



# LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

## The Genotype. No. 42 1958/1959

University of Wisconsin. Dept. of Genetics  
[Madison, Wisconsin]: [University of Wisconsin, College of  
Agriculture, Dept. of Genetics], 1958/1959

<https://digital.library.wisc.edu/1711.dl/6WWOCUAVCP4VX8E>

This material may be protected by copyright law (e.g., Title 17, US Code).

For information on re-use, see

<http://digital.library.wisc.edu/1711.dl/Copyright>

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

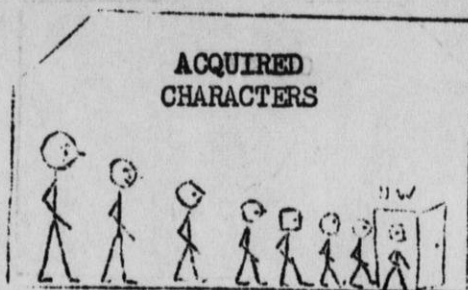
When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.



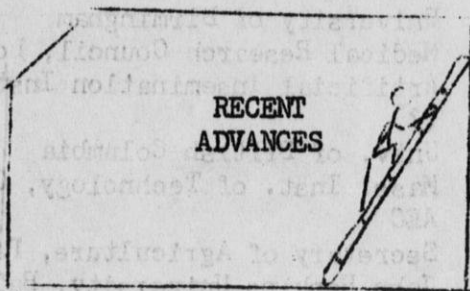


H. Kikkawa	Osaka University	Japan
Seiji Matsumura	National Institute of Genetics	Japan
Yataro Tazima	National Institute of Genetics	Japan
Y. Yamasaki	Nat. Inst. of Agricultural Sciences	Japan
Hisao Aruga	University of Tokyo	Japan
Y. Sinoto	International Christian University	Japan
Margaret Blackwood	University of Melbourne	Australia
H.N. Barber	University of Tasmania, Hobart	Tasmania
Rifat Gerek	Plant Breeding Station, Eskisehim	Turkey
J. Barbacki	University of Poznan	Poland
Guisepe Semanti	Instito Sup. Sanita (?), Rome	Italy
Guisepe Rognoni	(?) Institute of Animal Genetics, P'c'nz	Italy
C.S. Schoots	Fur Breeding Consultant	Netherlands
N. Vandorp van Vlift	University of Brussels	Belgium
J. Peruchon de Brochard	French Fur Animal Nutrition	France
Schultz-Larsen	Institute for Genetics, Copenhagen	Denmark
P. Michaelis	Max Planck Institute, Cologne	Germany
Rudorph	Max Planck Institute, Cologne	Germany
A. Lima de Faria	Institute of Genetics, Lund	Sweden
Knut Mikaelson	Institute of Genetics, Vollebek	Norway
R. Riley	Plant Breeding Institute, Cambridge	England
P.S. Hudson	Bureau of Plant Genetics, Cambridge	England
A. Allison	Nat. Inst. for Med. Research, London	England
D.G. Catcheside	University of Birmingham	England
P.H.A. Sneath	Medical Research Council, London	England
Javier Vicencio	Artificial Insemination Inst.	Chile
Hugo Guglielmetti	(?)	Chile
Vernon C. Brink	Univ. of British Columbia	Canada
Irwin Tessman	Mass. Inst. of Technology, Cambridge	Massachusetts
C.Z. Dunham	AEC	Washington, D.C.
W.L. Henning	Secretary of Agriculture, Pa.	Pennsylvania
Bentley Glass	John Hopkins University, Baltimore	Maryland
W. Szybalski	Rutgers University, New Brunswick	New Jersey
Dan Lindsley	Oak Ridge Nat. Laboratory	Tennessee
William Baker	University of Chicago	Illinois
D.W. Talmage	University of Chicago	Illinois
S.G. Bradley	University of Minnesota	Minnesota
Ralph Clark	Minneapolis Star	Minnesota
R. Pittenger	Univ. of Wis. Milwaukee	Wisconsin
E.B. Lewis	Calif. Inst. of Technology	California





Sven Sanne, MS from Royal Agricultural College, Sweden . . . . .	Shackelford
Arthur Broome, PhD from Nottingham, England. . . . .	Casida
Ernesto Rigor, from the Philippines. . . . .	Casida
Robert Bellows, MS from Montana. . . . .	Casida
Becca Patras, PhD from the University of Indiana . . . . .	Lederberg, Irwin
John and Ella Borel from Switzerland . . . . .	Stone, Irwin
Don Weseli, PhD from Ohio State University . . . . .	Stone
Martin LaBar, BA from Superior State College . . . . .	Irwin
Tom Gregg, PhD from the University of Texas. . . . .	Crow
Pierre Hart, BA from Antioch College . . . . .	Crow
Bill Resnick from the University of Wisconsin. . . . .	Crow
Norma Anderson from Wisconsin. . . . .	Crow, Morton
Karl-Hartmut v. Wangenheim, PhD from Max Planck Institute. . . . .	Cooper, Ris
Kuo-Chun Chen, MS from Virginia Polytechnic Institute. . . . .	Cooper
Margaret Blackwood, PhD from the University of Melbourne . . . . .	Brink
Joyce Schmidt. . . . .	Chapman



**PRELIMS**

- Bob Loy
- Darrell Foote
- Dwane Zimmerman
- Larry Friedman
- Willem Weyers
- Irwin Greenblatt
- Curt Bailey
- Wayne Robison
- Harold Spies

**MASTERS**

- Ann Cook
- Jerry Kermicle
- Ernesto Rigor

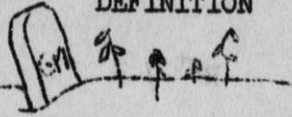
**PhD**

- Alan Richter
- R. Ashman
- Harold Spies
- Wayne Robison
- V. R. Dnyansagar



A STUDENT'S PRIMER OF  
GENETICS: PART ONE

DEFINITION



"Heredity is like when my grandfather had no children and my father had no children, I will have no children."

