ERNEST, Jersy (Lodz, ul. Brzezna 12, m 5)

Adhesive arachnitis in the region of the optic chiasm. Polski cygod. lek. 9 no.29:915-917 19 July 54.

1. Z Zakladu Medyoyny Sadowej A.M. w Lodzi, kierownik: prof. dr Bronislaw Puchowski.

(ARACHWOID, diseases, arachnitis, adhesive, in region of optic chiasm)

ERNEST, Jerzy

Diagnosis of air embolism in autopsy. Polski tygod. lek. 9 no.46:1484-1487 15 Nov 54.

1. Z Zakladu Medycyny Sadowej A.M. w Lodzi; kierownik: prof. dr B.Puchowski.

(EMBOLISM,

air, diag. in autopsy, technic)

(AUTOPSY,

diag. of air embolism, technic)

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Cases of air embolism in obstetrics and gynecology. Gin. polska 25 no.4:345-353 Oct-Dec 54.

1. Z Zakladu Medycyny Sadowej Akademii Medycznej w Lodzi. Kierownik: prof. dr. B. Puchowski.
(EMBOLISM,
air, in obst.)
(PREGNANCY, complications,
air embolism)
(IELIVERY, complications,
air embolism)
```

ERNEST, Jersy

Pathogenesis of vesicular emphysema of the intestines. Polski przegl.chir. 27 no.3:251-254 Mar '55.

1. Z Zakladu Medycyny Sadowej A.M. w Lodsi. L. Kierownik: prof. dr. B. Puchowski. Lods, ul. Brsesna 12 m. 5.
(MCHYSRIA.

vesicular of stomach & duodemum causing pulm. air embolism)

(PULMONARY MADOLISM AND THROMBOSIS

air embolism caused by vesicular emphysema of stomach & duodenum)

(STOMACH, diseases

vesicular emphysema causing pulm.air embolism)

BRNEST, L.

ERIEST, L. Decomposition of diazo ketenes by currous exide. IV. Attempt at selective reduction of unsaturated 1, h-ciketones. p. 581.
Vel. 50, no. h, Apr. 1956. CHEMICKE LISTY. Praha, Czechoslovakia.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

ERNEST, O.

TECHNOLOGY

Periodical: REVISTA INDUSTRIEI ALIMENTARE. PRODUSE ANIMALE. No. 1, 1958.

A square sea-fishing net; a fishing implement with electric light, unknown is Rumania. p. 9.

ERNEST, O.

Monthly List of East European Accession (EEAI), LC. Vol. 8, No 3
March 1959, Unclass.

ERNEST, R.

TECHNOLOGY

Periodicals: HIDROTEHNICA. Vol. 3, no. 9, Sept. 1958

ERNEST, R. Hydroameliorative works in Rumania. p. 365

Monthly List of East European Accessions (FIAI) IC, Vol. 8, No. 2, February 1959, Unclass.

The preparation of pregnant women with heart diseases for delivery. Magy. noorv. lap. 18 no.4:214-217 July 55.

1. A Budapesti Orvostudomanyi Egyetem II. sz. noi klinikajanak kozlemenye. (Igazgato: Zoltan, Imre dr. egyetemi tanar).

(HEART DISEASE, in pregn.

hospitalization & prep. for delivery, comparison of results with unprep. patients. (Hun))

(PRECNANCY, in various dis.

heart dis., hospitalization & prep. for delivery, comparison of results with unprep. patients. (Hun))

(PRENATAL CARE

hospitalization & prep. of heart dis. patients for delivery. (Hun))

ERNESZT, Judit, dr.

Prognostic value of ballistocardiography of pregnant women with heart diseases. Magy.noorv.lap. 20 no.6:328-334 H 159.

1. A budapesti Orvostudomanyi Egyetem II. sz. Noi Klinikajanak koslemenye (Igazgato: Zoltan Imre dr. egyetemi tanar).

(PREGNANCY compl)

(HMART DISEASES in pregn)

(BALLISTOCARDIOGRAPHY)

RRNESZT, Judit, dr.; RIGO, Janos, dr.

Certain cases of congenital cardiac defects complicated by prognancy. Magy.noorv.lap. 21 no.1:31-34 Ja 160.

1. A Budapesti Orvostudomanyi Egyetem II. ss. noi klinikajanak koslemenye (Igazgato: Zoltan Imre dr. egyetemi tanar).

(HRART DEFECTS CONGENITAL in pregn)

(PRHONANCY compl)

ERNESZT, Judith, dr.; RIGO, Janos, dr.

Mortality of cardiac patients in labor. Magy noorv. lap. 24 no.1:3-9 Ja 161.

1. Budapesti Orvostudomanyi Egyetem II ss. Noi Klinikajanak koslemenye (Igasgato: Zoltan Imre dr. egyetemi tanar)

(MATERNAL MORTALITY) (HEART DISEASE in pregn)
(PREGNANCY compl)

ERNEY, Gheorghe, ing. (Budapest)

Calculation and control of the chamfering of teething in evolute toothed wheels with straight teeth. Constr. mas 16 no.6:305-310 Je*64

ERNEY, Gyorgy, okleveles gepesamernok

New nomenclature of gear wheels. Jarmu meso gep 8 no.11: 439-440 N *61.

ERNEY, Gyorgy

New nomenclature of gears. Gep 13 no.12:477-478 D '61.

ERNEY, Gyorgy, okleveles gepeszmernok

Accuracy standard of cylindrical gears. Jarmu mezo gep 9 no.12:466-475 D '62.

ERNEY, G., dipl., inz. (Budapest); ZEMAN, K., dr., inz. [translator]

Calculating and checking the modification of gears with involute straight teeth. Strojirenstvi 12 no.4:257-261 Ap 162.

ERNEY, Gyorgy

Calculation and control of cutting the addendum of the straight involute toothed cylindrical wheels. Muszaki kozl MTA 30 no.1/4: 185-196 '62.

ERNEY, Gyorgy, okleveles gepeszmernok

Precision standard of cylindrical wheels. Gep 15 no.6: 231-241 Je '63.

