LYSENKO, T. D.

Agricultural theory of Wiliams. Izv. Akad. nauk SSSR.Ser. biol., Moskva no.4:3-19 July-Aug. 1950. (CLML 20:1)

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"Scientific News Concerning Biological Species", Agrobiologiya, Vol. 6, 1950.

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"Work of O. B. Lepeshinskaya, an Active Member of the Academy of Medicine of USSR," Agrobiologiya, No. 6, 1951.

MLRA May 1952

USSR/Biology - Genetics 11 Mar 51

"New Developments in Science of the Formation of Species," Acad T. D. Lysenko

"Vest Ak Nauk SSSR" Vol XXI, No 3, pp 66-75

In discussing his genetic and evolutionary theories and criticizing older theories, at annual meeting of Acad Sci USSR, 2 Feb 51, Lysenko describes recent discovery of individual rye grains on ears of both hard and soft wheat, occurrence of grains of Avena fatua on ears of Avena sativa (known for some time), contamination of branched wheat (Triticum turgidum) by admixts of soft and hard wheat, oats, 2-row and 4-row barley, and spring rye (recent discovery). Denies that under the exptl conditions in question these admixts are due to hybridization: assumes that one species was transformed into another under the influence of external conditions. States that rye grains allegedly generated by wheat grew into typical fertile rye plants in the majority of case--not wheat-rye hybrids, which are sterile.

21W3

LYSENKO, T. D.

21W3

LYSENKO, T.D.

Prevrashchenie nezimuiushchikh iarovykh sortov v zimnostoikie ozimye (Transformation of winterkilling spring varieties into winterhardy fall varieties). Moskva, Sel'khozgiz, 1952. 14 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954

LYSENKO, Trofim Denisovich, 1898-

Agrobiology; works on the problems of genetics, selection, and seed-growing. Izd. 6. dop. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1952. 781 p. (53-25432)

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LYSENKO, T. D.

"Some Advice for Collectice Farmers of the Moscow Area," Agrobiologiya, No. 1, 1952.

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Along the Michurin path Mol. kolkh. No. 2, February 1952

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

T. LYSENKO

"The work of O.B. Lepeshinskaia, a member of the Academy of medical sciences of the U.S.S.R. Tr. from the Russian." p. 247. (ZA SOCIALISTICKÉ ZDRAVOTNICTVÍ, Vol. 2, no. 3, Mar. 1952, Praha, Czechoslovakia.)

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1. LYSENKO, T. D.

2. USSR (600)

4. Evolution

7. Development of Darwin's theory on the origin of species in Academician T. D. Lysenko's works, Izv. AN SSSR. Ser. biol. no. 1, 1952.

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Plant Breeding

Transformation winter-kill spring varieties into winter-resistant fall varieties. Agrobiologiia, No. 4, 1952.

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Wheat

Some advice for collective farmers of the Moscow area Korm. baza 3, No. 5, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, September 1952. UNCLASSIFIED.

LYSENKO, T. D., Acad.

Grain

Transforming non-wintering spring varieties into winter-hardy varieties. Est. v shkole no. 5, 1952.

Monthly List of Russian Accessions, Libraary of Congress, December 1952. Unclassified.

LYSENKO, T. D. 235T7

USSR/Biology - Genetics Sep/Oct 52

"The Vitality of Vegetative and Animal Organisms," T.D. Lysenko

"Agrobiologiya" No 5, pp 1-8

This is an elaboration of Lysenko's theory of genetics. Describes expts with animals and plants, which demonstrate that the vitality of offspring depends primarily on the fertility of the parents. The author asserts that const homogenic inter-breeding that produces weak offspring may be offset by heterogenesis produced by a directed change of environment.

235T7

1. T. D. LYSENKO

2. USSR (600)

4. Agriculture

7. Tasks of the All-Union Lenin Academy of Agricultural Sciences in executing the directives of the 19th Party Congress concerning the development of agriculture in the U. S. S. R. Agrobiologiia no. 6. 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

LYSENKO, T.

"Results of experimental seedings and the stage of production of windbreaks sown by the hill method in 1949, 1950, and 1951." Tr. from the Russian, p. 7.
"Instructions for sowing windbreaks by the hill method for the protection of fields chiefly composed of oak." Tr. from the Russian. p. 11. (ANALELE ROMANO SOVIETICE. SERIA SILVICULTURA-INDUSTRIA LEMNULUI SI A HARTIEI, Vol. 7, seria a II-a, no. 14, July/Aug. 1952. Bucuresti.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

LYSENKO, T.

"The Results of the Experimental and Productive Plantings of Forest Belts According to the Nest Method during 1949, 1950, and 1951," p. 271. (Gorsko Stopanstvo, Vol.8, No.6, June 1952, Sofiya.)

SO: Monthly List of East European Accessions, Vol.2, No.9 Library of Congress, September 1953, Uncl.

LYSENKO, T. D. acad.

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Transforming non-wintering spring varieties into winter-resistant fall varieties.
Sov. agron. 10, No. 9, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, November 1952. UNCLASSIFIED.

