APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, S.; KOVERDA, P.; KORCHAGIN, I.

Men with an inquisitive mind. Mast.ugl. 8 no.12:11-12 D '59. (MIRA 13:4)

1. Znatnyy izobretatel' Karagandinskogo basseyna (for Makarov).
(Coal mines and mining--Technological innovations)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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MAKAROV, S.

Four shift work conditions in a shielded stope. Mast.ugl. 4 no.12: 27 D '55. (MLRA 9:3)

1. Brigadir shchitovikov shakhty imeni Voroshilova kombinata Kuzbassugol'.
(Kusnetsk Basin--Coal mines and mining)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, Roman Romanovich; FIGURNOV, Konstantin Mikhaylovich [deceased]; ALIPOV, V.I., red.; KHARASH, G.A., tekhn.red.

[Clinical lectures on selected obstetric topics] Klinicheskie lektsii po izbrannym glavam akusherstva. Leningrad, Medgiz. No.1. 1963. 334 p. (MIRA 17:1)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, Roman Romanovich, FIGURNOV, Konstantin Mikhaylovich [deceased]; GABELOV, A.A., red.

[Clinical lectures on selected obstetric topics] Klinicheskie lektsii po izbrannym glavam akusherstva. Leningrad, Meditsina. No.2. 1965. 294 p. (MIRA 18:8)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

ALIPOV, Viktor Ivanovich; MAKAROV, R.R., red.; LEBEDEVA, Z.V., tekhn. red.

[Abortion, its harm and contraceptive agents]Abort, ego vred i protivozachatochnye sredstva. Leningrad, Medgiz, 1962. 39 p. (MIRA 15:9)

(ABORTION) (CONCEPTION—PREVENTION)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, Roman Romanovich

[Extra-uterine pregnancy] Vnematochnaia beremennost'. Leningrad, Medgiz, 1958. 127 p. (MIRA 12:5)
(PREGNANCY, EXTRA-UTERINE)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, R.R.

FIGURNOV, K.M., professor, redaktor; MANDEL'SHTAM, A.E., professor, zasluzhennyy deyatel' nauk, redaktor; BOGOROV, I.I., professor, redaktor; PETROV-MASLAKOV, M.A., professor, redaktor; MAKAROV, R.R., dotsent, redaktor; TUMANOVA, Ye.S., dotsent, redaktor; RUDAKOV, A.V., redaktor; KHARASH, G.A., tekhnicheskiy redaktor

[Problems in the neurohumoral regulation of physiological and pathological processes of the sexual functions in women] Voprosy neiro-gumoral'noi reguliatsii fiziologicheskikh i patologicheskikh protsessov zhenskoi polovoi sfery. [Leningrad] Gos. izd-vo med. lit-ry, Leningradskoe otd-nie, 1956. 146 p. (MLRA 10:3)

1. Chlen-korrespondent AMN SSSR (for Figurnov)
(NERVOUS SYSTEM) (GENITOURINARY ORGANS--DISEASES)
(HORMONES, SEX)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

BASIN, Ya.N.; MAKAROV, R.A.; SELEZNEV, N.V.

Selecting optimum parameters of radioisotope devices used in thermophysical irvestigations. Inzh.-fiz. zhur. 8 no.2:257-262 F '65. (MIRA 18:5)

1. Institut stroitel'noy fiziki, Moskva.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, Rostislav Alekseyevich, kand. tekhn. nauk; SHTIPEL'MAN, Il'ya Moiseyevich, inzh.; BAGAYEV, Yuriy Petrovich, st. inzh.; PERFILOV, I.F., inzh., red.

[Electrotensiometer devices in construction] Elektrotenzometricheskie pribory v stroitel'stve. Moskva, Gosstroiizdat, 1962. 42 p. (MIRA 16:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel' laboratorii novykh fizicheskikh metodov issledovaniya Nauchno-issledovatel'skogo instituta stroitel'noy fiziki Akademii stroitel'stva i arkhitektury SSSR (for Makarov). 3. Nachal'nik otdela eksperimental'noy avtomatiki i sredstv izmereniy TSentral'nogo eksperimental'nogo konstruktorskogo byuro "Stroymekhavtomatika" Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Shtipel'man). 4. Otdel eksperimental'noy avtomatiki i sredstv izmereniy TSentral'nogo eksperimental'nogo konstruktorskogo byuro "Stroymekhavtomatika" Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Bagayev).

(Tensiometers)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

S/081/61/000/022/047/076
B101/B147

AUTHORS: Basin, Ya. N., Makarov, R. A.

TITLE: Device for measuring the weight by volume of concrete products

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1961, 312, abstract 22K324 (Sb. "Radioaktivn. izotopy i yadern. izlucheniya v nar. kh-ve SSSR, v. 2, M., Gostoptekhizdat, 1961, 41 - 42)

TEXT: The construction of the ИОВ-2(IOV-2) apparatus is described. This apparatus is used for determining the weight by volume of structural elements consisting of homogeneous material both during their production and assembly and after completed construction. The apparatus operates on the principle of measuring scattered gamma radiation of a weakly active source (up to 10 mg-equ CO^{60}). [Abstracter's note: Complete translation]

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MAKAROV, R.A., kand.tekhn.nauk

Experimental determination of frequency characteristics of tensometers used in investigating excavators. Sbor.trud.MISI no.26:146-149 '58. (MIRA 12:1)
(Strain gauges) (Electronic measurements)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, R.A.

GOMOZOV, I.M., kand.tekhn.nauk; MAKAROV, R.A., kand.tekhn.nauk

Investigating the pressure distribution in supporting jacks of the EGL-15 excavator. Stroi.i dor.mashinostr.2 no.9:7-10 S '57 (MIRA 10:11)
(Hydraulic jacks) (Excavating machinery)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, R. A.

MAKAROV, R. A.--"The Method of Experimental Investigation of Dynamic Processes in the Basic Parts of Excavators." Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Science).

