mescaline. Their conclusions are: "The single subcutaneous injection of mescaline produces acute and lengthy disturbances of the conditioned reflex activity. These disturbances were noted only during the study of sight-conditioned reflexes. Changes in the conditioned reflexes to sound and skin irritations were not noted in acute cases of poisoning and were not const. As a result of mescaline intoxication local paralytic changes in the visual centers of the brain are observed expressed by the destruction of the relationship between the strength of the conditioned light irritation and the extent of the conditioned reflex. The restoration of the conditioned reflex activity has a cyclic character: the paralytic changes at times, increase, at others, decrease. In accordance with the psychopathology of mescaline poisoning in man, the exptl. material leads to the conclusion that the action of the poison on the visual centers is selective. Local paralytic changes are significant for an understanding of the neurodynamic basis of a series of psychopathol. syndromes, especially optical hallucinations." W. A. P.

Common (U.S. Army) 100 AND 4TH CENTER

PROCESSES AND PROPERTIES INDEX

COMMON VARIANTS INDEX

INTERNAL NOTES

ASH-35A METALLURGICAL LIT

LEADERS

10001 10002 10003 10004 10005 10006 10007 10008 10009 10010 10011 10012 10013 10014 10015 10016 10017 10018 10019 10020 10021 10022 10023 10024 10025 10026 10027 10028 10029 10030 10031 10032 10033 10034 10035 10036 10037 10038 10039 10040 10041 10042 10043 10044 10045 10046 10047 10048 10049 10050 10051 10052 10053 10054 10055 10056 10057 10058 10059 10060 10061 10062 10063 10064 10065 10066 10067 10068 10069 10070 10071 10072 10073 10074 10075 10076 10077 10078 10079 10080 10081 10082 10083 10084 10085 10086 10087 10088 10089 10090 10091 10092 10093 10094 10095 10096 10097 10098 10099 10100

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 AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

BABSKIY, J. K.
 OA

// R

THE INFLUENCE OF ADRENALINE ON THE EXCITABILITY OF THE VESTIBULAR APPARATUS.
 E.B. Babakii and V. Vinodarov. Bull. biol. med. experl. U.R.S.S. 3, 133-5
 (1937).- Subcutaneous injections of adrenaline led to an increase in the
 excitability of the vestibular app. (a decrease in the rheobase and chronaxie)

S.A. Corson

METALLURGICAL LITERATURE CLASSIFICATION
 1301 57-0117
 1301 57-0117

BABSKY, Ye. B.

"Babsky, E. (editor) Human Physiology." (p. 156) Rev. by Konradi, G.

SO: Advances in Contemporary Biology (Uspekki Sovremennoi Biologii) Vol. VII, No. 1, 1937

BABSKIY, Ye. B.

"Electronic Changes of Activity of Cholinesterase in Nerve Fibers," Byull.
Eksp. Biol. Med., 18, No.3, pp 58-60, 1940

157 AND 2ND EDITIONS

114

BABSNIK, Ye. B.
2A

A new parasympatholytic substance platyphyllin. E. B. Babnik. *Compt. rend. acad. sci. U. S. S. R.* 27, 27-28 (1959) (English). Perfusion of the isolated heart of the frog with 1:20,000 (1:200,000) solu. platyphyllin totally removed the effect of excitation of the vagus nerve. Before perfusion faradic stimulation of the nerve caused vagal arrest of the heart. Injection of 0.01-0.04 g. of platyphyllin in the dog resulted in the disappearance of the effects commonly observed after excitation of parasympathetic nerves (chorda tympani and vagus). Expts. show that this drug inhibits the transmission of excitation in the terminations of parasympathetic nerves, and that the dose required for this purpose is 20-25 times greater than the corresponding dose of atropine. Injection of platyphyllin resulted in drop of blood pressure lasting 12-15 min. in most cases this influence disappearing after the spinal cord was cut below the medulla oblongata. Results of various expts. show that platyphyllin does not hinder the formation of the parasympathetic mediator in the nerve endings, but prevents its action upon the heart. The drug totally removes the muscarinic effect of acetylcholine. Massive doses of acetylcholine (0.2-0.25 mg./kg. body wt. in dogs) do not effect either a drop of blood pressure or slowing of the heart after injection of platyphyllin. Platyphyllin does not prevent the nicotine effects of acetylcholine. Maurice M. Rath

ASB-51-A METEOROLOGICAL LITERATURE CLASSIFICATION

Formation and functional role of acetylcholine in the nerve centers. E. H. Babakul and A. A. Kirilova. *Byull. Eksp. Biol. Med.* 17, No. 1/2, 37-40 (1944).
 It is shown that in the central nervous system there is formed acetylcholine in amounts sufficient for physiol. action.