LYSENKO, T. D.

Afforestation

Results of experimental and regular seedings of forest belts by spot-seeding methods in 1949, 1950 and 1951. Kolkh. proiz. 12 No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress November 1952. UNCLASSIFIED.

LYSENKO T. D.

238T1

USSR/Biology, Controlled Crop Production Sep/Oct 52

"The Transformation of Non-Hibernating Summer Grain Varieties into Winter-Stable Crops," T.D. Lysenko.

"Zhur Obshch Biol" Vol 13, No 5, pp 329-335

Discussion of the possibility of controlled production of grain crops. T. D. Lysenko asserts that a secondary sowing of summer grain in the fall of the yr may produce a winter-stable grain crop. This transformation, according to the author, is produced by the photosynthesis of the sun and the green leaves of the plants, producing a winter type of grain crops.

238T1

238T1

LYSENKO, T. D.

Some advice to collective farm members of the Moscow Region. Dokl. Ak. sel'khoz, 17. No. 2, 1952.

MLRA, August 1952

1. LYSENKO, T.D.

2. USSR (600)

4. Vitality

7. Viability of plant and animal organisms. Dokl.Ak.sel'khoz. 17 no.9, 1952.

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

1. LYSENKO, T. D.

2. USSR (600)

4. Phylogeny (Botany)

7. New concepts in science concerning the biological species, Trudy Inst. gen. No. 19, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unel.

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Agrobiologiya; raboty po voprosam genetiki, selektsii i semenovodstva [izd. 6, dop.] Moskva, Sel' Khozgiz, 1952.

781 p. illus., tables. 27 cm.

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1. Plant-Breeding. 2. Genetics. 1. Title.

LYSENKO, Trofim Denisovich, 1898-

Selected works. Moskva. Moskovskii rabochii, 1953. 549 p.

LYSENKO, T.

"Increasing crop yields in an area of nonblack soil." Tr. from the Russian. p. 79. (Nowe Rolnictwo, Vol. 2, no. 7, July 1953. Warszawa.)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, Feb. 1954, Uncl.

T. LYSENKO

"For increased crops of bread plants sown in the autumn of 1953 in nonloess soils not fertilized with manures. Tr. from the Russian." page 80
"Deepening the cultivation layer of podsolized bog soils" page 84
(NOWE ROLNICTWO. Vol. 2, No. 9, Sept. 1953 Warszawa, Poland)

SO: East European, L.C. Vol. 2, No. 12, Dec. 1953

1. LYSENKO, T.

2. USSR (600)

4. Cotton

7. Cotton plant in the southern districts of European Russian, Khlopkovodstvo 3 no. 1, 1953.

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Agriculture

(1)

8085* Problems of Scientific Soil Nutrition for Increased Crop Yields. (Russian.) T. D. Lysenko. *Agrobiologiia*, 1953, no. 5, Sept.-Oct., p. 17-31.

Use of artificial, natural, and mixed fertilizers on unproductive acid and alkaline soils. Table.

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Soil plant nutrition and raising the yield of agricultural crops. Est.v shkole no.6:9-17 '53. (MLRA 6:10)
(Plants--Nutrition) (Fertilizers and manures)

LYSENKO, T. D.

B. T. R.
V. 3 No. 3
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Agriculture

2845* Scientific Problems of Fertilizing Plants to Increase Productivity. (Russian.) T. D. Lysenko. *Doklady Nauki i Peredovoga Opyta b Sel'skom Khozyaistve*, 1953, no. 11, Nov., p. 22-36.

Applications of lime and fertilizer are discussed. Studies were made of microorganisms in acid soils. Table.

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2. USSR (600)

4. Agriculture

7. Use all potential cultivation practices for increasing crop yield, Dokl. Akad.sel' khoz. 18 no. 3, 1953.

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Species, Origin of

Developments in the science of biological species. Bot. zhur. 38, No. 1, 1953.

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1. Institut genetiki Akademii nauk SSSR (for Kononkov). 2. Akademiya nauk SSSR (for Lysenko).
(Cells)

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Importance of autumn light in the development of winter crops. Dokl.AN SSSR 93 no.2:361-364 N '53. (MLRA 6:10)

1. Institut genetiki Akademii nauk SSSR (for Fedorov). 2. Akademiya nauk SSSR (for Lysenko). (Plants, Effect of light on)

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5669. LYSENKO, T. D. Teoreticheskiye Osnovy Y arovizatsii. Kiyev, Gossel'khozizdat USSR, 1954. 72s s. Ill 20sm. 25,000 Ekz. 1r 95k-Na Urk. Yaz. (55-963) 631/ 531.19

SO: Knizhnaya, Letopis, Vol. 1, 1955

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Stadjni vyvoj rostlin; prace o theorii stadijniho vyvoje a jarovisaci zemedelskych rostlin. (Z ruskeho prel. Al. Boukova (et al.) Praha, Statni zemedelske nakl., 1954. 596 p. (Publikace SZN, cis. 294) (Stages of plant development; a study of the theory of the stages of development and vernalization of agricultural plants. Tr. from the Russian. plates)
CU DA Not in DLC

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N/5
631.3
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(Kharkov--Veterinary colleges)

OPARIN, A.I., akademik; TSITSIN, N.V., akademik; KHRUSHCHOV, G.K.; ANICHKOV, N.N., akademik; BYKOV, K.M., akademik; KURSANOV, A.L.; LYSENKO, T.D.; TYURIN, I.V.; NUZHDIN, N.I.; IVANOV-SMOLENSKIY, A.G.; STUDITSKIY, A.N., professor; DOZORTSEVA, R.L., kandidat biologicheskikh nauk.