SO Knizhnaya letopis'
No 2, 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

GRAMENITSKIY, Yevgeniy Mikhaylovich; MAKAROV, P.V., red.; ONOSHKO, N.G., tekhn. red.

[Vital staining of cells and tissues under normal conditions and in pathology] Prizhiznennaia okraska kletok i tkanei v norme i patologii. Leningrad, Medgiz, 1963. 149 p. (MIRA 16:10)

(STAINS AND STAINING (MICROSCOPY))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V. (Leningrad, K-112, Novocherkasskiy prospekt 40, kv.4)

Study of the nuclear structures of frog oocytes. Arkh. anat. gist. i embr. 45 no.11:53-61 N '63. (MIRA 17:8)

1. Kafedra anatomii i gistologii (zav. - chlen-korrespondent AMN SSSR prof. P.V. Makarov) Leningradskogo gosudarstvennogo universiteta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

SEMENOV, Severin Pavlovich; MAKAROV, P.V., prof., otv. red.; MATVEYEVA, V.V., red.

[Morphology of the vegetative nervous system and interoceptors] Morfologiia vegetativnoi nervnoi sistemy i interoretseptorov. Leningrad, Izd-vo Leningr. univ., 1965. 157 p. (MIRA 18:9)

1. Chlen-korrespondent AMN SSSR (for Makarov).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

Autoradiographic study of protein-producing cells. Arkh. anat. gist. i embr. 48 no.4:3-16 Ap '65. (MIRA 18:6)

1. Kafedra anatomii i gistologii (zav. - chlen-korrespondent AMN SSSR prof. P.V. Makarov) Leningradskogo gosudarstvennogo ordena Lenina universiteta.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

Nature of protoplasm changes responsible for the occurrence of cellular paralysis. Vest. LGU 20 no.9:80-94 '65.

(MIRA 18:6)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

Cytochemical study of the silk glands in Chinese tussah moth.
Tsitologiia 7 no.5:616-621 S-O '65. (MIRA 18:12)

1. Kafedra tsitologii i gistologii Leningradskogo universiteta.
Submitted March 1, 1965.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

Autoradiographic study of ovulating, layed and dividing eggs of a frog. Dokl. AN SSSR 155 no.6:1432-1434 Ap '64. (MIRA 17:4)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Predstavleno akademikom Ye.N.Pavlovskim.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

SEMENOV, Severin Pavlovich; URAZOV, Ivan Grigor'yevich; ENTIN, Tamara Il'inichna; MAKAROV, P.V., prof., otv. red.; PETROVICHEVA, O.L., red.

[Manual for practical work in general histology with elements of microscopic anatomy] Posobie k prakticheskim zaniatiiam po obshchei gistologii s elementami mikroskopicheskoi anatomii. Leningrad, Izd-vo Leningr. univ., 1964. 67 p. (MIRA 17:6)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, Petr Vasil'yevich, prof.; VASIL'YEV, Yu.A., red.

[Chemistry of the cell] Khimiia kletki. Leningrad, Ob-vo po rasprostraneniiu politicheskikh i nauchnykh znanii RSFSR, 1963. 56 p. (MIRA 17:5)

1. Chlen-korrespondent AMN SSSR (for Makarov).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

KOZHEVNIKOV, Ye.M., veterinarnyy vrach; BABKINA, A.A., veterinarnyy vrach; DMITRIYEVA, P.M., veterinarnyy vrach; MAKAROV, [illegible]

Erysipelatous septicemia of turkeys. Veterinar ia 40 no.8:54-55 Ag '63. (MIRA 17:10)

1. Voronezhskaya veterinarnaya laboratoriya (for Kozhevnikov, Babkina, Dmitriyeva). 2. Glavnyy veterinarnyy vrach Sovkhoza "II pyatiletka" Voronezhskoy oblasti (for Makarov).

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

Relation between the number of chromosomes and the volume of pronuclei in the zygotes of a horse ascarid. Dokl. AN SSSR 154 no.6:1434-1437 F '64. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Predstavleno akademikom Ye.N.Pavlovskim.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V. (Leningrad, K-112, Novocherkasskiy pr., 40, kv.4)

Some properties of osmium tetroxide as a fixator of cellular structures. Arkh. anat., gist. i embr. 42 no.6:111-119 Je '62. (MIRA 15:6)

1. Kafedra anatomii i gistologii (zav. - chlen-korrespondent AMN SSSR prof. P.V. Makarov) Leningradskogo universiteta.
(OSMIUM OXIDES)
(STRAINS AND STRAINING (MICROSCOPY))

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MAKAROV, P.V. (Leningrad, L-52, ul. Yegorova 8, kv.45)

Role of nucleic acids in the synthesis of cell proteins. Arkh. anat. gist. i embr. 40 no.5:3-17 Mr '61. (MIRA 15:4)

1. Kafedra anatomii i gistologii (zav. - chlen-korrespondent AMN SSSR prof. P.V.Makarov) Leningradskogo universiteta.
(NUCLEIC ACIDS) (PROTEINS) (PROTOPLASM)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V. (Leningrad)

Electron microscopy of the cell nucleus and chromosomes. Fiziol. zhur. 46 no. 4:44-61 Ap '60. (MIRA 13:10)
(CHROMOSOMES) (CELL NUCLEI) (ELECTRON MICROSCOPY)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

Cytochemical and autoradiographic study of seasonal changes in the ovicells of amphibians. TSitologiia 2 no.1:37-44 Ja-F '60. (MIRA 13:5)

1. Kafedra obshchey biologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta i Laboratorii tsitologii Leningradskogo universiteta.

(AMPHIBIA) (OVUM)

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MAKAROV P.V.

USSR

reports to be submitted to the 1st Intl Congress of Histochemistry and Cytochemistry, Paris, France, 28 Aug-3 Sep '60.