1. GANZ-MAVAG Mozdony-, Vagon- es Gepgyar, Budapest.

ROHONYI, Vilmos, okleveles gepeszmernok (Rumania); FRNEY, Grorgy

Method for hobbing cylindrical gears to produce depth of teeth without additional feed. Gep 16 no.12:474-477 19 164.

FRUHAFT, J.; FAFIAN, GY.

Investigations concerning variability of the presacral verterae in rabits. p. 111.

A MAGYAR TUDOMANYOS AKADEMIA V. OXZTALAY ROIOGIAI CSOPORTJANAK KOSIEMENEI. Budapest, Hungary. Vol. 3, no. 2, 1959

Monthly List of East European Accessions (FEAI), LC, Vol. 9, no. 1, Jan., 1960 Uncl.

ERNHAFT, J., FABIAN, GY.

Investigations concerning the variability of the presacral vertebrae in rabbits. In English, p. 49

ACT: BIOLOGICA, Budapest, Hungary, Vol. 10, No. 1, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960 Uncl.

ERNHAFT, Jozsef

Changes in quantitative characteristics in growing hen varieties in presence of dominant mutation. Biol tud kozl MTA 5 no.3-4: 245-262 162.

1. Magyar Tudomanyos Akademia Allatgentikai Kutato Csoportja, Agraregyetem, Allattani Tanszek, Godollo.

V

ERNHARDT, Janos

The Baratsag oil pipeline has been put into operation. Musz elet 17 no.21:5 11 0 $\,^{1}62\,.$

ERNIO, R.

Strengthen the international solidarity of workers. Sov. profsoiuzy 19 no.19:40-41 0 '63. (MIRA 16:11)

1. Sekretar' Vsemirnoy federatsii professional'nykh soyuzov.

ERNIS, I.

AID P - 393

: USSR/Aeronautics Subject

Pub. 135, 7/18 Card 1/1

: Ernis, I., First Lt. Author

: Determination of the travelling speed of an aircraft Title

Periodical: Vest. vozd. flota, 8, 39-40, Ag 1954

: The author suggests a new method of determination of the Abstract travelling speed of an aircraft. The method lightens

calculations, does not require complicated computations, and uses only a small table. Formulae, table.

Institution: None

Submitted : No date

ERNO, I.; HADNAGY, M.

"The dispatcher system in an establishment of the pulp and paper industry. Tr from the Hungarian" (P. 241). PRZEGIAD PAPIERHICZY (Centralny Zarzad Przemyslu Papierniczego i Stowarzyszenie Inzynierow i Technikow Przemyslu Papierniczego) Lodz, Vol. 9, No. 5, Aug. 1953.

SO: East European Accessions List, Vol 3, No. 8, Aug 1954.

KOLIN, Mirko, inz.; ERNOIC, Josip, ins.

Applicability of the PK-3 mining combine tested in the pit of Ladanje of the Ivanec-Ladanje Colliery, Ivanec. Rudar glasnik no.3:66-69 '62.

1. Ivanecko-ladanjski ugljenokop, Ivanec.

L 44056-66 EWP(j)/T IJP(c) RM
ACC NR ₁ AP6032674 SOURCE CODE: HU/0005/66/000/002/0077/0078
AUTHOR: Kollar, Laszlo; Borocz, Laszlo-Berets, L.; Simon, Artur-Shimon, A.;
Ermone, Horvath ORG: Research Institute for the Plastics Industry, Budapest (Muanyagipari Kutato
intezet)
TITLE: Study of the alpha-TiCl sub 3 -AlEt sub 3 catalyst system
SOURCE: Magyar kemiai folyoirat, no. 2, 1966, 77-78
TOPIC TAGS: propylene, catalytic polymerization
ABSTRACT: The effects of the TiCl ₃ :AlEt ₃ ratio on the polymerization of propylene was investigated in terms of the reaction taking place between these two catalyst components (cf. Simon, A., Kollar, L., and Borocz, L.; Monatsh. Chem., vol. 95, 1964, p. 842). In general, this reaction reduced the effectiveness of the system as a catalyst. The extent of this effect was followed by an X-ray determination of the crystalline TiCl ₃ content in the catalyst mixture. The X-ray determinations were performed by the Department for Polymer Micromorphology (Polimermikromorfologiai Osztaly) at the Research Institute for the Plastics Industry. Orig. art. has: 5 figures. [JPRS: 34,805]
SUB CODE: 07 / SUBM DATE: 08Jun65 / OTH REF: 005
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LOMSADZE, Yu.M.; LEND'EL, V.I.; ERNST, B.M.

Behavior of the total cross sections of Jp-scattering at high energies. Zhur. eksp. i teor. fiz. 39 no.4:1154-1155 0 160. (MIRA 13:11)

1. Uzhgorodskiy gosudarstvennyy universitet. (Protons--Scattering)

S/058/61/000/006/006**/**063 A001/A101

24.4500

AUTHORS: Lend'yel, V.I., Lomsadze, Yu.M., Ernst, B.M.

TIME: The application of the "strong" coupling method to a simplest model

FERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1961, 30, abstract 6A315 ("Dokl. i soobshch, Uzhgorodsk, un-t. Ser. fiz.-matem, n.", 1960, no. 3, 31-

32)

TEXT: To check the relativistic method of strong coupling in the field theory (abstract 6A314), the author considers an example, the equation of a harmonic oscillator placed into a field of external forces. It is shown that already the first approximation, in a case of a strong external field, makes it possible to find the wave function at t=0 with a very high precision.

K.T.-M.

[Abstracter's note: Complete translation]

 $\int_{\mathcal{B}}$

Card 1/1

LOMSADZE, Yu.M.; LEND'YEL, V.I. [Lend'iel, V.I.]; ERNST, B.M.

Parity doublet of T-mesons and Chew's approximation method.
Ukr. fiz. zhur. 5 no.6:773-776 N-D 160 (MIRA 14:3)

1. Uzhgorodskiy gosudarstvennyy universitet. (Mesons)

ERNST, B.M.

8/056/01/009/010/006/100 AG01/1101

AUTHORS:

Lomsadze, Yu. M., Lend'yel, V. I., Krivskiy, I. Yu., Fushchich, V.I., Khimich, I. V., Lukin, L. P., Ernst, B. M.

