

H
31
692
971

UNIVERSITY OF MISSOURI
AGRICULTURAL EXPERIMENT STATION

STADLER GENETICS SYMPOSIA

Volume 3

Edited by
Gordon Kimber and G.P. Rédei

A handwritten signature in black ink, appearing to read "L.J. Stadler". The signature is written in a cursive style with a large, stylized initial "L".

Columbia, Missouri 1971

STADLER GENETICS SYMPOSIA VOL. 3

G. Kimber and G. P. Rédei, Eds.

Dedicated on his 80th birthday to

DR. E. G. ANDERSON

University of Missouri, Agricultural Experiment Station

Columbia, Missouri 1971

APPRECIATION IS DUE TO RUSSELL L. LARSON
WHO, IN THE ABSENCE OF ONE OF US (G.K.), UNDERTOOK ALL
THE DETAILED PLANNING, ORGANIZATIONAL TASKS AND
ARRANGEMENTS FOR THIS SYMPOSIUM.

PREFACE

This volume contains the lectures read at the Third Stadler Genetics Symposium, on May 8, 1971 on the Columbia, Missouri Campus of the University of Missouri.

Approximately 150 local faculty and students, and guests from 17 states and foreign countries attended the weekend of formal and informal conferences.

We are very much indebted to Professor Roger L. Mitchell, Chairman of the Department of Agronomy for his encouragement in all phases of planning and arranging the programs and for providing the funds for the meeting and for the publication of these proceedings.

We are thankful to Dr. Elmer R. Kiehl, Dean of the College of Agriculture, for the moral and financial support of these Symposia since their inception in 1969.

The Symposium was introduced by Dr. R. L. Mitchell and Dean E. R. Kiehl welcomed the participants. Drs. E. R. Sears (Department of Agronomy), O. J. Koeppel (Department of Biochemistry), C. S. Gowans (Division of Biological Sciences), and A. F. Yanders (Dean of the College of Arts and Science) chaired the various sessions. Professor C. E. Brooke (Department of Pediatrics) presented the very enjoyable dinner speech which unfortunately does not appear in print.

The dinner guests were entertained by the wood-wind quintet of the Department of Music. Their presentation was a memorable high-light of the conference.

The technical arrangements of the program reflect the aptitude and enthusiastic interest of the conference coordinator, Mr. William R. Moody, and his associates, Extension Division of the University of Missouri.

Editorial assistance was provided by Mrs. Margaret Gavan, and the typing is the work of Mrs. Judy Holland.

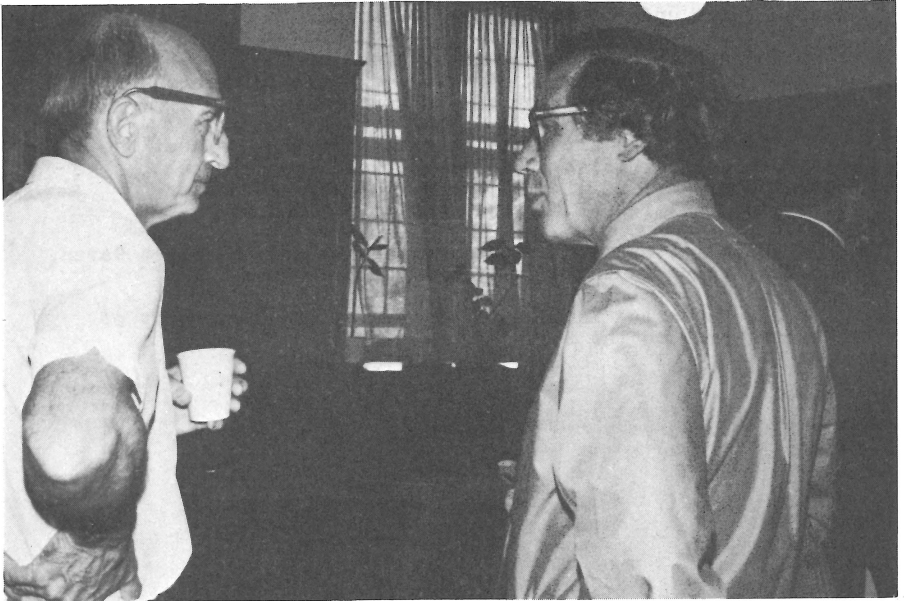
The Technical Education Services of the University of Missouri printed the text.