BRODSKIY, V. Ya. - "The nucleic acids of the nerve cell's nucleus and cytoplasm"
DONSKIKH, N. V., VINOGRADOV, V. V. and SUBBOTIN, M. Ya. - "Histochemistry of extraembryonic connective tissue in pathological conditions"
FRIDENSHTEYN, A. Ya. - "Some aspects of carbohydrate metabolism of the transitional epithelium"
GEORGIYEV, G. B. - "The studies on the cell: nucleoproteins with the aid of phenol - fractionation procedure"
GRIGOR'YEVA, T. A., MEYSEL', M. N., BRUNBERG, Ye. M., BARSKIY, I. Ya. and GUTKINA, A. V. - "Ultraviolet fluorescence microscopy as a new field of histochemistry"
KNYAZEVA, G. D. - "Histochemical characteristics of diphtheric polyneuritis"
KRASNOV, I. B. - "The determination of sulfhydryl groups of proteins by means of the inhibitory-indicator (bromoacetylnitrobenzoic acid) method"
MAKAROV, P. V. - "Cytochemical and autoradiographic analysis of the role of nucleic acids in the synthesis of cellular proteins"
ORLOVSKAYA, G. V. - "The evolution of the protein-polysaccharide composition of cardiac connective tissue in the development of rheumatic process"
POLENOV, A. L. - "Histochemical contribution to the study of di-encephalo-hypophyseal secretion"
PORTUGALOV, V. V. - "Some mechanisms controling the chemical activity of the neuron mitochondria" (A summary of this report has been received by the organizers of the Congress and is included in Group I)
Aspects of histochemistry and the nervous system (This is a proposed report of which the exact title is not yet known. It is listed by general subject matter under Group III)
PRESNOV, M. A. - "Histochemistry in experimental cancer chemotherapy"
ROSKIN, G. I. - "Comparative histochemistry of neurons differing in their function"
SHABADASH, A. L. - "Presence of ribonucleoproteins in mitochondria of different animal cells and their functional importance" and "Cytochemical and cytophysical peculiarities of nerve tissues biological organization"
STRUKOV, A. I. - "Histochemical examinations of connecting tissues in the light of recent pathological studies"
TUSTANOVSKIY, A. A. - "A comparative physical and chemical characteristic of precollagen and collastromine"
VASIL'YEV, Yu. M. - "Histochemical studies of the connective tissue, changes observed in the source of development of induced sarcoma in rats"
ZBARSKIY, I. B. - "Proteinic and nucleic composition of nuclear structures"
ZBARSKIY, I. B. and PEREVOSHCHIKOVA, K. A. - "On the role of cell nucleus and its fractions in protein biosynthesis measured by the incorporation of labeled amino acids"

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* Makarov's report presented at this congress.

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MAKAROV, P. V.

"The Problem of the Connection Between Nucleic Acids and Proteins in the Light of Cytological Analysis."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Cytology Laboratory of Leningrad State University Imeni A. A. Zhdanov and the Chair of General Biology of Leningrad Sanitary-Hygienic Medical Institute, Leningrad.

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GRUSHVITSKIY, I.V.; RAZUMOV, S.A.; MAKAROV, P.V., nauchnyy red.; VOROB'YEV, G.S., red.izd-va; GURDZHIYEVA, A.M., tekhn.red.

[Biology and religion] Biologiia i religiia. Leningrad, Ob-vo po rasprostraneniiu polit. i nauchn.znanii RSFSR. Leningr.otd-nie, 1960. 70 p. (MIRA 13:7)

1. Chlen-korrespondent AMN SSSR (for Makarov).
(Biology) (Religion)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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MAKAROV, P.V.

Recent data from a cytochemical analysis of the developing eggs of Ascaris equorum. Trudy LSGMI 43:47-63 '59. (MIRA 13:5)
(ASCARIDS AND ASCARIASIS) (OVUM)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

Some features of modifications in nucleic acids and proteins in the early embryogenesis of animals. Trudy LSGMI 43:7-14 '59. (MIRA 13:5)

(NUCLEIC ACIDS) (PROTEINS)

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MAKAROV, P.V. (Leningrad, L-52, ul. Yegorova, 18, kv.45)

Among Chinese morphologists. Arkh.anat.gist.i embr. 37 no.10:121-125 O '59. (MIRA 13:4)

(MORPHOLOGY)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

The Distribution of Polysaccharides in the Course of Gametogenesis, Fertilization and Cleavage of the Egg of Parascaris Equorum SOV/20-120-2-54/63

distributed in the cytoplasm. The pronuclei contain none. The amount of polysaccharides remains unchanged during the early prophase of the first cleavage. It increases during the late prophase and reaches a climax during the metaphase (figs. 1,8). The amount of polysaccharides in the two blastomeres remains high and increases in the course of further cleavages.
There are 1 figure and 7 references, 2 of which are Soviet.

ASSOCIATION: Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut (Leningrad Medical Institute for Hygiene and Sanitation)

PRESENTED: February 10, 1958, by Ye. N. Pavlovskiy, Member, Academy of Sciences USSR

SUBMITTED: February 8, 1958

Card 3/3

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although there are large amounts of them in the wall of the ovary. They apparently enter the oöcytes not at the apical but at the basal pole. With increasing growth the amount of polysaccharides in the oöcytes increases (figure 1,1). Towards the period of fertilization the cytoplasm of the oöcytes is overcrowded with them (figs. 1,3). At the study of the testicles no polysaccharides could be proved in the spermatogonia, spermatocytes or spermatids. Also completely developed spermatozoons have no polysaccharides. According to these features the parascaris differs from all other animals, for example from the mammals. In the course of fertilization the amount of polysaccharides decreases rapidly after the spermatozoon has entered (fig. 1,4). After the second maturity division is finished, and after the beginning of the pronucleus formation, polysaccharides appear in the egg again. The lipides are obviously their source now. Thus the zygote contains quite a lot of polysaccharides during the interphase which are regularly

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AUTHOR: Makarov, P. V. SOV/20-120-2-54/63