Greetings to Academician E.N.Pavlovskii. Zool.zhur. 33 no.2:241-242 Mr-Ap '54. (MLRA 7:5)

1. Akademik-sekretar' Otdeleniya biologicheskikh nauk Akademii nauk SSSR (for Oparin). 2. Zamestiteli akademika-sekretarya Otdeleniya biologicheskikh nauk (for TSitsin and Khrushchov). 3. Chlen-korrespondent Akademii nauk SSSR (for Khrushchov and Nuzhdin). 4. Chleny Byuro (Anichkov, Bykov, Kursanov, Lysenko, Tyurin, Nuzhdin, Ivanov-Smolenskiy, Studitskiy). 5. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Ivanov-Smolenskiy). 6. Uchenyy sekretar' Otdeleniya biologicheskikh nauk Akademii nauk SSSR (for Dozortseva).
(Pavlovskii, Evgenii Nikanorovich, 1884-)

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Agrobiology; Essays on Problems of Genetics, Plant Breeding and Seed Growing. Moscow, Foreign Languages Publishing House, 1954.

636 p. Illus. 27 cm.

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1. Plant-Breeding.

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8586. Soil Nourishment of Plant and the Fertilization of Fields. Pechvennoe pitanie rastenii i udobrenie polei. (Russian.) T. D. Lysenko. *Agrobiologiia*, 1955, no. 1, Jan.-Feb., p. 3-16.

Effects of superphosphates, lime, etc., in different proportions; mulching procedures; microflora. Table. 2 ref.

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(Botany)

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The Michurin doctrine. Trudy Inst.gen. no.22:5-14 '55.
(Biology) (MLRA 9:4)

BENEDIKTOV, I.A., redaktor; GRITSENKO, A.V., redaktor; IL'IN, M.A., zamestitel' glavnogo redaktora, LAPTEV, I.D., LISKUN, Ye.F.; LOBANOV, P.P., glavnyy redaktor; LYSENKO, T.D.; SKRYABIN, K.I.; STOLETOV, V.N.; PAVLOV, G.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SOKOLOV, N.S., professor, nauchnyy redaktor; ANTIPOV-KARATAYEV, I.N., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KARPINSKIY, N.P., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHESTAKOV, A.G., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; RUBIN, B.A., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KOMARNITSKIY, N.A., dotsent, nauchnyy redaktor; LYSENKO, T.D., akademik, nauchnyy redaktor; POLYAKOV, I.M., professor, nauchnyy redaktor; SHCHEGOLEV, V.N., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; YAKUSHKIN, I.V., akademik, nauchnyy redaktor; LARIN, I.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; SMELOV, S.P., professor, doktor biologicheskiy nauk, nauchnyy redaktor; EDEL'SHTEYN, V.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHCHERBACHEV, D.M., professor, doktor meditsinskikh nauk, nauchnyy redaktor; OGOLEVETS, G.S., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; YAKOVLEV, P.N., akademik, naychnyy redaktor; YEKIMOV, V.P., agronom, nauchnyy redaktor [deceased], EYTINGEN, G.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; TIMOFEYEV, N.N., professor, nauchnyy redaktor; TUROV, S.I., professor, doktor biologicheskikh nauk; YUDIN, V.M., akademik, nauchnyy redaktor; LISKUN, Ye.F., akademik, nauchnyy redaktor; VITT, V.O., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KALININ, V.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor.

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BENEDIKTOV, I.A.--- (continued) Card 2.
GREBEN', L.V., akademik, nauchnyy redaktor; NIKOLAYEV, A.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; RED'KIN, A.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SMETNEV, S.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; POPOV, I.S., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; MANTEYFEL', P.A., professor nauchnyy redaktor; INIKHOV, G.S., professor, doktor khimicheskikh nauk, nauchnyy redaktor; ANFIMOV, A.N., professor, nauchnyy redaktor; GUBIN, A.F., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; POLTEV, V.I., professor, doktor veterinarnykh nauk, nauchnyy redaktor; LINDE, V.V., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; CHERGAS, B.I., professor, doktor biologicheskikh nauk, nauchnyy redaktor; NIKOL'SKIY, G.V., professor, nauchnyy redaktor; AVTOKRATOV, D.M., professor, doktor veterinarnykh nauk, nauchnyy redaktor; IVANOV, S.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; VIKTOROV, K.P., professor, doktor veterinarnykh nauk, nauchnyy redaktor; KOLYAKOV, Ya.Ye., professor, doktor veterinarnykh nauk, nauchnyy redaktor; ANTIPIN, D.N., professor, doktor veterinarnykh nauk, nauchnyy redaktpr; MARKOV, A.A., professor, doktor veterinarnykh nauk, nauchnyy redaktor; DOMRACHEV, G.V., professor, doktor veterinarnykh nauk, nauchnyy redaktor; OLIVKOV, B.M., professor, doktor veterinarnykh nauk nauchnyy redaktor [deceased]; FLEGMATOV, N.A., professor, doktor veterinarnykh nauk, nauchnyy redaktor; BOLTINSKIY, V.N., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; VIL'YAMS, V.P., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; KRASNOV, V.S., kandidat tekhnicheskikh nauk, nauchnyy redaktor;