Effect of adrenaline on the optical chronaxia. F. B. Balaskii and G. T. Semenova. *Byull. Eksp. Biol. Med.* 17, No. 4-5, 50-2 (1944).—Observations were made on 8 healthy persons and on 2 patients submitted to unilateral jugular-thoracic ganglionectomy. The chronaxia of the peripheral phosphene was detd. with a chronaximeter. One to 1.5 cc. of adrenaline (1:1000) was introduced subcutaneously. Chronaxia was detd. several times before the injection of adrenaline and 30-60 min. after the injection. Thirteen injections were carried out. In 10 expts., optical chronaxia decreased after the injection of adrenaline, and reached the min. 15 min. after the injection; then it returned to the initial value. In 2 cases, the decrease was 0.4-0.16 and 0.76-0.19 millibec., resp. The rheobase usually increased after the simultaneous introduction of adrenaline with a decrease in chronaxia. Thus, adrenaline in most cases caused a change in optical chronaxia opposite to that observed after sympathectomy. This is an addnl. proof for the regulation effect of the sympathetic nervous system on the stimulation of the optical analyzer.
 Sonya G. Machejson

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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS
 COMMON VARIABLES
 MATERIALS INDEX

COMMON ELEMENTS	COMMON VARIABLES
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	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

151 AND 2ND CROSS

151 AND 4TH CROSS

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SASSKIY, R. CA

Common Elements

OPEN MATERIALS INDEX

Common Valency Index

Effect of eserine and prostigmine on a nerve absolute refractory phase. R. B. Babakii and I. G. Kovyrey. *Izv. Akad. Nauk SSSR Ser. Biol. Med.* 17, No. 6, 303 (1944). --Acetylcholine formed in nerve centers and fibers is a resulting component of the nerve impulse and is a factor for the excitability of the nerve tissue. The effect of eserine and prostigmine, i.e., substances paralyzing cholinesterase, was investigated in order to elucidate the role of acetylcholine in the development of abs. refractoriness. The expts. were carried out with sciatic nerve-gastrocnemius muscle of *Rana temporaria*. Eserine was used in concns. of 1:10,000, 1:5000, and 1:2000; prostigmine in concentrations of 1:5000, 1:3000, 1:1000, and 1:500. Under the action of eserine, the duration of the abs. refractory phase increased; eserine (1:2000) caused prolongation of the abs. refractoriness 2-5 times; on prolonged washing of the eserinated nerve section with Ringer soln., the duration of abs. refractoriness returned to a value approaching the initial. In a concn. of 1:5000, the change of the abs. refractory phase of the nerve was slighter, and in a concn. of 1:10,000, no change was observed. The effect of prostigmine is less strong; in a concn. of 1:500, it increased the abs. refractoriness of the nerve 1.5-3 times. Eserine and prostigmine inactivate cholinesterase and thus inhibit the hydrolysis of acetylcholine formed in the nerve on stimulation. Acetylcholine accumulates in the nerve and causes prolongation of the abs. refractoriness. In large concns., acetylcholine decreases excitability of the nerve tissue.

