

RYZHKOV, S.V., kand.tekhn.nauk

Cylindrical probe for measuring low speeds of ships. Sudostroenie
29 no.7:60-61 J1 '63. (MIRA 16:9)
(Ships--Speed)

RYZHKOV, S.V.; GORBATSEVICH, A.B.

Electric defibrillation in sudden cardiac arrest in surgical
patients, Vest, khir, 84 no. 1:51-56 Ja '60. (MIRA 13:10)
(HEART FAILURE)

ACC NR: AT7002850 (N) SOURCE CODE: UR/3239/66/000/003/0025/0029

AUTHOR: Ryzhkov, S. V.

ORG: none

TITLE: Calculation of marine-boiler bisectional steam superheaters with a spray-type desuperheater

SOURCE: Nikolayev. Korablestroitel'nyy institut. Sudostroyeniye i morskoye sooruzheniya, no. 3, 1966. Sudovyye energeticheskiye ustanovki (Ship power equipment), 25-29

TOPIC TAGS: steam boiler, steam superheater, heat transfer coefficient, heat absorption, ~~marine equipment~~ ship component, thermodynamic calculation

ABSTRACT: A method for the heat calculation of two-stage convection superheaters with interstage spray-type desuperheaters for high-parameter marine boilers is described. During steady operation, when the temperature and volume of gases before the superheater remain stable the heat absorption of the superheater depends on the volume of steam passing through it. A decrease in the volume of steam lowers the heat absorption and increases the temperature of the steam. An analysis shows that changes in heat absorption depend on the correlation between

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the water equivalents of combustion products and superheated steam, the magnitude of the heat-transfer coefficient and heated surface, and also upon the characteristics of the flow of gases and steam. A method of calculating the temperature and enthalpy of the combustion products beyond the first stage of the superheater, from which all other necessary values can be determined, is described. To simplify calculations, the correction factors necessary for direct flow and counter flow are plotted graphically and can be used when the volume of water sprayed into the desuperheater does not exceed 10% of the steam capacity of the boiler.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 001

RYZHKOV, S.V.

Use of radioactive gold in the treatment of malignant tumors;
survey of the literature. Vest. khir. 84 no. 2:129-133 F '60.
(MIRA 14:1)

(CANCER) (GOLD--ISOTOPES)

35750

S/124/62/000/003/027/052
D237/D302

10.3000

AUTHOR: Ryzhkov, S.V.

TITLE: Experimental method of determining heat transfer by radiation and conduction in the case of a cylinder in air stream

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 3, 1962, 94, abstract 3B591 (Tr. Nikolayevskogo korablestroit, in-ta, 1961, no. 22, 61 - 63)

TEXT: It is suggested that in determining the radiant and conductive part of the streamlining flow, initial experiments are performed under the conditions of free convection. As radiant and conductive flows are independent of the character of the motion, such experiments permit determination of the correction for radiation and conduction also in the case of forced convection. Experiments on the transverse flow about a cylinder in an aerodynamic tube are used as an example. Diameter of the cylinder was 22 mm, and the law of heat transfer was obtained in the form: $N = 0.231 R^{0.62}$. A com- ✓

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Experimental method of determining ... S/124/62/000/003/027/052
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parison with the results of M.A. Mikheyev is made and the discrepancy in the values of the coefficients is explained by different turbulence conditions. [Abstractor's note: Complete translation].

Card 2/2

J

RYZHKOV, S. V.; ROSTOV, M. L.; ROMANOV, V. N.; YAKIMENKO, V. G.

Use of radioactive gold (Au^{198}) in radical operations for stomach cancer. Vop. onk. 8 no.2:51-56 '62. (MIRA 15:2)

1. Iz kliniki fakul'tetskoy khirurgii No. 1 (nach. - prof. V. M. Sitenko) Voenno-meditsinskoy ordena Lenina akademii im. S. M. Kirova.

(STOMACH--CANCER) (GOLD--ISOTOPES)

ALEKSANDROV, N.N.; RYZHKOV, S.V.; SUKOVATYKH, L.S.; CHALISOV, I.A.;
CHESNOKOV, G.B.; KISELEVA, Ye.I.; BUENOVA, R.N.; RAMZEN-YEVDOKIMOV,
I.G.; SHAMOV, Vladimir Nikolayevich, prof., zas. deyatel' nauki, red.;
VOLKOV, L.F., red.; KOSTAKOVA, M.S., tekhn. red.; LEBEDEVA, Z.V., tekhn. red.

[Wounds of the skull and brain in acute radiation sickness] Ranenia
cherepa i golovno mozga pri ostroi luchevoi bolezni. Pod red. V.N.
Shamova. Leningrad, Medgiz, 1962. 174 p. (MIRA 15:3)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Shamov).
(RADIATION SICKNESS) (BRAIN—WOUNDS AND INJURIES)
(SKULL—WOUNDS AND INJURIES)

ZERNOV, A.I.; LISITSIN M.S. [deceased]; POPOV, V.I., prokhodtsev, I.I.;
RESHETOV, A.I.; RYZHKOV, S.V.; SITENKO, V.M.; CHISTOVICH, A.N.

Results in the treatment of cancer patients with semicarbazide
and cadmium. Vop. onk. 9 no.6:114-116 '63. (MIRA 17:8)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova
(nachal'nik - prof. P.P. Goncharov). Adres avtorov: Leningrad,
K-9, ul. Lebedeva, 6, Voyenno-meditsinskaya ordena Lenina
akademiya imeni Kirova.

External radiation during the application of Au-198 in clinical
surgery. Med. rad. no. 11:32-35 '61. (MIRA 14:11)

1. Iz kliniki fakul'tetskoy khirurgii No. 1 (nach. - prof. V.M.
Sitenko) Voenno-meditsinskoy ordena Lenina akademii imeni
S.M. Kirova,
(COLD ISOTOPES) (RADIATION PROTECTION)

SOV/6055

PHASE I BOOK EXPLOITATION

Aleksandrov, N. N.; S. V. Ryzhkov, L. S. Sukovatykh,
I. A. Chalisov, G. B. Chesnokov, Ye. I. Kiseleva,
R. N. Bubnova, I. G. Ramzen-Yevdokimov

Raneniya cherepa i golovnoy mozga pri ostroy luchevoy
bolezni (Cranial and Cerebral Injuries in Acute Radiation
Sickness). Leningrad, Medgiz, 1962. 176 p. 3500 copies
printed.