TITLE:

On applying modified perturbation method to interpretation of nuclean scattering

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1961, 25, abstract 10A257 (V sb. "Probl. sovrem. toorii elementarm. chastits", no. 2, Uzhgorod, 1959, 211-216, Engl. summary)

TEXT: Differential effective cross sections for all types of NN-scattering have been determined in the first non-vanishing approximation of the modified perturbation method (consisting in a special summation over all simplest barion loops inserted into internal L-meson lines of the Peynman 2nd-order graphs); assumptions are made on existence of scalar L-mesons and violation of charge independence of nuclear forces at high energies. The cross sections calculated for the range 100 - 600 Mev agree sufficiently well with experimental data. Thereby the results of the preceding study (abstract 10A256) are additionally substantiated. An interesting possibility is discussed that at sufficiently

Card 1/2

32.

On applying modified perturbation ... 8/058/61/000/010/006/100 A001/A101

great coupling constant, the scattering cross section may be completely independent of its value.

[Abstracter's note: Complete translation]

Card 2/2

S/058/62/000/007/010/068 A061/A101

AUTHORS:

Lend'yel, V. I., Lomsadze, Yu. M., Ernst, B. M.

TITLE:

Parametric correlation in the effective range theory using

Mandel'shtam's dispersion relations

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 7, 1962, 29, abstract 7A274 ("Dokl. i soobshch. Uzhgorodsk. un-t. Ser. fiz.-matem. n.", 1961, no. 4, 19 - 21)

TEXT: The authors proceeded from the analytic characteristics of the energy variable of the singlet amplitude of fixed angle p-p scattering, and used a new form of approximation of experimental data (in accordance with the general scheme of Cini, Fubini, Stanghellini - RZhFiz, 1960, no. 4, 7765) to determine more accurately the coupling constant f^2 which turned out to be somewhat less than the universally adopted value $f^2 = 0.08$. They also succeeded in determining the parameters of the effective range theory, and found them to be very near those specific to the Yukawa potential.

V. Lend'yel

[Abstracter's note: Complete translation]
Card 1/1

S/056/62/043/003/036/063 B108/B102

AUTHORS:

Lend'yel, V. I., Lomsadze, Yu. M., Ernst, B. M.

TITLE:

A more exact determination of parameters of the effective radius theory with the aid of Mandelstam's dispersion

relations

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 3(9), 1962, 974 - 976

TEXT: On the basis of the Mandelstam dispersion representation for scalar NN-scattering amplitudes, M. Cini et al. (Phys. Rev., 114, 1633, 1959) have proposed a function $F(\omega)$ which makes it possible to determine the coupling constant f^2 by extrapolation from the region $\omega > 0$ to the non-physical point $\omega = -1/2$. ω is the square momentum of the nucleon. To approach that pole the authors suggest an "inverse" polynomial of the form $\omega = A_0 + A_1 F(\omega) + A_2 F^2(\omega) + A_3 F^3(\omega) + \cdots$. At the non-physical point $\omega = -1/2$, the function $F(-1/2) = -1/\sqrt{2}$. Extrapolation of experimental data on low-energy pp-scattering distribution led to the coupling

Card 1/2

A more exact determination of ...

S/056/62/043/003/036/063 B108/B102

constant $f^2 = 0.058 \pm 0.005$. The following parameters of the effective radius theory were calculated: $a_{\text{equiv}} = -17.6 \cdot 10^{-13} \text{ cm}$, $r = 2.80 \cdot 10^{-13} \text{ cm}$, P = 0.045, Q = 0.0127. These numerical values indicate that the nucleon interaction potential at low energies is a Yukawa type potential. There is 1 table.

ASSOCIATION: Uzhgorodskiy gosudarstvennyy universitet (Uzhgorod State University)

SUBMITTED: March 29, 1962

Card 2/2

MI I P

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

L 16517=63 EWT(m)/BDS AFFTC/ASD ACCESSION MR: AR3005147 8/0058/63/000/006/3028/3028 SOURCE: RZh. Fizika, Abs. 6 B212 AUTHOR: Lend'yel, V. I.; Ernst, B. M. TITLE: Use of analyticity conditions of the scattering amplitude for the determination of the coupling constant CITED SOURCE: Dokl. i soobshch. Uzhgorodsk. un-t. Ser. fiz.-metem. i istor. n., no. 5, 1962, 14-16 TOPIC TAGS: Scattering amplitude, analyticity condition, coupling constant TRANSLATION: The experimental data on the singlet pp-scattering amplitude are approximated by an energy function having the same nearest branch points on the real axis as the proposed exact amplitude. The authors obtain for the pionnucleon coupling constant a value $1^2 = 0.046 \pm 0.004$ instead of the customary value ($1^2 = 0.08$). DATE ACQ: 15Ju163 ENCL: 00 SUB CODE: PH Card 1/1

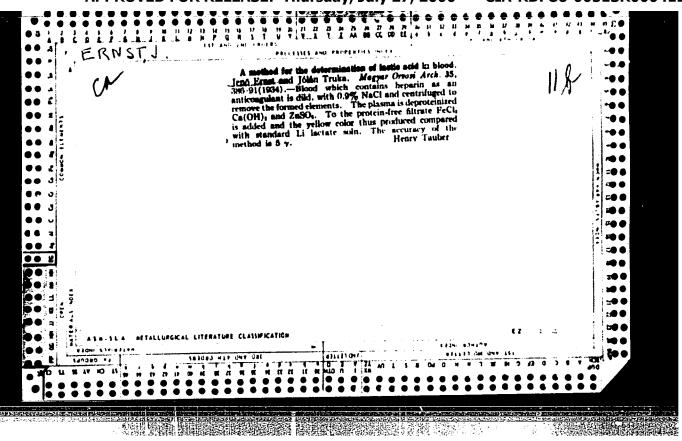
LEND'YEL, V.I.; LOMSADZE, Yu.M.; ERNST, B.M.

A more accurate presentation of the effective radius theory obtained with the aid of the Mandel'stam dispersion relations. Zhur. eksp. i teor. fiz. 43 no.3:974-976 162. (MIRA 15:10)

1. Uzhgorodskiy gosudarstvennyy universitet. (Protons—Scattering)

ERNST, I.

Rules for the nomenclature of vitamins. Chem listy 57 no.2:151-155 F '63.