Sunya G. Machelson

ASA-ILA METALLURGICAL LITERATURE CLASSIFICATION

151 AND 2ND CROSS

151 AND 4TH CROSS

151 AND 6TH CROSS

151 AND 8TH CROSS

151 AND 10TH CROSS

151 AND 12TH CROSS

151 AND 14TH CROSS

151 AND 16TH CROSS

151 AND 18TH CROSS

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151 AND 84TH CROSS

151 AND 86TH CROSS

151 AND 88TH CROSS

151 AND 90TH CROSS

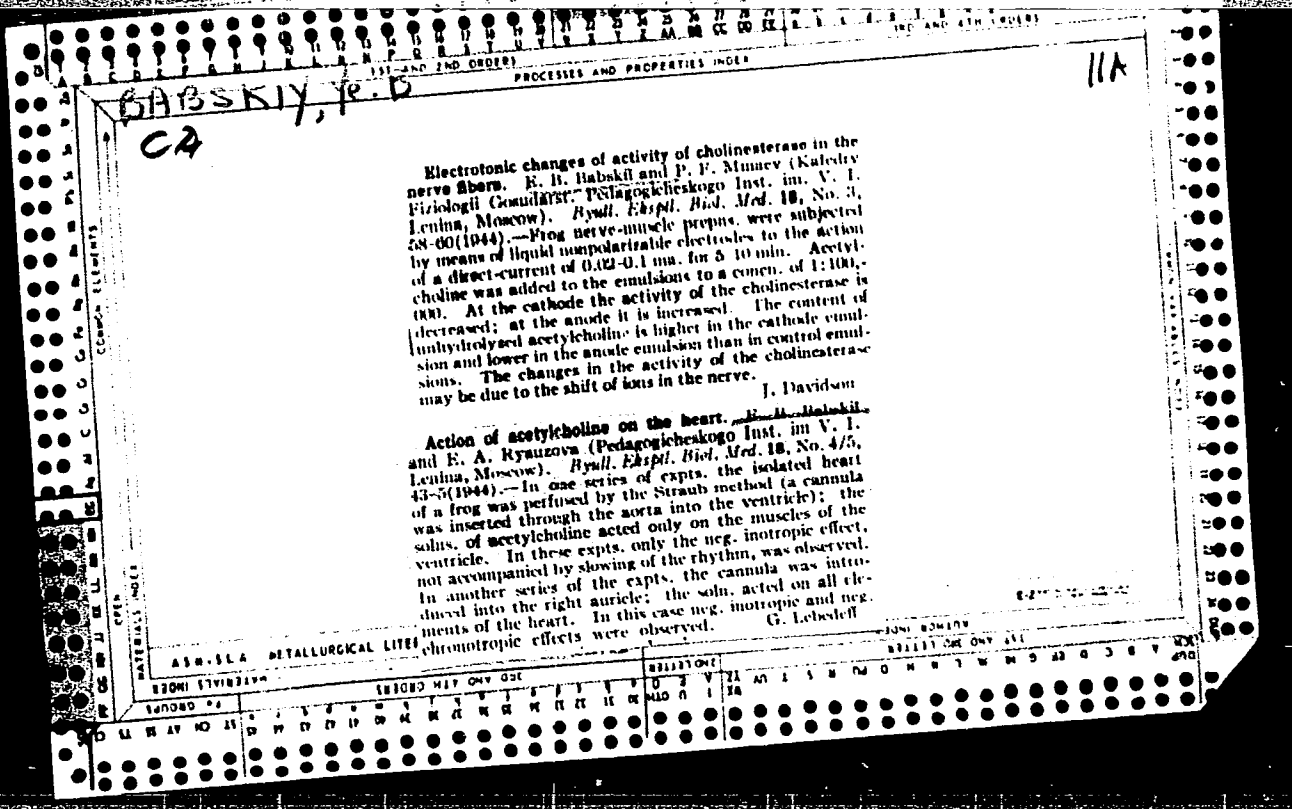
151 AND 92TH CROSS

151 AND 94TH CROSS

151 AND 96TH CROSS

151 AND 98TH CROSS

151 AND 100TH CROSS



1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

1111

BABSKIY, YE. B.

✓ Mechanism of the parasympatholytic action of alkaloids: platyphylline, seneciophylline, and senecionine. E. B. Babskii and A. S. Zibert (Moscow Peoples Pedagogical Inst.; *Farmakol. i Toksikol.* 8, No. 6, 10-15(1945).—Platyphylline (I), seneciophylline (II), and senecionine (III) impede transmission of stimuli from vagus nerve to cardiac musculature. They do not prevent formation of acetylcholine at cardiac nerve tips. Tests with I at 20, II at 100, and III at 500 p.p.m. (activity indicated by dose)

in isolated frog hearts show the atropine mechanism of parasympatholytic action. The Loewi-Navratil technique (C.I. 19, 802) was employed. Julian P. Smith

ASB 31A METALLOGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX

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CA

Polarization effect under the action of acetylcholine on the nerve commissure of Anodonta. E. D. Babitskii, A. G. Mersbchikov and F. D. Shekhan. *Dokl. Akad. Nauk SSSR*, 19, No. 4, 5, 17-20 (1945).—Expts. were made with large *Anodonta cygnea*. When acetylcholine is applied in concns. of 1:10,000-1:1,000 to the interganglionic commissure, a pos. elec. reaction is noted in the nerve tissue. This polarizing effect is usually equiv. to 5 to 6 mv., but in exceptional cases may be as high as 25-30 mv. The authors believe that this pos. reaction is connected with the formation of acetylcholine.

