

AROYAN, A.A.; KHAZHAKYAN, L.V.; ARUTYUNYAN, A.V.; GRIGORYAN, G.L.

Anomalous chloromethylation of methyl ester of o-isopropoxybenzoic acid. Izv. AN Arm.SSR.Khim.nauki 17 no. 2: 176-183 '64. (MIRA 17:6)

1. Institut tonkoy organicheskoy khimii AN Armyanskoy SSR.

ARQYAN, A.A.; KHACHATRYAN, N.Kh.

Derivatives of benzofuran. Part 11: Synthesis of some amines
and ethylenediamines containing a 2-methyl-5-methoxybenzofuryl
radical. Izv. AN Arm. SSR. Khim. nauki 17 no. 2:212-219 '64.
(MIRA 17:6)

1. Institut tonkoy organicheskoy khimii AN Arnyanskoy SSR.

MENDZHOYAN, A.L.; ARCYAN, A.A.; KALDREKYAN, M.A.; OVSEPYAN, R.R.;
ARSHAKYAN, R.Sh.

Synthesis of some 4-(1,2,4-triazolyl), 2-(4-methyl-carbethoxythiazolyl)
and 2-(6-methoxybenzothiazolyl) amides. Izv. AN Arm.SSR.Khim.nauki 17
no. 2:204-211 '64. (MIRA 17:6)

1. Institut tonkoy organicheskoy khimii AN Arayanskoy SSR.

ARBYAN, A.A.; ADARYAN, A.S.; IRADYAN, M.A.

quinoline derivatives. Part 4: Reactions of 1,2,3,4-tetrahydro-
quinoline. Izv. AN Arm.SSR, Khim.nauki 18 no.1:76-82 '65.
(MIRA 18:5)

1. Institut tonkey organicheskoy khimii AN Armyanskoy SSR.

AROYAN, N. O.

Continuous operation for printing and classifying
of documents. U.S. Army, U.S. Navy, U.S. Air Force,
and N. A. T. U.S.S.R. (U.S.S.R.)
The centrifuge is a performed in a drum
that the grapes and a bottom drive having a hole
which the most flows for classification.

AROVAN, M.O.; GOGODZE, G.S.

Mechanization of the manufacture of canned vegetable appetizers
at the Gori cannery. Kons. i ov.prom. 15 no. 7:17-19 XI '60.
(MIRA 13:6)

1. Spetsial'noye konstruktorskoye byuro sovmarkhosa Gruzinskoy
SSR.
(Gori—Canning and preserving—Equipment and supplies)

DEBEKHIN, A.P.; AROYAN, V.Kh.

Mineral springs of the Vokhchi and Megri-get basins.
SSR.Ser.FMOT nauk 1, no.1:39-52 '48.

Inv.AN Arm.
(MLRA 9:8)

1. Institut geologicheskikh nauk AN Arnyanskoy SSR.
(Vokhchi Valley--Mineral waters)
(Megri-get Valley--Mineral waters)

ARCELOVA, V. N.

"On the Physiology of Spinal Shock." Gen Med Sci, Second
Moscow State Medical Institute I. V. Stalin, 4 Oct 54. (V),
22 Sep 54)

SO: Sur 432, 29 Mar 55

KROPSHOT, R., ~~AKB, V~~

Superconducting magnets. Usp. fiz. nauk 78 no. 4:653-678 1962.

(MIRA 15:12)

(Superconductivity) (Magnets)

YUGOSLAVIA

KELER-BACOKA, MIRA, Dr, ARPAD, HAHN, Dr; Department of Medicine, Medical faculty, University of Zagreb (Klinika za unutrasnje bolesti Medicinskog fakulteta Sveucilista u Zagrebu), Zagreb

"The Influence of Ion Exchanger Desferrioxamin B on Iron Metabolism"

Zagreb, Liječnički Vjesnik, Vol 87, No 12, 1965, pp 1329-1338

Abstract: [Authors' English summary]: The transferrin iron and the copper levels in serum as well as the amounts of these elements excreted in urine during treatment with the ion exchanger Desferrioxamin B (Desferal) was investigated in two patients with haemochromatosis. No significant changes in transferrin - bound iron serum and serum copper concentrations or in excreted copper amounts were found. Conversely, the amounts of urine - excreted iron increased significantly. One of the patients excreted 4563 mg and the other 711 mg of iron during the administration of desferal. Initial experiments concerning investigation in the oxidative and peroxidative activities of the serum enzymes after i.v. injection of desferrioxamin B pointed to the practically unchanged activity of the enzyme PFD-oxidase and markedly increased activity of the enzyme catalase some hours after administration. 1 Eastern, 10 Western references. Manuscript received 25 May 1965.

ARPAI, J.

From workshops of technical microbiology. p. 564.
TECHNICKA PRACA, Bratislava, Vol. 6, no. 9, Sept. 1959.

SO: Monthly List of East European Accessions, (EAL), LC. Vol. 5, No. 6,
June 1956, Uncl.

APR 1953

CZECH

Reduction of the end point in potentiometric titration under conditions of biological media. Jan Hlavinka and Arpa (Vyzk. dat. 1953, Praha, Bratislava, Czechoslovakia, 1953-4(100)). The main results are discussed. Instead of the customary expression dE/dC the value obtained by its principal derivation is suggested and recommended as more convenient for the purpose of current analytical practice (i.e. values of the second, or volumetric values). E. J. Dolezal.

Bacterial mycelia. J. Appl. and Ind. Microbiol. (Inst. Food Ind., Braintree, Essex, Eng.) 4, 319-320 (1968); cf. Oxford J. Inst. Technol., C.A. 48, 161-162; *Microbiology* 22, 3 (1972). Both growing *Penicillium chrysogenum* and related mycelial mass fermentation products were lysed by a mixture of antibiotics: penicillin, bacillus subtilis, and closely related spore formers. The growth of the mycelia was not inhibited by penicillin (6 g/ml). Production of benzothiazole ligands by means of myxobacteria in media containing mycelium of the main nutritional component is suggested. (M. J. S. S.)