Courtesy Dr. Arthur Steinberg, Western Reserve University

ANIMAL BREEDING

$$\frac{\sigma^2}{X} = n\sigma^2$$

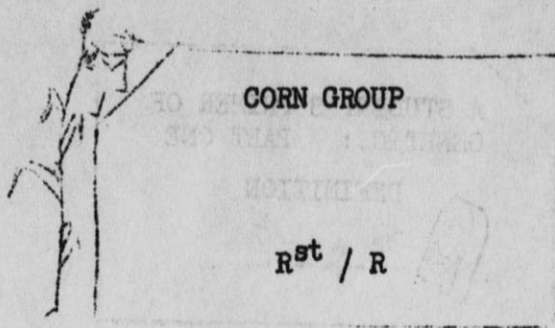
Three new associates have come to the Animal Breeding Group this past year: M.P. MI arrived last fall from Formosa. He will be doing research work in dairy cattle breeding under the supervision of Drs. Tyler and Chapman. L.L. CHRISTIAN came up from Iowa. Beef cattle will be his major field of interest. Drs. Hauser and Chapman will see that he is kept busy and doesn't stray too far from the goal of good researchers. JOYCE SCHMIDT started to work toward her MS. She will be using rats for experimental animals. Her research and study program is to be guided by Dr. Chapman.

Continuing students include JANET COYLE who is starting a study to determine radiation effects upon rats. PAUL HURT is continuing his research work with swine.

WAYNE ROBISON hopes to have everything completed by June. His major research has been the study of live animal measurements as aids in predicting carcass merit in swine. CURT BAILEY should be happily located in a job by August. His research has been the effect of crossbreeding in sheep. These two well-trained men should perform many services in the field of animal husbandry. Here's wishing them luck.

Supervisory skill has been furnished to the entire animal breeding group by Dr. Chapman in addition to his many other duties.

...Paul Hurt



The "Corn Clinic" has proved highly successful this year, with all members of the corn group and some Drosophilists participating. Discussion has hit an all time high, with several new experiments under consideration for this summer as one result. Despite the postponement of lunch on Saturday, due to the seminar, attendance has been nearly 100 percent at each meeting.

Corn geneticists of the Midwest joined in an informal conference at Allerton House (University of Illinois), Monticello, Illinois, in January. The group decided to make this an annual event at Allerton House. Because of conflicts of one kind or another only Dr. Brink and Dr. Blackwood from our group were able to attend the meeting.

DR. MARGARET BLACKWOOD from the University of Melbourne Department of Botany was a visiting researcher with the corn group from October 1958 through January 1959. While here she studied the enhancement of standard  $\underline{R}$  expression by certain translocations involving chromosome 10, that is, when she wasn't taking care of the Lederbergs' cat. She is spending six months in Dr. Catcheside's lab in England before returning to Australia. She left knowing that she would always have a place in our ear-nailing program!

KEN McWHIRTER from Australia is studying the paramutagenic action of self-colored mutants from Stippled and Light Stippled. After nine months here he has become a little more accustomed to the food, and reports that he is only infrequently asked now to repeat what he has said. Still enjoys beating his wife--at chess of course.

ELWIN ORTON is studying back mutations of  $\underline{P}^{R^R}$  to  $\underline{P}^{V^V}$  and is investigating possible position effects of transposed Modulator on the expression and stability of the  $\underline{P}^{R^R}$  gene in maize.

IRWIN GREENBLATT is now writing his thesis on studies of two mutable loci: Variegated Pericarp with Modulator as the basis of instability, and Diffuse with ??? as the basis of instability.

The subsequent changes in  $\underline{R}^{r:st}$ , the modified  $\underline{R}^r$  arising from  $\underline{R}^r \underline{R}^{st}$  heterozygotes, is being studied by JERRY KERMICLE. In this study the pigment-producing potential of  $\underline{R}^{r:st}$  is to be determined in a variety of  $\underline{R}$  heterozygotes, and in hemizygotes against  $\underline{R}$ -deficiencies.

H.B. COOPER is studying the effects of  $\underline{r}^G$ ,  $\underline{r}^r$  (mutants from  $\underline{R}^r$ ) and  $\underline{r}^r$  (standard allele) on  $\underline{R}^{r:st}$  in respect to restoring the  $\underline{R}^{r:st}$  toward the normal pigment-producing action of standard  $\underline{R}^r$ . First and second generations of reversion were tested in 1958, and are being scored.



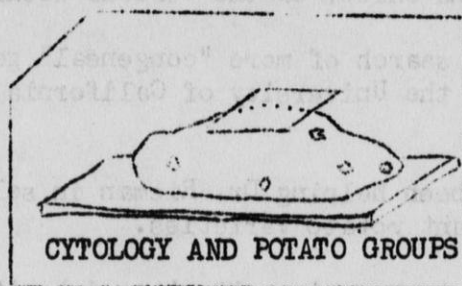
WILLEM WEYERS, who recently passed his prelims, is continuing his studies on the paramutagenic action of marbled and its derivatives. Preliminary data suggest that marbled itself undergoes a change in  $R^{mb}$   $R^{st}$  heterozygotes.

DOUG BROWN has begun a study of paramutation of mutant  $R^G$  alleles from standard  $R^I$ , and of a possible secondary change of  $R$  alleles induced by  $R^{Ist}$ .

BRUCE ASHMAN has completed his Ph.D. research on light stippled aleurone ( $R^{st}$ ). He will leave in May for Purdue where he will do breeding work with popcorn and continue studies on paramutation.

DR. BERNARD MIKULA still supplies stimulus for discussion in the corn lab while working as Dr. Brink's assistant.