Changes in cholinesterase activity during the rhythmic polarization of nerve fibers. E. D. Babitskii and P. F. Minayev (Pedagogic Inst., Moscow). *Dokl. Akad. Nauk SSSR*, 19, No. 6, 14-16 (1945); cf. C.A. 40, 1845.—Previously it has shown, that during the passage of a d.c. through nerve fibers of the central nervous system, the cholinesterase activity was increased at the anode and decreased at the cathode. The same effect is obtained by the rhythmic polarization of nerve fibers with a condenser. H. Pr. 21ev

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

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

111 AND 120 CODES PROCESSES AND PROPERTIES INDEX 130 AND 134 CODES

BABSKII, Ye. I.
ca

11F

Combined effect of adenosine triphosphate, acetylcholine, and ions of potassium, phosphorus and magnesium on muscle. E. B. Babskii, O. G. Korenevskaya, and P. F. Minaev (Central Inst. of Health, People's Health Commissariat of SSSR, Moscow). *Bull. Eksp. Biol. Med.* 20, No. 3, 60-2 (1945); cf. C.A. 35, 7438; 36, 6178; 37, 1728; 38, 1550, 6360. -- Adenosine triphosphate (I), at dilns. 1:1000 to 1:100,000 had little or no effect in contracting excised muscles in Ringer soln. Acetylcholine (II) produced significant responses at dilns. up to 100,000,000. After I treatment with I, I or several treatments with II produced more intense reactions than II without pretreatment with I, i.e., I potentiates the muscle reaction to II. Addn. of KCl or MgCl₂ somewhat increased the effects on the muscle of I, but CaCl₂ had the opposite effect. The results indicate that the effects of cations on the I reactions differ from their direct effect on muscle contraction. K. Starr Chester

AS A - S L A METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS
COMMON VALUABLE METALS

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

BABSKIY, Yevgeniy Borisovich

"Physiology of Humans and Animals," Moscow, Sovetskaya Nauka, 1946

PROCESSES AND PROPERTIES INDEX

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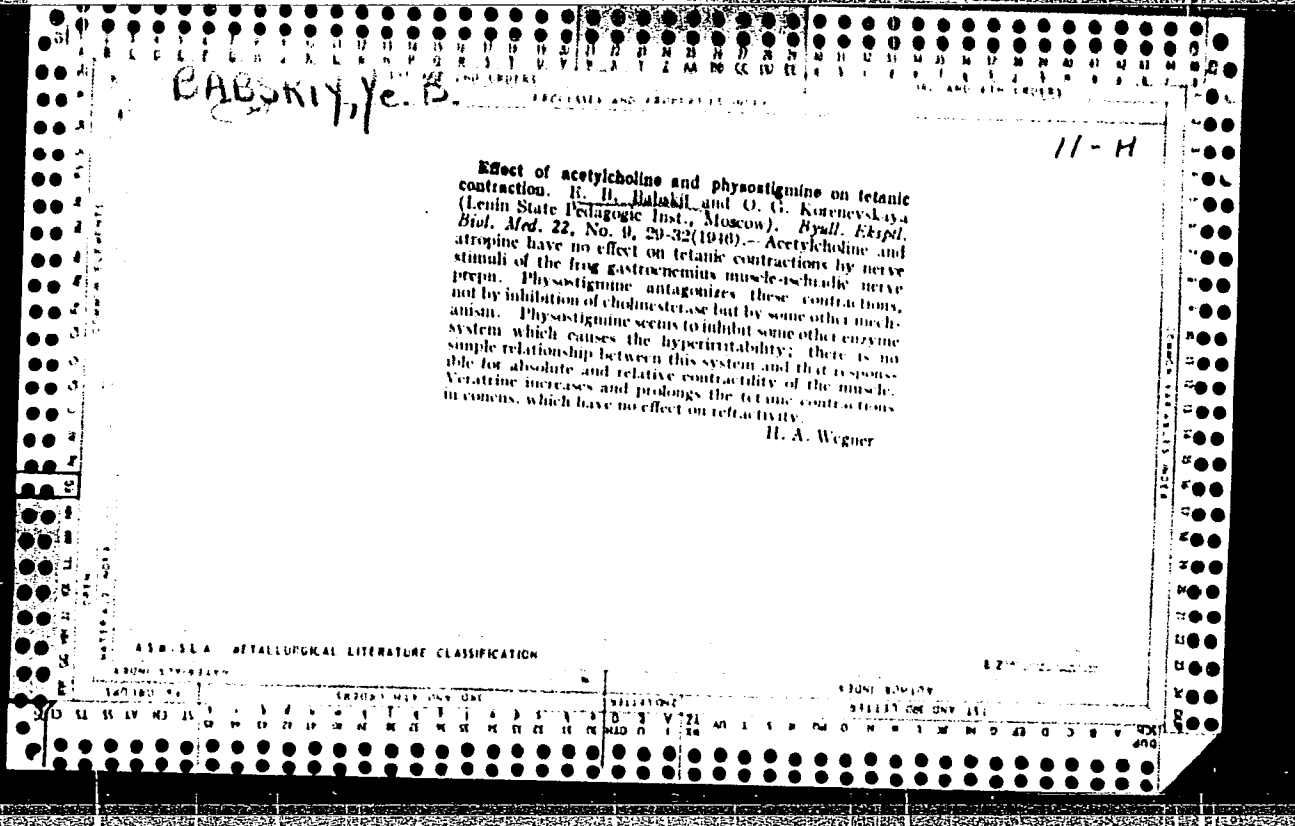
Effect of hydrogen sulfide and sodium sulfide on anaphylactic shock. B. D. Bal'skii and M. A. Frolova (1st Med. Inst., Moscow). *Hyg. Eksp. Biol. Med.* 22, No. 5, 57-60 (1946).—Guinea pigs fully sensitized to horse serum suffered fatal anaphylactic shock on intracardiac injection of the antigen. Administration of H₂S or Na₂S just before the antigen did not alter this outcome. The sensitized animals could withstand about twice the dose of sulfide (0.15 mg.) which was effective in the controls, but sulfide clearly does not produce desensitization.
G. M. Kosolapoff

METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

SUBJECT INDEX

CROSS INDEX



ca

BARSKII, Ye. B.

PROCESSES AND PROPERTIES INDEX

11F

Combined action on muscle of adenosine triphosphate, acetylcholine, and potassium, calcium, and magnesium ions. Eug. B. Barskii and P. P. Mineev (Inst. Biol. Chem., Acad. Med., Moscow). Nature 150, 238(1946).— Adenosine triphosphate did not produce contraction of the m. rectus abdominis of the frog and led to small contractile response of the leech muscle, at the concns. used. After one application of the adenosine triphosphate soln. the frog and leech muscles react to solns. of acetylcholine with contractions of increased intensity. It follows that adenosine triphosphate sensitizes the muscle to acetylcholine. The increased concn. of K ions leads to a markedly increased reaction to acetylcholine of muscles subjected to the action of adenosine triphosphate. Contraction of myosin threads produced by adenosine triphosphate in the presence of KCl is inhibited by Ca ions and increased by K and Mg ions. When the concn. of Ca ions is increased adenosine triphosphate does not cause contraction of the dorsal muscle of the leech. Both in the frog muscle and in that of the leech adenosine triphosphate produces no contraction in Ringer soln. with increased content of Ca, and leads to a persistent decrease of the contractile response to acetylcholine.

E. D. Walter

Myosin threads

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

COMMON VARIABLE METALS

MATERIALS INDEX

GROUPS

LETTERS

LETTERS

11A

BABSKII, Ye. D.
CA

PROCESSES AND PROPERTIES INDEX

Sensitization of muscle to choline and acetylcholine and the supposed existence of choline acetylase. Eng. B. Bab'skii and P. P. Minaev (Acad. Med., Moscow). *Nature* 158, 268(1946). Nachmansohn and his colleagues (C.A. 39, 2519*) and Feldberg and Mann (C.A. 39, 4667*) have suggested the enzymic synthesis of acetylcholine from choline and acetate in the presence of adenosine triphosphate. The alleged enzyme was named choline acetylase. Repeating their expts., the authors found that the contraction of rectus abdominis of frogs and of the dorsal muscle of leeches in response to choline is greatly increased by the presence of adenosine triphosphate, this increase depending on the concn. of the latter. The increase of observed muscle contraction may possibly have been due not to the stimulation of acetylcholine synthesis by adenosine triphosphate, but to the sensitizing effect of this substance on the test muscles. E. D. W.

Changes in the activity of cholinesterase of nervous tissue under the influence of constant current. Eng. B. Bab'skii and P. P. Minaev (Acad. Med., Moscow). *Nature* 158, 343-4(1946); cf. C.A. 40, 1545, 2212*. The cathode of const. current lowers the activity of cholinesterase, while the anode produces the opposite effect. This can be explained on the basis of the changes that take place in the distribution of ions in the nerve under the influence of polarization. E. D. W.

