

TT-63-24170

Uglovoy, G. F., Savel'eva, R. A., and  
Shiptsina, G. K.  
THE POSSIBILITY OF USING THE ANTIGEN OF THE  
PASTEURILLA TULARENSIS VACCINAL STRAIN  
(TUALLERGEN-2) FOR RAPID TULAREMIA  
DIAGNOSIS IN MAN (O Vozmozhnosti Primeneniya  
Antigena Vaktsinnoy Shlammya Tulyaremiynogo  
Mikroba (Tuallergen-2) dlya Bystrykh Diagnostiki  
Tulyaremiy u Lyudey). 24 Oct 63, 7p Sreft  
Trans. V-1864.  
Order from OTS, SLA, or ETC \$1.10 TT-63-24170

Trans. of Zhurnal Mikrobiologii, Epidemiologii i  
Immunologii (USSR) 1962 [v. 33] no. 12, p. 102-107.  
(Abstract available)

DESCRIPTORS: \*Antigens and antibodies, Vaccines,  
\*Tularemia vaccine, \*Pasteurella, \*Diagnostic agents,  
Diagnosis.

(Biological Sciences--Pathology, TT, v. 11, no. 6)(over)

I. Uglovoy, G. F.  
II. Savel'eva, R. A.  
III. Shiptsina, G. K.  
IV. Trans-V-1864

Office of Technical Services

THE USE OF LUMINESCENT SERUM FOR THE RAPID  
DIAGNOSIS OF DYSENTERY, BY I. S. ZINOV'YEVA,  
M. K. SHPAGINA, 5 PP

RUSSIAN, PER, ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII I  
IMMUNOLOGII, VOL XXXIII, NO L2, 1962, PP 112-114.

JPRS 19720

SCI -- BIOL & MED  
JUN 63

234,627

Materials for the Classification of Pathogenic  
Leptospira in the USSR, by V. V. Anin'in, et al, 11 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i  
Immunobiol, Vol ~~XX~~<sup>a</sup>, No 1, 1963, pp 28-32. 9209761

USDA Tr V-1832

OTS 62-25/20

Sci - Biol & Med Sci  
Jul 63

236,256

Determination of Staphylococcus Toxicogenicity by  
Precipitation in Agar, by V. A. Krushcheva,  
P. M. Teitel'baum, 6 pp.

RUSSIAN, per, Zhur Mikrobiol Epidemiol Immunobiol,  
Vol. 46, 1963, pp 43-46.

CIA/FDD XX-1458  
No Foreign Dissem

Sci - Biol & Med Sci  
Oct 63  
USID Internal Use Only

241, 302

THE DETECTION OF ANTIBODIES AGAINST RICKETTSIA  
PROWAZEKI BY THE LUMINESCENT-SEROLOGICAL METHOD,  
BY M. BALAYEVA, M. YA. KORN, ET AL, 8 PP.

RUSSIAN, PER, ZHUR MIKROBIOL, EPIDEMOL I IMMUNOL,  
VOL XXXIV, NO 1, 1963, PP 52-57.

JPRS 19738

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JUN 63

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Improvement of the Culture Medium and Search for  
a Method of Purifying the Protective Anthrax  
Antigen, by N. I. Aleksandrov, N. E. Gefen, 10 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i  
Immunobiol, Vol. 48, No 1, 1963, pp 103-107.  
9211380

USDA Tr V-1833  
OTS 63-23/22

Sci - Biol & Med Sci  
Aug 63

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Experimental Study of Associated Anaerobic Toxoids.  
Communication IV. A Study of Immunological Effect-  
iveness of Octa-Toxoids in Remote Revaccination,  
by G. V. Vygodchikov, A. A. Vorob'yev, et al, 1963

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Vol XL, No 1, 1963, pp 127-132. 9211321

USDA Tr V-1834  
OTS, SLA, etc TT-63-2721

Sci - Biol & Med Sci  
Aug 63

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TT-63-23090

Kravchenko, A. T., Yakovlev, A. I. and others.  
A CHANGE OF THE PROPERTIES OF THE Q-FEVER  
CAUSATIVE AGENT. I. BIOLOGICAL PROPERTIES  
OF VARIANTS D AND B-D-1 OF THE GRIT STRAIN  
OF RICKETTSIA BURNETII, tr. by Charles T.  
Ostertag. Feb 63 [4]; ABL Trans. no. 747; AD-404 792  
Order from OTS, SLA, or ETC \$1.10 TT-63-23090

Trans. of Zhurnal Mikrobiologii, Epidemiologii i  
Immunobiologii (USSR) 1963, no. 1, p. 152.