TITLE: The Distribution of Polysaccharides in the Course of Gametogenesis, Fertilization and Cleavage of the Egg of Parascaris Equorum (Dinamika polisakharidov v khode gametogeneza, oplodotvoreniya i drobleniya yaits Parascaris equorum)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 120, Nr 2, pp. 412-414 (USSR)

ABSTRACT: During the last years the attention of research-workers has been drawn to the problem of the localisation of polysaccharides in the cell (references 1-3). As far as the author is informed such a classical object as the parascaris equorum has never been investigated up to now. It is the aim of this paper to close that gap. In the introduction data and methodology are described, and later on the gametogenesis. Young oöcytes contain no polysaccharides. Only when they have reached a prismatic shape these substances appear on the radius around the rachis. The first inclusions become visible in the range above and below the nucleus. At that time no polysaccharides are proved in the rachis,

Card 1/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V. (Leningrad, ul. Yegorova, d. 18, kv. 45)

Recent data on the structure and properties of the cell nucleus.
Arkh.anat.gist. i embr. 35 no.6:3-21 N-D '58. (MIRA 12:1)
(CELL NUCLEUS,
review (Rus)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

30-1-34/39

AUTHOR: Kushner, Kh. F., Doctor of Biological Sciences

TITLE: The Problem of Heredity and Variability (Problema nasledstvennosti i izmenchivosti) Conference Held at the Institute of Genetics (Konferentsiya v institute genetiki)

PERIODICAL: Vestnik AN SSSR, 1958, Vol. 28, Nr 1, pp. 127 - 129 (USSR)

ABSTRACT: The conference on this problem took place from October 8, to October 14, 1957, at the Institute for Genetics AN USSR. It was attended by collaborators of scientific institutes and by the representatives of 50 other institutions of the country, among them Vaskhnil, the University of Moscow, the Academy of Medical Sciences of the USSR, and many others. The total attendance amounted to more than 1000 persons. The following lectures were delivered:

1) T. D. Lysenko: On the rules governing the life of biological species and their importance in practice.
2) N. I. Nuzhdin: On the material carriers of heredity.
3) K. S. Sukhov: Genetical problems connected with virus research.
4) P. V. Makarov: Cytological and cytochemical changes of the gametes in the course of fecundation or impregnation
5) S. M. Sarkisyan: The participation of the organism of the mother and its cytoplasm in the determination of a num-

Card ~~1/4~~

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

Cytological and cytochemical investigations of developing eggs of Parascaris equorum [with summary in English]. Zhur.ob.biol. 19 no.5:338-347 S-O '58 (MIRA 11:10)

1. Kafedra obshchey biologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta i laboratoriya tsitologii Leningradskogo universiteta.

(ASCARIDS AND ASCARIASIS)
(DESOXYRIBONUCLEIC ACID)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

MAKAROV, P.V. (Leningrad, ul. Yegorova, d.18, kv. 45)

Some aspects of the development of cytology in the U.S.S.R. during the last 40 years. Arkh.anat.gist. i embr. 34 no.4:25-36 Jl-Ag '57. (MIRA 10:11)

(CYTOLOGY, history,
in Russia (Rus))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

at the International Congress on the Biology of Development. Arch. anat.gist. i embr. 34 no.3:121-122 My-Je '57. (MLRA 10:10)

1. Adres avtora: Leningrad, ul. Kurakina, d.1/3, Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut, kafedra biologii.
(BIOLOGY)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

USSR / General Biology. Cytology. General Cytology. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14298

Author : Kozlov, V. Ye.; Makarov, P. V.
Inst : Leningrad University
Title : A Review by K. Yu. Kostryukova of the Article "The Nature of Forming Processes in a Substance Isolated from Cells"

Orig Pub : Vestn. Leningr. un-ta, 1957, No 3, 137-138

Abstract : No abstract given

Card 1/1

11

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, Petr Vasil'yevich

MAKAROV, Petr Vasil'yevich, prof.; BENYUMOV, O.M., red.; GUBIN, M.I., tekhn.red.

[Some problems of modern cytology] Nekotorye problemy sovremennoi tsitologii. Moskva, Izd-vo "Znanie," 1957. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 8, no.40) (MIRA 11:2)

1. Chlen-korrespondent AMN SSSR. (for Makarov)
(CYTOLOGY)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

Makarov P.V.

USSR / General Biology. Physical and Chemical Biology B-1

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 190

Author : Makarov, P.V.

Inst : Not Given

Title : Some Problems in Cytochemistry of Nucleic Acids

Orig Pub : Uspekhi sovrem. biologii, 1956, 42, No 3, 289-303

Abstract : This is a review of studies devoted to the role of nucleic acids (chiefly ribonucleic acid RNA) in cellular activity. The question of inter-conversion of RNA and desoxyribonucleic acid DNA, of partial or total synthesis of nucleic acids, of the functional significance of RNA in the processes of cell growth and protein synthesis are clarified. The author considers Kaspersson's theory of the nucleus as the center of protein synthesis as insufficiently proven. He also considers concepts of existence of chromatin surrounding the nucleus, as well as the presence of a connection between the nucleus and the synthetic processes within the cell, not proven. The author cites data denoting the role of RNA as an energy substance, necessary to the normal flow of synthetic processes. At the same time a concept is presented of the role of RNA as a matrix for protein formation. Bibl. 102 refs.

Card : 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

USSR/General Biology. General Physiology. Biochemistry, and Biophysics. B-1

Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35024

vanced by the partisans of the constancy of DNA concerning the role of polyploid and polytenic tissues seems arbitrary and unconvincing to the author. However, he concludes with the assertion that "In adult organisms, the quantity of DNA in the nuclei, in constant environment, is evidently more or less stable; however, this circumstance can by no means serve as a support for the theory of the constancy of DNA..." A bibliography of 97 titles.

Card : 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

USSR/General Biology. General Physiology. Biochemistry, and Biophysics. B-1

Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35024

Author : Makarov, P.V.
Inst :
Title : The Theory of Constancy of Desoxyribonucleic Acid in the Cell and a Criticism of the Theory.

