

Wellcome® Phytohaemagglutinin

To facilitate recognition of
congenital and acquired anomalies.



A mitogenic agent that helps you predict the future...today.

Wellcome Phytohaemagglutinin is a mitogenic agent that facilitates cytogenetic studies of human and other animal chromosomes.

- Predictable • Dependable • Easy-to-use

Wellcome® Phytohaemagglutinin



Wellcome Reagents Division
Burroughs Wellcome Co.
Research Triangle Park
North Carolina 27709

Receptor specific proteins

Wheat germ lectin

N-acetyl-D-glucosamine

Soybean lectin

N-acetyl-D-galactosamine

Concanavalin A

α -D-glucose

Protein A

F_c fragment of IgG₁, IgG₂ and IgG₄

Leucoagglutinin

specific leucocyte stimulation

Ask for free information literature.

Pharmacia (Great Britain) Ltd.
Paramount House, 75 Uxbridge Road,
London W5 5SS
Telephone: 01-579 0102/7



Pharmacia
Fine Chemicals

(ii)

Continued from back cover

BIRKY, C. WILLIAM, JR. and SKAVARIL, RUSSELL V. Maintenance of genetic homogeneity in systems with multiple genomes	page 249
MIYAKE, AKIO and BLEYMAN, LEA K. Gamones and mating types in the genus <i>Blepharisma</i> and their possible taxonomic application	267
PELVAT, B. and DE HALLER, G. Macronuclear DNA in <i>Stentor coeruleus</i> : a first approach to its characterization	277
BUTZEL, H. M. and MAYER, L. Effects of actinomycin D and puromycin upon excystment of <i>Didinium nasutum</i>	291
NANNEY, D. L. Calcium chloride effects on nuclear development in <i>Tetrahymena</i>	297
COLGIN-BUKOVSAN, LAURA ANN. The genetics of mating type in the ciliarian <i>Tokophyra lemnae</i>	303
CHELALA, CESAR A. and MARGOLIN, PAUL. Evidence that HT mutant strains of bacteriophage P22 retain an altered form of substrate specificity in the formation of transducing particles in <i>Salmonella typhimurium</i>	315
DICAMELLI, RALPH FRANCIS and BALBINDER, ELIAS. The association of tryptophan synthetase subunits from <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> in homologous and heterologous combinations	323
RONEN, AMIRAM and LEVINE, MYRON. Lysogenization by phage P22 carrying amber mutations in genes 12 and 18	335
PASTERNAK, J. and BARRELL, R.—Quantitation of nuclear DNA in <i>Ascaris lumbricoides</i> : DNA constancy and chromatin diminution	339
A selected list of the published writings of Tracy M. Sonneborn	349

GENETICAL RESEARCH

VOLUME 27, NUMBER 2, APRIL 1976

CONTENTS

EDITORIAL NOTE	<i>page</i> 95
CHANG, SHENG-YUNG and KUNG, CHING. Selection and analysis of a mutant <i>Paramedium tetraurelia</i> lacking behavioural response to tetraethyl-ammonium	97
RUIZ, FRANÇOISE, ADOUTTE, ANDRÉ, ROSSIGNOL, MICHÈLE and BEISSON, JANINE. Genetic analysis of morphogenetic processes in <i>Paramecium</i> . I. A mutation affecting trichocyst formation and nuclear division	109
BERGER, JAMES D. Gene expression and phenotypic change in <i>Paramecium tetraurelia</i> exconjugants	123
HIWATASHI, KOICHI and MYOHARA, KOJI. A modifier gene involved in the expression of the dominant mating type allele in <i>Paramecium caudatum</i>	135
NG, STEPHEN F. Extra cytoproct mutant in <i>Paramecium tetraurelia</i> : a genetical study	143
DILTS, JUDITH A. Covalently closed, circular DNA in kappa endosymbionts of <i>Paramecium</i>	161
AUFDERHEIDE, KARL. Synchrony of division in mass cultures of <i>Paramecium tetraurelia</i> by a selective density-labelling technique	171
KOIZUMI, SADAAKI and KOBAYASHI, SUMIKO. A study on the mate-killer toxin by microinjection in <i>Paramecium</i>	179
JONES, WARREN R. Oral morphogenesis during asexual reproduction in <i>Paramecium tetraurelia</i>	187
SUNDARAMAN, V. and HANSON, EARL D. Longitudinal microtubules and their functions during asexual reproduction in <i>Paramecium tetraurelia</i>	205
GRIMES, GARY W. Laser microbeam induction of incomplete doublets of <i>Oxytricha fallax</i>	213
PREE, JOHN R., JR Quantitative predictions of random segregation models of the ciliate macronucleus	227
NYBERG, DENNIS. Are macronuclear subunits in <i>Paramecium</i> functionally diploid?	239

Continued on inside back cover

© Cambridge University Press 1976

CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London NW1 2DB
32 East 57th Street, New York, N.Y. 10022

Printed in Great Britain at the University Printing House, Cambridge