...Mickey Greenblatt



Hybridization of the cytology and potato labs has resulted from the interaction of students participating in both, or more accurately, superimposing cytological studies on Solanum research. Traffic in and out of Dr. D. C. COOPER'S office is as heavy as always. Colleagues and students find him ever ready to give constructive assistance although his researches on apomictic Hieracium and albinism must then sustain a temporary interruption. DR. RIEMAN was busy in breeding and selection of new potato varieties resistant to scab and potato virus X, and on studies of inbreeding. Of late he is concentrating on the genetics of diploid S. tuberosum as well, and has techniques to spot "diploids" in seedlings raised from known crosses. He is co-author with Dr. Cooper on a paper on diploid S. tuberosum. Another contribution from potato lab has been the paper on mychrreza by Frank Claver.

A noticeable gap resulted in the inner office of the cytology lab when DR. "MAC" MAGOON left for India the first of the year after completing a series of papers with Drs. Cooper and Hougas on the cytogenetics of tuber-bearing Solanums.

DR. V. R. "SUGAR" DYNANSAGAR has completed his study on the seed development in Solanum phureja Juz. et Buk, and is preparing a paper on the work for publication. He is presently doing cytogenetic studies as well as studying



the effects of various herbicides, auxins, and anther tapetal extract on mitosis of tuber-sprout meristems.

DR. KARL-HARTMUT V. WANGENHEIM has come to the group from the Max Planck Institut with an interest in the cytogenetics of Solanums and the role of endosperm in seed failure. He is presently tending the electron microscope while working with Dr. Ris.

FUMIJI "JUDO" KITA is working on the cytogenetics of the genus Melilotus under Drs. Cooper and Smith. He expects to return to Japan in the fall.

HUGO GUGLIELMETTI who came from Chile under TCM was a jovial addition to the potato camp during the summer semester. Quiet and hardworking, Hugo left for the University of Michigan to complete his training.

LOU REEVE finalized plans to establish business. He left in May and has started as proprietor and editor of the Osceola weekly Sun.

MAHAMMAD YAKUB, in search of more "congeneal" genes, left the department after summer school for the University of California. He found potatoes hard to boil.

DON KICHEFSKI had been helping Dr. Rieman in selection of promising high yielding disease-resistant potato varieties.

CHARLIE CUNNINGHAM is busy investigating inheritance of potato chip quality. Lot of chips to admire but none to eat. We saw his show packages in the recent potato conference.

PAO MIN "PO'LIN" TSENG joined the genotypes of Potato from Pintung Sugarcane Breeding Station, Taiwan in October 1958. Sugary genes of "Noble" sugarcane seems to have found compatibility in "Starchy" potato. She is working on genetics of diploid S. tuberosum.

VERA RICHARDS has replaced Lou to take care of the potatoes. She was a professional public health nurse and worked at the Hospitals at Rochester and the University of Michigan. Now she has started to love nursing potatoes.

HARI KISHORE is busy with his study on the inheritance of immunity to virus X in potato. He is looking forward to testing a large population of seedlings in an F2 population.

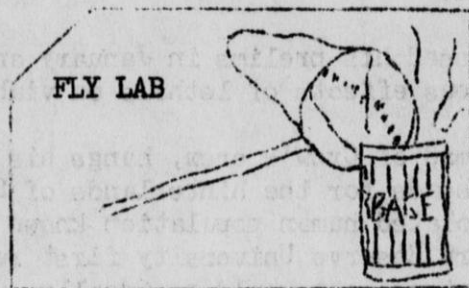
KUO-CHUN CHEN joined the Sturgeon Bay group last June. Chen received his B.S. from National Taiwan University and did research on cytology of sugar cane and its relatives. He received his M.S. from V.P.I. with work on genetic resistance in barley. He is now probing the potentialities of aneuploidy in Solanum.

The joint efforts of DRS. HOUGAS and PELOQUIN have furthered and expanded their work on the genetics of the potato which has resulted in several papers. Their haploid studies seem particularly promising. Aiding students and hustling to meetings are frequent interruptions in their busy research program.

JIM "HOLLY" HOLLENBACK is continuing his in vitro X studies on seed failure in interspecific crosses.

Although potato seminar had a late start, the enthusiastic discussions have made up for lost time. Loaded guns are the order of the day.

...Jim Hollenback and Hari Kishore



DR. CROW, when not flitting about the country exuding geniality and genetic information or advice, can be found almost any hour of day or night at Genetics. With teaching, research, committee meetings, coffee-klatching and playing with newly acquired office equipment (electric typewriter, dictaphone, thermofax) he manages to keep busy. Of late, he has even been dabbling in the field of communications: testifying before a Senate subcommittee on radiation, he was quoted by newspapers and radio; as advisor for a TV program being prepared on genetics, he makes occasional trips to Hollywood; and now he's an honest-to-goodness movie star--as a lecturer for a filmed series on genetics for college consumption.

With NEWT MORTON, he is now trying to stock the Medical Genetics Department with some eminent geneticists. Although candidates haven't as yet been eagerly flocking to the Mecca, there are a few likely prospects. His genetics staff seems to be expanding almost exponentially (logarithmically if you're a bacteriologist), and has spilled over into the lab vacated by Dr. Lederberg. There, a bottomless coffeepot graces a countertop. At this consecrated spot all Drosophilists gather in a circle, like pilgrims about to idol coffee generator, for midmorning and midafternoon devotions--periods of conversation and laughter. Newt (tanned and resplendent in sport shirt) returned with his family from a six-month sojourn in Hawaii, where he went ostensibly to study interracial crosses. Now, aided by a bevy of assistants (MRS. NEWT, NANCY JONES, and HANNAH LENNIG), he is undertaking a population study of lethal equivalents in Drosophila. Every afternoon he dons bow tie, white coat and bedside manner and strolls over to the diagnostic center to interview and extract pedigrees from muscular dystrophy patients.

YUICHIRO HIRAIZUMI (known popularly and pronouncably as YEECH), having passed the 2,000,000 mark in flycounting, is aiming for the next million as analysis of segregation-distortion (SD) continues. He recently took off



from researching to meander through California and other parts of the West en route to Seattle where he met his wife and son on their arrival from Japan.