Orig Pub: Uspekhi sovrem. biologii, 1956, 41, No 1, 3-25

Abstract: A critical review of the research on the content of DNA in the cell. The author maintains that the theory of the constancy of the content of DNA in the nuclei meets a number of difficulties connected with the fluctuation of the quantity of DNA in the cells of various tissues of the same animal, depending particularly on the physiological condition of the cell; it is shown in the disappearance of DNA in the course of cogenesis, in the pronucleus, and in several stages of the decay and embryological development of some animals. The decisions ad-

Card : 1/2

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USSR / General Biology. Individual Development. B-4
Reproductive Cells.

Abs Jour: Ref Zhur-Biol., No 18, 1958, 81000.

Abstract: elements of the tetrads of both strains are, at all times, connected together by crosspieces of a substance, containing DNA, which confirms the origin of the tetrads from a single caryosome. At the division maturity, the distribution of the chromatin is not always uniform. The spermatids usually contain about two chromosomes, but sometimes only one or three. The chromatin of spermatocytes contains not only DNA but also RNA. At the formation of spermatids, RNA emerges from the chromatin and afterwards from the body of the spermatid. The development of tetrads in oocytes occurs, on the whole, in the same manner as in spermatocytes. On the basis of these operations,

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USSR / General Biology. Individual Development. Reproductive Cells. B-4

Abs Jour: Ref Zhur-Biol., No 18, 1958, 81000.

Abstract: work, that, in the author's opinion, seems to be the result of the coagulative action of the fixative. In the caryosome, a process of polarization of chromatin begins, that leads to the development of two, and later on four, corpuscles - tetrads. In the strain bivalens of the spermatocyte I, one chromosome and a considerable number of chromatin chunks are formed, that are gradually dissolved, in consequence of which the author discerns a diminution of chromatin, in a manner of its own. The caryosome stretches out and develops two polar masses of DNA, which are joined together by numerous crosspieces. In each pile, at first two and later on four sections are individualized. Two tetrads are obtained. The

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

USSR / General Biology. Individual Development. Reproductive Cells. B-4

Abs Jour: Ref Zhur-Biol., No 18, 1958, 81000.

Author : Makarov, P. V.
Inst : Not given.
Title : Investigation of Gametogenesis in the Equine Ascarid in Connection with the Problem of the Reduction Division.

Orig Pub: Zh. obshch. biologii, 1956, 17, No 3, 185-201.

Abstract: On the basis of new investigation of gametogenesis, there is described the preparation to the meiosis and the process of division in the maturing ascarid. In the nucleus of the spermatocyte I of the strain univalens, a single corpuscle is formed from the chromatin and is designated by the author as caryosome. Later on there appear a few nucleoli, which fuse into a single nucleolus, and the nuclear net-

Card 1/4 Chair of General Biology, Leningrad Sanitary Hygiene Medical Inst.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

"Cytological and cytochemical investigations of developing eggs of Ascaris" a paper presented at the International Congress on Biology of Growth, Brown University, Providence, R. I. from 23 to 25 July 1956.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

N/5
631
.M2
1956

OBSHCHAYA BIOLOGIYA; UCHEBNIK DLYA STUDENTOV MEDITSINSKIKH INSTITUV (GENERAL BIOLOGY, BY) V. V. MAKHOVKO I P. V. MAKAROV. 2. IZD. MOSKVA, MEDGIZ, 1956. 531 p. ILLUS. BIBLIOGRAPHICAL FOOTNOTES.

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MACAROV, P.V. [Makarov, P.V.]

The cytology of the fecundation process (Ascaris megalocephala). Analele biol 8 no.1:49-64 Ja-Mr '54.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

Nematoda

Cytology of reproduction in Ascaris megalocephala; on the morphology of impregnation in accordance with Lysenko's theory of assimilation. Izv. AN SSSR Ser. biol. No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.V.

[Fundamentals of cytology] Osnovy tsitologii. Moskva, "Sovetskaia nauka", 1953. 530 p. (MLRA 7:4)
(Cells)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, F.V.

Critical analysis of reduction division; experimental-morphological investigation of spermatogenous cells in Amphibia. Arkh. anat., Moskva 19 no.1:48-70 Jan-Feb 52. (CLML 21:5)

1. Corresponding member of the Academy of Medical Sciences USSR, Professor. 2. Of the Department of Biology of Leningrad Sanitary-Hygienic Medical Institute and of the Laboratory of Cytology of Leningrad State University.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

1. MAKAROV, P. V.

2. USSR. (600)

4. Science

7. New successes in Soviet biology. Stenogr. publ. letsii. Leningrad, 1951.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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MAKAROV, P. V.

"Physico-chemical Properties Of Tissues And Methods For Their Study." (p. 147) by Makarov, P. V. (Leningrad, 1948, 323 pages) Reviewed by Kremiansky, V. I.

SO: PROGRESS OF CONTEMPORARY BIOLOGY (Us. Sovrem. Biol) Vol. XXVII 1949 No. 1 (Jan.-Feb.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

24026 MAKAROV, P. V. Stroyeniye kletochnogo yadra i metody ego izucheniya. Trudy Akad. Med. Nauk SSSR, T. III, 1949, S. 20-25.

SO: Letopis, No. 32, 1949.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

PA 11/49T56

USSR/Medicine - Nervous System
Medicine - Irritation

Jul 48

"Changes in the Structure of the Nucleus of Ganglia Due to the Influence of Various Types of Irritations," P. V. Makarov, Leningrad State U, 4 pp

"Dok Ak Nauk SSSR" Vol LXI, No 2

Describes effect of irritations on frog's ganglia, fixed by osmium tetroxide. Illustrates results by microphotographs. They establish dynamic nature of nuclear structure and neoplasm produced by various stimulants being reversible. Submitted 7 May 48.