DESCRIPTORS: \*Rickettsia, \*Q fever, Infections,  
Radiation effects, Laboratory animals, \*Coxiella,

(Biological Sciences--Pathology, TT, v. 11, no. 1)

I. Kravchenko, A. T.  
II. Yakovlev, A. I.  
III. Title: Biological...  
IV. ABL Trans-747  
V. AD-404 792  
VI. Army Biological Lab.,  
Frederick, Md.

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Aleksandrov, N. A., Gefen, N. E., and Gapochko, G. K.

AEROSOL IMMUNIZATION BY DRY POWDER VACCINES AND ANATOXINS. XI. A STUDY OF THE EFFICACY OF AEROSOL REVACCINATION WITH POWDERED BRUCELLOSIS VACCINE. [1963] [15p] FASEB manuscript no. S 312-3.

Order from OTS, SLA, or ETC \$1.60 TT-64-13522

Trans. of Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii (USSR) 1963, v. 40, no. 2, p. 42-48.

DESCRIPTORS: \*Inhalation Immunization, Vaccines, \*Brucellosis vaccine, Powders, \*Antigen-antibody reactions, Veterinary medicine

(Agriculture--Animal Husbandry, TT, v. 11, no. 8)

TT-64-13522

- I. Aleksandrov, N. A.
- II. Gefen, N. E.
- III. Gapochko, G. K.
- IV. Title: Study...
- V. FASEB-S-312-3
- VI. Federation of American Societies for Experimental Biology, Washington, D. C.

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Zibitaker, D. E.  
CYTOTOXIC EFFECT OF DIPHTHERIA TOXIN AND  
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TISSUE CULTURES. [1968] [12p] 2 refs FASEB  
manuscript no. 5 815-3.  
Order from OTS, SLA, or ETC \$1.60 TT-64-13427

Trans. of "Zeitschrift für Mikrobiologie, Epidemiologie  
Immunbiologie (JGSK) 1968, v. 40, no. 2, p. 87-88.

DESCRIPTORS: \*Toxins and antitoxins, \*Diphtheria  
toxin, \*Tissue culture, \*Antigen-antibody reactions,  
Cells (Biology), Immunity.

(Biological Sciences--Pathology, TT, v. 11, no. 9)

TT-64-13427

- I. Zibitaker, D. E.
- II. FASEB-S-315-3
- III. Federation of American  
Societies for Experimental  
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,  
Washington, D. C.

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Serological Investigations in Plague. V. Methods of  
Accelerated Selection of Pasteurella Pestis Strains by the  
Yield of Fraction I, by M. L. Levi, & A. G. Momot, 7 pp.  
RUSSIAN, per, Zhur Mikrobiol. Epidemiol. i Immunobiol.,  
Vol XXXIV, no 2, 1963, pp 88-93. 9220101

USDA Tr ~~W~~ V-1896  
OTS TT-64-13347  
OTS TT-64-13891

Sci - B & M Sci  
Mar 64

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FLUORESCENT ANTIBODIES IN MICROBIOLOGY, BY  
I. I. CHERCHENKO, 17 PP.

RUSSIAN, PER, ZHUR MIKROBIOL EPIDEMIOLOGII I  
IMMUNOLOGII, VOL XXXIV, NO 2, 1963, PP 93-101.

JPRS 19693

MSCI-BIOL  
JUN 63

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TT-64-13438

Taran, I. F., Polyakova, A. M., and Chernysheva, M. I.