(1)

ARAI, J.; JANOTKOVA, O.; LUSCON, S.

Room sterilization in the food industry by ultraviolet light. p. 199.
PRUMYSL POTRAVIN. Praha. Vol. 6, no. 4, 1955.

SOURCE: East European Accessions (EEAL), LC, Vol. 5, no. 3, March 1956.

ARPAL, J.

Use of antibiotics in the food industry. p. 306. Vol. 6, no. 6.
1955. PRUMISL POTRAVIN. Praha.

Source: East European Accessions List (EEAL), LC, Vol. 5, No. 3. March 1956.

ARPAI, J.; ~~XXXXXXXXXX, O.~~

SCIENCE

Periodicals: BIOLOGIA Vol. 10, no. 6, 1955

ARPAI, J. ; JANOTKOVA, O. A penicillin resistant type of highly sensitive test organism Bacillus subtilis. p. 677.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

ARPAI, J.

SCIENCE

Periodicals: BIOLOGIA Vol. 10, no. 6, 1955

ARPAI, J. New Technology Days for experts in the starch industry. p. 782.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, No. 5,
May 1959, Unclass.

CZECHOSLOVAKIA/Microbiology - Antibiosis and Symbiosis F-2
Antibiotics.

Abs Jour: Ref Zhur - Biol., No 18, 1958, 81448

Author : Arpai, J., Yanotkova, O.

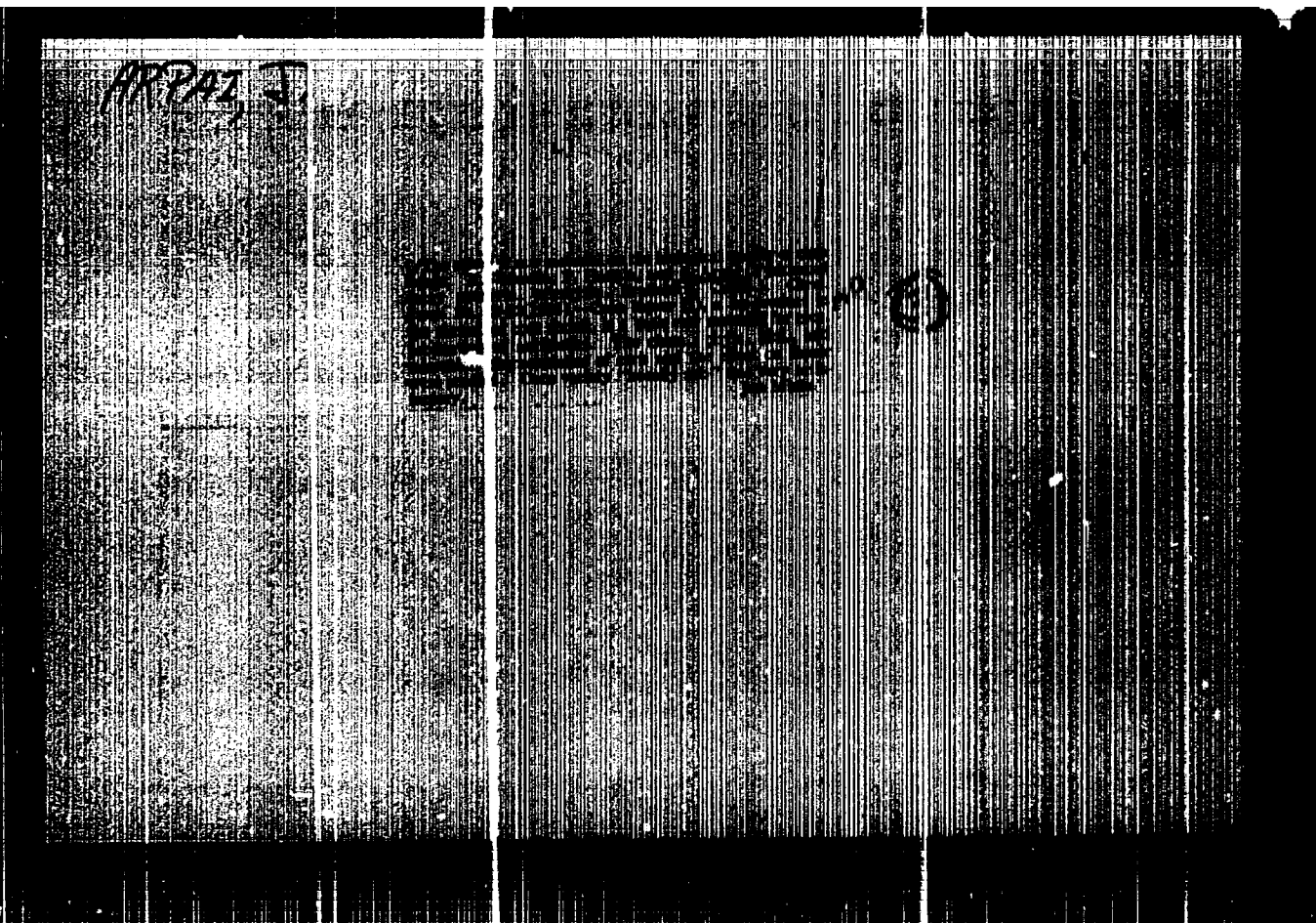
Inst : -

Title : The Problem of Bacterial Mycolysis.

Orig Pub: Folia biol., (Ceskosl.), 1956, 2, No. 1, 191-192

Abstract: No abstract.

Card 1/1



ARIAT, J.

Determine the number of squares in Penicillium chrysogenum by the
and metric method. MATH. BIOLOGIA. (Slovakia: Bratislava)
Slovakia. V 1. 11, no. 7, 1950.

Source: East European Accessions List, (EEAL), Library of Congress,
Vol. 5, no. 12, December 1956.

ARPAI, J.

Selection of conidia of the mold Aspergillus terreus Thom.
differentiated according to weight.

F. 213, (Ceskoslovenska Mikrobiologie) Vol. 2, no. 4, July 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 1, November 1957

ARPAI, J.