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BENEDIKTOV, I.A.---(continued) Card 3.
YEVRINOV, M.G., akademik, nauchnyy redaktor; SAZONOV, N.A., doktor tekhnicheskikh nauk, nauchnyy redaktor; NIKANDROV, B.I., inzhener, nauchnyy redaktor; KOSTYAKOV, A.N., akademik, nauchnyy redaktor; CHERKASOV, A.A., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; DAVITAYA, F.F., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; IVANOV, N.N., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; ORLOV, P.M., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor, LOZA, G.M., kandidat ekonomicheskikh nauk, nauchnyy redaktor; CHERNOV, A.V., kontrol'nyy redaktor; ZAVARSKIY, A.I., redaktor; ROSSOSHANSKAYA, V.A., redaktor; FILATOVA, N.I., redaktor; YEMEL'YANOVA, N.I., redaktor; SILIN, V.S., redaktor BRANZBURG, A.Yu., redaktor; MAGNITSKIY, A.V., redaktor terminov; KUDRYAVTSEVA, A.G., redaktor terminov; AKSENOVA, A.P., mladshiy redaktor; MALYAVSKAYA, O.A., mladshiy redaktor; FEDOTOVA, A.F., tekhnicheskiy redaktor

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BENEDIKTOV, I.A.---(continued) Card 4.

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LYSENKO, T.D., akademik.

Hundredth anniversary of the birth of I.V. Michurin, the outstanding scientist and biologist. Izv. AN SSSR. Ser. biol. no.1:6-17 Ja-F '56 (MLRA 9:5)

(BIOLOGY)

LYSENKO, T.D., akademik.

How a plant is nourished. IUn.nat. no.1:29-30 Ap '56.
(Plants--Nutrition) (MLRA 9:9)

LYSENKO, T. D.

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25 1957, 21260

Author : Lysenko, T.D.
Inst : not given
Title : Biologic Species and Evolution of Species.

Orig Pub: Agrobiologiya, 1956, No 4, 3-30

Abstract: The author defends all the basic postulates which were developed by him in his studies, "New developments in the science of biologic species," 1950 (see Referat Zh.-Biol., 1954, 166). It has been affirmed that factual data on which the author's conception is based, are authentic and fully guarantee prevention of mechanical admixture of seeds of one species in seeding material of another species. But one cannot "say in advance which species will be generated and by what species." A special significance is attached to generation of flat-seeded vetch by plate

Card : 1/13 -12-

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6 March 25 1957, 21260

lentil. The practical problems of the development of measures which prevent regeneration of valuable cultivated species into worthless ones and even harmful ones, of combatting weeds, and also of obtaining new beneficial forms, etc. are presented. Objections of opponents of the new conception of evolution of species are discussed. The discussion of this problem in the "Botanicheskiy zhurnal" [Botanical Journal] and in the "Byulleten MOIP" [Bulletin of the Moscow Naturalists Society] is qualified as directed "to befogging the truth." The opinion that the generation of individual grains of rye in the ear of wheat is the result of a prolonged hybridization with rye is challenged; for then "we shall have to acknowledge that all the wheat, of whatever sort, existing on the globe, is biologically impure, and represents a rye hybrid." Then, any wheat under given conditions will sooner or later generate rye.

Card : 2/13 -13-

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

Also the possibility of androgenic generation of species is rejected. The objection also is removed that the new concept of species evolution is based only on generation of species already in existence and does not present a single case of generation of new species, and that therefore, the new concept contradicts the theory of dialectical materialism. The author believes that "the development by spiral and not by circle" not only does not preclude the recurrence of phenomena, but on the contrary, in many cases results from recurrence. It is even difficult to imagine that the evolution of the organic universe would proceed... without a recurrent emergence of one species from others. Therefore, "at the present time from the existing species, there may appear one which did not formerly exist." A notion is presented of the need

Card : 3/13 -14-

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

to differentiate taxonomic and biologic species, which often do not coincide. Taxonomic species are often arbitrary, while the biologic ones are concrete and are characterized by definite intra and interspecies relations. The new concept of species evolution is based on facts of biologic species generation. On the question of intra and interspecies relationship an analogy is suggested between organisms and organs. "The interrelationship of individuals within the species of the same order is like the interrelationship of organs in an organism;" while none of these interrelationships fits in, either under the concept of reciprocal help or under the concept of competition. The Darwinian treatment of organic expedience (regarding adaptation) is expounded. It is asserted that "Darwinism could only explain in a relatively correct fashion the development of the organic world, but it could not