Ed. (Title page): V. N. Shamov, Acting Member of the Academy
of Medical Sciences USSR, Honored Scientist, Professor;
Eds.: Shamov, Vladimir Nikolayevich, Professor, and
L. F. Volkov; Tech. Eds.: M. S. Kostakova and Z. V. Lebedeva.

PURPOSE: This book is intended for surgeons in general and
neurosurgeons in particular, and may also be useful to phy-
sicians who might have to treat victims of atomic explosions.

COVERAGE: The book describes the results of numerous animal
experiments investigating important peculiarities of the

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Cranial and Cerebral (Cont.)

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clinical course, therapy, and outcome of infected cranial and cerebral injuries in subjects affected by penetrating radiation. Special features of the clinical phenomena and diagnostics of cerebral injuries and complications due to intracranial infection in acute radiation sickness are dealt with, and results of surgical and several kinds of antibiotic therapy are given. Basic methods for the use of antibiotics are presented. In the experiments, cranial and cerebral injuries were infected by cultures of suppurative infection-producing agents, bone splinters were left in the wounds, and primary surgical treatment was delayed for three days after irradiation and injury. Even under these conditions, satisfactory therapeutic results were obtained. The experiments indicate the desirability of extending the indications for the use of primary blind sutures [pervichnykh glukhikh shvov]. This investigation of cranial and cerebral injuries combined with radiation effects was conducted at the Academy of Military Medicine of the Order of Lenin imeni S. M. Kirov by a collective of authors under the leadership of Doctor of Medical Sciences N. N. Aleksandrov. There are 850 references: 579 Soviet, 219 English, 29 German, 20 French, 1 Italian, 1 Swedish, and 1 Hungarian.

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Cranial and Cerebral (Cont.)

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Effect of infection complications on the course and the outcome of cranial and cerebral injuries	5
Time limits for primary surgical treatment of cranial and cerebral injuries	8
Application of a primary blind suture [pervichnyy glukhoy shov] in cranial and cerebral injuries	10
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USSR / Human and Animal Morphology (Normal and Pathological).
Circulatory System. Blood Vessels.

S

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2953

Author : Ryzhkov, T. F.
Inst : Rostov-on-Don Medical Institute
Title : Intra-Organic Distribution and Caliber of Portal Vein
Branches of the Liver in Man

Orig Pub : Tr. Otchetn. Nauchn. konferentsii (Rostovsk.-n/D. med.
in-t) za 1956 g., Rostov-na-Donu, 1957, 147-149

Abstract : On 50 specimens of the liver (L) of humans of various
ages and sexes it was demonstrated that the right
and left branches of the portal vein of the liver (PVL)
enter their respective lobes close to the inferior
surface of L. The number of secondary branches of PVL
in the right lobe of L is 4-6, in the left lobe 3-4;
they are also distributed closer to the inferior surface

Card 1/2

RYZHROV, T. F.

Early deep interrow subsoiling in controlling black scurf of
potatoes. Zashch. rast. ot vred. i bol. 6 no.6:31-32 Je '61.
(MIRA 16:4)

1. Vsesoyuznyy institut rasteniyevodstva, Leningrad.

(Potatoes—Diseases and pests) (Rhizoctonia)

RYZHKOV, T.E., kand.med.nauk

Use of a grid system in stereoroentgenography. Vrach,delo
supplement '57:59-60 (MIRA 11:3)

1. Kafedra normal'noy anatomii (zav.--prof. P.A.Sokolov) Rostovskogo
meditsinskogo instituta.
(RADIOGRAPHY)

RYZHKOV, T.F., kandidat meditsinskikh nauk

**Syringe with valve plunger for continuous action. Khirurgiia no.9:
76-77 S '54. (MLRA 7:12)**

1. Iz kafedry normal'noy anatomii Rostovskogo-na-Donu meditsinskogo instituta (zav. doktor meditsinskikh nauk prof. P.A.Sokolov)
(ANESTHESIA, LOCAL, apparatus and instruments,
syringe for continuous action)
(SYRINGES,
continuous action syringe in local anesth.)

RYZHKOV, T.G.; VOLKOV, A.N. (Sochi)

**Methodology for an experimental study of the effect of Matsesta
public baths (hydrogen sulfide) on experimental cholesterol
atherosclerosis. Vrach.delo supplement '57:94 (MIRA 11:3)
(HYDROGEN SULFIDE--PHYSIOLOGICAL EFFECT)
(ARTERIOSCLEROSIS)**

WYZHKOV, Yuriy Dmitriyevich

(gialuronidaza) B. Proteus vulgaris

Dissertation for candidate of a Medical Science degree. Chair of Biological
Chemistry (head, Prof. N.N. Ivanovskiy), Saratov Medical Institute, 1951

Effect of Matsesta hydrogen sulfide baths on cholesteremia and the development of experimental cholesterol atherosclerosis in rabbits. Vop.kur.fizioter. i lech. fiz. kul't. 23 no.1:3-7 '58.

(MIRA 11:3)

1. Iz Sochinskogo sanatoriya imeni K.Ye.Voroshilova (nach. Ye.D. Bulashevich, nauchnyy rukovoditel' - doktor meditsinskikh nauk K.Yu.Turgel')

(CHOLESTEROL)

(MINERAL WATERS, SULFUROUS--PHYSIOLOGICAL EFFECT)

RYZHKOV, V. .

Advantages of the consolidation of automotive transportation units
of construction enterprises. Avt. transp. 37 no.2:32 F '59.

(MIRA 13:1)

(Novosibirsk Province--Transportation, Automotive)

RYZHKOV, V.L.

Effect of some metabolites on somatic mutations in *Erysimum*
cheiranthoides L. Dokl. AN SSSR 152 no.1:205-207 S '63.
(MIRA 16:8)

1. Institut mikrobiologii AN SSSR. Chlen-korrespondent AN SSSR.
(Plants--Metabolism) (*Erysimum*)

RYZHKOV, Vitaliy L.

"The physiology of viruses as a basis for the chemotherapy of
virus diseases" (II)

Report to be submitted for the 2nd Intl. Symposium of Che-
motherapy, Naples Italy 14-17 Sep 1961

RYZHKOV, V. L., Head, Section of Plant Viruses, Institute of
Microbiology, Academy of Sciences USSR, Moscow.