METALLURGICAL LITERATURE CLASSIFICATION

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11 AND 2ND ORDER

100 AND 6TH ORDER

PROCESSES AND PROPERTIES INDEX

BABSKIY, Ye I

ea

11F

Changes in the contents of acetylcholine in nervous tissue under the influence of constant current. Eug. B. Babskii (State Pedagogical Inst., Moscow). *Nature* 157, 730(1946).—Nonpolarizable electrodes were applied to dog brain and a d. c. of 4-10 ma. was used for 10 min., after which pieces of the brain were removed and analyzed. Nerve fibers of dog and cat were similarly treated. In all cases the tissue immediately adjacent to the cathode showed an increase in acetylcholine and that next to the anode a decrease.

L. E. Gilson

COMMON ELEMENTS

COMMON VARIABILITY INDEX

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ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

2ND ORDER

1ST AND 6TH ORDER

GROUPS

LETTERS

LETTERS

BABSKIY, Y. B.

PRECISES AND PROPERTIES INDEX

The chemical nature of the substances of brain tissue which render muscles sensitive to acetylcholine. K. B. Babskij and P. F. Afiney (Acad. Med. Sci., Moscow). *Biokhimiya* 12, 231-40(1947); cf. C.A. 40, 7258. — The substance which sensitizes brain tissue to acetylcholine is a compd. contg. a labile phosphate group, and is probably adenosinetriphosphate. H. Priestley

11 F

ASB 514 METALLURGICAL LITERATURE CLASSIFICATION

Chemical Literature

Chemical Abstracts

Chemical Abstracts

PROCESSES AND PROPERTIES INDEX

11-H

ca

GABSKIY, P.

Effect of the decomposition products of adenosinetriphosphoric acid on the sensitivity of muscles to acetylcholine. R. B. Gabskii and P. F. Minaev. *Izvull. Ekspil.*

Ibid. Med. 23, No. 2, 98-101(1947). -Series expts. were begun only after solns. of the same concn. of acetylcholine chloride showed a const. reaction on the abdominal muscles of a frog. Tests were repeated every 3 min. by adding different substances to acetylcholine, e.g. adenosinediphosphate, adenosinetriphosphate, adenylic acid, adenosine, inosinic acid, and pyro- and orthophosphate. The pH of all solns. was kept at 7.3. The concn. used were 1:10⁻⁷. The effect of the first two substances was the same, perhaps because of the rapid conversion of the diphosphate into the triphosphate. Reactions with addn. of all other substances were either neg. or very weak. Solns. of the test substances alone gave no reaction. Various combinations were tried, and it was found that acetylcholine chloride, adenylic acid, and pyrophosphate used in combinations greatly increased the muscular contractions. All other combinations showed diminished effects. It appears that pyrophosphate but not orthophosphate is of physiol. value. The origin of the greater sensitizing effect of adenylic acid and pyrophosphate is not yet entirely clear. It seems that these 2 substances must be present. However, it is possible that adenosinedi- and triphosphate are formed, which have been found to cause a sensitizing reaction on the muscle. W. R. Eichler

A.B.S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

SUBJECT INDEX

1ST AND 2ND LETTERS

1ST AND 2ND LETTERS

ca BABSKIY, Ye. K. 11F

Polarization changes of the refractivity of nerves. II. Babakii and A. I. Zol'nikova. *Dokl. Akad. Nauk SSSR*, 23, 271-4(1947)(in Russian).—The electrotonic changes of the abs. refractivity of nerves are explained by changes in the enzymic hydrolysis of acetylcholine and changes of its concn. in nerve fibers. The lessening of the refractivity at the anode may be explained by an increase in splitting of acetylcholine owing to the activity of cholinesterase. However, if cholinesterase is inhibited by eserine, the d.-c. anode does not show any effect on the activity of cholinesterase, and the effect of the anode on the refractivity is, therefore, weaker or even completely disappears. The effect of the cathode on the refractivity is decreased. Atropine destroys the power of nerve tissue to react with acetylcholine and prevents the development of the effects of the anode and cathode. The results indicate that certain physiol. effects arising from the action of d.-c. on nerve tissue are caused by changes in the content of, and enzyme splitting of acetylcholine. It was also found that acetylcholine takes part in the formation of the nerve refractivity. This functional change of the state of the excited tissue in consequence of excitation was considered as dependent, although not completely, on the accumulation of acetylcholine in nerve tissue. The effects of acetylcholine, eserine, and atropine on the change of the abs. refractivity of nerve are described.