ARPAI, J. Use of actidion in differential diagnosis of microbiologic
control of yeast. p. 11 Vol 3, no. 1, Jan. 1957
KVASHY PRUMYSL (Ministerstvo potravinarskeho)
Praha, Czechoslovakia

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 APRIL 1957

ARPAI, J.

"Fractionalization of spores in the selection of itaconic acid producers."

p. 5 (Biologické Práce) Vol. 3, no. 3, 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (MEAT) LC, Vol. 7, no. 4,
April, 1958

CZECHOSLOVAKIA/Microbiology - General Microbiology

Abs Jour: Ref Zhur - Biol., No 18, 1958, 81339

Author : Arpai, J., Stuchlik, V.

Inst : -

Title : Use of a Special Apparatus for Yeast Selection.

Orig Pub: Kvasny prumysl, 1957, 3, No. 8, 182-184

Abstract: An apparatus is described for isolating yeasts from a single spore, which represents a modification of the apparatus of Negashek et al. -- (Necasek, Paleckova, Teser, Persilia, 1954, 26, 105).

Card 1/1

3

CZECHOSLOVAKIA/Plant Diseases. Diseases of Cultivated Plants. 0-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25384.

Author : Arpai, J., Pol'tin, O., Yanotkova, O.

Inst : _____

Title : An Investigation of the Appearance and Fungistatic
Activity of *Trichothecium plasmoparæ* Viala et Marsais.
(Issledovaniya poyavleniya i fungistaticheskogo deystviya
Trichothecium plasmoparæ Viala et Marsais)

Orig Pub: Pol' noho podarstvo, 1957, 4, No 1, 68-87.

Abstract: The pink bloom of *Trichothecium* fungus was observed here and here on grape leaf mildew spots near Bratislava (Czechoslovakia) in 1953 and 1955 from June on, which checked the further spread of disease in an area where the vineyards were very seriously in-

Card : 1/3

Card : 2/3

//

CZECHOSLOVAKIA/Plant Diseases. Diseases of Cultivated Plants. 0-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25384.

laboratory for plant protection of the Slovakian
Academy of Sciences.

Card : 3/3

ARPAI, J.; VALENTIN, F.

Study on the kinetics of the itaconic acid biosynthesis.

P. 669. (Chemicke Zvesti.) (Praha, Czechoslovakia) Vol. 11, No. 11, Nov. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, May 1958

CZECHOSLOVAKIA / Microbiology. Antibiosis and Symbiosis. Antibiotics.

F

Abs Jour : Ref. Zhur - Biol., No 21, 1958, No 95052

Author : Arpai, Jan; Foltyn, Oskar; Janotkova, Olga

Inst

Title : Antifungus Activity of Isolated Strains of Trichothecium in Relation to Plasmodium Viticola.

Orig Pub : Biologia, 1957, 12, No. 4, 266-279

Abstract : The antifungus activity was investigated of cultural liquids, unselected and selected, obtained from single spore strains of Trichothecium Link, especially in relation to Plasmodium viticola (Berk et Court) Ferlose et de Toni. Representatives of P. Trichothecium formed an antibiotic substance, active in relation to this parasite, the fungistatic concentration (90% of repression

Card 1/2

CZECHOSLOVAKIA / Microbiology. Antibiosis and
Symbiosis. Antibiotics.

F

Abs Jour : Ref. Zhur - Biol., No 21, 1958, No 95052

of germination of the conidia) of which comprised 2.5 ml. Treatment of grapevine with a solution of the antibiotic substance in this concentration in tests in vivo proved the protective effect through artificial injection of the grape plants in 90% of the cases, and in 80% of the cases it prevented the further spread of the disease where it was already strongly developed. The specific substance which regressed P. viticola is formed only by the strains of trichothecium which are natural antagonists of P. viticola. This permits the conjecture in the given case of the presence of a substance which differs from the antibiotic of trichothecium.

Card 2/2

~~112114~~
ARPAL, J.

A conference on the tasks of food microbiology in Prague, December 11-13, 1956.

P. 556, (Biologia) Vol. 12, no. 7, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (KEAI) Vol. 6, No. 11 November 1957

ARPAI, J.; JANETKOVA, O.; FRIZANOVA, M.

SCIENCE

ARPAI, J.; JANETKOVA, O.; FRIZANOVA, M. Respiratory changes in yeast under the influence of chlortetracycline. p. 321.

Vol. 11, No. 11, 1957.

Monthly Index of East European Accessions (HEAI) LC, Vol. 1, No. 12, Dec. '58

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application. Synthetic and Natural Medicinal Substances. Galenicals and Medicinal Forms. H.

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, 36013

Author : Arpai, J.

Inst :

Title : Concerning Certain Pharmaceutically Important Fermentation Products.

Orig Pub : Farmacia (Ceskosl.), 1957, 26, No 4, 104-110.

Abstract : A review of the report on the contemporary state of fermentation methods for the production of certain solvents, acids, germinators, steroid derivatives and also of the methods for the production of antibiotics. -- T. Zvarova.

Card 1/1

Art

Country : CZECHOSLOVAKIA
Category : Chemical Technology. Fermentation Industry

H-27

Abs. Jour : Ref Zhur-Bhimiya, No 14, 1959, No. 51848

Author : Arpai, J.; Janotkova, G.

Institute : -
Title : Investigation of Yeast Washing

Orig Pub. : Kvasny prumysl, 1958, 4, No 10, 223-229

Abstract : Effect of water washing on quality of yeast (Y) used in breweries was investigated. Comparative evaluation is given for the periodical and continuous washing at 5° and 10° temperature. Advantages of the continuous washing of commercial grade Y are demonstrated. The unwashed Y had lower fermenting activities than those washed by either batch or continuous methods. The generation of CO₂ per hour in the former case comprized 1.10, in the second 1.64, and

Card: 1/2

H 27

Country :
Category : Chemical Technology.