43406

S/051/62/013/005/012/017
E202/E192

24 3510
AUTHORS: Ryzhkov, V.A., and Fedyushin, B.T.

TITLE: Temperature dependence of the electroluminescence of
the ZnS-Cu, Cl single crystals

PERIODICAL: Optika i spektroskopiya, v.15, no.5, 1962, 721-723

TEXT: Using single crystals of ZnS-Cu, Cl obtained by the
gaseous phase Zn + H₂S reaction, the authors studied the relation
between the brightness of the electroluminescence and temperature.
The latter was controlled thermostatically over 110 - 375 °K to
within ± 1 °K. The direction of the exciting electrical field was
coaxial with the axis of the main growth of the crystal. The
average value of electroluminescence at various fixed voltages
ranging from 1 to 3.2 kV, and 300 c.p.s. were plotted against the
above temperature range. The brightness was also plotted against
frequency ranging up to 2 kc/s, for a constant 2.4 kV, as three
isotherms of 292, 215 and 113 °K. Observations regarding the
relations between the phase of the main brightness peak and
temperature and frequency showed that the phase changes only
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Temperature dependence of the ...

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very weakly with temperature but increases with the increasing frequency. These results confirmed the work of A.N. Georgobianin and M.V. Fok (Opt. i spektr., 9, 1960, 775) showing that freeing of the trapped polarisation electrons is due to the field and not due to the thermal mechanism. There are 4 figures.

SUBMITTED: October 9, 1961

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SOV/26-59-3-7/47

17(4)

AUTHOR: Ryzhkov, V.I. Corresponding Member of the USSR
AS; (Moscow)

TITLE: The Study of the Culture of Tissues

PERIODICAL: Priroda, 1959, Nr 3, pp 35 - 43 (USSR)

ABSTRACT: In recent years an important progress has been noted in the cultivation of tissues thanks to the new methods of treating cells for tissue cultures used by Dülbeck in 1952. At present, methods have been developed for the mass cultivation of tissues. The cultivation of tissue has assumed industrial significance. A number of firms are engaged in cultivating and selecting all kinds of tissues for the needs of scientific laboratories and plants making anti-virus vaccine. The author points out that successes have been obtained recently in the cultivation of tissues of plants. It is possible to grow not only roots isolated from plants, but

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The Study of the Culture of Tissues

also small pieces of swollen tissues and of various other vegetable tissues. He then deals with the genetics of tissues, stating that the entire process of embryonic development is one of more and more differentiation and an ever increasing division of work among the various tissues. The specialization of the tissues is connected with the loss of some functions by their cell elements inherent to the non-differentiated embryonic cells. This is especially clearly expressed ^{the fact} in that many cell elements slacken in their capability of multiplication or loose it entirely. The author further deals with the tissues of tumors and the change of the hereditary properties of the cell. The article also treats chromosomes in tissue cultures, their longitudinal division, increase, the number of chromosomes in man, etc. The author reports on the pharmacology of tissue cultures and the culti-

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SOV/26-59-3-7/47

The Study of the Culture of Tissues

vation of viruses in tissues, the cytotoxic effect produced by the virus and the experiments with the help of which the concentration of the virus in a given liquid or tissue can be established (determining the titre of a virus) Speaking of latent viruses, the author states that research in this field is only beginning. The real part they play in the life of man and animal will probably be better known in the next few years. In conclusion the author deals with the problem concerning the extent to which individual cell elements having obtained independence, maintain the capability of uniting. The lower organisms possess this property, but the cells of the higher multicellulars retain it to a very poor extent. There are 4 photographs and 1 Soviet reference.

ASSOCIATION: Institut mikrobiologii Akademii nauk SSSR (Institute of Microbiology of the USSR Academy of Sciences)
Card 3/3

RYZHKOV, V.I.

Cytoplasmic differentiation in the formation of species. Zhur.
ob.biol. 20 no.1:16-22 Ja-F '59. (MIRA 12:2)
(PROTOPLASM) (HEREDITY)

RYZHKOV, V.L.

Studying tissue culture. Priroda 48 no.3:35-43 Mr '59.

(MIRA 12:3)

1. Institut mikrobiologii AN SSSR, Moskva. Chlen-korrespondent AN SSSR.

(TISSUE CULTURE)

RY. ZHUKOV, V. I.

USSR/Virology. Plant Viruses.

E22

Abs Jour: Ref. Zhur.-Biol., No 7, 1957, 28711

Author : Ryzhkov, V.I.

Inst : Not given.

Title : Method of Metabolites and Antimetabolites in the
Study of Virus Reproduction in Tobacco Mosaic
Virus (TMV).

Orig Pub: Metod metabolitov i antimetabolitov v izuchenii razmno-
zheniya virusa mozaichnoy bolezni tabaka (VTM).
Izv. AN SSSR, ser. biol., 1957, No 1, 41-54.

Abstract: A review of experimental data lately obtained by the
author and collaborators, as well as those obtained
by investigators abroad. It was shown that TMV repro-
duction depends on various metabolites. Sucrose, glu-
cose, and a number of organic acids stimulate virus

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2

USSR/Virology. Plant Viruses.

E-2

Abs Jour: Ref. Zhur.-Biol., No 7, 1957, 28711.

and thiourea -- inhibitors of polyphenoloxidase activity -- stimulated TMV reproduction. Also, the stimulating effect of riboflavin was observed. 5-6-dimethylbenzimidazole, acrichin [sic! - acridin?], rivanol inhibited TMV reproduction. This effect was removed by riboflavin. The latter experiments show the significance of respiratory systems, dependent on flavones, for TMV reproduction. In experiments with Be it was shown that the activity of phosphatase is necessary for TMV reproduction. Acridin preparations proved to be universal inhibitors of virus reproduction. In the author's opinion, a study of physiological conditions of virus reproduction should in the future open prospects of TMV cultivation on synthetic nutrient media. Bibl. 50 refs.