CHARACTERISTICS OF IMMUNITY IN SKIN VACCINATION AND REVACCINATION WITH VACCINE PREPARED FROM THE STRAIN BR. ABORTUS 104-M. COMMUN. I. IMMUNOGENESIS IN SKIN APPLICATION OF VACCINE PREPARED FROM THE STRAIN BR. ABORTUS 104-M IN EXPERIMENTS ON GUINEA PIGS. [1963] [13p] 4 refs FASEB manuscript no. S519-3. Order from OTS, SLA, or ETC \$1.60 TT-64-13438 figs. available on loan from OTS. Trans. of \*Zhurnal Mikrobiol[ogii] Epidemiol[ogii] Immunobiol[ogii] (USSR) 1963, v. 40, no. 3, p. 21-26.

DESCRIPTORS: \*Immunity, \*Vaccines, \*Brucella, \*Antigen - antibody reactions, Injection (Medicine), Skin, Lymphatic system.

(Biological Sciences--Pathology, TT, v. 11, no. 9)

- I. Taran, I. F.
- II. Polyakova, A. M.
- III. Chernysheva, M. I.
- IV. Title: Immunogenesis.
- V. FASEB-S-519-3
- VI. Federation of American Societies for Experimental Biology, Washington, D. C.
- VII. Scripta Technica, Inc., Washington, D. C.

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The Compatibility of Anthrax St1 Vaccine in  
Association with Plague Tularemia and Brucellosis  
Vaccines, by V. G. Pilipenko, M. A. Miroshnichenko.  
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii  
i Immunobiologii, Vol 40, No 3, 1963, pp 27-31.  
SLA AD-625 611

Sci-B&M  
Jul 66

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PURIFICATION OF FLUORESCENT CONJUGATES FROM FREE  
FLUOROCHROME USING ION EXCHANGE RESINS, BY  
G. M. MAYBORODA, I. O. DASHKEVICH, 6 PP.

RUSSIAN, PER, ZHUR MIKROBIOLOGII, EPIDEMIOLOGII I  
IMMUNOLOGII, VOL XXXIV, NO 3, 1963, PP 55-58.

JPRS 20164

SCI -CHEM  
JUL 63

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TT-64-13838

Erlikhman, G. I.  
THE EFFECTS OF CHRONIC IRRADIATION WITH  
SMALL RADIATION DOSES ON RESISTANCE TO IN-  
FECTION. [1963] [14p] 8 refs FASEB Me no.: S522-3.  
Order from OTS, SLA, or ETC \$1.60 TT-64-13838

Trans. of Zhurnal Mikrobiologii, Epidemiologii i  
Immunobiologii (USSR) 1963, v. 40, no. 3, p. 64-68.

DESCRIPTORS: \*Communicable diseases, \*Immunity,  
\*Radiation effects.

- I. Erlikhman, G. I.
- II. FASEB-S-522-3
- III. Federation of American  
Societies for Experi-  
mental Biology,  
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- IV. Scripta Technica, Inc.,  
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Khomik, S. R.  
CHARACTERISTICS OF IMMUNITY IN SALMONEL-  
LOSES. [1963] [8p] Srefs FASEB Ms no.: S523-3.  
Order from OTS, SLA, or ETC \$1.10 TT-64-13882

Trans. of Zhurnal Mikrobiologii, Epidemiologii i  
Immunobiologii (USSR) 1963, v. 40, no. 3, p. 68-72.

DESCRIPTORS: \*Immunity, Vaccines, \*Salmonella,  
Infections.

(Biological Sciences--Pathology, TT, v. 11, no. 10)

TT-64-13882

- I. Khomik, S. R.
- II. FASEB-S-523-3
- III. Federation of American  
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mental Biology,  
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Kolesnikova, L. I., Kholchev, N. V., Yablokova,  
M. L., and Dmitrieva-Ravikovich, E. M.  
PROBLEMS OF GAMMA GLOBULIN MANUFACTURE  
ASSOCIATED WITH THE RISK OF INFECTIOUS  
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Order from ATS \$7.95

ATS-65R75R

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i Immunologii (USSR) 1963, v. 40, no. 3,  
p. 91-95.