Abs. Jour : Ref Zhur-Khimiye, No 14, 1959, No 61348

Author :
Institute :
Title :

Orig pub. :

Abstract : in the third 1.08 ml/0.1gr Y. The ability to
Con'd multiply was the highest of Y washed by the
countercurrent method. Effects of washing
on the physiological properties of pure cul-
tures of the baker's and brewer's ~~Y's~~ were
investigated. -- Ye. Plevako

Card: 2/2

H-137

ARPAI, J.

TECHNOLOGY

Periodical: KVASNY PRUMYSL. Vol 4, no. 10, Oct. 1958

ARPAI, J.; Janotkova, O. A study on the washing of yeast. p. 249.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959, Uncl.

ARPA J.

COUNTRY : Czechoslovakia
CATEGORY :

4-7

ABS. JOUR. : RZKha., No. 1959, No. 21376

AUTHOR : Arpa, J.; Janotkova, O.

INST. :

TITLE : Study of the washing of Yeast. Part 2.
Laboratory and Pilot-Plant Experiments on
Addition of Chemicals and Antibiotics to the

ORIG. PUB. : Kvasny Prumysl, 1958, 4, No 11, 249-256

ABSTRACT : On investigation of the effect of various
chemicals and antibiotics on pure cultures of yeast (Y),
wild yeasts, and extraneous microorganisms of brewer's Y,
it was found that addition of chlortetracycline to the
wash water accelerates proliferation of Y by about 25%, and
the initial stage of fermentation by 18-50%, without af-
fecting the taste of the resultant beer, and imparting at
the same time strong bactericidal properties. Part I see
RZKha. 1958, No 14, 51348. -- G. Oshayan.

CARD: * Wash. water.

COUNTRY : CZECHOSLOVAKIA
CATEGORY :
ABS. JOUR. : RZhBiol., No.3 1959, No. 10035
AUTHOR : Arpaj Jan
INST. : ----
TITLE : The General and the Specific in the Genetics of
Microorganisms
ORIG. PUB. : Nasa veda, 1958, 5, No 3, 99-104
ABSTRACT : No abstract.

Card:

1/1

ARPAI, J.

MILITARY & NAVAL SCIENCES: GENEVAL

Periodical NASA VEDA. Vol. 5, no. 10, Oct. 1958.

ARPAI, J. For wider use of microbiology in biochemical analysis. p. 435.

Monthly List of East European Acquisitions (EFAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

ARPAI, J.; ~~CHITROVA, G.; JANETKOVA, O.~~

TECHNOLOGY

periodicals: PRUMYSL POTRAVIN Vol. 9, no. 10, Oct. 1959

ARPAI, J.; CHITROVA, G.; JANETKOVA, O. Antibiotics applied as specific inhibitors in the manometric control of the metabolism of baking yeast. p. 530.

Monthly List of East European Accessions (ELAI) LC Vol. 8, no. 5
May 1959, Unclass.

ARPAI, J.

"New method of determining spore-forming microbes when analysing air microflora with an aeroscope. p. 597."

FRUMYSL POTRAVIN. Praha, Czechoslovakia. Vol. 9, no. 11, 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59 unclas

ARPAI, J.

SCIENCE

ARPAI, J. Study of the mechanism of genetic processes involving the selection of microorganisms. p. 265.

Vol. 13, No. 4, 1958.

Monthly Index of East European Accessions (EEAI) [C], Vol. 7, No. 12, Dec. '58

ARPAI, J.

New method of examining meat surface bacteria, p. 469.

CESKOSLOVENSKA HYGIENA. Praha, Czechoslovakia. Vol. 4, no. 8, Sept. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

ARPAI, J.; BEHUM, M.

Experiments with surface disinfection of meat by chlortetracycline before freezing. (Supplement) p. 18

PRUMYSL POTRAVIN. (Ministerstvo potratinarskyho prumyslu) Praha, Czechoslovakia
Vol. 10, no. 1, January 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959
Uncl.

ABSAI, J

"Morphologic and biochemical investigation of genetic changes in mutants of Aspergillus terreus caused by ultraviolet rays."

BIOLOGIA, Bratislava, Czechoslovakia, Vol. 14, no. 1, 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 2, No. 6, Sept 59
Unclass

ARPAI, Jan.

Opinions on the mechanism and kinetics of the effect of low temperature on microorganisms. Biologia 15 no.6:461-472 '60.

(ARAI 9:10)

1. Mikrobiologické oddelenie Vyskumného ústavu mäsárskeho, Bratislava.

(MICROORGANISMS) (FOOD) (LOW TEMPERATURE RESEARCH)

ARPAI, Jan

Effect of freezing temperature on the quota of microorganisms
dead or physiologically injured. Biologia 16 no.1:31-39 vol.
(ARAI 10:7)

1. Mikrobiologické oddelení Vyskumného ústavu hraničarského,
Bratislava.
(MICROORGANISMS) (COLD)

ARPAI, Jan, C.Sc.

New method of sedimentary fractioning of bacteria cells. Biologia 16
no.7:503-510 '51.

I. Vyskumy ustiv mrasiarensky, Mikrobiologiske oddelenie, Bratislava,
Trencianska 53.

(BACTERIOLOGY)

ARPAI, J.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Microbiological Department, Research Institute for Freezing
Technique (Mikrobiologické oddelení Vyskumného ústavu mraziaren-
ského), Bratislava.

Source: Bratislava, Farmaceutický Obzor, Vol XXX, No 5, 1961, pp 142-150.

Data: "Drying Under Zero Temperature. I. Technique of Sublimation."
[Centigrade]

(1)

28

878 90103

CZECHOSLOVAKIA

Jan ASPAL, Department of Microbiology of Cold Research Institute
(Mikrobiologické oddelenie Vyskumného ústavu vraziarenského), Bratislava.

"Effect of Freezing on Electrical Conductivity of Bacteria Suspensions."

Bratislava, Biologia, Vol 17, No 12, 1962; pp 861-874.