Card : 3/3

3

RYZHKOVA

AUTHOR: Ginzburg, Z.L., Engineer, 128-58-4-15/18

TITLE: Scientific-Technical Session on Progressive Technology of Casting Molds (Nauchno-tekhnicheskaya sessiya po progressivnoy tekhnologii liteynoy formy)

PERIODICAL: Liteynoye Proizvodstvo, 1958, No. 4, pp 28-30 (USSR)

ABSTRACT: A conference on the technology of casting molds - organized by the NTOMASHPROM of the Khar'kov Oblast' - convened in Khar'kov on 14-16 November 1957. More than 200 delegates from plants, research institutes, vuzes and other organizations of the Khar'kov and other regions participated. Problems of earth-mold casting were discussed. A total of 24 reports were delivered on hardening and exothermic mixes and the mechanized processes in USSR and abroad. B.A. Noskov and V.I. Ryzhkov (KhPI) gave information on molding sand and clay available in the Khar'kov economic region. The following reports were also heard: V.V.Ryabova - on the use of carbon dioxide, at NKMZ, for chemical strengthening of molds, which has reduced the drying period and cut the consumption of generator gas, improved the quality of castings, and nearly

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Scientific-Technical Session on Progressive Technology of Casting Molds

doubled the production of molds; N.Kh. Ivanov - on the use of the same quick-hardening mixes, with cold carbon dioxide, at the Slavyanskiy mashinostroitel'nyy zavod (Slavyansk Machinebuilding Plant); Engineer D.A. Lur'ye (Giprostanok) - on modern methods and an installation for production of carbon dioxide; Engineer Ye.P. Tolmachev of the Voroshilovgradskiy teplovozo-stroitel'nyy zavod (Voroshilovgrad Diesel-Locomotive Plant) - on experience with molding sand milled in a special vibration mill, which solves the problem of obtaining castings with a clean surface not only with shell molds, but also with conventional molding methods; A.Ya. Izmalkov - on the oil-less binder "P" used at the plant "Serp i Molot"; A.I. Veynik - on the theory of forced cooling of castings and the experience in this method at the Novo-Kramatorskiy i Minskiy stanko-stroitel'nyy zavodov (Novo-Kramatorsk and Minsk Machine Tool Plants) which developed this method in the production of large castings; I.V. Ryzhov - on the physico-chemical nature of sand crust (on castings) and the ways of eliminating this crust by producing a de-oxidizing atmosphere between the mold and the metal, casting in vacuum, or crystallization-preventive additions to water glass; P.G. Novikov (of TsNIITMASH) - on

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Scientific-Technical Session on Progressive Technology of Casting Molds

results of the collective work of TsNIITMASH and NKMZ on technological problems of the production of large molds, and the new method of forced or controlled cooling of castings in the ground, as well as on the experiments with a system of universally applicable cast parts; B.K. Dymshin of the Khar'kovskiy turbinnyy zavod (Khar'kov Turbine Plant) and Engineer I.Ye. Gabey (NKMZ) - on exothermic mixes for heating the feeding heads of steel and cast iron castings; M.L. Turovskiy - on investigation of internal stresses at the Khar'kovskiy zavod transportnogo mashinostroyeniya (Khar'kov Plant of Transport Machines); V.S. Ladnov - on mechanized casting into shell molds by shot-strewing the mold boxes, being introduced at the same transport machine plant; K.I. Kostinenko - on the organization of boxless molding at the plant Rostsel'mash; N.A. Gerasimov of the Kremenchugskiy zavod dorozhnykh mashin (Kremenchug Road Machine Plant) - on casting parts in molds produced under pressure up to 100 kg/cm², without mold boxes, which nearly completely eliminates the necessity of machining the castings and greatly reduces the consumption of foundry materials and metal; A.M. Petrichenko of the Khar'kovskiy

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avtodorozhnyy institut (Khar'kov Auto-Road Institute) - on the experience of the Chinese Democratic Republic with semi-permanent molds for thin-wall castings; Ye.A. Sukhodol'skaya of the Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnical Institute) - on some peculiarities of foundry technology in China; V.D. Bezuglov of the Khar'kovskiy zavod zubovrachebnykh materialov (Khar'kov Plant of Dentistry Materials) - on self-hardening plastics "AST" which is readily machineable, well suited for decorative correction of surface faults on metal castings, and also for making light core boxes, press-molds for wax patterns, etc. The conference recommended that the Khar'kov Sovnarkhoz organize the exploitation of molding sands and clays in the region and a centralized production of carbon dioxide. The conference pointed out the necessity of extensive use of quick-drying mold mixes, forced cooling of castings, exothermic mixes for heating the feeding heads, and the necessity to introduce the shell-mold and the chill-casting methods. The method of making molds

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Scientific-Technical Session on Progressive Technology of Casting Molds

under high pressure was recommended for use. The importance of the Khar'kov Dentistry Materials Plant and KhtZ work with self-hardening plastics for foundry use was emphasized.

AVAILABLE: Library of Congress

Card 5/5 1. Castings-Scientific reports

RYZHKOV, V.A.; FEDYUSHIN, B.T.

Temperature dependence of the electroluminescence of ZnS-Cu,
Cl single crystals. Opt.1 spektr. 13 no.5:721-723 N '62.
(MIRA 15:12)

(Luminescent substances)

RYZHKOV, V.I.; LOYDINA, G.I.

Interaction of the nucleic acid of the virus of tobacco mosaic disease with plastids and cell walls of plants. Vop. virus. 7
no. 1:108-110 Ja-F '61. (MIRA 14:4)

1. Institut mikrobiologii AN SSSR, Moskva.
(NUCLEIC ACID) (VIRUSES DISEASES OF PLANTS)

RYZHKOV, V. L.

Ryzhkov, V. L. Mutations and Diseases of the Chloroplast, State Publishing House
of Sovkhoz and Kolkhoz Literature, Moscow, 1933, 192 pp. 464 R99

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHKOV, V. L.

KARACHEVSKIY, I. K. [Co-author] See: RYZHKOV, V. L. "Experiments on the Artificial
Transmission of Virus Diseases of Tomato," 1934.

SO: SIRA, SI 90-33, 15 December 1953

RYZHKOVA, V. L.

Ryzhkov, V. L., Ed. Virus Diseases of Plants in Crimea and in the Ukraine, State
Publishing House of Crimea ASSR, Simferpol, 1934, 124 pp. 464.32 R99V

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHKOVA, V. L.

Ryzhkov, V. L., and Karachevskiy, I. K. "Experiments on the Artificial Transmission of Virus Diseases of Tomato," in Virus Diseases of Plants in Crimea and in the Ukraine, State Publishing House of Crimea ASSR, Simferopol, 1934, pp. 7-30. 464.32 R99V

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHKOV, V. L.