(6543)

Tecsi Tudomanyegyetem Biofini ai Intezetebol. An inc. only es hatasfoka The degree of muscular work Orvosi Hetilap 1049, 90/8 (225-230) Graphs 3

The efficiency usually calculated, ie. work done in relation to heat development should not be confused with true efficiency; it is at best an economic efficiency and is misleading, because the muscle is not a heat engine. Even when the work done is comparable with the heat developed, only that part of the heat can be taken into account which is directly connected with the function, and this is only a fraction of the total. There is a reversible part in muscle activity, which corresponds to a crystallization process in muscle. When the muscle shortens it will always find an obstacle which prevents its further shortening; this automatically leads to crystallization and the later process produces additional tension. The adductor of Venus verrucosa produces tension for a long time with practically no increase of metabolism. In this cas, as in the case of smooth muscle, crystallization is probably of prime importance. It is obvious that the efficiency defined in textbooks yields absurd results in these cases.

Straub-Budapest

So: Excernta Medica, Vol. II, No. 12, Sec. II, December 1949

ERNST, E.



The state of the binding of water and electrolytes in muscle. E. Ernst, J. Tigyi, and A. Zahorcsck (Univ. Pécs). Acid Physion. Acad. Sci. Hung. 1, 5-20(1950)(in German).—Sartorius muscles were suspended in chambers in which they were exposed to different concus. of H₁SO, vapors. The water content of the muscle was detd. from wet wt. and dry wt. (in vauo at 100°). From these detns. a characteristic curve for the dependence of the lowering of H₁O content as a function of the vapor pressure is constructed. Similar curves for NaCl sains, of egg white proteins show a marked difference. If muscle and isotonic NaCl solns. are equilibrated in a vacuum desiccator, the muscle loses more H₁O than the NaCl soln. This indicates the role of swelling in muscle. If one sartorius is suspended in concd. Ringer soln. a 2nd one in a Ringer soln. of the same concr. contg. 1.5% lactic acid and no NaHCO₂ the weight-loss of both muscles is 15% in 20 to 30 min. Subsequently, during the following 30 min., the "acid" muscle takes up H₂O, whereas the other one shows a greater wt. loss. This indicates swelling of fresh muscle. Gertrude E. Perlmaun

ERIST, E.; TICYI, J.

The role of tension in the decrease of muscular volume. Acta physicl. mung. 2 no.3-4:243-251 1951. (CIML 22:1) hung. 2 no.3-4:243-251 1951.

1. Of the Institute of Biophysics of Pecs University.

ERNST, M.; BALOG, J.; TIGYI, J.; SEBES, A.

Volume decrease and crystallisation in muscle and myosin. Acta physiol. hung. 2 no.3-4:253-259 1951. (CLML 22:1)

1. Of the Institute of Biophysics of Pecs University.

ERIST, E.; TIGYI, J.

Active and automatic constituents of muscle function. Acta physical. ming. 2 no.3-4:261-270 1951.

1. Of the Institute of Biophysics of Pecs University.

ERIST, E.; IADANYI, G.; TIGYI, J.

Mechanical function and crystallisation in muscle. Acta physiol. hung. 2 no.3-4:271-279 1951. (CIML 22:1)

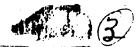
1. Of the Institute of Biophysics of Pecs University.

ERRST. B.; TIGYI, J.; ORKENYI, J.

Frequency and time selationships in muscle volume decrease. Acta physiol. (CLML 22:1) hung. 2 no.3-4:281-291 1951.

1. Of the Institute of Biophysics of Pecs University.

EKNUT, E.



Thermosmosis and biological concentration work. B.

Report and L. Hampla (Univ. Pees): Acta Physiol. Acad.

Sci. Hung. 3, 467-505(1952)(in Gere an).—A large no. of thermosmotic expts. are described by using in part dried protein membranes. Maintaining a temp. difference between the media on both sides of the membrane results in a flow of solvent from the warmer to the colder side. A small puncture in the membrane maintains equal hydrostatic pressure on both sides of the membrane, by allowing the soln, to flow back in an amt. equal to that of solvent diffused through the whole membrane by thermosmosis.

Peter Pernfeld

EMST, I.

Synthetic experiments in the group of active hypotensive alkaloids. Pt.32. Coll Cz Chem 29 no.1:266-273 Ja*64

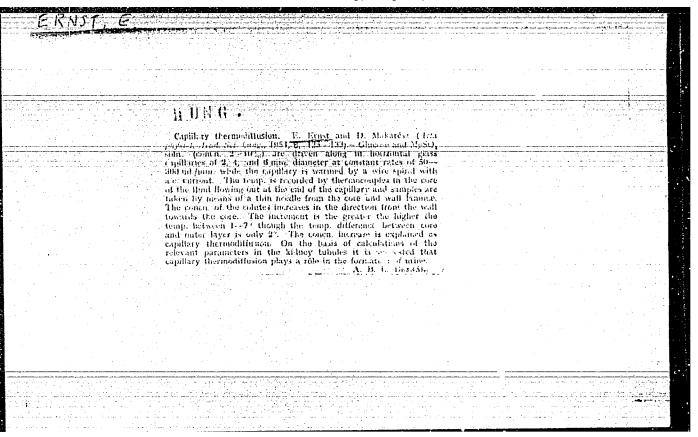
1. Forschungsinstitut fur Pharmamie and Biochemie, Prag.

EREST, J.	