Abstract [German summary modified]: Studies with 10 strains: *Micrococcus cinnabarcus*, *Sarcina lutea*, *Streptococcus faecalis*, *Escherichia coli*, *Serratia marcescens*, *Pseudomonas aeruginosa* and *Fluorescens*, *Clostridium sporogenes*, *Bacillus megatherium* and *Achromobacter liquefaciens*; using 9 electrolytes: HCl , FeCl_3 , HgCl_2 , CaCl_2 , NH_4Cl , NaCl , MgCl_2 , ZnCl_2 and CuCl_2 ; freezing for 15 or 7 days at -7 , -18 or -30° centigrade. Three tables, 3 diagrams; 6 Czech, 1 Soviet, 21 Western references.

1/1

ARPAI, Jan

Effect of frost in the electrical conductivity of bacterial suspensions.
Biologia 17 no.12:861-874 '62.

1. Mikrobiologické oddelenie Vyskumného ústavu mrazárenského v
Bratislave.

(BACTERIA)

(COLD)

ARPAI, J.

Selective effect of freezing as reflected in growth curves. Folia
microbiol. 8 no.1:18-26 '63.

1. Department of Microbiology, Research Institute of Refrigerating
Industry, Bratislava.
(COLD) (ESCHERICHIA COLI) (CULTURE MEDIA) (PSEUDOMONAS)
(REFIGERATION)

CZECHOSLOVAKIA

ARPAI, Jan; Department of Microbiology of the Research Institute
for Cryogenics [Mikrobiologické Oddelenie Vyskumného Ústavu Mra-
ziarenskeho], Bratislava.

"Influence of Freezing on the Changes of Electrical Conductivity
of a Bacterial Culture During its Growth."

Bratislava, Biologia, Vol 18, No 10, 1963, pp 771 - 780

Abstract: The influence of freezing on the growth and metabolism
of bacteria was studied by means of changes of electrical con-
ductivity. It was found that the changes in the metabolism and
growth are parallel; when one increases so does the other. With
the increase in the number of cells in a medium its resistance
does not change, but conductivity increases. This is explained
by the increase in the dissociated products of metabolism. The
deviation from linear relationship is explained by damage to
cellular membranes.

5 Figures, 1 Table, 7 Western, 12 Czech, 1 Russian reference.

1/1

3

ARPAL, Jan, dr.

Microbiological examination of frozen spinach. Průn potravín
14, no. 9: 477-480 8'62.

1. Mikrobiologické oddelenie Vyskumného ústavu mraziarenskeho,
Bratislava.

ARPAI, J.

The growth of microorganisms in foodstuffs in cold milieu.
Cesk. hyg. 9 no.3:127-139 Ap'64

1. Mikrobiologické oddelenie Vyskumneho istavu pre konser-
vaciu potravín, Bratislava

*

ARPAI, Jan

Effect of the suspension medium on nonlethal damage to bacteria
by cold. Biologia (Bratisl.) 19 no.3:171-179 '64

1. Mikrobiologické oddelenie Vyskumného ústavu Bratislavského
v Bratislave.

*

1964, Jan, 66c.

Examination of the activity of proteolytic enzymes in microorganisms isolated from frozen meat. Pt.4. Chem invest. 13 no.2:117-127 '64.

1. Food Canning Research Institute, Bratislava, Slovenska 53.

ARPAI, Jan

Stabilization of frozen food by the new glazing method.
Prum potravin 15 no. 7:336-339 JI '64.

1. Research Institute of Food Conservation, Bratislava.

APPAI, Jan, CSO.

Effect of psychrophilic microorganisms on the quality of food products. Pruz potravin 15 no.11:574-576 N '64.

1. Department of Microbiology of the Research Institute of Food Canning, Bratislava.

L 13547-66 EWA(j)/T/EWA(b)-2 JK

ACC NR: AP6006003

SOURCE CODE: 02/002/65/011/001/0271/0271

AUTHOR: Arpai, J.

42 B

ORG: Research Institute for Food Preservation, Bratislava (Výskumny ustav pre konzervaciu potravín)

TITLE: Effect of low suboptimal temperatures on the biosynthesis of nucleic acids in mesophilic and psychrophilic bacteria [This paper was presented during Biophysical Days, Brno, 12 June 1964.]

SCOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 274

TOPIC TAGS: bacteria, nucleic acid, biosynthesis, temperature

ABSTRACT: When incubation temperature was decreased to prolong the generation phase tenfold in a mesophilic strain of Escherichia coli and a psychrophilic strain of Pseudomonas fluorescens, nucleic acid increased, especially in the mesophilic microbe, during the lag and rapid-growth phases; no major qualitative change in the psychrophilic bacterium. [JPRS]

SUB CODE: 06 / SUBM DATE: none

cont 1/1 HW

ANDREYEV, G.Ya., kand. tekhn. nauk; LAKTIONOV, N.M., inzh.;
inzh.; KUSHAKOV, V.I., inzh. ARPENT'YEV, B.M.,

Semiautomatic assembly of heated wheel pairs of railroad cars.
Mashinostroyeniye no. 5:15-17 N-D '65.

(MIRA 18:12)

ARFMT' YEV, V.

The budget and development of the economy and culture of the
Moldavian S.S.R. Fin. SSSR 19 no.5:34-37 My '58. (MIRA 11:6)

1. Ministr finansov Moldavskoy SSR,
(Moldavia—Budget)

ARFENS'YEV, V.

Financial organs and local industry. Fin. SSR. 22 no. 2:26-28
F '61. (MIRA 14:2)

1. Ministr finansov Moldavskoy SSR.
(Moldavia--Industrial organization)
(Moldavia--Finance)

ARPENT'YEV, V.

Make payments of deductions from insurance into regional budgets.
Fin. SSSR 23 no.7:58-61 J1 '62. (MIRA 15:7)

1. Ministr finansov Moldavskoy SSR.
(Moldavia--Budget) (Moldavia--Insurance--Taxation)

ARPIAYNEN, V., aspirant

Use more effectively the technical navigational equipment.
Mor.flot 26 no.1:23 Ja '66.

(MIRA 19:1)

1. Leningradskoye vyssheye inzhenernoye morskoye uchilishche
imeni admirala Makarova.

ARRAGO, L. R.