Ryzhkov, V. L. "Filtrable Viruses as a Cause of Virescence of Flowers," in Virus Diseases of Plants in Crimea and in the Ukraine, State Publishing House of Crimea ASSR, Simferopol, 1934, pp. 59-73. 464.32 R99V

So: SIRA - 90-53, 15 Dec., 1953

RYZHKOVA, V. L.

Ryzhkov, V. L., and Mikhailova, P. V. "On the Nature of Pseudocommunis sp.," in Virus Diseases of Plants in Crimea and in the Ukraine, State Publishing House of Crimea and Simferopol, 1934, pp. 114-121. 464.32 R99V

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHKOVA, V. L.

Ryzhkov, V. L. Virus Diseases of Plants, General and Special Virology, State Publishing House of Sovkhoz and Kolkhoz Literature, Moscow, 1935, 245 pp. 464.32 R99

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHKOV, V. L.

Ryzhkov, V. L. "Virus Diseases of Plants," in Abstracts of Reports of the All Union Conference on the Study of Ultra-microbes and Filtrable Viruses (14-18 December 1935), Publishing House of the Academy of Science USSR, Moscow, 1935, pp. 5-7. 448.39 AKI

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHNIKOV, V. L.

Ryzhkov, V. L. "Ultra-viruses and Species Formation," in Abstracts of Reports of the All Union Conference on the Study of Ultramicrobes and Filtrable Viruses (14-18 December 1935), Publishing House of the Academy of Science USSR, Moscow, 1935, p. 40, 448.39 AKI

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHKOVA, V. L.

Ryzhkov, V. L. "Virus Diseases of Plants and Their Control," Zashchita Rastenii,
no. 1, 1935, pp. 88-96. 421 P942

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHKOV, V. L.

Ryzhkov, V. L. "Virus Diseases of Plants and Nature of Filtrable Viruses," Trudy
Vsesoiuznoi Akademii Sel'gkokhoziaistvennykh Nauk imeni V. I. Lenina, no. 5, 1936,
pp. 11-12. 464.32 V96

So: SIRA SI - 90-53, 15 Dec., 1953

RYZHKOV, V. L.

Ryzhkov, V. L., and Mikhailova, P. V. "Virus Diseases of Solanaceae," Trudy Vsesoiuznoi Akademii Sel'skokhoziaistvennykh Nauk imeni V. I. Lenina, no. 5, 1936, pp. 112-118. 464.32 V96

So: SIRA SI - 90-53, 15 Dec., 1953

"Tasks and Organization of Scientific-Research Works in Virus Diseases of
Plants in U. S. S. R.," Trudy Vsesoiuznoi Akademii Sel'skoKhoziaistvennykh
Nauk imeni V.I. Lenina, no.6, 1936, pp. 119-122. 464.32 V96

So: SIRA- S1-90-53, 15 Dec 1953

AM

Рыжков [Рыжков] (V. L.). Иммунитет растений к болезням, вызываемым фильтрующимся вирусом. [Immunity of plants from diseases caused by filterable viruses.]—*Bull. appl. Bot. Select.*, 1937, Ser. II, 11, pp. 81-105, 1937. [English summary.]

In this survey the author gives a list of the more important and best studied plant viruses with the reactions of 24 host plants to them, and then briefly reviews the work done in the investigation of inter- and intraspecific immunity of various plants from the viruses, the resistance of individual plants within species or varieties, and acquired immunity. A bibliography of 70 titles is appended.

COMMON ELEMENTS

COMMON VARIANTS MODE

OPEN MATERIALS NOTE

AS 0-51A METALLURGICAL LITERATURE CLASSIFICATION

RECORD NUMBER

GROUPS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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RYZHKOV, V. L. "Mendelizing and Non-Mendelizing Leaf Variegation in Petunia Hybrids,"
in Symposium Dedicated to the Memory of Academician V. N. Liubimenko, Publishing
House of the Academy of Science Ukrainian SSR, Kiev, 1938, pp. 349-368. 452.4 K54

SO: SIRA - SI. 90-53, 15 Dec. 1953

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Ryzhkov, V. L. "Recent Studies on the Purification of Filtrable Viruses," Mikrobiologiya,
vol. 6, no. 6, 1937, pp. 830-840. 448.3 M582

So: SIRA - 90-53, 15 Dec., 1953

RYZHKOV, V. I.

PROCESSES AND PROPERTIES INDEX

Am



RYZHKOV [RYJKOV] (V. L.) & VOVK (A. M.). A new disease of the Onion (*Allium cepa*).—*C. R. Acad. Sci. U.R.S.S.*, xvi, 1, pp. 69-72, 2 figs., 1937.

An account is given of a disease of the onion which was first observed in 1936 attacking large numbers of the plants grown at the Agricultural Experimental Station of Alexeyevka, near Kharkoff. Besides a severe stunting of the bulbs (from an average of 5.06 cm. to one of 3.35 cm. in the Zittau onion), the disease is characterized by a mosaic-like mottling on the leaves, ranging from minute, more or less elongated specks to more or less wide light green or cream-coloured bands, and various malformations of the floral organs, resulting in the production of a very considerably reduced yield in seed (from an average of 5.54 gm. to 0.96 gm. in the authors' tests) the viability of which is also very much diminished (from 76.3 to 46.8 per cent.). Seedlings grown from seeds collected from diseased plants were much weaker than seedlings from healthy onion seeds, and developed a less powerful root system. The diseased bulbs did not reach maturity, and instead of being normally spheroidal they retained an elongated shape; the greater part of those that were stored germinated during the autumn, and failed to survive until the next planting season. Histologically the disease re-

AS 6-5 LA METALLURGICAL LITERATURE CLASSIFICATION

U.S.S.R. SOVIET

Chemical Elements

Chemical Elements

Chemical Elements

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sulted in the loss of differentiation of the mesophyll, the palisade cells being indistinguishable from the cells of the deeper layers, hypoplasia of the stomata, and not infrequent formation of four instead of two guard cells, due to additional divisions. In heavily affected cells, intracellular inclusions were found, consisting of homogeneous bodies, of which one or two, seldom more, were observed lying close to the nucleus. The disease was easily transmitted by rubbing the leaves of healthy plants with emery paper wetted with the juice of diseased plants, the incubation period lasting from 10 to 14 days. The disease is stated to differ from yellow dwarf (*R.A.M.*, xvi, p. 724) in that it does not attack the flowers, and is attributed to an undescribed virus.