TT-64-22273

- I. Kolesnikova, L. I.
- II. Kholchev, N. V.
- III. Yablokova, M. L.
- IV. Dmitrieva-Ravikovich, E.M.
- V. ATS-65R75R
- VI. Associated Technical  
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Anisimova, T. I., Anisimova, P. I., and  
Sosunova, A. N.  
ON THE MECHANISM OF NATURAL IMMUNITY OF  
RHOMBOMYS OPIMUS LIGHT TO PLAGUE. [1963]  
[13p] 15rufr PASEB manuscript no. S524-3.  
Order from OTS, SLA, or ETC \$1.60 TT-64-13437

Trans. of Zhurnal Mikrobiologii, Epidemiologii i  
Immunobiologii (USSR) 1963, v. 40, no. 3, p. 96-100.

DESCRIPTORS: Immunity, \*Mice, \*Plague,  
\*Phagocytosis, \*Antigens and antibody reactions,  
Leucocytes.

(Biological Sciences--Pathology, TT, v. 11, no. 9)

TT-64-13437

- I. Title: Phombomys
- I. Anisimova, T. I.
- II. Anisimova, P. I.
- III. Sosunova, A. N.
- IV. PASEB-S-524-3
- V. Federation of American  
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Washington, D. C.
- VI. Scripta Technica, Inc.,  
Washington, D. C.

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Zoonoses of Laboratory Animals and Their  
Danger to Man, by A. I. Metelkin.  
RUSSIAN, per, Zhurnal Mikrobiologii,  
Epidemiologii i Immunobiologii, Vol 40, No 5,  
1963, pp 113-117.  
SIA AD-625 610

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Jul 66

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Zakharova, R. I.  
THE ACTION OF SPECIFIC BACTERIOPHAGE ON  
THE ENTEROPATHOGENIC E. COLI O111:84 IN  
ALBINO MICE. [1963] [15p] (tables omitted) 7 refs  
FASEB manuscript no. S 627-3.  
Order from OTS, SLA, or ETC \$1.60 TT-64-13901

Trans. of Zhurnal Mikrobiologii, Epidemiologii i  
Immunobiologii (USSR) 1963, no. 6, p. 108-114.

DESCRIPTORS: \*Bacteriophages, \*Escherichia,  
Biological specificity, Antibiotics.

(Biological Sciences--Microbiology, TT, v. 11, no. 10)

TT-64-13901

- I. Zakharova, R. I.
- II. FASEB-S-627-3
- III. Federation of American  
Societies for Experimental  
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,  
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Histologically Specific Subcutaneous Infiltrates  
Following NIISI Polyvaccine Administration,  
by N. M. Gol'dburt, 3 pp

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i  
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9211322

USDA Tr V-1835

Sci - Biol & Med Sci  
Aug 63

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THE VIABILITY OF BACTERIA IN AN AEROSOL, BY  
V. V. VLODAVETS, 5 PP.

RUSSIAN, PER, ZHUR MIKROBIOLOGII, EPIDEMIOLOGII  
I IMMUNOBIOLOGII, NO 4, 1963, PP 46-49.

JPRS 20499

SCI-BIOL & MED SCI  
JULY 63

236,977

Liquid Foamy Filters for the Recovery of  
Bacterial Aerosols, by Ye. P. Sinel'nikova  
RUSSIAN, per, Zhurnal Mikrobiologii Epidemiologii  
i Immunobiologii, No 4, 1963, pp 49-53.  
FTD HT Special 609-69

jan 70

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ANATOMO-PHYSIOLOGICAL CHARACTERISTICS OF THE HUMAN  
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AEROSOL METHOD OF VACCINATION, BY YU. S. PISAREVSKIY,  
7 PP.

RUSSIAN, PER, ZHUR MIKROBIOLOGII EPIDEMIOLOGII I  
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JPRS 20299

SCI-BIOL & MED SCI  
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PHAGOCYTOSIS CAPABILITY IN THE CELLULAR ELEMENTS OF  
MACROPHAGE CULTURE IN VITRO, BY N. N. GINSBURG,  
T. N. MASLOVA, 5 PP.

RUSSIAN, PER, ZHUR MIKROBIOLOGII EPIDEMIOLOGII I  
IMMUNOBIOLOGII, NO 4, 1963, PP 62-66.