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	locasional difficulties in brewing. J Ernst Attaurreitechniker. 1953, 5, 97-101).—Recommendations are made for effecting variations in raw materials and manufacturing conditions such lead to beers of inferior quality. Care of supervision of beet is used to even after manufacture: greaty glosses and unmittable retail dranger conditions can odversely affect from a shorty. INTEREST
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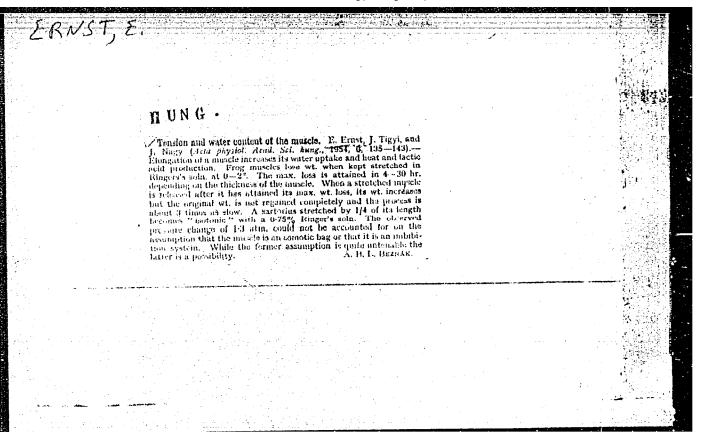
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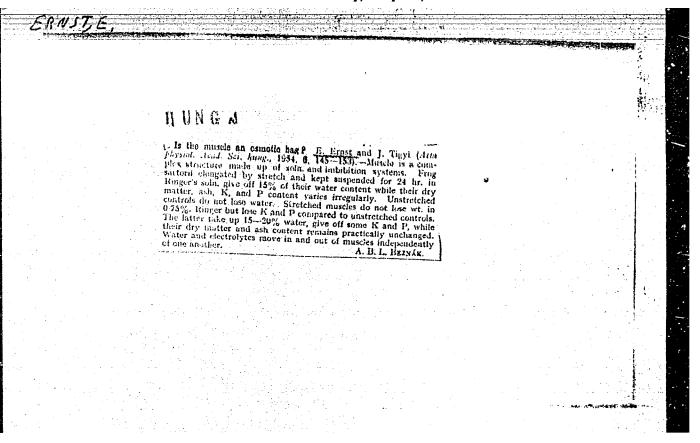
Potassium permeability of muscle. Acta physiol. hung. 4 Suppl:13-16 (CIML 25:1)

1. Of the Institute of Biophysics of Pecs University.



Biophys. Inst., Med. Univ., Pecs. *Uber die Entstehung der Querstreifung. Origin of striations in muscle ACTA PHYSIOL. ACAD. SCIENT. HUNG. (Budapest) 1954, 5/suppl. (20-21) SO: EXERPTA MEDICA, Section II Vol. 7 No. 11

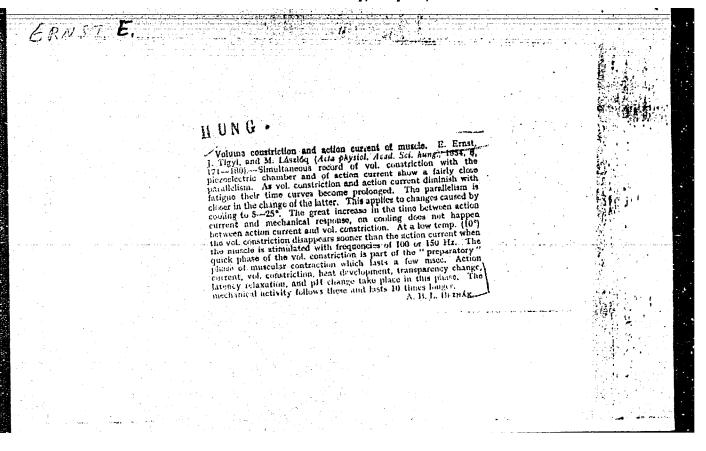


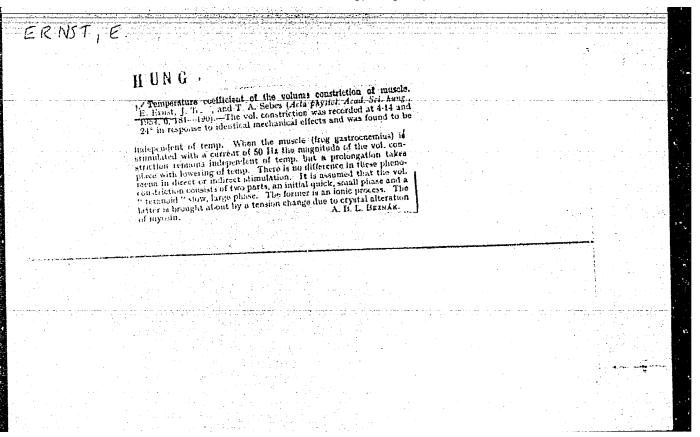


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and the second second	State of potassium in the muscle. E. Ernst. J. Szaboles, and p. 1. Kovika (Acta physical Actal Sec. bloom, 1951, 6, 155-170)— p. 1. Kovika (Acta physical Actal Sec. bloom, 1951, 6, 155-170) When musc be chilled to -70° or 6 -2° is extracted with distilled When muscle with the state of the second attenual K added to it is second attenual Act. 50% of its K is released attenual k added to it is	
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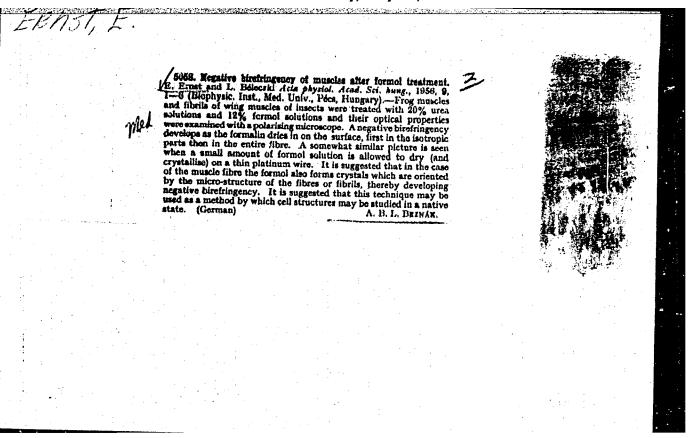




ERNST, E.

Semiconductors and the problem of excitation. Biofizika 1 no.3: 2960300 *56. (MLRA 9:9)

1. Institut biologicheskoy fiziki Universiteta v Pach. Vengriya. (ELECTROPHYSIOLOGY)



8659. Microstructure of stristed nauscle. I. "Extraction methods". II. The long structure. III. The cross-striation. IV. Contracted forms. E. Ernst. L. Héleczki and J. Nagy Acts physiol. Acad. Sci. Leng. 1956, H. 7—39 (Biophysic. Inst., Med. Univ., Pécs. Hungary).—I. The optical behaviour of frog muscle fibres and single fibrils of insect muscle was photographically recorded under a polarising microscope in different solutions (Edsall-Weber, distilled water, 0-1% Inctio acid. Ringer, etc.) during different stretches and relaxations. It was shown that identical changes in the optical behaviour are brought about by a variety of manipulations, therefore, the disappearance of an optical property (e.g. birefringency) does not prove that it was caused by the extraction of a birefringent substance.