PROCESSES AND PROPERTIES INDEX

Some facts about the method of the accumulation of the virus of tobacco mosaic in the plants. V. L. Ryzhkov and V. P. Gromyko. *Microbiology (U. S. S. R.)* 7, No. 7, 41; 1970 (Sov. Biol. Akim. Referat. Zhur. 1970, No. 7, 41; 1970 SS. BUIS); *Akim. Referat. Zhur.* 1970, No. 7, 41; 1970 SS. BUIS; 33, 1203, 8090. The amt. of proteins in the healthy plants and in those affected with the virus diseases was investigated. Heating a tobacco cyst in a phosphate buffer soln. (0.1 mol. of Na₂HPO₄ to 70° caused the formation of a coagulum of the "healthy" proteins leaving the virus proteins in the filtrate. The amt. of proteins in plants varies greatly, but in most cases of the mosaic disease it is increased, especially the amt. of those proteins which are not coagulated at 70°. The proteins which are coagulated at 70° are evidently reserve proteins and no decrease of their content was observed in cases of the mosaic disease. An infiltration of halves of the diseased and of the infected leaves of tobacco was performed with the hydrolyzate of egg albumin and with water, resp. The virus titer was detd. from the no. of necroses. In all expts. an increase of the virus content during the introduction of the hydrolyzate was observed. R. and G. consider that the virus is formed with the help of the synthesizing action of protease at the expense of the more simple proteins than the proteins of the protoplasm. Considering the established fact of the virus increase from the action of the hydrolyzate R. and G. insist that this was the 1st case which detd. the dependence of the virus titer from feeding. W. R. Henn

ASD 54 METALLURGICAL LITERATURE CLASSIFICATION

ALUMI BOWING

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"Recent Research on Cytoplasmic Heredity in Plants," Usp. sovr. biol., 8, 390-403, 1938

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So: SIRA - SI. 90-53, 15 Dec. 1953

RYZHKOVA, V. L.

RYZHKOVA, V. L., and SUKHOV, K. S. "Virus of Tobacco Mosaic Tested for Its Power of Fermentative Activity," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 21, no. 5, 1938, pp. 265-268. 511 P444.

SO: SIRA - SI. 90-53, 15 Dec. 1953

Accumulation of virus of tobacco mosaic in plants when nitrogen is withheld from them. V. L. Ryzhkov and V. A. Samirnova. *Compt. rend. acad. sci. U. R. S. S. 23, 95-7* (1939) (in English).—Growth expts. disclosed that the absence of N from tomatoes attacked by tobacco mosaic does not lower the titer of the virus in the juice of starving plants but renders the attack more virulent. The virus

of tobacco mosaic is shown to be a parasitic protein. 1
A. H. Krappé

ASAC 334 METALLURGICAL LITERATURE CLASSIFICATION

Year	Month	Day	Volume	Page	Author	Title	Journal	Country	Language	Notes
1939					V. L. Ryzhkov and V. A. Samirnova	Accumulation of virus of tobacco mosaic in plants when nitrogen is withheld from them	Compt. rend. acad. sci. U. R. S. S.	U. S. S. R.	English	

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Biochemical changes in oats affected with the virus disease "sakuklivanie." V. L. Ryshkov, M. N. Vorob'eva and E. P. Gromko. (*Zh. prikl. i teoret. bot.*, U. R. S. S. R., 24, 301-3 (1959) (in English).—Tests disclosed that (1) oat leaves show no important N-content change; the dwarfs increase somewhat in total N and decrease in protein N; (2) the content of reducing and nonreducing sugars and starch is increased by the disease; (3) the ratio carbohydrates:N favors the classification of the disease with the yellows, though there also are some typical symptoms of mosaic; (4) the P metabolism is greatly affected by the disease; the leaves of sick plants decrease in lipid P and increase in P combined in com pds. sol. in 0.05-N HCl; (5) the decrease in lipid P appears to be related to the reduction and disintegration of plastids. 5 references.

A. H. Krapp

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PROCESSES AND PROPERTIES INDEX

11D

CA

The tobacco mosaic virus content of tomato plastids.
V. L. Ryzhkov and V. A. Smirnova. *Microbiology*
(U.S.S.R.) 9, 178-80 (in English, 181) (1940); cf. C. A.
33, 1450. — The chloroplasts were isolated by the method
of Gramick (cf. C. A. 33, 1008) from leaves of diseased
plants. The plastids do not absorb the virus at pH 4.6
and at 7.0. A contact of the virus with young plastids
is necessary for formation of the mosaic. T. Laanes

AS, *micro. det.*, Moscow, -1940-

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

GROUPS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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RYZHKOY,

"New Developments on Cytoplasmic Heredity in Plants," Usp. sovr. biol., 13, 371-373,
1940

RYZHKOV, V. L.

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SO: SIRA - SI. 90-53, 15 Dec. 1953

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SO: SIRA-SI. 90-53, 15 Dec. 1953.

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SO: SIRA - SI. 90-53, 15 Dec. 1953

"Paracrystalline Structure of the Tobacco Mosaic Virus and Its Place in General Biology"
(p. 211) by Rizhkov, V. L. and Smirnova, V. A.

SO: Journal of General Biology (Zhurnal Obshechey Biology) Vol. III, No. 3, 1942.

RYZHIKOV

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001446520016-2
APPROVED FOR RELEASE: Thursday, September 26, 2002

"Problem of the Evolution of Ultraviruses," Mikrobiologiya, 11, 4, 1949-159, 1942

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SO: SIRA - SI. 90-53. 15 Dec. 1953

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RYZHNIKOV, V. L. and VOVK, A. M. "Biological Activity of Acyl Derivatives of the
Virus of Tobacco Mosaic," Comptes Rendus (Doklady) de l'Academie des Sciences de
l'URSS, vol. 38, no. 7, 1943, pp. 221-222, 511 P444

SO: SIRA - SI. 90-53, 15 Dec. 1953

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RYZHKOVA, V. L. "Kok-saghyz Yellow," Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, vol. 41, no. 2, 1953, pp. 90-92. 511 P444.

SO: SIRA - SI. 90-53. 15 Dec. 1953

RYZHKOV, V. L.

RYZHKOV, V. L. Fundamental Study of Virus Diseases of Plants, Publishing House of the Academy of Science USSR, Moscow, 1944, 224 pp. 464.32 R990

SO: SIRA - SI. 90-53. 15 Dec. 1953

CA

110

Influence of substances affecting enzymic action on the necrotic reaction produced by Nicotiana virus 1. V. I. Ryabkov and K. S. Sukhov. *Biotekhnika* 9, 151 (1944).