[redacted]

11/49T56

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

Makarov, P. V. "The role of Soviet cytologists in the study of Gol'dzu's apparatus", Vestnik Leningr. un-ta, 1948, No. 12, p. 13-35, - Biblio: p. 33-35.

SO: U-4631, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V. PA 66T89

USSR/Medicine - Stains and Staining Mar/Apr 1948
Medicine - Bacteriology

"In Vivo Staining as a Method of Diagnosing Anaerobic Infections," P. V. Makarov, Chair of Gen Biol, Second Leningrad Med Inst, 4 pp

"Arkhiv Patologii" Vol X, No 2

Method is characterized as simple, requiring no special equipment other than microscope and renders bacteriological analysis possible in 1-1½ hours after obtaining the specimen. Submitted 1947.

66T89

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

"The Transformation of the Substance of Chromosomes in the Early Prophase and Recent Telophase." (p. 363) by Makarov, P. V.

SO: Journal of General Biology, Contents of Vol. IX, No. 5 (Issues 1-6 for 1948).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

"Formation of the Chromosomes De Novo under Experimental Conditions"

Dok AN, 54, No 2, 1946

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

The distribution of thymonucleic acid in interkinetic nucleus. P. V. Makarov (Leningrad State Univ.). *Compt. rend. acad. sci. U.R.S.S.* 54, 69-71(1946)(in English).—A method is proposed for preserving in permanent slides, the vital microscopic structure of the interkinetic nucleus without distortion. Small pieces of the tissue to be examd. were treated for 1-3 hrs. with 0.25 to 0.5% OsO_4 soln., washed, and then immersed in a 20% neutral HCHO soln. for 3-5 days. Later the tissue was embedded in paraffin and stained. Nuclei from a variety of animal and plant cells were studied by this method and the conclusion was reached that thymonucleic acid was probably contained in many nuclei in a colloidal dispersed state. The accuracy of the method was shown by treating cells of known nuclear structure and observing these same structures on prepns. treated by the proposed method. Applications of these results to the theories of cell structure are briefly discussed and the conclusion was reached that the homogeneity of the nucleus is a real, rather than an apparent one. T. I. Webster

COMMON ELEMENTS

OPEN

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P. V.

"Demonstration of Paranecrotic Cell Alterations on Permanent Microscopic Preparations"

Dok AN, 47, No 2, 1945

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC

A-4

Action of narcotics on protozoa. P. V. MAKAROV (Trans. physiol. Inst. Leningrad, 1936, 46, 108–110).—Narcotics produce changes in the degree of dispersion of the colloids of the nucleus and protoplasm of protozoa. J. W. A.

COMMON ELEMENTS

OPEN

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Fe GROUPS

3RD AND 4TH ORDERS

AUTHOR INDEX

1ST AND 2ND LETTER

3RD LETTER

COMMON VARIABLES INDEX

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

Determining the sulfur in heavy petroleum products and additives by the iodometric method. Khim. i tekh. topl. i masel 7 no.10: 60-62 O'62 (MIRA 17:7)

1. Orenburgskiy neftemaslozavod.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, F.T.; PERSHINA, K.Ye.

Volumetric method for the determination of zinc in zinc dialkyl dithiophosphate. Khim. i tekh. topl. i masel 8 no.10:62-64 O '63. (MIRA 16:11)

1. Orenburgskiy neftemaslozavod.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.T.; IN'KOVA, N.M.; KLEMENT'YEVA, N.F.

Determination of phosphorus in heavy petroleum products and additives by means of the volumetric method during ashing. Khim. i tekh. topl. i masel 8 no.5:65-66 My '63. (MIRA 16:8)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

Determination of sulphur in heavy ... S/065/62/000/010/004/004
E075/E136

ammoniacal medium in the presence of the precipitated $BaSO_4$. Subsequently the excess of potassium chromate is titrated iodometrically with a standard thiosulphate solution.

ASSOCIATION: Orenburgskiy neftemaslozavod (Orenburg Refinery)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

S/065/62/000/010/004/004
E075/E136

AUTHORS: In'kova, N.M., Makarov, P.T., and Klement'yeva, N.F.

TITLE: Determination of sulphur in heavy petroleum products and additives by the iodometric method

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.10, 1962, 60-62

TEXT: Deficiencies in the determination of S in heavy petroleum products by reacting barium chromate with sulphate ions were overcome by using $BaCl_2$ and potassium chromate solutions instead of solid barium chromate, which is not soluble in water. This modification reduced the time of S determination by a factor of 5 to 6 compared with a standard gravimetric barium sulphate method ГОСТ 1431-49 (GOST 1431-49). In the modified method an oil sample is ashed which converts any Ba present into $BaCO_3$ and sulphur into Na_2SO_4. The latter is extracted with hot water and the extract made up to 100 ml. A part of the solution is treated with a standard $BaCl_2$ solution and the excess barium treated with an excess of standard potassium chromate solution in weakly

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

USSR / Farm Animals. Cattle.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7325

Author : Kokovkin, I. I.; Makarov, P. T.
Inst : Chkalov Scientific Research Institute of Dairy and Beef Cattle Husbandry
Title : The Effect of Some Feeds upon the Quality of Milk and Butter

Orig Pub : Tr. Chkalovskogo n.-i. in-ta molochno-myasn. skotovodstva, 1956, vyp. 10, 327-334

Abstract : As 20 kg of the Maxim type pumpkin were fed in addition to coarse feeds, the taste of milk improved. The butter which was then produced, could be distinguished by a more intensive coloring and better taste. The iodine and Reichert-Meissel counts increased in milk fat. As 30 kg of the Pepo kind pumpkin were

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L 27083-66

ACC NR: AP6017430

creteness for the winking reflex was 210 msec. The relations between the critical interval of discreteness and P (at constant values of t and S = the area of irritation), t (at constant values of P and S), and S (at constant values of P and t) were similar: with increasing magnitude of any of these variables, the critical interval of discreteness decreased. Orig. art. has: 5 figures and 1 formulas. [JPRS]

SUB CODE: 06 / SUBM DATE: 25Aug64 / ORIG REF: 010 / OTH REF: 003

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

L 27083-66

ACC NR: AP6017430 SOURCE CODE: UR/0217/65/010/002/0297/0303

AUTHOR: Makarov, P. O.; Matoyan, D. S.