Card : 4/13 -15-

serve as a theory of reorganization and its management." The author considers that organic expedience can be explained only as based on the concept that "the change in heredity is adequate to (is in conformity with) the influence (assimilation) of environments of external media... In the final analysis the so-called organic expedience... by necessity follows from the most ordinary physical and chemical conditions, which were adopted during their conversion from a lifeless to a living state." The law of life in a biologic species is formulated. "In an animal or plant in nature the different organs, different properties, different physiological processes, all the limitless diversity of characteristics of the organism's forms and functions are directed toward increasing the number of individuals of the given species directly or indirectly, even if in some cases it shortens the life span of one individual or

even causes its death." Without the knowledge of this law one cannot comprehend the nature of interrelationships of individuals of different species. "The concept of intra-species interaction as competition or as reciprocal help contradicts that which is observed in living nature, and therefore is harmful to the development of biologic science." It is affirmed that it does not contradict the biologic species law of life to plant and sow plants into nests and square nests and that "woody forest species and furrowed agricultural plants... should be planted in any district by groups and nests " The author disputes V.N. Sukachev (see Referat Zh.-Biol., 1954, 167 and 1957, 12784) in whose theoretical positions the author discerns Malthusianism in biology. It is asserted that "the root cause" of the drying out of the lower tree branches is related to the fact that "all the plastic, energetic water-soluble substances flow out from them into the trunk." An analogy

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

is presented of the interrelation of individuals within species (among them young oaks in their group disposition in the nest) with the interrelationship of branches of a solitary standing tree, among which "there is no competition, nor reciprocal help." According to the author's assertion, the root systems of young oaks (3,4 and 6 years old) grown in the nest, knit together. "Those young trees, which in the closest years begin to die off, knit by their roots with those young trees, which internally are not yet ready to die off. A small tree 'appropriates' the roots of the smaller one, and the smaller one itself 'gives up' its roots to that other one, which internally is not ready to die off. Consequently, there are no 'dominating' and 'oppressed' trees but there is life unity of the species subordinate to the life laws of the species." The knitting together of the root systems in a nest formation, and

Card : 7/ 13 -18-

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

and then pumping over of plastic substances "from the young tree, internally prepared to die off, into the remaining tree of the same species" occurs "in good time, for several years, in some cases for many years" before dying off. The author, however, makes this reservation: "the hypothesis..., of course, needs a factual, experimental verification." The self-thinning in a group of young oaks, according to the author, "occurs not because the young trees are crowded closely, but because in the immediate future they will become crowded closely." The problem of biologic theory of self-thinning in connection with nest planting of forests and plowed cultivations is discussed separately; also the problem of forest fellings. It is asserted that close species are considerably harder to differentiate than varieties of the same species. Crossings and fertility of individuals

Card : 8/13 -19-

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

is acknowledged as a criterion of the species. Linnaean species, as a rule, coincide with the biological species. Variants and subspecies are identified by the breeds of farm animals and varieties of cultivated plants. The views criticized are those of biologists who are the opponents of Lysenko's conception of biologic species and evolution of species, who contend that "all farm animals and... plants -- as if these are not biologic species, but only their deviations... Variability -- this is not a beginning of a new species and, therefore, also is not a deviation of the old species. Variability-this is one of the forms the given species exists in." The individual is defined also as "one of the forms the species exists in... The distinction of a species from a variant and from an individual is a quantitative one. The individual is a unitary thing, variety is a plurality of individuals, while

Card : 9/13 -20-

Category: USSR/General Division. General Problems. Philosophy. Methodology.

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

species -- this is an individual (singular) and variants (multiplicity of individuals), and a multiplicity of variants." The existing forms of biologic species are limitlessly varied (but not all) and are determined by life conditions. "The appearance of forms beyond the species limits is the generation by one species of others," as for instance, the generation of rye by wheat. A reference is made to the experiments of V.K. Karapetyan, which showed that separate grains of rye (as a crosspollinated plant) generated in ears of wheat, on planting yield plants which germinate the seeds even by self-pollination. Analogous results were obtained "in castration and isolation of ears of these plants, i.e. without any pollination." If conditions were favorable to the generated species, then the generated species, occupying new areas under the influence of new conditions, will yield new variants. In

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

this fashion, the thriving of a species is accomplished, which continues to exist as an integral unit. The notion of natural aging of species is rejected. The author's views on interspecies hybridization are evolved, as an "unusual manner" of multiplication. It is pointed out that the author's opponents, who conceive that interspecies crossing is attainable, are confusing taxonomic species with biologic ones. If species easily interbreed and as a result a normal fertile progeny is produced, then in these cases, in the author's opinion, "the talk is not of different biologic species, but of different variants of the same species." While recognizing that I.V. Michurin widely applied interspecies hybridization and developed its theory, the author believes that Michurin did not acknowledge "the possibility of existence of intermediate forms of interspecies hybrids... which multiply themselves... sexu-