-NaF and CH_3CO_2H inhibit certain enzymic reactions but are without effect in arresting the accumulation of tobacco mosaic virus. It follows that these enzymic reactions do not participate in the synthesis of the virus molecule. Substances which do inhibit the accumulation of the mosaic virus are cysteine, ascorbic acid and vitamin B₁.

H. Priestley

Instit. of Microbiology, A.S. USSR,
Moscow. - 1944.

AS 4-51A METALLURGICAL LISTING OFF CLASSIFICATION

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RYZHKOV, V. I.

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SO: SIRA - SI. 90-53. Dec. 15, 1953

"The Experiments on Chemotherapy of Jaundice in Bombyx Mori," Mikrobiol., 14, No. 5,
1945. Inst. Micr., Acad. Sci., Moscow, -1945-.

RYZHKOV, V. L. "About the Visible Forms of Filtrable Viruses," Priroda, vol. 34, no. 5, 1945, pp. 70-74. 410 P933.

SO: SIRA - SI. 90-53. 15 Dec 1953.

CA

11D

A defensive reaction of the plant cell. V. I. Ryzhkov (Moscow Med. Inst.). *Doklady Akad. Nauk S.S.S.R.* 47, 540-2; *Compt. rend. acad. sci. U.R.S.S.* 47, 520-2 (1945) (in English).—Tomato seeds were germinated on filter paper soaked in 0.5-1.0% soln. of a red sol. streptocide. (N-(p-sulfamylphenylazo)acetamido-S-hydroxy-3,3'-naphthalenedisulfonate) and under these conditions the developing roots assumed a deep red color. When these seedlings were transferred to H₂O or soil, the red coloration remained for months but newly formed roots were free of the stain. The streptocide was found to accumulate in the cells in an insol. state, forming within their protoplasm accumulations of red crystals. The ability of cells to accumulate and retain such crystals is a function of live cells, for mechanical injury or killing of the cells allowed the crystals to dissolve immediately. The hypothesis is advanced that the formation of the streptocide crystals and virus crystals both represent a defensive mechanism by cells, whereby foreign substances are accumulated in a mass within the protoplasm thus blocking further action by these substances. The streptocide was not always present in cryst. form for numerous cells were found which contained corpuscular bodies stained red by the dye.
J. E. Webster

ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION

6-27

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1ST AND 2ND ORDERS
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1ST AND 2ND ORDERS
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RYZHKOV, V. L. Phytopathogenic Viruses, Publishing House of the Academy of Science
USSR, Moscow, 1946, 226 pp. 464.32 R99F

SO: SIRA - SI. 90-53. 15 Dec. 1953

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001446520016-2
CIA-RDP86-00513R001446520016-2"

RYZHKOV, V. L.

RYZHKOV, V. L., and MIKHAILOVA, P. V. "On the Etiology of the Leaf Roll in Tomatoes,"
Izvestia Akademii Nauk SSSR, Seria Biologicheskaja, no. 5, 1946, pp. 487-489.

511 Sa2B

SO: SIRA - SI. 90-53. 15 Dec. 1953

RYZHKOVA, V. L., Prof.

pa 36T38

USSR/Medicine - Antibiotics
Medicine - Viruses

Aug 1946

"Antibiotics and Viruses," Prof V. L. Ryzhkov, 2 pp

"Priroda" No 8

Chemotherapy for the treatment of certain bacterial diseases has become very popular in recent years. The success met in the treatment of bacterial diseases with antibiotics led to an attempt to use antibiotics for the treatment of virus diseases. Author conducted some experiments along this line with mosaic disease of the tobacco plant.

ID

36T38

CA

110

PROCESSES AND PROPERTIES (INDEX)
The mechanism of the inhibition of the self-reproduction of tobacco mosaic virus by thiamine. V. L. Ryzhkov, V. A. Smirnova, and O. S. Gorodskaya (Acad. Sci., Moscow). *Biokhimiya* 11, 197-202(1946); cf. C.A. 30, 1969. — In addn. to thiamine, the following substances inhibit the necrotic reaction by the tobacco mosaic virus in the leaves of *Nicotiana glutinosa*: aniline, hydroxylamine, phenylhydrazine, ethanol, and dinitrophenol. The sulfadiazine, civanol, and other substances, fail to inhibit the necrotic reaction. The synthesis of the virus protein is not related to the enzymic oxidative systems. Pyrophosphates and NaOH, which are inhibitors for enzymes, heavy metals, do not inhibit the synthesis of the virus protein. The inhibitors do not affect plant respiration, nor do they cause changes in the amts. of carbohydrates and protein X in the tobacco leaves. The inhibitor probably combines with a certain substrate in the cell, with which substrate the virus is also capable of combining. The hypothetical substrate apparently contains an aldehyde group which combines with the amino group found in most inhibitors. In favor of this view is the fact that ethanol, an amine, is a poor inhibitor in the presence of acetone or urea. H. Priestley

Inst. of Microbiology, AS, -1946-

ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION		FROM ROMINA	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200	1	2

KREINKE, A. N., and RIZHKOV, V. L. "Unstable Hereditary Factors of *Nicotiana affinis* (Variegated Leaves)," in Reports of the Scientific-Research Work for 1945, Department of Biological Science, Publishing House of the Academy of Science USSR, Moscow, 1947, pp. 41. 511 Ak144

SO: SIRA, SI 90-53, 15 December 1953

FROM:

"The Nature of Viruses," in the book: Virusnye bolezni (Virus Diseases), Moscow, 1947

RYZHNIKOV, V. L.

RYZHNIKOV, V. L., and SMIRNOVA, V. A. "Inter-relationship of Virus of Tobacco Mosaic with Individual Elements of Plant Tissues," in Reports of the Scientific-Research Work for 1945, Department of Biological Science, Publishing House of the Academy of Science USSR, Moscow, 1947, pp. 151. 511 Ak144

SO: SIRA - SI. 90-53. 15 Dec. 1953

RYZHKOV, V. L.

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SO: SIRA SI-90-53, 15 Dec. 1953.

RYZHKOV, V. I.