II. Photographic records of pative insect muscle fibrillae show

II. Photographic records of native insect muscle fibrillae show the presence of long structures (filaments, protofibrillae) passing uninterrupted through several anisotropic and isotropic discs; they are much thinner and more delicate in the I disc. The spiral structure could also be photographed. A very great variability of all these optical properties, thickness of the different discs, direction of the windings of the spiral (in the same fibril), thickness of the Z discs in the relaxed and contracted state, was found already in the native librils.

A discs in the relaxed and contracted state, was sound areasy in mative fibrils.

III. Hirthle's conclusion that the cross-striation is not a static structural part of the fibril but varies with the waves of contractions and relaxations was confirmed. Not all the longitudinal fibrillae of a fibre are simultaneously contracted but often bundles of fibrillae only. From the optical behaviour of Hydrophilus fibrils under different experimental conditions (application of different solvents, stretch, relaxation etc.) it is concluded that the anisotropic disc in the fibril is caused by an enrichment of myosin, the isotropic disc in the fibril is caused by an enrichment of myosin, the isotropic disc by less thickly packed actin fibrilements, the Z line is due to an intrafibriliary stratified organisation, the M disc can only be a thickening of the substance in the anisotropic disc. The changes in

optical behaviour of the fibril caused by stretch are attributed to physical and chemical changes in the materials making up the tipristicted by the stretch. IV. The fighter packing of the cross stratation during contraction is attributed to diminution is beight and increase in width of the inatterial between 3 2 bands. It is suggested that during contraction only certain parts of the inbrils contract, others in between any stretched. This stretch elicits a stillening and a further tension increase caused by crysin. (German) A. B. L. Frenker. 2/2.

USSR / Human and Animal Physiology. Neuromuscular T Physiology.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41640.

Author : Ernst. E. : Academy of Sciences Georgian SSR. : On the Problem of Muscle Excitability. Title

Orig Pub: V sb.: Probl. sovrem. fiziol. nervn. i myshechn. sistem. Tbilisi, AN GruzSSR, 1956, 415-436 (Problems of Contemporary Physiology of the Nervous and Muscular System).

Abstract: A method for the measurement of muscle volume was elaborated and it was established that during the latent period of contraction, at the instant of the

Card 1/3

USSR / Human and Animal Physiology. Neuromuscular Physiology.

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Abs Jour: Ref Zhur-Biol., No 9, 1958, 41640.

Abstract: excitation current, a decrease of volume takes place. It follows that the action current is associated with an increase of ions concentration, in the same manner as the decrease of volume is associated with the decrease of the volume of a solution resulting from hydration of newly formed ions. Change of volume studies were done on muscles of frogs following stimulation similar to excitation and these were able to occur in rhythms of 50, 75 and 100/1 sec. Volume changes were conditioned by Kions. Kions in the muscle exist in a combined form; at the time of excitation they become ionized and at first, leave the muscle fiber only when the permeability is more favorable, as a result of direct stimulation with the current; there was only

Card 2/3

98

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

| Model | Mode

ERNST, E

The present state of the problem of stimulation. Acta physiol. hung. 11(Suppl):9-11 1957.

1. Biophysikalisches institut der medizinischen universitat. Pecs.
(MUSCLES, physiol.
membrane theory of stimulation (Ger))

FRNST, EUGEN

Science

Die Muskeltatigkeit; Versuch einer Biophysik des quergestreiften Muskels. Budapest, Verlag der Ungarischen Akademic der Ungarischen Akademie der Wissenschaften, 1958. 355 p. (Muscular activity; a biophysical investigation into the striped muscle)

Monthly List of East European Acessions (EEAI), LC, Vol. 8, No. 3, March 1959 Unclass.

ERNST, E.

AUTHOR:

Troshin, A. S., Doctor of Biology

507/30-58-7-22/49

TITLE:

News in Brief (Kratkiye soobshcheniya) The Second International Conference on the Mechanism of Stimulation (Ytoroye mezhdunarodnoye soveshchaniye po mekhanizmu vozbuzhdeniya)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 7, pp. 103 - 104 (USSR)

ABSTRACT:

The conference was held at the Humboldt-University (Universitet im. A. Gumbol'dta) in Berlin, in the DDR (German Democratic Republic)(GDR) from March 31 to April 2. It was attended by physiologists, biochemists and biophysicists, who with respect to the mechanism of stimulation, take two different views. One group proceeds from the albumin theory developed by D.N.Masonov and his students. The other group relies on the principles of the diaphragm theory proposed by A. Hodgkin, and the Cambridge School(kembridzhskaya shkola) of physiologists. 24 reports were

submitted. They are partly listed below:

1) V. Ya. Aleksandrova (USSR) on the Albumin Theory of Injury and

Stimulation.

Card 1/3

2)B.N.Tarusov (USSR) on Electrical Parameters of the Cells in

News in Brief. The Second International Conference on the Mechanism of Stimulation

SOV/30-58-7-22/49

Different Functional States. 3)E.Ernst, Hungary (Vengriya) showed that individual fibrils react to every electrical irritation by a distinctive contraction. 4)G.M.Frank, USSR, on Structural Changes in Nerve Fibers Caused by Excitation. 5)A.Kaladzhiyeva, Bulgaria (Bolgariya), A. Wolf (Vol'f), V. Linke, DDR, Ye.M. Makovskiy, Roumania (Rumyniya) investigated the properties of solutions of native albumins. 6)G. Vogel (Fogel'), G. Krause (Krauze), G. John (Dzhon), DDR, described the results obtained by the investigation of the influence exercised by temperature and various poisons of fermentation on the monodular (monodal'nyy) active current. 7)G. Lippmann, E.Schubert (Shubert), DDR, on the Influence xercised by Metabolism Upon the Process of Cell-Excitation. 8)E. Gutman, Ts. Vodichka, Czechoslovakia (Chechoslovakiya) on Impulseless Processes in Mervous Structures. 9)L.Lyubinskaya, Poland (Pol'sha), K.Cheng, China (Kitay), on the Morphological Structure of Some Elements of the Norvous System.