Last September, LARRY SANDLER almost succumbed to the trauma of becoming a father for the first time. However, he finally pulled himself together and returned to cytogenetics. The analysis of SD, with its newfound properties of conversion, keeps him abundantly amused and occupied. IRIS SANDLER, temporarily retired from research in favor of raising a family, is already thoroughly domesticated.

LARRY FRIEDMAN passed his prelims in January and is polishing off his study of the heterozygous effects of lethals on viability and longevity.

ART MANGE, the nomad of Crow's crew, hangs his hat here from February through June and then heads for the hinterlands of South Dakota and Manitoba. There he studies an isolated human population known as the Hutterites. Dr. Steinberg of Western Reserve University first recognized that this communally-living religious sect would be ideally suited to the study of human genetics, and enlisted Arthur as his right-hand man. While in Madison, Art is boning up on statistics and producing "objets d'art".

RAYLA FISHER GREENBERG is engaged in a detailed analysis of detrimental isolated from wild populations of "flute fries" trying to determine their relative contribution to the genetic load. While minding her p's and q's one day she came up with a clever algebraic formulation related to this problem. Come September, she will head for the Scottish Highlands--as a Fulbright scholar--to research with Charlotte Auerbach at the Institute of Genetics in Edinburgh. Already she is planning vacation itineraries through the British Isles and the Continent.

ELAINE JOHANSEN has retired from teaching in the zoology department, and is undertaking a study of some SD chromosomes recently picked up in the wilds of Madison. She will also be testing for the presence of segregation-distortion in wild populations from elsewhere in the States and from other parts of the world. She is presently looking for someone looking for a worthy project (i.e., a round-the-world collecting project) to support. Any leads will be appreciated.

On a postdoctoral grant, TOM GREGG is studying the cytogenetics of Drosophila heidii. After receiving a Ph.D. under Dr. Stone of the University of Texas last year, he migrated with wife, child, puppy and possessions to Madison. A second daughter was born here last fall.

PIERRE HART, also a newcomer with a cytogenetic bend, received his B.A. from Antioch College in '57, and last year studied in Copenhagen as a Fulbright scholar. His mind wasn't constantly on the books, however; while in Scandinavia he met and married a Finnish beauty. This year a Woodrow Wilson scholar, he is taking umpteen courses and trying to track down the elusive nature of the interchromosomal effect.

BILL RESNICK, an undergraduate is a new convert to genetics. An outstanding student in genetics 106 last fall, he was invited to join the ranks and is presently investigating a stock of flies which gives an aberrant sex ratio.

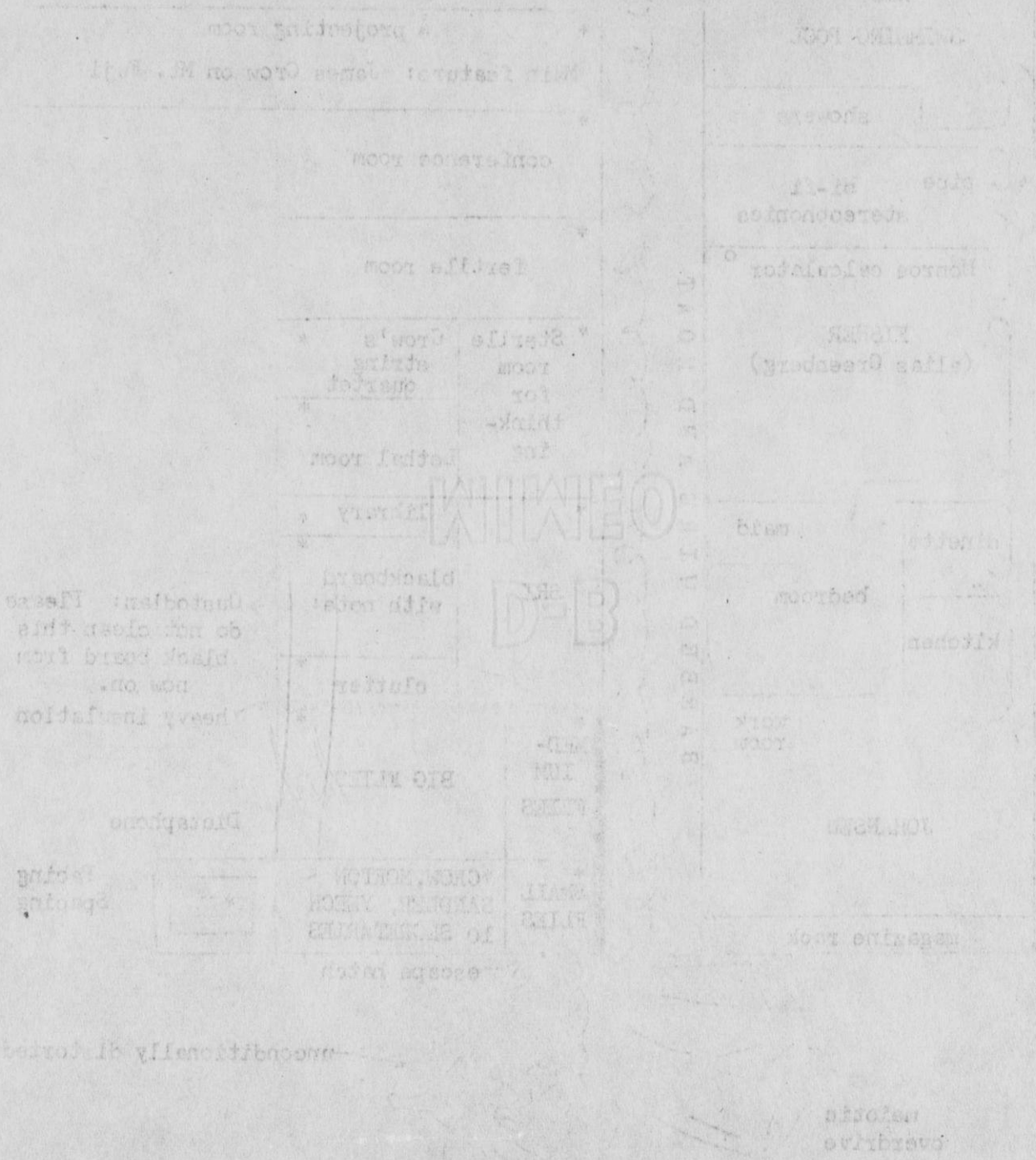


NORMA ANDERSON, another fugitive from Genetics 106, will undertake a study of the prune locus in *Drosophila*.