JPRS 20299

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THE SEARCH FOR EFFECTIVE CHEMICAL VACCINES AGAINST  
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GEFEN, ET AL, 10 PP.

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JULY 63

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RUSSIAN, PER, ZHURNAL MIKROBIOLOGII EPIDEMIOLOGII I  
IMMUNOLOGII, VOL XL, NO 4, 1963, PP 117-122.

JPRS 21104

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THE BIOLOGICAL ACTIVITY OF SKIN TULARIN AFTER STORAGE  
FOR VARIOUS PERIODS, BY G. P. UGLOVOI, 6 PP.

RUSSIAN, PER, ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII I  
IMMUNOLOGII, VOL XL, NO 4, 1963, PP 128-131.

JPRS 21104

NED  
SEP 63

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THE INFECTION PROCESS IN MIXED TULAREMIA-BRUCELLOSIS INFECTION, BY YE. A. ~~BMB~~ GUBINA, T. N. DUNAYEVA, 11 PP.

RUSSIAN, PER, ZHUR MIKROBIOL, EPIDEMIOLOG, I  
IMMUNOBIOL, NO 5, 1963, PP 3-7.

JPRS 22259

SCI-BIOL & MED SCI  
DEC 63

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Lipolytic Activity of Certain Pathogenic Microbes, by  
V. I. Rykova, I. V. Domaradskiy, 7 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i Immunobiol,  
No 5, 1963, pp 14-17.

JPRS 22159

Sci-Biol & Med Sci  
Dec 63

US HEAL B. & I. (9692414)  
TE No 776  
243,687

The Effect of Iron on the Virulence and Immunogenicity of  
Avirulent ~~Strains~~ of Pasteurella Pestis, by  
L. A. Avanyan, N. Ye. Gubina, et al, 9 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i Immunobiol,  
No 5, 1963, pp 17-23.

JPRS 22159

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Differentiation of the Microbes of Plague and  
Pseudotuberculosis of Rodents, 6 pp.  
RUSSIAN, per, Zhur Mikrobiol, Epidemiol i Immunobiol,  
No 5, 1963, pp 23-26. 9222782  
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Tr No 950

Sci -- Biol & Med Sci  
Jul 64

262,426

The Fate of Plague Bacteriophage in the Organism of Healthy  
and Plague-Infected Large Gerbils and Possible Routes of  
Its Transmission Under Experimental Conditions, by  
I. L. Martinevskiy, M. A. Shashayev, et al, 6 pp.

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No 5, 1963, pp 31-34.

JPRS 22159

Sci-Biol & Med Sci

Dec 63

US Army Biol Lab (Hollis) 243,689  
TR No 411

EXPERIMENTAL STUDY OF CUTANEOUS LIVE ASSOCIATED  
TRIVACCINE, BY V. G. PILINENKO, M. A. MIROSHNICHENKO,  
ET AL, 14 PP.

RUSSIAN, PER, ZHUR MIKROBIOL, EPIDEMIOL, I  
IMMUNOBIOL, NO 5, 1963, PP 35-41

JPRS 22253

SCI-BIOL & MED SCI  
DEC 63

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FACTORS INFLUENCING EPIZOOTICS AND TULAREMIA IN  
TSELINOGRADSKAYA OBLAST, BY V. A. KRAFT, 11 PP.

RUSSIAN, PER, ZHUR MIKROBIOL, EPIDEMIOL, I  
IMMUNOBIOL, NO 5, 1963, PP 41-47

JPRS 22259

SCI-BIOL & MED SCI  
DEC 63

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Natural Tularemia Foci in Khabarovsk Krai, by  
P. V. Abushkevich, N. S. Belyayeva, et al.  
RUSSIAN, per, Zhur Mikrobiol, Epidemiol, i Immunobiol,  
Vol XXXIV, No 5, 1963, pp 48-51. 922689

USDA Tr V-1867

Sci - B & M Sci  
Mar 64

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NATURAL FOCI OF LEPTOSPIROSIS IN THE NORTH OSETIAN  
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9 PP.

RUSSIAN, PER, ZHUR MIKROBIOL, EPIDEMIOL, I  
IMMUNOBIOL, NO 5, 1963, PP 56-60.