Card 2/3

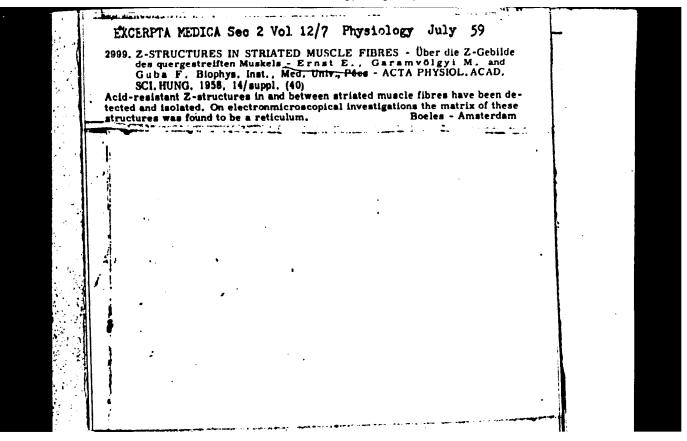
News in Brief. The Second International Conference on the Mechanism of Stimulation

SOV/30-58-7-22/49

An animated discussion of the reports took place after the papers had been read.

Card 3/3

SUPPLIED POTASSIUM? Kaliumgehalt und eingefü Univ., Pécs - ACTA PH The muscle in K-rich Ringer same extent in normal Ringer	NTIATE BETWEEN ITS OWN POTASSIUM AND? - Unterscheidet der Muskel zwischen eigenem Ihrtem Kalium? - Ernst J. Biophys. Inst., Med. IYSIOL, ACAD, SCI, HUNG, 1958, 12/suppl. (79) solution can take up 10% of K. K is emitted to the solution again. The K taken up is retained. It is asm. The original K is bound in the fibrils.	
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ERNST, Jeno

The Institute of Biophysics of the Pecs School of Medicine. Fiz szemle 9 no.6:195 Je 159.

ERNST, E.: TIGYI, J.; NIEDETZKY, A.

Cardiac automatism and radioactivity. Acta physiol. hung. 16 no.2:61-69 1959

1. Biophysikalisches Institut der Madizinischen Universität, Pecs. (HEART, physiol.) (POTASSIUM, radioactive)

ERNST, E.; NIEDETZKY, A.; HAJNAL, M.

Energy storage in reversible arrest of the heart by ECl. Acta physiol. hung 16 no.2 71-76 1959

1. Biophysikalisches Institut der Medizinischen Universität, Pecs.
(HEART ARREST, exper.)
(CHIORIDES, pharmacol.)

ERNST, E.; HAJNAL, M.

Distribution and form of potassium in the muscle. Acta physicl. hung. 16 no.2:77-86 1959

1. Biophysikalisches Institut der Medizinischen Universität, Pecs.
(MUSCLE, chemistry)
(POTASSIUM, chemistry)

ERNST, E.

New biology. Acta physiol. hung. 19 no.1-4:51-55 '61.

1. Institute of Biophysics, Medical University, Pecs. (BIOCHEMISTRY) (BIOPHYSICS)

...

STRAUB, F. Bruno; ERNST, Jeno; JUVANCZ, Ireneus; BALOGH, Janos; SZENTAGOTHAI, Janos, dr.; TORO, Imre, dr.; BALINT, Andor; BARTUSZ, Lajos

An account of the 1962 work made by the directorate of the Biological Section. Biol tud kosl MTA 5 no.3-4:165-202 '62.

1. "A Magyar Tudomanyos Akademia Biologiai Tudomanyok Osztalyanak Kozlemenyei" szerkesztoje (for Straub). 2. "A Magyar
Tudomanyos Akademia Biologiai Tudomanyok Osztalyanak
Kozlemenyei" szerkeszto bizottsagi tagja (for Szentagothai
and Toro).

HURGARY

ERNOT, 2., BENDECLKY, 5.; Biophysical Institute and Central Laboratory of the medical University (Orvostudomanyi Egyetes Biofizikai Interete as Korponti Laboratoriuma), Pecs.

"The Lamellar Structure of the Striated Fibril."

2. depost, nota Physiologica Academiae Scientiarum Hungari-

placed The authors discuss contradictions between current conceptions of the structure of the striated muscle fibril and experimental observations. Data in the literature and their own observations are interpreted in terms of a new hypothesis. They caution against the formulation of premature theories. Their hypothesis assumes a longitudinal and transverse Lamellar structure of the fibril. [Of 19 references 3 are Hungarian and the rest mestern.]

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HUNGARY

ERNET, E., Institute of Biophysics, medical University (Orvertudemanyl Egyetem Biofizikai Intezete), Peca.

"Probability and Stability in Biology."

Toldegest, Acta Physiologica Academiae Scientiarum Eungari-

Abstract: [English article; Author's English summary]
The beachings of statistical mechanics and thermodynamics
about probability and stability, when properly applied,
are very helpful in understanding biological phenomena
which seemingly contradict the basic theses of these sciences. This statement is contrasted with some other statements in the biological literature, [Of 19 references, about
one-third are Eungerien]

1/1

ERNST, Jeno, akademikus, egyetemi tanar

Theory of relativity and the popularization of natural sciences. Magy tud 70 no.3:201-202 263.

1. Orvostudomanyi Egyetem, Pecs.

12

HUMGARY/Electronics - Electron and Ion Emission

Mbs Jour : Ref Zhur - Fizike, No 11, 1958, No 25630

Ernst Lajas Author

: Industrial Research Institute for Telecommunications, Budepest, Inst

Hungary.

: Long Time-Constant Decay Effect of Oxide-Coated Cathodes Title

Orig Fub : Acta phys. Acad. sci. hung., 1957, 7, No 4, 473-475

Abstract : A study was made of the slow decrease in emission of an oxide cathode in one type of receiving tube. Simulteneously the cuthor has measured the increase in resistence of the interlining between the exide and the core, using the Van der Ziel method. A unique connection has been established between the two processes.

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31

ERNST, Lajes

Ion wall pump. Fiz szemle 9 no.6:176-181 Je 159.

` l. Hiradastechnikai Kutato Inteset Ipari Elektromos Laboratoriuma.

ERNST, Lajos

The ion wall pump. p. 176.

FIZIKAI SZEMLE. (Eotvos Lorand Fizikai Tarsulat) Budapest, Hungary, Vol. 9, no. 6, June 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959. Uncl.