Petite MINEKE DOORMAN is doing a very colorful experiment which involves the comparison of egg hatchability from matings of unrelated flies with that from matings of closely related flies. She and her husband will return to Holland in the fall.

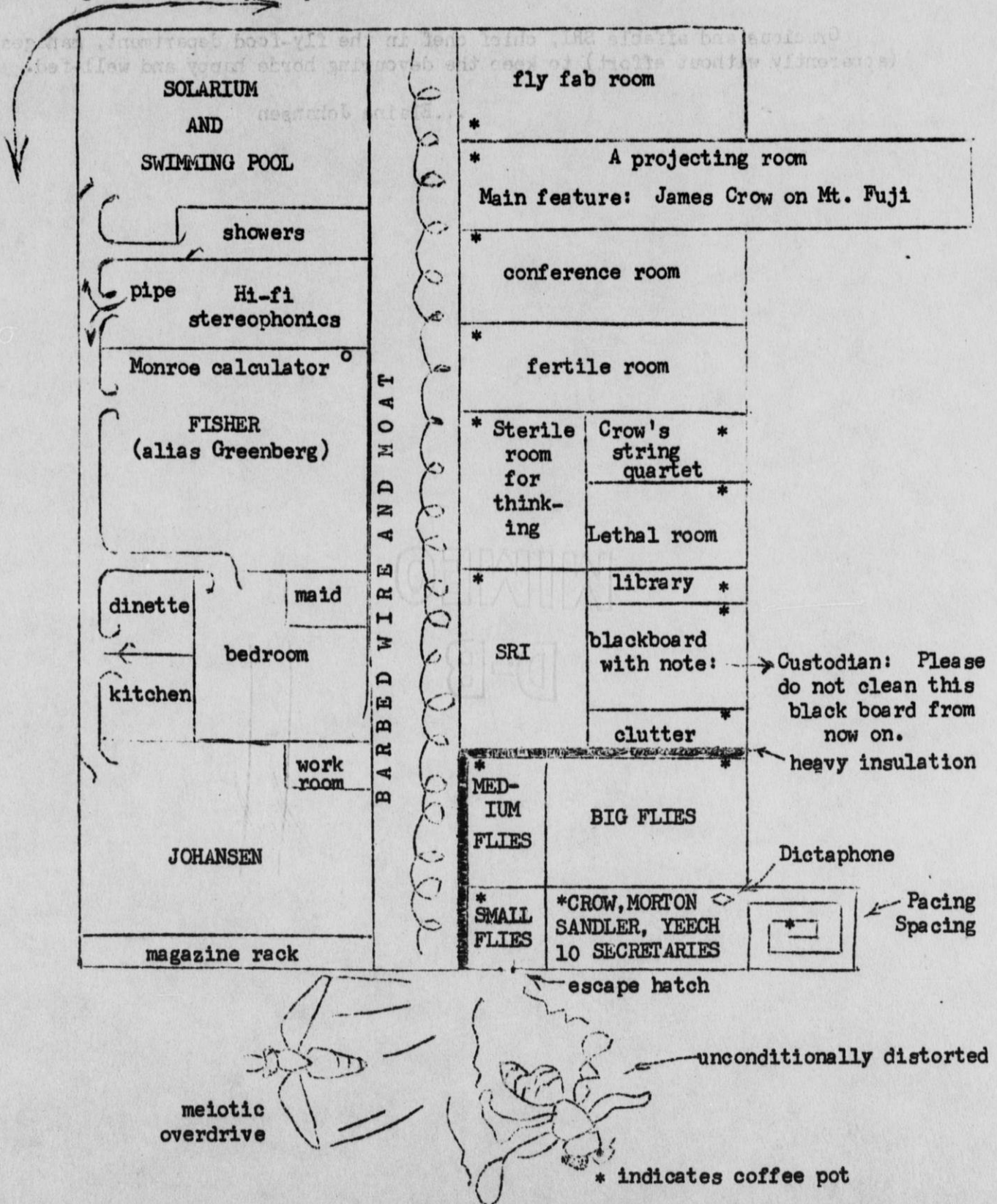
Gracious and affable SRI, chief chef in the fly-food department, manages (apparently without effort) to keep the devouring horde happy and well-fed.

...Elaine Johansen

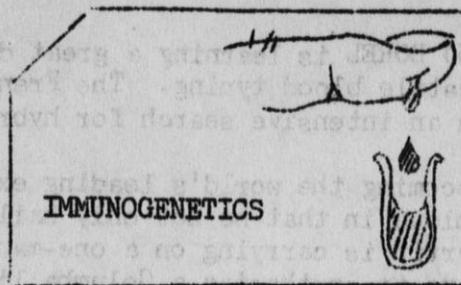


While Dr. Crow and Larry Sandler were busily occupied with planning and replanning the floor layout of the medical genetics section of the new hospital addition, the following suggestions were proposed by Johansen and R. Fisher (alias Greenberg):

flower garden and bicycle path







ALEX BEDNEKOFF of biochemistry wanders in and out running large inhibition tests with serum J-substance. The mad Russian has determined a similarity to the alpha globulins of serum glycoprotein.

DR. BECCA PATRAS, fellow fugitive from the realms of Biochemistry, but from Indiana, arrived this fall. She was racking her brains trying to establish a fool-proof system for demonstrating differential antibody production in individual cells, but turned instead to studies of cattle stroma.

DR. GUISEPPE ROGNONI (PEPPINO) was here for a brief visit, during which time he acquainted himself with the cattle blood group work. The Italian gentleman was a rare bird: he didn't like coffee.

