

evil and nonsense of Lysenkoism, to revive genetics and scientific plant and animal breeding in the U.S.S.R., and to reach a high agricultural productivity in our native land.

Two distinguished Russian geneticists, Boris Astaurov and Nikolai Dubinin were elected members of the Academy of Sciences of the U.S.S.R. in July 1966.

## Announcement

### “ GENETIKA ”: A NEW RUSSIAN JOURNAL

*A new Russian journal available in English*

Translation into English of GENETIKA (U.S.S.R.) has been arranged on a continuing basis, and is available to libraries and individuals. The subscription rate is one cent per page, and the estimated price per year is \$30. Those interested in an annual subscription should submit \$30 and an adjustment will be made to conform to the one cent per page rate when the volume is completed. The first three numbers are available now and can be purchased individually for \$6.00 each for hard cover copies or \$1.50 each for microfiche. They can be ordered from Clearinghouse for Federal Scientific and Technical Information, Joint Publications Research Service, Tempo E., 6th and Adams Drive S.W., Washington, D.C.20442. Cheques should be made out to CFSTI/NBS.

Contents of Volume 1, No. 1 (1965) in the Russian original is as follows:

#### CONTENTS

	PAGE
Genetics for the nation's economic prosperity . . . . .	3
ZHEBRAK, A. R. Gregor Mendel and the laws of heredity . . . . .	6
VAVILOV, N. I. To what extent can Mendel's laws be universally applied to segregation in hybrids . . . . .	13
VAVILOV, N. I. A critical review of the present state of the genetic theory of plant and animal breeding . . . . .	20
ZHUKOVSKY, P. M. Genetic and botanical regularities in the evolution of cultivated plants . . . . .	41
DUBININ, N. P. The achievements of genetics—an aid to agriculture . . . . .	50
ALIKHANYAN, S. I. Genetics of microorganisms; advances in and prospects . . . . .	67
SUKHODOLETZ, V. V., ILYINA, T. S., and ALIKHANIAN, S. I. Genetic mapping of <i>E. coli</i> K-12 thymineless mutants . . . . .	78
ARMAN, I. P., and KUZNETSOVA, O. B. Recovery of $\nu$ - and UV-radiation induced premutational damage in yeast . . . . .	89
KAMENEVA, S. V., KALYAEVA, E. S., and ALIKHANIAN, S. I. Genetic studies of different quantitative requirements of thymine in <i>E. coli</i> K-12 thymineless mutants . . . . .	100
GOLDAT, S. YU. The role of mutagenic factors in selection <i>A. aureofaciens</i> . . . . .	106
SIDOROV, B. N., SOKOLOV, N. N., and ANDREYEV, V. S. The mutagenic effect of ethyleneimine in a series of cell generations . . . . .	112
TUPITSINA, E. M. Studies on the nature of X-ray induced somatic mosaicism in heterozygote <i>yellow</i> and <i>singed</i> females of <i>Drosophila melanogaster</i> . . . . .	123
RAPOPORT, J. A. Mutagenic effect of urethane in the gas state in presence of oxygen . . . . .	130
RAPOPORT, J. A. Mutagenic effect of large volumes of diethyl sulfate gas . . . . .	142
FILIPOVA, L. M. Genetic effect of optically active compounds . . . . .	153

	PAGE
MOKEYEVA, N. P. Generation time and duration of different phases of the cell cycle of embryonic human fibroblasts in primary tissue culture . . . . .	157
SAKHAROV, V. N., and VORONKOVA, L. N. UV-microbeam irradiation of the nucleus and cytoplasm of tissue culture in different phases of the cell-cycle . . . . .	161
IBRAGIMOV, SH. I., KOVALCHUK, R. I., and PAIZIYEV, P. A high-yielding cotton plant mutant produced by Co <sup>60</sup> gamma-irradiation . . . . .	166
MOZHAYEVA, V. S. The utilization of winter wheat radiomutants in breeding work . . . . .	173
SOLOMKO, E. A. Induced mutations of practical value in potatoes . . . . .	179
TEDORADZE, S. G. The utilization of bean and soya radiomutants in breeding work . . . . .	185

#### BOOK REVIEWS

EFROIMSON, V. P. Concerning «Genetics of bacteria» by N. N. Zhukov-Verezhnikov and A. P. Pekhov . . . . .	192
-----------------------------------------------------------------------------------------------------------	-----

#### CHRONICLE

VALEVA, S. A., and MINDLIN, S. Z. The All-Union symposium on experimental mutagenesis . . . . .	198
On the development of research works in genetics within the U.S.S.R. Academy of Sciences . . . . .	200
On the research council in genetics and selection . . . . .	202
Plans for the G. Mendel anniversary celebrations . . . . .	203

#### OUTSTANDING MEN OF GENETICS

G. G. CHETVERIKOV—prominent Soviet geneticist . . . . .	204
---------------------------------------------------------	-----