JPRS 2225

SCI-BIOL & MED SCI  
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EPIDEMIOLOGY AND MEASURES FOR CONTROL OF TULAREMIA  
IN THE YAKUTSK ASSR, BY D. I. BRIKMAN, ~~XXXXXX~~ 9 PP.

RUSSIAN, PER, ZHUR MIKROBIOL, EPIDEMIOL, I  
IMMUNOBOL, NO 5, 1963, PP 60-64

JPRS 22255

SCI-BIOL & MED SCI  
DEC 63

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Serological Investigations of Plague; Report VIII: The Question of the Sensitivity and Specificity of the Antibody Neutralization Reaction in Plague and Tularemia, by M. I. Levi, L. A. Sagatovskaya, et al, 6 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i Immunobiol, No 5, 1963, pp 65-68.

JPRS 22159

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Detection of Botulin Toxins and Microbes of  
B and C Types in the Organism of Patients,  
Animals and Cadavers, by T. I. Sergeeva.  
RUSSIAN, per, Zh Mikrobiol, Vol 33, No 5,  
1963, pp 77-82.  
IDW NIH 2-87-66 (On Loan)

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Bacteriological Diagnosis of Anthrax, 8 pp.  
RUSSIAN, per, Zhur Mikrobiol, Epidemiol i Immunobiol,  
No 5, 1963, pp 107-112. 9222784  
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Tr No 975

Sci - Biol & Med Sci  
Jul 64

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A TRANSMISSIVE OUTBREAK OF TULAREMIA IN THE  
VICINITY OF TSELINOGRAD, BY A. I. KOLENOVICH, 6 PP.

RUSSIAN, PER, ZHUR MIKROBIOL, EPIDEMIOL, I  
IMMUNOBIOL, NO 5, 1963, PP 148-149

JPRS 22259

SCI-BIOL & MED SCI  
DEC 63

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S-863/63

A Case of Human Infection With Anthrax, by A. M. Sorina.  
(DC-10058)

RUSSIAN, per, Zhur Mikro Epid i Immuno, No 5, 1963,  
pp 152-153.

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Nov 63

Experience in the Control of Brucellosis in Stavropol'skiy  
Kray, by A. N. Likhonos, 10 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol, i Immunobiol,  
No 6, 1963, pp 3-8.

JPRS 22232

Sci-Biol & Med Sci  
Dec 63

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EXPERIENCE IN USING TELEVISION MICROSCOPY FOR  
THE DEMONSTRATION OF MICROORGANISMS, BY  
M. P. ZYKOV, L. B. BAKINOVA, 7 PP.

RUSSIAN, PER, <sup>Zhurnal</sup> MICROBIOLOGII, EPIDEMIOLOGII I  
IMMUNOBIOLOGII, VOL XXXIV, NO 6, 1963~~XX~~,  
PP 54-58.

JPRS #206L9

SCI - BIOL  
AUG 63

238,645

STAINING ISOLATED BACTERIAL STRUCTURES WITH  
FLUORESCENT ANTIBODIES, BY I. F. MIKHAYLOV,  
YE. S. STANISLAVSKIY, 9 PP.

RUSSIAN, PER, ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII  
I IMMUNOBIOLOGII, VOL XXXIV, NO 6, 1963,  
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JPRS 20618

OTS TT-64-13900

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S-862/63

Proliferation of Listeria in the Soil, by  
L. A. Pomanskaya. (DC-10059)

RUSSIAN, per, Zhur Mikro Epid i Immuno, No 6, 1963,  
pp 99-101.

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Anatomical-Physiological Properties of Human and Animal  
Respiratory Systems in Immunogenesis Through The  
Aerosol Vaccination Method, by Yu. S. Pisarevskiy, 8 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i Immunobiol,  
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JPRS 22159

Sci-Biol & Med Sci  
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S-864/63

Characteristics of Immunity Following Cutaneous  
Vaccination and Revaccination With Vaccine From  
Strain Br. Abortus 104-M, by I. F. Taran, A. M. Polyakova  
(DC-10057)

RUSSIAN, per, Zhur Mikro Epid i Immuno, No 6, 1963,  
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