W. R. Richter

ASB. SLA. BIFALLUNGAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

11E

BARSKIY, Y.R.D.
OA

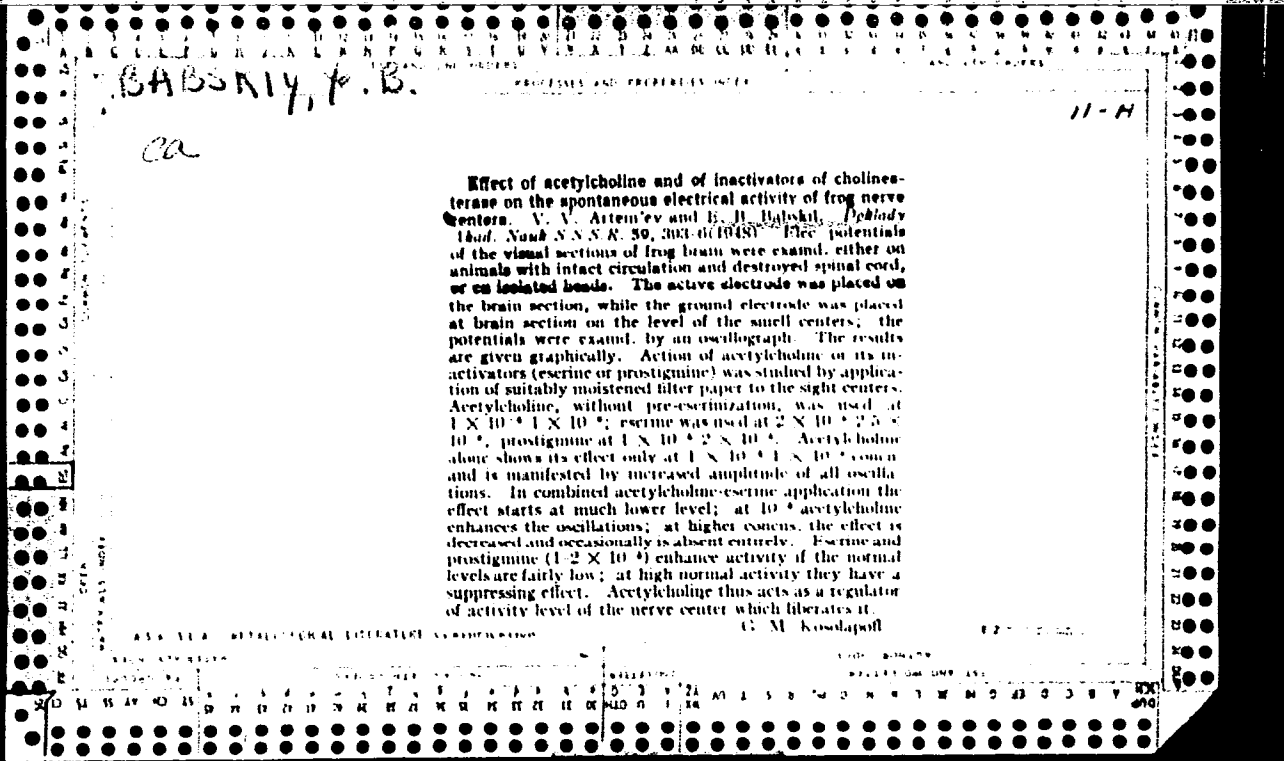
The influence of thiamine and its phosphorylated derivatives on the sensitivity of muscle to acetylcholine. *B. B. Babakh and P. F. Minayev. Fiziol. Zhur. S.S.S.R. (Leningrad), 34, 380-92(1948); cf. C.A. 41, 0001e, 42, 005i.*

The frog abdominal muscle was used as the test specimen which was immersed in the reagent solus., after the establishment of the reference level of response to an eserized acetylcholine solus. ($1 \times 10^{-4} - 1 \times 10^{-7}$). Thiamine at $1 \times 10^{-4} - 1 \times 10^{-7}$ concn. increases and in $1 \times 10^{-4} - 1 \times 10^{-5}$ concns. decreases the sensitivity of the frog muscle to acetylcholine. At $1 \times 10^{-4} - 1 \times 10^{-5}$ it occasionally causes an increase in sensitivity or a decrease. Thiamine monophosphate causes the same effects qualitatively as thiamine, but the changes are less pronounced. Thiamine diphosphate at $1 \times 10^{-7} - 1 \times 10^{-8}$ concn. increases the muscle sensitivity to acetylcholine. The action of thiamine and its derivs. cannot be due to a paralyzing effect of these substances on the activity of cholinesterase. Changes of sensitivity occur in eserized muscle whose cholinesterase has been previously inactivated. G. M. Kosolapoff