36-71-9/16

AUTHOR: Arrago, L. R.

TITLE: The Effects of Vertical Currents on the Exchange of
Moisture (Vliyaniye vertikal'nykh tokov na vlagobmen)

PERIODICAL: Trudy Glavnoy geofizicheskoy observatorii
, 1957, Nr 71, pp. 129-144 (USSR)

ABSTRACT: Vertical currents in limited areas, particularly over basins and well-wetted surfaces, are of considerable importance. This is true also of inroads of moving air over ground of variable roughness, and differing temperatures. These factors produce vertical currents reinforced by buoyancy factors. Equations for the transfer of water vapor were solved by M.E. Shvetz who found that descending currents bringing down dry air increase evaporation and that ascending currents decrease the humidity gradient and decrease evaporation. The volume of air involved is of significance. Currents in anticyclones covering large areas act quite differently. If the action of limited currents is added to the larger factors, the results are even more noticeable. In formulating an equation for the diffusion of water vapors in a stationary mass, a case of vertical component of velocity and horizontal advection (air-mass) is considered without taking into account the turbulent effects.

Card 1/2

36-71-9/16

The Effects of Vertical Currents on the Exchange of Moisture (Cont.)

Considering various special and simplified cases, the author suggests solutions for distribution of moisture over the basins and wetted surfaces and indicates the values of specific evaporation. The influence of water exchange in the atmosphere is substantial and must be taken into account in the construction of water reservoirs, particularly in hilly country. There are 8 figures and 11 references, of which 9 are USSR.

AVAILABLE: Library of Congress

Card 2/2

ARRAGO, L.R.

Vertical currents in the atmosphere over a thermally inhomogeneous surface. Study GGO no.99:112-122 '59.
(MIRA 1314)

(Winds)

ARRAGO, L.R.; SHVETS, M.Ye.

Theory of the formation and evolution of nonconvective clouds.
Trudy GGO no.121:53-58 '61. (MIRA 15:5)
(Cloud physics)

ARRAGO, I. S.

Evolution of cloudiness. Trudy GGO no. L24:89-95 '62.
(MIRA 17 6)

ARRAGO, L.R.

Relationship between the distribution of heavy admixtures in
the atmosphere and the altitudinal changes in wind speed.
Izv. AN SSSR Ser. geofiz. no.5:810-817 My '63.

(MIRA 1646)

1. Glavnaya geofizicheskaya observatoriya imeni A.I. Vovaykova.
(Atmosphere)

ARRAGO, L.R.; SHVETS, M. Fe.

Distribution of heavy homogeneous pollution from an upper
source. Trudy Len. gidromet. inst. no. 15:47-51 '63.
(MIRA 17:1)

ARRAK, A.

Designer of an automatic bus fare box. Art. transp. 41 no. 3:20
Mr '63. (NIRA 6:4)

1. Glavnyy inzh. Tartuskogo avtobusno-taksonotornogo parka.
(Tartu—Motorbuses—Equipment and supplies)

ARRIGONI, I.M.; TARTAKOVSKIY, M.B.

Electrocardiographic observations in cardiac insufficiency treated by ligation of the external iliac veins. Trudy ISGMI 40:86-93 '98. (MIRA 12:8)

1. Fakul'tetskaya terapevticheskaya klinika Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (sov. klinikoy - prof.A.A.Kedrov).

(VEINS; ILIAC, surgery,
ligation in congestive heart failure ECG (Rus))
(CONGESTIVE HEART FAILURE, surgery,
ligation of iliac veins, ECG (Rus))
(ELECTROCARDIOGRAPHY, in var. dis.
congestive heart failure, after ligation of
iliac veins (Rus))

ARRIGONI, I.M., TELEKOVA, Yu.K.

Hygienic evaluation of standard textbooks used in medical schools.
Trudy ISGNI 45167-74 '58 (MIRA 11:11)

1. Kafedra gigiyeny detey i podrostkov Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (nav. kafedroy - prof. A.Ya. Gutkin).

(TEXTBOOKS--HYGIENIC ASPECTS)

ARRIGONI, I.M., ASOSKOV., S.M., KEDROV, A.A., KORSHOVA Ye.I.

Preliminary evaluation of the results of ligation of the external iliac veins in the treatment of chronic cardiac insufficiency. *Terap.arh.*
30 no.8:38-47 Ag '58 (MIRA 11:9)

1. Iz fakul'tetskoy terapevticheskoy (sav. - prof. A.A. Kedrov)
i fakul'tetskoy khirurgicheskoy (sav. - prof. P.M. Mupalkov) kliniki
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(CONGESTIVE HEART FAILURE, surg.
iliac vein ligation (Bus))
(VEINS, ILLIAC, surgery,
ligation in congestive heart failure (Bus))

ARRIGONI, I.M.; MINKIN, R.B.; RASPUTIN, A.M.; SOLOV'YEVA, Ye.A.;
TARTAKOVSKIY, M.B.

New method for a clinical evaluation of the electrocardiogram
(frequency analysis of waves of the ventricular complex).
Trudy ISGMI 48:408-433 '59. (MIRA 14:2)
(ELECTROCARDIOGRAPHY)

ARRIGONI, I.M.; MINKIN, R.B.; RASPUTIN, A.M.; SOLOV'YEVA (e.A.);
TARTAKOVSKIY, M.B.

Clinical significance of the frequency analysis of the ventricular
complex of the electrocardiogram. Trudy IBSNI 48 434-446 '99.
(MIRA 14:2)

(ELECTROCARDIOGRAPHY)

ARRIGONI, I.M. (Leningrad)

Results of treating of individual disorders in cardiac rhythm
with quinidine, quinine bromide and novocainamide. Klin.med.
no.7:91-95 '61. (MIRA 14:8)

1. Iz fakul'tetskoy terapevticheskoy kliniki (ser. - prof. A.A.
Kedrov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo
instituta.

(ARRHYTHMIA) (QUINIDINE) (QUININE) (PROCAINAMIDE)

ARRIGONI, I.M.