MIKE CONNEALLY is having some slight difficulties in proving the maxims about the ability of rabbits to reproduce. In the absence of Dr. Morton, Mike changed his immediate research from statistical applications to immunofertility studies. The wild Irishman is looking forward to his M.S. We are not sure how far forward, though.

MRS. MARY JOAN OLSEN MUELLER, as the name indicates, has acquired herself a male serologist, from zoology, in the person of Augie. We assume, however, that they do not always discuss Smithies tests over the breakfast table.

JANIS BECKSTROM, in addition to doing a great deal of work for Dr. Stone and Alex, consumes gallons of coffee. She may often be seen boiling saliva over a water bath for her "spit tests".

MRS. ELLA BOREL runs between the Barn and the Lab. She has the unenviable task of trying to keep track of all the doves. Our Swiss girl is Dr. Irwin's right-hand man, and we are sure he wonders how he will get along without her. She also stuffs John with sandwiches.

DON SHAW is trying to gather all his research together and put himself in a position to leave. We hope. We understand that he is engaged in a Philological study of Teutonic languages. He has proved his worth as a culinary artist time and again, but it is his work with the pigeon irradiations and bone marrow transplants which threatens to make him famous.

DR. IRWIN is busy as chairman of the department, and somehow finds time to oversee the dove colony. He frequently sends Ella and Martin into furious fits of activity. Current research is directed largely toward making homozygotes for the known characters, isolating the contrasting characters in ring-dove, and putting characters from more than one species into the same bird.



JEAN-FRANCIS (JOHN) BOREL is learning a great deal about the United States and quite a bit about cattle blood typing. The French-Swiss member of Borel and Borel is engaged in an intensive search for hybrid substances in cattle.

MARTIN LABAR is becoming the world's leading expert on sex in doves. This fall arrival is unique in that he not only hails from the United States, but from Wisconsin. Martin is carrying on a one-man war with the Gillette company and is attempting to synthesize a Columba livia x Columba guinea hybrid, in doves it seems.

DR. BILL STONE is busy guiding the research of Mike, Surinder, John and Alex, and anyone else who wanders in, even himself. Current studies involve saliva J in cattle, and a fairly vast human-into-cattle immunization project. Bill taught Genetics 6 as a separate course, and we understand he did quite well. More recently, he lectured in the University's course in "Contemporary Trends".

SURINDER DATTA is checking for different antigenic strengths of the same antigen in different phenogroups. He is also keeping a 24-hour watch on the building, we understand. Our Indian friend received a master's this spring.

JOE SHAKELMAN, our noble dishwasher, has left us for a job as a newspaper advertiser in Marinette. He has been replaced by JIM ARTHUR, another journalist, a hardworking lad from Virginia.

GERTRAUD TEMPLIN spent a semester writing up reams of IBM sheets for Mike. She has taken her industrious atmosphere to Waverly, Iowa.

DR. DON WESELI, a March arrival, is the boy genius who is fated to revive the Ohio State blood typing lab. This one learns fast. He had been here scarcely a week when he learned not to leave the coffee pot after making it, if you want any. We wish him luck.

...Martin LaBar



THIS is a non-secretor type tear.

The blood lab prepared a farewell party for dishwasher Joe Shackelman. Part of the festivities were to be presents, presented with this poem, as reminders:

Farewell to dear dishwasher Joe,  
We're awful glad to see him go,  
Our tears will never cease to flow.

....  
He never got in bad with Bill,  
No matter how much time he'd kill,  
Each month he went home with the till.

...  
So farewell, Joe, from all us boobs,  
And many thanks for washing tubes.

Our hero neglected to report on the last day of his employment, unfortunately,  
so we had to consume the spoils in solitude:

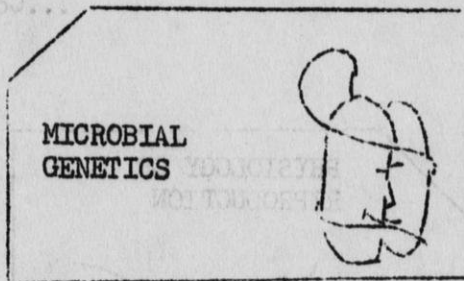
Your party, Joe, we much enjoyed,  
Till Dr. Irwin, quite annoyed,  
Without you said 'twas slightly void.

With Celluwipes we tried to dry,  
Each teardrop falling from our eye,  
And ate up all the cake and pie.

We then dispatched this missive with Joe's present (a pen) and shortly got  
the following reply:

...  
For these friendships then, thanks one and all,  
And thanks for the memories large and small,  
Thanks too for the goodbye party, I heard it was a ball.

Most of all, many thanks for now I no longer pout  
When writing ads for Mrs. Hasenfuss's sauerkraut,  
Because now I've got a snorkel pen to help me out.



If you'll think back a little, you'll remember that not too long ago  
part of the present fly lab was occupied by a number of microbial geneticists.  
These have now all been scattered to new loci, some still on the Madison  
chromosome and others to completely different linkage groups.



During the year JOSH and ESTHER LEDERBERG upheld their reputations as world travelers with a trip to Europe in the summer and another to Sweden in the fall. This latter was by no means just an ordinary tour since Josh came back with a NOBEL PRIZE. Needless to say, this event was the highlight of the year and a source of delight and excitement to all. After their return from Sweden the Lederbergs set about organizing and executing the mass-move to Stanford University in California where they will continue their work.

ANN COOK managed to get her lac-recon paper dolls under control in time to finish her Master's degree. She then followed the Lederbergs to California, roughing it all the way. HIROTA, who has been studying the effect of acridine dyes on the F-factor, also followed--in a Greyhound bus.

ALAN RICHTER finished his Ph.D. thesis on the F-state in K-12 before the exodus took place. He departed immediately for the west, too, but not to remain there. To avoid work, he recently volunteered for the draft.