Card : 11/13 -22-

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

this fashion, the thriving of a species is accomplished, which continues to exist as an integral unit. The notion of natural aging of species is rejected. The author's views on interspecies hybridization are evolved, as an "unusual manner" of multiplication. It is pointed out that the author's opponents, who conceive that interspecies crossing is attainable, are confusing taxonomic species with biologic ones. If species easily interbreed and as a result a normal fertile progeny is produced, then in these cases, in the author's opinion, "the talk is not of different biologic species, but of different variants of the same species." While recognizing that I.V. Michurin widely applied interspecies hybridization and developed its theory, the author believes that Michurin did not acknowledge "the possibility of existence of intermediate forms of interspecies hybrids... which multiply themselves... sexu-

Card : 11/13 -22-

Category: USSR/General Division. General Problems. Philosophy. Methodology. A-1

Abs Jour: Referat Zh.-Biol., No 6, March 25, 1957, 21260

ally... which are able repeatedly to recreate themselves in generations without losing their intermediate interspecies form." Therefore, rye-wheat and wheat-couch grass hybrids are envisaged as a very ordinary, biologcally pure species of soft winter wheat or summer wheat and it is maintained that "in the following generations, in view of the physiological incompatibility of biological species, the wheat by way of splitting purified itself of rye or of couch grass, and by this very process of all the properties of rye or couch grass, and became pure wheat... Neither biologically nor philosophically can one imagine that plants consisting only of the body of wheat should at the same time possess some properties of couch grass. Such phenomena do not appear in nature." Nonetheless, the author considers "interspecies crossing as one of the paths not only of forming new varieties.. and breeds.., but also new species" because "there

Card : 12/13 -23-

is no easier way to shatter inheritance, to liquidate the conservatism of heredity, than interspecies hybridization." In conclusion, the author states "that the interests of biological study and practice persistently demand a widening of an authentically scientific discussion on problems of species and evolution of species, but a discussion specifically of a scientific, forward-looking investigation of this problem, not one inhibiting search for new facts and bases of theoretical positions."

LYSENKO, T.D.

One hundredth anniversary of I.V.Michurin's birth. Trudy Inst.gen. no.23:5-16 '56. (MIRA 10:1)
(Michurin, Ivan Vladimirovich, 1855-1935)
(Genetics)

LYSENKO, T.D.

For further development of Michurin's theories. Trudy Inst.gen no.23:17-21 '56. (MLRA 10:1)
(Genetics) (Agricultural chemistry)

LYSENKO. T.

For development of Soviet agriculture. Tr. from the Russian. p. 204.

Vol. 115, no. 4, Apr. 1956
TERMESZET ES TARSADALOM
Budapest, Hungary

Source: East European Accession List. Library of Congress
Vol. 5, no. 8, August 1956

LYSENKO, Trofim Denisovich, akademik; GRIGOR'YEVA, A.I., redaktor; PAVLOVA, M.M., tekhnicheskiy redaktor

[Biological species and formation of species] O biologicheskom vide i videobrazovanii. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 62 p. (MLRA 10:7)
(Species, Origin of)

LYSENYC, TROFIM DENISOVICH

S/S
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Soil Nutrition of Plants. Moscow, Foreign Language Publishing House, 1957.
137 p. Tables. Translated By I. Lasker From the original Russian:
Pochvennoye Pitaniye - Rasteniy Kornennoy Voprос Nauki Zemledeliya. Moscow, 1955.

LYSENKO, Trofim Dionisovich, 1898-

[Plant nutrition from the soil, a vital question in agriculture] Pochvennoe pitanie rastenii - korennoi vopros nauki zemledeliia. Izd. 2-oe dop. Moskva, Gos.izd-vo selkhoz. lit-ry, 1957. 185 p.
(Plants--Nutrition) (MIRA 11:6)

LYSENKO, T. [D.]

"Theoretical Successes of Agronomical Biology," Izvestia, 8 December 1957.

Translated in Daily Review of Soviet Press, 18 Dec 1957

USSR/Soil Science - Mineral Fertilizers. J.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15330

Author : T.D. Lysenko
Inst :
Title : The Session of the All-Union Academy of Agricultural Sciences im. V.I. Lenin in the "Rossiya" Kolkhoz. (Vystupleniye na sessii VASKHNIL v kolkhoze "Rossiya").

Orig Pub : Agrobiologiya, 1957, No 2, 8-13

Abstract : No abstract.

Card 1/1

LYSENKO, T. D.

USSR/Cultivated Plants - Fruits and Berries. M-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10995

Author : Lysenko, T.D.
Inst : -
Title : Concerning the Mention of the Emergence of a Plum Shoot on an Apricot Tree.

Orig Pub : Agrobiologiya, 1957, No 2, 47-48

Abstract : The author concurs in the explanation which D.A. Dolgushin gives for this phenomenon and mentions that it is analogical to the emergence of a hazelnut branch on a hornbeam, which S.K. Karapetyan describes.

Card 1/1

16

LYSENKO, T.D., akademik.