Treatment of circulatory insufficiency using the Digitalis lanata preparation isoplaride. Sov.med. no.3:132-136 '62. (MIRA 15:5)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. A.A. Kedrov) Leningradskogo sanitarno-gigiyenicheskogo nauchnogo instituta.

(DIGITALIS) (BLOOD--CIRCULATION, DISORDERS OF)

ARLISSE, V. YA.

23281. Sistema Doruskey I Poudok Dlya Malysk Bannerov. Zhurnal Aviat.
Tekhnol. in-ta, 7yo. 6, 1940, c. 3-43 - Bibliografi Nazv.

SO: PIZPIS' NO. 31, 1940

1949, p. 11.

3322. Lemski V. Izgotovleniya Detaley Iz Plastmas E. Prensiny i Dlya
Ikh Preshevaniya. Tsey Vosh. Prikl. Tekhnol. In-ty, Vp. 1, 1949
p. 42-43.

SO: LSTC 131 No. 31, 1949

ARRISSON, V. YA.

O neobkhodimyykh izmeneniiskh sushchestvuiushchei sistemy dovoluskov i posadok dlia razmerov do 6 mm. (Vestn. Mash., 1951, no. 4, p. 30-32)

(Necessary corrections in the present system of tolerances and fits for dimensions under 6 mm.)

DLS: TN4. V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953

HENNINGSEN, P. H.

✓ Permissible variations in coupled sized of parts with galvanized coatings. Test.
mash. 31, No. 12, 1951

SO: MIRA, September 1952.

SHCHERBSKOV, V.S., inzhener; ABRISSON, V.Ya., kandidat tekhnicheskikh nauk

Standard series of automatic instruments used in air conditioning control systems. Standartizatsia no. 6153-60 N-D 84.
(Air conditioning) (Thermostat) (MIRA 8:10)

ARRISSON, V.Ya.

New design of diaphragm-type drives, Priherostroenie no.5:1-4 My '57.
(Pneumatic control) (NIRA 10:6)

28.1000 (1068, 1089)

26236
S/119/61/000/008/002/008
D215/D302

X

AUTHOR: Arrisson, V.Ya.

TITLE: Pneumatic diaphragm actuators (sizes and technical characteristics)

PERIODICAL: Priborostroyeniya, no. 8, 1961, 3 - 5

TEXT: The author describes the properties of various types of pneumatic actuators and a method of calculating the working output thrust. The basic types of pneumatic actuators have the following features: Presence or absence of working spring; facility to regulate the characteristic of the working spring which permits the setting of the beginning and the end of stem travel; direction of motion of the output link on increasing the pressure in the diaphragm chamber (direct action, reverse action and double action); mode of motion of output link (reciprocating direct stroke modification, rotary - lever modification); presence of auxiliary arrangement allowing the change from automatic to manual operation of

Card 1/4

Pneumatic diaphragm actuators ...

26236
S/119/61/000/008/002/008
D215/D302

actuator; magnitude of output thrust Q ; full stroke of stem h with the change of pressure p in the diaphragm chamber from the initial to final value corresponding to the end of stroke. The output thrust is given by

$$Q_{\Delta p} = \Delta p A_0 = (p_2 - p_1) A_0 \quad (1)$$

where $p_2 - p_1$ is the pressure difference on both sides of the diaphragm in springless actuators; the difference between the final p_2 and initial p_1 pressures in the diaphragm chamber in the case of spring actuators. A_0 - effective area of diaphragm in cm^2 . Neglecting friction, the working thrust in the diaphragm spring actuator is given by

$$Q_{p_2} = (p_2 - p_0) A_0 - k_s h, \quad (2)$$

where k_s - stiffness coefficient of spring in kg/cm ; p_0 - pressure when $h = 0$; h - stroke. In the intermediate position when the plane

Card 2/4

Pneumatic diaphragm actuators ...

26236
S/119/61/000/008/002/008
D215/D302

of the diaphragm plate coincides with that of the diaphragm fixing, expression

$$A_0 = \frac{\pi}{12} (D^2 + Dd + d^2) = 0,262D^2(1 + \beta + \beta^2) \quad (3)$$

holds, where d - diameter of diaphragm plate; D - diameter of diaphragm; $\beta = \frac{d}{D}$. The optimum value of β is 0.75 in the case of profiled diaphragms. Substituting $\beta = 0.75$ into expression (3) yields $A_0 = 0.6 D^2$. The theoretical value of effective area corresponds to about 3/4 of the geometrical area of piston with the same outer

diameter D : $\frac{A_0}{A_{\text{piston}}} = \frac{0.6D^2}{0.785D^2} = 0.76$. With large changes of control pressure the formula (1) is used with a correction factor 0.85: $Q_{\Delta p} = 0.85 \Delta p A_0 \approx 0.5 \Delta p D^2$. The non-linearity of the plane diaphragm actuators caused by instability of A_0 does not exceed

Card 3/4

26236

S/119/61/000/008/002/008
D215/D302

Pneumatic diaphragm actuators ...

1.5 - 2 % for full travel. The non-linearity of those with formed diaphragms is not greater than 3 %. If a close correspondence between the position of the regulating element and the control pressure is required, a valve positioner is added into the system. The following are the dynamic properties of diaphragm actuators: fast response; speed of response of actuators without positioners decrease with the increase of friction; speed of response decreases with the increase of volume of diaphragm chamber; with large chamber volumes the speed of response of the actuator with a positioner can be increased by using a compensating pneumatic amplifier (type KSUMA (KBTsMA)); application of a positioner to small size actuators improves their dynamic characteristics. The improvement of frequency response characteristics of large actuators with positioners is obtained only if a compensating pneumatic amplifier is used in the positioner. According to GOCT 9468-60 (GOST 9468-60), full working travel of the output link of diaphragm spring actuator is to be obtained with the change of pressure in the diaphragm chamber from 0.2 to 1 kg/cm². There are 2 figures and 1 table.

Card 4/4

2623B
S/119/61/000/008/004/008 ✓
D215/D302

28.1000 (1064, 1089)

AUTHOR: Arrisson, V.Ya.