"Methods of Chemotherapy of Virus Infections," in the book: Virusnyye
bolezni (Virus Diseases), 8-9, Moscow, 1947

"The Research Into the Nature of Viruses in the USSR," ZhMEI (Journal of Microbiology, Epidemiology and Immunobiology), II, 31, 1947

USSR/Medicine - Viruses May/Jan 1947
Medicine - Bacteria, Filterable Forms

"The Problem of a Natural System of Viruses," V. L. Ryzhkov, 10 pp

"Zhur Obshchey Biologii" Vol VIII, No 3

The present classification of viruses is perfectly chaotic, no distinction being made between forms created experimentally by way of a single mutation, and forms diverging considerably owing to evolution. A task of the near future is to determine the correct hierarchy of related virus groups. The study of the various criteria which might be applied to establish the distinctive features of different species of viruses shows that the ecologic geographic characters of a species are of particular importance. IC 29T65

CT

110

Influence of oxygen excess or deficiency on necrotic effects in *Nicotiana glutinosa* and on accumulation of virus protein in tobacco mosaic disease. V. L. Ryzhkov and V. A. Smirnova. *Mikrobiologiya* 10, 248-51(1971).
Influence of atm. O₂ concn. on necrosis of virus-infected tobacco (*N. glutinosa*) leaves was studied in pure O₂ and in air:O₂ ratios from 15:1 to 1:15; the spread of necrosis was not checked. On isolated halves of *N. tabacum* leaves a 50% drop in O₂ concn. retarded self-propagation of the virus and lessened the virus titer. These results do not confirm the Woods-Du Bry hypothesis (C.A. 36, 4855') concerning cyanide sensitivity of virus-infected tobacco leaves. The virus protein can accumulate independently of the plant's respiratory system; self-propagation is retarded but not stopped by O₂ deficiency.
Julian F. Smith

Inst. Microbiol., AS USSR

ASU-11A METALLURGICAL LITERATURE CLASSIFICATION

151 AND OTHER ALPHABETIC INDEX
151 AND OTHER ALPHABETIC INDEX

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151 AND OTHER ALPHABETIC INDEX

RYZHKOV, V. [t.]

RYZHKOV, V. L. "Thirty Years of Studying Virus Diseases of Plants in the U.S.S.R.,"
Mikrobiologiya, vol. 16, no. 5, 1947, pp-- 448.3 M582 (Translation 6292,7 pp.)

SO: SIRA-SI-90-53, 15 Dec. 1953.

CA

112

Suppression of bacterial viruses (bacteriophage) by certain substances. V. L. Ryzhkov and A. I. Semich (All-Union Inst. Biol. Prophylaxis, Moscow). *Bull. Eksp. Biol. Med.* 24, 264-6 (1947).—With the Fitzgerald-Habbitt technique, it was shown that the phage of *E. coli* is repressed by 0.5 mg. % solns. of rivanol and trypanflavine, and 4 mg. % solns. of acriflavine. Malachite green was as effective as rivanol. They showed little effect on multiplication of the bacteria. Iodoacetic acid repressed phage multiplication only at concns. which also repressed bacterial reproduction. Other phages (*B. typhi abdominalis* and *Vibrio cholerae asiaticae*) are repressed by 1:100-1:1,000 solns. of rivanol, while the phage of *B. typhosus* is repressed only if used in concn. of 1:1,000,000 in the culture. *p*-Aminophenol (0.1%), thiamine (1%), dinitrophenol (4 mg. %), and rivanol (0.5 mg. %) repressed phage multiplication of *B. coli* in quant. expts. according to Spizizen's technique; NaF (0.0168%) gave only mild repression. G. M. Kosolapoff

COMMON ELEMENTS

COMMON VARIABLES INDEX

ASPHALA METALLURGICAL LITERATURE CLASSIFICATION

INDEX LETTERS

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

Oct 1947

"Some Chemical Preparations for Detoxifying Bacteria (Bacteriophage)", V. L. Ryzhkov, A. I. Semich, 2 pp

"Zhurnal' Eksperimental'noy Biologii i Meditsiny" Vol XIV, No 4

Results were obtained for various substances, among them: 0.1% para-aminophenol, 1% thiamin, 4 mg % dinitrophenol, 0.016% sodium fluoride, and 0.5% rivanol. Refers to work done by Fitzgerald and Babbit. It was discovered that these preparations were ineffective against *B dysenteriae*, *B coli*, and *B typhi abdominalis* unless their concentrations were

24T61

USER/Medicine - Bacteriophage (Contd)

Oct 1947

strong enough to detoxicate these bacilli. Submitted 26 May 1947 at the All-Union Research and Investigation Institute of Biological Prophylaxis and Infection, Moscow.

24T61

RYZHKOVA, V. L.

PA 21T85

USSR/Medicine - Viruses
Medicine - Tobacco

Jan 1947

"Effect of Electrolytes and Anaerobic Conditions on
Some Necrotic Reaction of Nicotiana Glutinosa," V. L.
Ryzhkov, V. A. Smirnova, 4 pp
Inst. Microbiol, AS USSR

"Dok Ak Nauk SSSR" Vol IV, No 3

Nicotiana glutinosa leaves immersed in 0.1 M KNO_3 ,
 $Mg(NO_3)_2$ and a .01 percent solution of $ZnSO_4$ display
lowering of sensitivity to the tobacco mosaic virus.
Published 29 Jul 46 at the Institute of Microbiology,
Academy of Sciences of the USSR.

21T85

also W-303 5/3/48

RYZHKOVA

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FA 2/49T64

USSR/Medicine - Plants, Diseases
Medicine - Tobacco

May/June 48

"Effect of Ions of Magnesium and Acridine Prepara-
tions on the Storage of Virus Albumin of Mosaic
Diseases of Tobacco," V. I. Ryzhkov, V. A.
Smirnova, Inst of Microbiol, Acad Sci USSR, Moscow,
4 pp

"Microbiol" Vol XVII, No 3

Magnesium sulfate solutions inhibit autogenesis
of virus albumin in mosaic diseases, if inoculated
surface of leaf is immersed in solution. Immersion
of tomato cotyledon inoculated with virus in 0.1 M
solution of magnesium sulfate or 0.01% solution

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USSR/Medicine - Plants, Diseases
(Contd)

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of ethanol prevents mosaic diseases. Necrotic
action of mosaic virus on Nicotiana glauca is
inhibited by 0.001% tryptoflavin; 0.05% trypto-
flavin infiltration of tobacco leaves consider-
ably reduces virus reproduction. Albumin precipi-
tate, however, again becomes infectious if freed
from the preparation and redissolved.

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