For materialism in biology. Agrobiologiia no.5:4-12 S-O '57.
(MIRA 10:10)

(Science--Philosophy) (Windbreaks, shelterbelts, etc.)

USSR/Soil Science. Organic Fertilizers. J-4

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24766.

Author : Lysenko, T.D.
Inst :
Title : To Apply Organo-Mineral Mixtures on a Broader Scale in Non-Chlernozem Zones.

Orig Pub: Udobreniye i urozhay, 1957, No 6, 1-5.

Abstract: No abstract.

Card : 1/1

Lysenko, T.D.

LYSENKO, T.D., akademik.

For materialism in biology! Agrobiologiia no.6:3-17 N-D '57.
(Agriculture) (Biology) (MIRA 10:12)

LOBANOV, P.; BREZHNEV, D.; OL'SHANSKIY, M.; LYSENKO, T.; LISAVENKO, M.; SINYAGIN, I.; YAKUSHKIN, I.; PREZENT, I.; VARUNTSYAN, I.; KOLESNIKOV, V.; YEVTUSHENKO, A.; ZASYADNIKOV, T.; ALISOV, M.; UTEKHIN, A.; GORSHKOV, I.; BELOKHONOV, I.; VIDENIN, K.; KARPOV, G.; CHERNENKO, S.; BAKHAREV, A.; TIKHONOVA, A.; KUZ'MIN, A.; BUZULIN, G.; TOLMACHEV, I.; LYSYUK, Ye.; KHARITONOVA, Ye.; KUSHNIRENKO, M.; NOVOPAVLOVSKAYA, N.; ZHIRONKIN, I.; KATSURA, O.; KIRYUKHIN, I.; NIKITIN, B.; TSVETAYEVA, Z.; ARKHIPOV, B.; OSTAPENKO, V.; IVANOV, V.; BUTUZOV, V.; LUTKOVA, I.; TSVETAYEVA, Z.; ARKHIPOV, B.; OSTAPENKO, V.; IVANOV, V.; BUTUZOV, V.; LUTKOVA, I.

P.N. IAkovlev; obituary. Agrobiologiia no.6:119 N-D '57. (MIRA 10:12)

(IAkovlev, Pavel Nikanorovich, 1898-1957)

LYSENKO, Trofim Denisovich, akademik, NUZHDIN, Nikolay Ivanovich, . . ., . . .
STAROSTENKOVA, M.M., red.; BERLOV, A.P., tekhn.red. FEYGINSOV, N.I. red.;

[For materialism in biology; based on public lectures in the Central Lecture Bureau of the Society in Moscow]. Za materialism v biologii; po materialam publichnykh vystuplenii v TSentral'nom lektorii Obshchestva v Moskve. Moskva, Izd-vo "Znanie," 1958. 67 p. (Vsesoiuznoe obschestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.8, vyp.1, no.14/15) (MIRA 11:9)

1. Chlen-korrespondent AN SSSR (for Lysenko).
(Biology--Philosophy)

LYSENKO, Trofim Denisovich; ZAVERIN, A.S., red.; SMIRNOVA, Ye.A., tekhn.red.

[Selected works in two volumes] Izbrannye sochineniia v dvukh tomakh. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol. 2. 1958. 368 p. (MIRA 12:2)

(Biology) (Agriculture)

LYSENKO, Trofim Denisovich; ZAVERIN, A.S., red.; SMIRNOVA, Ye.A., tekhn.red.

[Selected works in two volumes] Izbrannye sochineniia v dvukh tomakh. Moskva, Gos. izd-vo sel'khoz.lit-ry. Vol.1., 1958. 484 p. (MIRA 12:1)
(Growth (Plants)) (Plant breeding) (Botany--Variation)

LYSENKO, T.D., akademik

Plant nutrition from soil and fertilizer application in orchards.
Agrobiologiia no. 3:87-94 My-Je '58. (MIRA 11:7)
(Fruit culture)
(Fertilizers and manures)
(Plants--Nutrition)

LYSENKO, T., akademik

Milk with an increased fat content. IUn.nat. no.4:14-16 Ap '58. (MIRA 11:4)
(Milk) (Cattle breeds)

LYSENKO, T.D.; OL'SHANSKIY, M.A.; SINYAGIN, I.I.; GLUSHCHENKO, I.Ye.; VARUNTSYAN, I.S.; PRESENT, I.I.; SHCHERBINOVSKIY, N.S.; SHUNKOV, V.I.; YEVSTIGNEYEV, S.N.; BOCHEVER, A.M.; LITVIN, V.M.; YAYKOVA, A.T.; PODVOYSKIY, I.I.; SAKS, Ye.I.; KHALIFMAN, I.A.; FEYGINSON, N.I.; SHCHEGLOVA, Yu.N.; DLUGACH, G.V.; STERNIN, R.A.; LISOVSKAYA, O.V.; GUBINA, T.I.; ROZENFEL'D, M.I.; TSVETAYEVA, Ye.M.; PARKHOMENKO, Ye.V.; NEYMAN, N.F.