In October, CONNIE THOMAS returned to the bacteriology department and was capably replaced as "HOL" (Head of Lab.) by ILGA WINICOV. Ilga has now gone back to bacteriology also. KITTY DUNN, Esther's right-hand girl, continued in this capacity to the very feverish end, helping to stuff the many boxes and cartons which carried the lab to California.

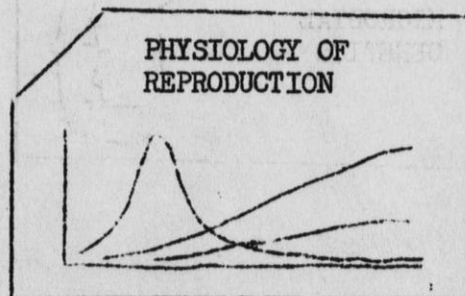
JACKIE KELLY (you remember St. Clair) has taken up a position in McArdle Lab after honeymooning with Joe (Kelly, of course) in Florida.

From Vet. Science come reports that RUTH KORMAN is still on the trail of transduction by Staph. phages after her return from Elmira College.

During the fall, DR. KUNISKI-GOLDFINGER from Poland spent several weeks working in the lab, and DR. PETER SNEATH from the National Institute for Medical Research in London and his family were with us for a couple of months before journeying west to join the Stanford-ho crowd.

And now that this wholesale translocation of the microbial genetics lab has taken place, all we can say is that we hope the new positions will produce happy effects on every transduced fragment.

...Connie Thomas



Four members of the lab are in the process of diverting most of their energy to writing a thesis. HAROLD SPIES hopes to finish in June; his thesis will be on embryonic mortality and factors affecting corpus luteum maintenance in swine.



Within a period of three days, three members of our group passed their prelims. The target date for these three is August. DARRELL FOOTE is trying to finish studies on the influence of maternal genital environment on reproduction in cattle for his thesis material. BOB LOY studied the effect of gonadal hormones on the corpus luteum in cattle and sources of variation in progesterone content of corpora lutea in swine. Bob then intends to head West, specifically to California, upon the completion of his work here. DWANE ZIMMERMAN is working on his thesis concerned with the ovulation rate and embryo survival in gilts.

STAN MARES and ALAN MENGE have been studying the effects of sire line and system of mating on the various postpartum phenomena in dairy cattle of the Blaine Herd at Lake Mills. In addition, each has a separate experiment with rabbits. BOB ZIMBELMAN is comparing corpora lutea from dairy heifers at various stages of early pregnancy. The factors being studied are weight, histological appearance, and content of progesterone, cholesterol and nucleic acids.

Three members of the lab have joined us within the past year. ARTHUR BROOME came to Wisconsin on a one-year postdoctoral fellowship after completing a Ph.D. degree at Nottingham University, England. He reports having an enjoyable time continuing here with studies on the uterine defence problem in rabbits, and is working quite closely with Alex Winter of Vet. Science. He and Mrs. Broome hope to see more of America before returning to England this coming July.

ROBERT BELLOWS came from Montana and is currently studying the effect of level and sequence feeding on ovulation rate, embryo survival, and fetal development in the mature ewe. ERNESTO RIGOR, whose home is in the Philippines, joined us last fall to work on certain reproductive characteristics of swine. Both report that they find their project work and the graduate program very interesting.

DR. CASIDA continues to help all of us keep our heads above water. One special project has been to acquire a chemistry desk for our room at the new Genetics Research Lab, better known as the Barn. This has been a very welcome improvement for those whose studies include chemical analysis.

...Bob Zimbelman



The work in the Fur Animal Research Lab is continuing along the same lines as in previous years. DR. SHACKELFORD is working on gene linkages

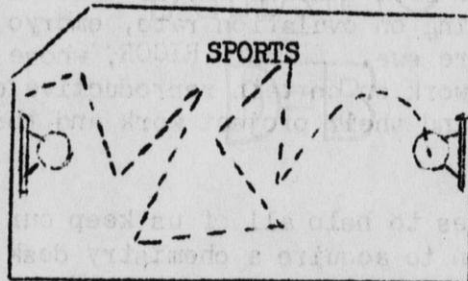
in the mink but has also started a study on the inheritance of the "Aleutian Disease" syndrome which is associated with the gene for aleutian color type. The expression of this syndrome is an overall reduced viability and productivity, and particularly an increased susceptibility to bacterial infections.

We have a new member in our group in the person of SVEN SANNE who is here from Sweden to work with Dr. Shackelford until this coming September. Sven got his "agronomexamin" at the Royal Agriculture College of Sweden and his M.S. in Nutrition at Cornell under Dr. Hill. He is now assistant secretary of the National Fur Breeders Association of Sweden and is here in our laboratory to familiarize himself with some of our practices in fur farming. He is at the present time collecting and analyzing data on growth and development of the mink kit.

BOB COCHRANE is finishing up his studies on the delayed implantation phenomenon in the mink, marten, and rat, and hopes to receive his Ph.D. in August.

STEPHANIE MARTEN, the project's mascot, has been working rather hard on the problem of how to be cute and useful and thus save her skin (literally). So far she seems to be succeeding.

...Bob Cochrane



The Genetics basketball team won second place honors in their respective Grad Science League and third place in the playoffs between the two leagues with a record of 5 victories and 2 defeats. The total points the team lost those two games by were only two, and we later beat Entomology, victor over us in league play, by two points in a scrimmage.

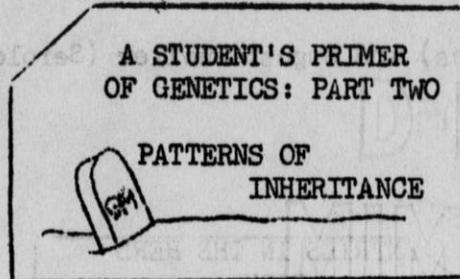
One of our accomplishments was that we could run the length of the court at least twice without being exhausted by the time the season ended. The team was composed of graduate men in the department. With all of their academic degrees, none of the members, unfortunately, had a BB (basketball) degree.