ORG: Physiological Institute im. A. A. Ukhtomskiy, Leningrad State University im. A. A. Zhdanov (Fiziologicheskiy institut Leningradskogo gosudarstvennogo universiteta)

TITLE: Adequatometry and discretometry of the winking reflex

SOURCE: Biofizika, v. 10, no. 2, 1965, 297-303

TOPIC TAGS: reflex activity, animal physiology

ABSTRACT: The characteristics of two reactions (speech and the winking reflex) on irritation of the cornea of the eye with an air stream were compared. The air pressure (P) - duration of the stimulus (t) curves plotted on the basis of the speech and winking reflexes were of a hyperboloid type and could be described by equations $P = a/t + b$, where b is the rheobase and a is a constant. The thresholds of the winking reflex were considerably higher than those of sensation (as indicated by a speech response) at all values of t. The adequate chronaxy of irritation for winking and sensation inducing a speech response was 65-120 and 120-140 msec, respectively. The adequate magnitude of irritation corresponding to an energy minimum producing a response was 20-50 msec for winking and 100-140 msec for sensation (speech response). The latent period for winking at threshold stimuli for this reflex was 200 msec, independent of the characteristics of the stimulus. The minimum critical interval of dis-

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MAKAROV, P.O.; SVYATAYA, L.P.

Adequatometry of the human olfactory analyzer. Biofizika 10 no.6:1093-1098 '65. (MIRA 19:1)

1. Biologo-pochvennyy fakul'tet Leningradskogo gosudarstvennogo universiteta imeni A.A.Zhdanova. Submitted December 25, 1964.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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MAKAROV, P.O.; MATOYAN, D.S.

Adequatometry and discretometry of a winking reflex. Biofizika 10 no.2: 297-303 '65. (MIRA 18:7)

1. Fiziologicheskiy institut imeni Ukhtomskogo Leningradskogo gosudarstvennogo universiteta imeni Zhdanova.

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ACCESSION NR: AP5001999

[illegible] rose during exposure to ultrasound, while the resting [illegible] and duration of motor responses diminished. Immediately [illegible] the threshold dropped to its original value and then rose [illegible] the resting potential and duration of the motor responses [illegible] to their original levels. The authors attribute the [illegible] observed during exposure to ultrasound to a loss of [illegible] the nerve cells. Orig. art. has: 3 figures. [BM]

ASSOCIATION: Kafedra biofiziki Leningradskogo gosudarstvennogo [illegible] A. A. Zhdanova (Department of Biophysics, Leningrad [illegible])

[illegible] ENCL: 00 SUB CODE: [illegible]

[illegible] OTHER: 003 ATD PRESS: 3201

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

[illegible]

[illegible] 6/0217/65/010/001/0181/0184

[illegible] Lunskiy, A. [illegible]

[illegible] of ultrasound on nerves and individual nerve fibers

SOURCE: [illegible], v. 10, no. 1, 1965, 181-184

[illegible] ultrasound, biological effect, nerve, nerve fiber, bioelec[illegible] impulse propagation, stimulation threshold

[illegible] in order to determine the effects of ultrasound on bioelec[illegible] of neural cells, isolated sciatic nerves of frogs and [illegible] of those nerves were exposed to ultrasound (frequen[illegible] 100 watts/cm^2 impulse rate, [illegible] per sec) pulse[illegible] duration of exposure [illegible] min; effective distance [illegible] temperature was 10[illegible] ultrasound was focused by [illegible] (organic glass) lens. When the temperature effect [illegible] effects were reduced, it was found that ultrasound [illegible] in the functional condition of the nerve. However, [illegible] failed to initiate propagation of excitation in [illegible] nerve fibers. The stimulation threshold of nerves and

[illegible]

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Five years of the Department of Biophysics. Vest. LGU 19 no.21:
159-160 '64 (MIRA 18:1)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.O.; LINENKO, V.I.

Biophysics of the sense organs and psychopharmacology as exemplified by the action of some pharmacological preparations on acoustic and visual analysors in man. Vest. LGU 19 no.21: 95-108 '64 (MIRA 18:1)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.O.

Chronotope; interrelations of time and space in the neurodynamics of man. Vop. psikhol. 10 no.2:79-86 Mr-Ap '64.

(MIRA 17:9)

1. Kafedra biofiziki gosudarstvennogo universiteta, Leningrad.

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MAKAROV, P.O.; LONSKIY, A.V.; SOKOV, B.N.

Effect of ultrasound on a single stretch receptor. Biofizika 9 no.4:523-526 '64. (MIRA 18:3)

1. Kafedra biofiziki Leningradskogo gosudarstvennogo universiteta imeni Zhdanova.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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ACCESSION NR: AP4042161

chamber and fixed in the proper position for focused ultrasonic radiation. Ultrasonic intensity varied up to 100 w/cm², duration ranged from 1 msec to 10 sec, and the frequency was 1 mc. The chamber with the preparation was thermostated at 13°C. Receptor electric activity was recorded by an EMO-1 oscillograph. Findings show that the functional state of the stretch receptor depends on ultrasonic intensity. The frequency of receptor impulses increases with low ultrasonic intensities and decreases with high ultrasonic intensities. An adequate stimulus to the stretch receptor can be produced by ultrasonic effect. The mechanism of ultrasonic stimulation of the stretch receptor is not known, but may be related to breaking of certain bonds, possibly van der Waal's. Orig. art. has: 5 figures.

ASSOCIATION: Kafedra biofiziki Leningradskogo gosudarstvennogo universiteta im. A. A. Zhdanova (Biophysics Department of the Leningrad State University)

SUBMITTED: 16Jun63 ENCL: 00 SUB CODE: LS

NR REF SOV: 003 OTHER: 001

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

ACCESSION NR: AP4012481 S/0217/64/009/004/0523/0525

AUTHOR: Makarov, P. O.; Lonskiy, A. V.; Sokor, B. N.