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

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

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



BARSKII, A. B. 11f

Effect of adenosinetriphosphate on activity of isolated mammal heart. E. H. Haiskil and A. G. Pugachev. *Doklady Akad. Nauk S.S.S.R.* 60, 1289-92(1948).—ATP is a powerful physiol. stimulator of heart action. Isolated hearts of rabbit and guinea pig were perfused with Ringer-Locke soln. at pH 7.3, with injection of ATP in the form of Na salt (formed immediately before the expt. from the Ha salt), into aortal canula using 0.03 to 0.3 mg. After a 7-10 sec. latent period, the height of systolic contractions dropped, and the rhythm was slowed down; after a few min. the contractions increased and became more frequent and eventually reached 50-90% over initial level. This usually returned to normal level after 10-15 min. Guinea pigs gave a more profound change than rabbits; the initial stage often resulted in heart stoppage for 30-40 sec. Prolonged perfusion of the hearts with 1×10^{-6} to 1×10^{-11} ATP (Na salt) gave a similar effect, as described above, down to 2×10^{-8} concn.; lower concns. gave considerably increased amplitude and rhythm of contractions (in 5-10 min. may cause 300-400% of normal); this persisted 10-15 min. after the perfusion.

G. M. Kosolapoff

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

BABSKIY, Ye. B.

11F

Electrophysiological analysis of action of acetylcholine on nerve centers. I. V. V. Artem'ev and E. B. Babskii (Moscow State Pedagog. Inst.). *Fiziol. Zhur.* (J. Physiol.) 33, 623-30(1949).--Application of acetylcholine (concn. 10^{-6} to 10^{-4}) to the visual lobes of the frog, without eserine, causes a variable and temporary increase of elec. activity. At 10^{-6} to 5×10^{-6} concn. combined with 2.5×10^{-6} concn. of eserine a considerable and lasting enhancement of spontaneous elec. oscillations takes place, with large amplitudes of both slow and fast oscillations. Eserinized acetylcholine solns. of higher than 10^{-6} concn. repress elec. activity of nerve centers. Hence acetylcholine appears to act in the regulation of the state of central nervous stimulation. G. M. Kosolapoff

CA BABSKIY, Ye. B.

11E

Effect of blocking of glycolysis in a nerve on a single tetanized contraction. E. B. Babskii and V. A. Novik. *Doklady Akad. Nauk S.S.S.R.* 70, 335-8 (1950).—The specimen of sciatic nerve-leg muscle of a frog, tetanized by a pair of electrodes at the distal end of the nerve and provided with a pair of impulse electrodes 2 cm. closer, and blocked for glycolysis by Na iodoacetate, lactate, or pyruvate, alone or combined, gave the following results: Iodoacetate leads to initial enhancement of the single contractions, followed by decline and even disappearance. The course of the entire phenomenon takes 5-8 hrs. in early spring specimens and 2-5 hrs. in late spring specimens. While veratrine stimulates the contractions, when applied near the tetanizing electrodes, it fails to affect the nerve treated with iodoacetate. Lactate and pyruvate (weaker of the 2) both stimulate the single contractions. It is suggested that the results are explained by lack of synthetic generation of adenosinetriphosphate and creatine phosphate in the 1st instance, and ample opportunity for synthesis in the latter instance. G. M. K.

Electrophysiological analysis of the action of acetylcholine on nerve centers. II. Action of cocaine, prostigmine, and atropine on the electrical activity of the visual lobes of a frog. V. V. Artem'ev and E. B. Babskii (Lenin State Pedagog. Inst., Moscow). *Fiziol. Zhurn. (Physiol.)* 36, 151-60 (1950); cf. C.A. 44, 4105b.—Cocaine or prostigmine at 1×10^{-6} to 2×10^{-4} concn. acting on the visual lobes of a frog enhance the spontaneous elec. activity of the nerve centers. Atropine in similar concn. does not affect or lower the activity and completely eliminates (blocks) the action of acetylcholine; applied after the

latter it leads to restoration of the normal oscillations, although reflex actions are not eliminated. G. M. K.