TITLE: Pneumatic bellows actuators

PERIODICAL: Priborostroyeniye, no. 8, 1961, 8 - 11

TEXT: The author describes the characteristics, operation and limitations of the bellows. He describes the expressions for the output thrust of ordinary and lever type bellows actuators and presents a nomogram for the correct selection of bellows for reliable actuator operation. Bellows used in pneumatic actuators are of single ply or double ply construction and are made of the following metals: bronze, Br. 62, GOST 1789-50 (Br. H2, GOST 1789-50) semitombal Ж80, GOST 1019-47 (L80, GOST 1019-47) or stainless steel 1X18H9T, GOST 5582-50 (Kh18H9T, GOST 5582-50). In a pneumatic actuator, the bellow is used in conjunction with a spring. The stiffness of the elastic element is constant and the stiffness coefficient K_{st} in Kg/mm depends on the bellows' outside diameter.

Card 1/5

Pneumatic bellows actuators ..

26218
S/119/61/000/008/004/008
L215/D302

material, wall thickness, number of plies, number of convolutions and the ratio of inside to outside diameter, $d/D = S$. If, for instance, the maximum permissible deformations of bellows due to tension and compression are equal, the elastic force of bellows on stretching is given by

$$Q_c = K_{st} \left(\frac{h_{max}}{2} - h \right), \tag{1}$$

where h_{max} - maximum stroke. In the neutral position $h = h_{max}/2$ and the force is zero. At the beginning of stroke $h = 0$; at the end of stroke $h = h_{max}$. According to manufacturers' data the maximum permissible strokes due to tension and compression are in the ratio $a:b$. Therefore, the bellows in an actuator is so designed that in the neutral position it is at the point $a/(a + b)$ from the beginning of stroke of the stem. Thus the expression (1) in generalized form becomes

$$Q_c = K_{st} \left(\frac{a}{a + b} h_{max} - h \right). \tag{2}$$

Card 2/5

Pneumatic bellows actuators

26238

S/119/61/000/008/004/008
D215/D302

The effective area A_0 of the bellows is given by

$$A_0 = \frac{\pi}{4} \left(\frac{D+d}{2} \right)^2 \approx 0.2(D+d)^2 = 0.2D^2(1+\beta)^2. \quad (3)$$

According to the makers' data $\beta = 0.55$ and $A_0 = 0.50D^2$ for $D \leq 20$ mm; $\beta = 0.65$ and $A_0 = 0.55D^2$ for $20 < D < 80$ mm; $\beta = 0.72$ and $A_0 = 0.60D^2$ for $80 < D < 100$ mm. The output thrust of the bellows actuator is expressed by

$$Q_{\Delta p} = (p_2 - p_1) A_0 = (K_{ss} + K_{st})(h_2 - h_1) \quad (8)$$

where $Q_{\Delta p}$ - output thrust with the presence of error in stem travel; p_2 and p_1 - air pressures; h_2 and h_1 - corresponding stem strokes; K_{ss} - stiffness coefficient of working spring. It can be seen from (8) that an output thrust can only be obtained if, on change of pressure in the actuator head from p_1 to p_2 , the stem is

Card 3/5

26238

S/119/61/000/008/004/008
D215/D302

Pneumatic bellows actuators

held in the position h_1 , i.e. its position does not correspond to the value of stroke given by the static characteristic $h = f(p)$. It can also be seen that the output thrust neither depends on pre-tension of the working spring, nor on the nature of bellows deformation (tension or compression). Maximum output thrust is obtained with the pressure P_{max} if the stem is in the initial position $h = 0$, when the pressure in the head is either less or equal to the pressure p_0 opposing the pre-tension of the spring:

$$Q_{max} = (p_{max} - p_0) A_0 = (K_{ss} + K_{st}) h_{max} \quad (10)$$

In the case of lever type bellows actuators, expressions (8) and (10) are modified by the factor i_g , which represents the transmission ratio l/m from spring to axis of the stem. The magnitude of the maximum permissible stroke of the bellows is $(\sigma/D)100$ if a very long life is expected. The non-linearity of the bellows actuator does not normally exceed 1%. The bellows are sensitive to fric-

Card 4/5

Pneumatic bellows actuators ...

26238

S/119/61/000/008/004/008

D215/1302

tion, however, which introduces hysteresis errors. The stability is poor if the static and dynamic loads, imposed by regulating elements of unbalanced type, is not constant. The author mentions the absence of proper GOST standards and normalizations for bellows in the USSR. At the end of the paper an example of the use of the nomogram is given. There are 6 figures.

Card 5/5

ARRISSON, V. Ya., kand. tekhn. nauk

National system of devices and means of automation.
Standartizatsia 28 no.4:45-49 Ap '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut normaliza-
tsii v mashinostroyenii.

ARRO, A.A.

Thermoregulating valves for refrigerating machinery units. Ser.III:
Nov.mash., obr. i sred.avtomatiz. no.59:62-65 '69. (MIRA 16:12)

1. Tartuskiy priborostroitel'nyy zavod.

ARRO, I.; EISEN, O., kandidat tehnikeskikh nauk

Spectrum analytical determination of light aromatic hydrocarbons
in the distillation products of Estonian shale. Eesti tead akad tehn
suus 9 no.3:187-194 '60. (EBAI 10:3)

1. Institut khimii, Akademi nauk Estonskoy SSR.
(Spectrum ultraviolet) (Hydrocarbons)
(Estonia--Shale) (Benzene) (Aromatic compounds)
(Distillation) (Toluene) (Xylene) (Propylbenzene)

EYZEN, O. [Eisen, O.], kand. tekhn. nauk; ARRO, I.; RAUDE, H. [Raude, H.]

Aromatic hydrocarbons of the 150^o-300^oC fraction of shale tar
produced in compartment kilns. Izv. AN Est. SSR. Ser. fiz.-mat.
i tekhn. nauk 12 no.4:439-445 '63. (MIRA 17:1)

1. Institut khimii AN Estonskoy SSR.