TITLE: Ultrasonic effect on a single stretch receptor

SOURCE: Biofizika, v. 9, no. 4, 1964, 523-525

TOPIC TAGS: ultrasonic effect, stimulus, mechanoreceptor, stretch receptor, frog, van der Waals bond

ABSTRACT: In an earlier investigation of ultrasonic dynamics it was demonstrated that an ultrasonic effect is incapable of producing an adequate stimulus in a nerve and a single nerve fiber. The present study was carried out to find whether an ultrasonic effect can produce an adequate stimulus in a mechanoreceptor, such as a stretch receptor. The electrical activity of a frog stretch receptor was investigated under various ultrasonic conditions. After the muscle with the nerve was removed from the frog, one sensory axon leading to the stretch receptor was isolated and all other nerve fibers were cut. The prepared muscle was covered with a physiological solution in a

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MAKAROV, P.O.; VENSLAUSKAS, [illegible]

Study of the dynamics of [illegible]
in man by the method of [illegible]
no.5:100-104 '64.

1. Kafedra biofiziki Leningradskogo [illegible]
i TSentral'naya nauchno-issledovatel'skaya [illegible]
meditsinskogo instituta.

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MAKAROV, S.M.; BARTASH, A.N.; TARAN I.Ye.; KOKASHINSKIY, I.I.

Application of the gastric juice of horses in treating young animals. Veterinariia 40 no.4:65-66 Ap '63. (MIRA 17:1)

1. Starshiy veterinarnyy vrach Upravleniya veterinarii Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov BSSR (for Makarov). 2. Glavnyy veterinarnyy vrach Sovkhoza "Shatilki", Svetlogorskogo rayona, Gomel'skoy oblasti (for Bartash). 3. Glavnyy veterinarnyy vrach Polesskoy sel'skokhozyaystvennoy opytnoy stantsii (for Taran). 4. Glavnyy veterinarnyy vrach Svetlogorskogo proizvodstvennogo upravleniya Belorusskoy SSR. (for Kokashinskiy).

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MAKAROV, P.O.

Problem of the reflection of moving and immobile optic stimuli.
Vest.LGU 18 no.3:115-120 '63. (MIRA 16:2)
(VISION)

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MAKAROV, P.O.; LONSKIY, A.V.

Adequatometer for measuring the dynamic characteristics of vision and hearing in man. Biofizika 8 no.2:255-257 '63. (MIRA 17:10)

1. Kafedra biofiziki Leningradskogo gosudarstvennogo universiteta im. A.A. Zhdanova.

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MAKAROV, P.O.

Three forms of the relation of the hearing threshold to its duration. Biofizika 8 no.1:69-76 '63. (MIRA 17:8)

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.O., prof.

Further studies of direct and reverse masking in the activity of the sense organs. Nerv. sist. no.4:71-75 '63 (MIRA 18:7)

1. Fiziologicheskiy institut i kafedra biofiziki Leningradskogo universiteta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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KRYUKOV, B.I.; MAKAROV, P.O.

Problem of double signalization in the model study of nervous activity. Prim. mat. metod. v biol. no.2:52-59 '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

VERZILIN, Nikita Nikolayevich; D'YAKONOVA-SAVEL'YEVA, Ye.N., red.; VASIL'YEV, L.L., red.; IVANOV, A.V., red.; KOLOSOV, N.G., red.; MAKAROV, P.O., red.; POLKANOV, A.A., red. [deceased]; POLYANSKIY, YU.I., red.; STEPANOV, D.L., red.; SHVETSOVA, E.M., red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

[Cretaceous sediments in the northern part of the Fergana Valley and their oil potential] Melovye otlozheniia severa Ferganskoi vpadiny i ikh neftenosnost'. Leningrad, Gostoptekhizdat, 1963. 219 p. (Leningradskoe obshchestvo estestvoispytatelei. Trudy, vol. 70, no.2). (MIRA 16:12)

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MAKAROV, P.O.; NEVSKAYA, A.A.

Biophysics of neural signaling. Biul. eksp. biol. i med. 3[i.e.53] no.3:3-7 Mr '62. (MIRA 15:4)

1. Iz laboratorii biofiziki organov chuvstv kafedry biofiziki (zav. - prof. P.O.Makarov) Leningradskogo ordena Lenina gosudarstvennogo universiteta imeni A.A.Zhdanova. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym.
(NERVOUS SYSTEM)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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MAKAROV, I.O.

Discretometry of human and [illegible]. Nerv. sist. [illegible]
2 no.3:125-134 '62. (MIR [illegible])

1. Kafedra biofiziki Fiziologicheskogo instituta imeni Ukhtomskogo Leningradskogo gosudarstvennogo universiteta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.O.

Problems in the biophysics of sense organs; general adequateness theory of the activity of sense organs. Trudy Len. ob-va est. 72 no.1:139-142 '61. (MIRA 15:3)
(BIOPHYSICS) (SENSES AND SENSATION)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, P.O.

Biophysical research and techniques used in some university laboratories of England. Trudy Len. ob-va est. 72 no.1:142-144 '61. (MIRA 15:3)

(GREAT BRITAIN--BIOPHYSICS--RESEARCH)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

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MAKAROV, P.O.

Biophysics at the Leningrad University. Vest LGU 16 no.21:156-159 '61. (MIRA 14:11)

(Leningrad--Biophysics--Research)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500043-6

MAKAROV, F.O.

Evaluation of the functional state of the human nervous system (its adequacy and labilization). Trudy 1-go MMI 11:173-184 '61. (MIRA 15:5)

1. Kafedra fiziologii (zav. - prof. L.L.Vasil'yev) Leningradskogo gosudarstvennogo universiteta.

(NERVOUS SYSTEM)

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