ERNST, Lajos, tudomanyos munkatars (Budupest).

Ultravacuum engineering. Term tud kozl 4 no.7/299-300 J1 '60.

ERMST, L. N.

"The Comparative Characteristics of the Growth and Development of Fast Friesian and Hereford-East Friesian Calves." Cand Agr Sci, Division for the Development of Cattle, All-Union Sci-Res Inst of Animal Husbandry, Moscow, 1954. (KL, No 7, Feb 55)

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

ERNST, L.K.

Comparative description of the growth, development and certain morphophysiological features of young Holstein and Hereford-Holstein cattle. Trudy Inst.morf.zhiv. no.31:110-116 '60. (MIRA 13:6)

1. Vsesoyuznyy institut zhivotnovodstva. (Cattle breeds)

ERNST, L.K., kand.sel'skokhoz.nauk (g. Moskva)

Significance of artificial insemination for increasing productivity of cattle breeds. Bio. v shkole no.2:77-80 Mr-Ap '61. (MIRA 14:3) (Cattle breeding) (Artificial insemination)

ERNST, L.K., kand.sel'skokhozyaystvennykh nauk

Results of jedging herd bulls of various breeds according to the quality of their progeny. Agrobiologiia no.4:566-576 Jl-Ag '62. (MIRA 15:9)

1. Vsesoyuznyy institut zhivotnovodstva. (BULLS)

ERNST.	L.	К.
PUNOT *	L.	17.4

"Rational use of sire-bulls in artificial insemination."

report submitted to 5th Intl Cong, Animal Reproduction & Artificial Insemination, Trent, Italy, 6-13 Sep 64.

KRAMARENKO, Nikolay Mikhaylovich, nauchn. sotr., kand. sel'khoz. nauk; SEMENOV, Nikolay Petrovich, nauchn. sotr.,
kand. sel'khoz. nauk; ERNST, Lev Konstantinovich;
FEFERMAN, A.Ye., red.

[Practices in breeding work with black and white cattle]
Opyt plemennoi raboty s krupnym rogatym skotom Chernopestroi porody. Moskva, Rossel'khozizdat, 1965. 78 p.
(MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovateliskiy institut zhi-votnovodstva (for Kramarenko, Semenov).

ERNST, P., promovany ekonom

Automation of the operational planning of large-scale machine production. Podn org 18 no.5:231-233 My '64.

ERNST, Pavel, promovany ekonom

Standardization in organization and management. Pod org 17 no.4: 171.-172 Ap 163.

ERNST, R.

Yugoslavia (430)

Technology

The used ultrasonic irradiation in the tanning process p. 415. Nova Proizvodnja, Vol 2, no. 6, December 1951.

East European Accessions List. Library of Congress, Vol. 2, no. 3, March 1953. UNCLASSIFIED.

MIKHALKEVICH, M.F., glav. red.; SAFONOV, A.V., red.; KAIHEKIY, L.I., red.; BROUN, R.M., red.; BOMBELO, I.A., red.; ENIT, V.F., red.; EXIZHAK, B.Ye., red.; MYZHKOV, A.H., red.; MEMESHKIHA, L.I., tekhn. red.

[The nature of Sakhalin and man's health]Privoda Sakhalina i zdorov'e cheloveka; sbornik statei. IUzhno-Sakhalinsk, Sakhalinskoe knizhnoe izd-vo, 1962. 181 p. (MTRA 15:11)

1. Geograficheskoye obshchestvo SSSR. Komissiya meditsinskoy geografii Sakhalinskogo otdela.

(SAKHALIN—REDICAL GEOGRAPHY)

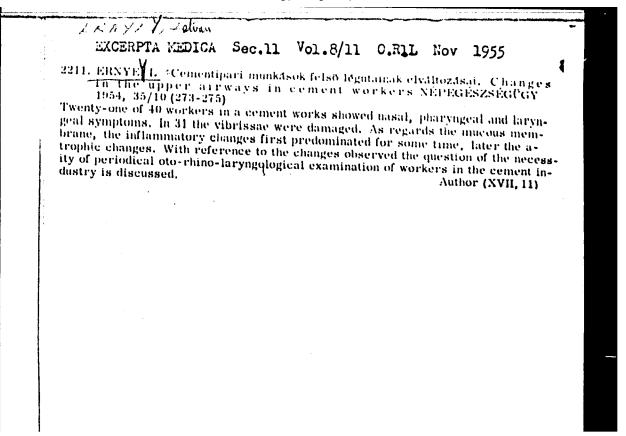
: Human and Animal Physiol., Neuromuscular Physiol. : USSR COUNTRY CATEGORY : RZhBiol., No. 5 1959, No. 22384 ABS. JOUR. ; Tidi, Y.; Ernst, Y. : Academy of Sciences of the USSR AUTHOR : The Exchange of Phosphorus and Potassium Isotopes INST. TITLE in Functioning Muscle. ORIG. FUB. : V sb.: Usuch. zhivotn. organizma, M., AN SSSR, 1958, One sartorius muscle was subjected to indi-112--115 rect stimulation in Ringer's solution containing ABSTRACT the isotopes, and the other sartorius (of the same frog) was stimulated directly. Both sartorius muscles were included sequentially in a chain of stimulation. A 50 cycle current was used; stimulation lasted 0.5 to 2 seconds. With indirect stimulation the potassium content and specific radioactivity of the tissue remained unchanged. With direct stimulation an 18% reduction in potassium content was noted and a simultaneous increase by 26% in specific activity. In Card: 1/2 T-75

ERNSZT, Tibor

Relationship between the technical development fund and the innovators' movement. Ujit lap 13 no.7:7-8 Ap '61.

1. Penzugyainiszterium Ipari Osztalyanak helyettes vezetoje, Budapest.

(Hungary—Technology) (Hungary—Industrial management)



ERNYEY, Istvan, dr.

The treatment of influenza with atebrin. Orv. hetil. 96 no.31: 864 31 July 55.

1. Geongrad megeye Tanacsa V.B. Egeszegugyi Osztalyanak (osztalyvezeto: Gejdan Erno dr.) kozlenenye.

(QUINARCINE, ther. use,
influenza (Hun))

(INFLUENZA, ther.
quinacrine (Hun))