G. P. R.

G. K.



Dr. Roger L. Mitchell



Dr. Sears and Dr. Allard
at the reception.



A group of the participants at the 3rd Stadler Symposium.

Wallace

Thorne A. Schiff

David Schlessinger

Maxillary

Arnold H. Carson

Jerard Kervitz

Autographs of the speakers of the 3rd Stadler Genetics Symposium

C O N T E N T S

PREFACE	3
R. W. ALLARD AND A. L. KAHLER: ALLOZYME POLYMORPHISMS IN PLANT POPULATIONS	9
DAVID SCHLESSINGER: REPERTOIRE OF GENETIC CONTROL OF GENE EXPRESSION IN PROCARYOTES	25
ALLAN R. GOLDBERG AND JERARD HURWITZ: THE CATALYTIC ROLE OF RHO IN TERMINATION DURING IN VITRO DNA-DEPENDENT RNA SYNTHESIS	37
HAMPTON L. CARSON: SPECIATION AND THE FOUNDER PRINCIPLE	51
TIBOR RAJHATHY: THE ALLOPLOID MODEL IN AVENA	71
JEROME A. SCHIFF: THE INFORMATIONAL AND NUTRITIONAL REQUIREMENTS OF CELLULAR ORGANELLES	89



Mr. Bolen and Dr. Carson

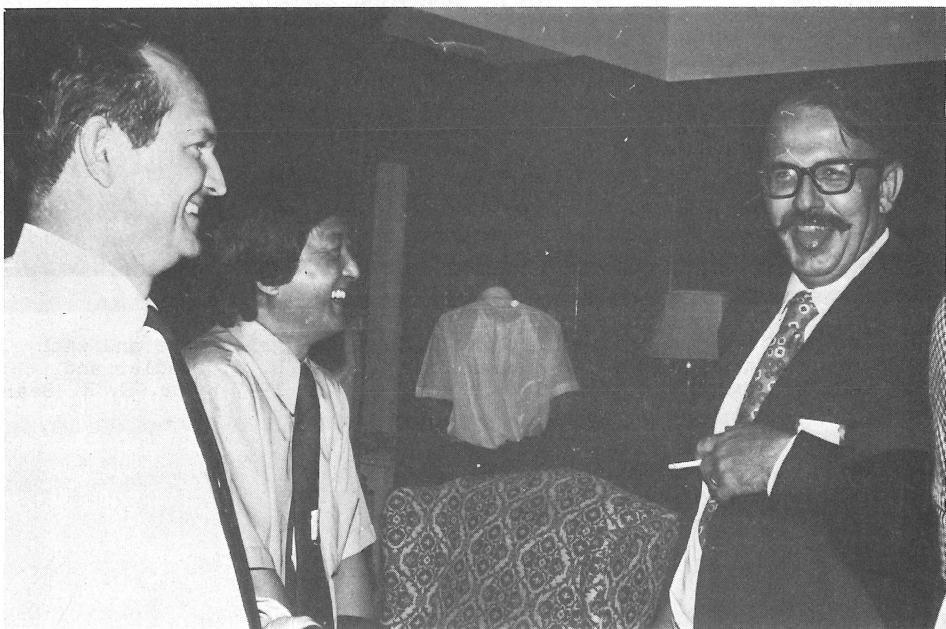


Dr. Strickberger and Dr. Muhamed





Dr. Brooke and Dr. Miles in the foyer of the Auditorium.



Dr. Driscoll, Dr. Kikudome and Dr. Doyle at the reception.



Curtis Hall, erected in 1940 by the College of Agriculture and with a grant from the Rockefeller Foundation, for Dr. L. J. Stadler and the "genetics group". This picture was taken in 1947 by Dr. E. R. Sears.

DUE	RETURNED

BOOKS MAY BE RECALLED
BEFORE THEIR DUE DATES

University of Missouri - Columbia



010-504227945