Sofia IAkovlevna Voitinskaia; an obituary. Agrobiologiia no.4:121 Jl-Ag '58. (MIRA 11:9)
(Voitinskaia, Sofi'ia Iakovlevna, 1898-1958)

LYSENKO, T.D., akademik

Increasing the butterfat content of milk. Agrobiologiia no.6:7-22 N-D '58. (MIRA 12:1)
(Dairy cattle breeding)

LYSENKO, T.D., akademik

Success and persistence. IUn. nat. no.7:22-23 Jl '58. (MIRA 11:9)
(Nature study)

LOBANOV, P.P.; BREZHNEV, D.D.; LYSENKO, T.D.; BORKOV, G.A.; OL'SHANSKIY, M.A.; SINYAGIN, I.I.; ALEKSASHIN, V.A.; AVDONIN, N.S.; BEREZOVA, Ye.F. SOKOLOV, N.S.; SOTNIKOV, V.P.; SMIRNOV, N.D.; KEDROV-ZIKHMAN, O.K.

Ivan Il'ich Samoilov; obituary. Dokl.Akad.sel'khoz. 23 no.11: 48 '58. (MIRA 11:12)

(Samoilov, Ivan Il'ich, 1900-1958)

LYSENKO, T.D.

Biological species and species formation. Trudy Inst. gen. 24:5-34 '58. (MIRA 11:9)

(Species)

Lysenko T. D.

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

The Problem of Heredity and Variability. Conference Held at the Institute of Genetics

ber of inherited features of androgynous offspring.

6) I. Ye. Glushchenko: New works in the field of vegetative hybridization

7) S. N. Bocharov: The obtaining of productive yeast by the method of vegetative hybridization.

8) I. A. Baryshnikov: The influence exercised by the organism of the mother on the properties of the offspring.

9) B. G. Novikov: Change of the properties of heritage of male sex cells in domestic fowls by means of an inter-racial transplantation of the testicles.

10) P. M. Sopikov, Ye. V. Tolokonnikov: On marked changes of the character of the color of the feathers in the offspring of chickens that underwent a transfusion of the blood of another species of fowls.

11) P. P.Sakharov: On inheriting immunity and the creation of highly resistant forms of argicultural animals and fowls.

12)Ye. S.Smirnov: On the connection between the inheriting of properties and the phenomenon of adaptation to new conditions of existance.

30-1-34/39

The Problem of Heredity and Variability. Conference Held at the Institute of Genetics

13) V. Ya. Yur'yev: The principal problems of wheat selection.

14) Kh. F. Kushner: On methods of utilizing heteroecism in agricultural animals and fowls.

15) Ye. Ya. Borisenko: Important problems of selection in cattle- and horse breeding.
V. A. Shchekin:
A. I. Pung:
A. S. Vsyakikh:

16) T. Ya. Zarubaylo: Valuable observations concerning the transformation of the form of summer grain to that of winter grain.

17) M. M. Kislyuk: Changes of the species of wheat under the influence of temperatures below zero on the germs.

18) N. D. Mukhin: On a successful application of the method of transformation from summer- to winter grain for the purpose of breeding new kinds of wheat.

19) P. D. Pshenichnyy: New data concerning the variability of the morphological and functional characteristic features in the case of cattle, pigs, sheep, and rabbits in dependence of their food and concerning the influence exercised by these changes on the characteristic features of

Card 3/4

30-1-34/39

The Problem of **Heredity** and Variability. Conference Held at the Institute of Genetics

their offspring.

20) V. D. Timakov: Certain rules governing the variability of pathogenic microorganisms.

21) S. N. Muromtsev: The present stage of the problems of variability of microorganisms.

22) N. S. Butarin: An attempt making creative use of the
N. V. Loginova: Mitshurin method of remote hybridization
A. I. Lopyrin: for the purpose of the selection of agri-
N. S. Gigineyshvili: cultural animals.
A. A. Rakhimov:

AVAILABLE: Library of Congress

1. **Biology** 2. **Scientific reports-USSR**

Card 4/4

LYSENKO, T.D., akademik

Biology in the service of the seven-year plan. Agrobiologiia no.2:163-170 Mr-Ap '59. (MIRA 12:6)

(Cattle breeding) (Fertilizers and manures)

LYSENKO, T., akademik; ANUCHIN, N., professor

A great scientist and pedagogue. Agrobiologiia no.2:280-281 Mr-Ap '59. (MIRA 12:6)
(Eitingen, Grigorii Romanovich, 1889-1959)

LYSENKO, T.D., akademik

Great plant breeders and followers of Michurin. Agrobiologiia no.3:323-324 My-Je '59. (MIRA 12:9)
(Plant breeding)

LYSENKO, T.D., akademik

Interrelation between biology, chemistry, and physics. Agrobiologiia no.4:484-488 Jl Ag '59. (MIRA 12:10)
(Biology) (Chemistry) (Physics)

LYSENKO, T.D., akademik

Darwinism still lives and flourishes. Agrobiologiia no.5: 647-665 S-O '59. (MIRA 13:2)
(Darwin, Charles Robert, 1809-1882)
(Biology--Philosophy)