Members of the 58-59 team were: Stan Mares, Harold Spies, Bob Zimbelman, Bob Bellows, Bob Cochrane, Martin LaBar, Wayne Robison, Paul Hurt, Lauren Christian, Jerry Kermicle, and Captain Al Menge. Almost all return next year.



Flash: The Genetics softball team, composed of all those above listed save Bob Cochrane, and also of Tom Gregg, Larry Friedman and H. B. Cooper, was undefeated this spring, including 2 playoff games. All players received little medals from the intramural athletics people in commemoration.

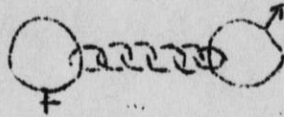
...Al Menge



It bothers me that the carpenter's boy  
Seldom plays with a wooden toy.  
That the son of a shoemaker has no shoes,  
And the gambler's son has nothing to lose.  
The sailor's son sits under a tree,  
While the farmer's son goes off to sea.  
The doctor's son has a cold in his head,  
The psychiatrist's son? He wets his bed.  
The writer's son can hardly spell,  
And the minister's son is headed for hell.  
While the millionaire's son is filthy rich,  
And the son of a bitch is a son of a bitch.

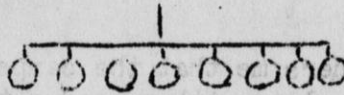
...Beatrice Allen (Reprinted  
from the Journal of Heredity)

**SEX LINKAGE**



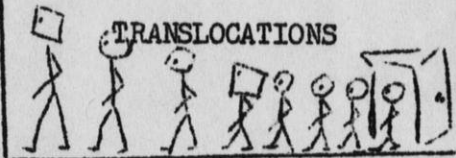
Joan Olsen (Immunogenetics) and August Mueller (Serology)

**ENTRIES IN THE HERD BOOK**



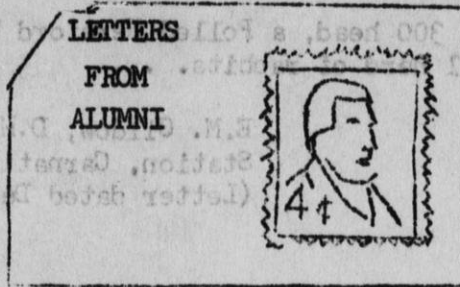
Tom--Gregg--Judy	Larry--Sandler--Iris	Bernie--Mikula--Betty
Kim	Jack	Catherine Anne
October 4, 1958	September 19, 1958	March 31, 1958
	Curtiss--Bailey--Mary	
	Liza Marie	
	June 27, 1958	

**TRANSLOCATIONS**



Members of the Bacterial Genetics Laboratory to various places (see page 13)  
 Dr. M. L. Magoon to India  
 Lou Reeve to Osceola, Wisconsin  
 Mohammed Yaqob to the University of California  
 R. B. Ashman to Purdue University





A number of letters have been received in reference to last year's GENOTYPE. Exerpts from these are printed here for the interest of others.

Dear Dr. Irwin:

May I take this opportunity to thank you for the past copy of "THE GENOTYPE" forwarded. Through it we no longer residing at Wisconsin have an unusual opportunity to keep in touch with the activity of the department and its members. From this report the department has reason to feel proud of its accomplishments. ...

M.A. Sprague, Chairman, Department of  
Farm Crops, Rutgers University,  
New Brunswick, New Jersey  
(Letter dated October 17, 1958)

Dear Editor:

I have just read through the most recent edition of the Genotype and as always it is good to renew the acquaintances with the department. Ordinarily I read rather carefully the various sections and enjoy it thoroughly.

I came to Michigan State University some two and a half years ago where I am serving as head of the Department of Microbiology and Public Health and also Director of the Division of Biological Science. As a result, I have strayed away from the work in the immuno-genetics, but I do still follow very closely the work of Dr. Irwin and his group there as well as others in the field. ...

L.C. Ferguson, Head, Department of  
Microbiology and Public Health,  
Michigan State University, East Lansing,  
Michigan  
(Letter dated November 12, 1958)

Dear Editor:

I regularly receive the copies of "THE GENOTYPE" and always read it from cover to cover. Since we are operating a livestock farm with many species of animals involved, we are always interested in anything that the Genetics Department ... is doing in that field.

We operate a cattery with some 50 cats, a kennel with about 100 dogs, a

Holstein breeding herd of 300 head, a Polled Hereford breeding herd of some 200 head, and have a small herd of rabbits. ...

E.M. Gildow, D.M.V., Albers Research  
Station, Carnation, Washington  
(Letter dated December 13, 1958)

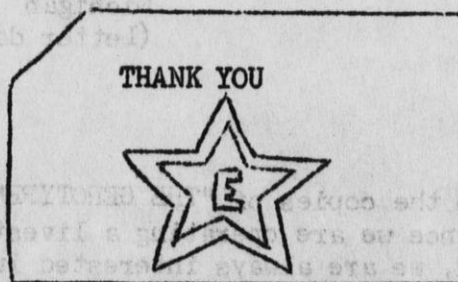
Dear Editor:

Number 41 of "THE GENOTYPE" came to me several weeks ago. I was and am much pleased with the write up by Don Shaw of my activities since leaving the U. of Wis. in 1921. Thank you both for this recognition. ...

Finding myself without family responsibilities I decided to carry out a family plan, namely I gave 300 acres of this my ancestral farm to Michigan State University in November of 1956. This was followed in early 1957 by a similar donation of land by the widow of John Dodge of the Dodge car. But she gave two million dollars as well. This meant that the building of a "sister" institution, I mean University, could take place at once. So we in Oakland County and especially in Avon Township, with our village of Rochester as the nearest town, are building a new University. The new University, M.S.U.--O., is, of course, located on the Dodge property. I assure you that this is a very exciting situation. I can not at this juncture say just what my acreage may be used for, but plans are "a-foot" and I may be able in the future to tell more of the educational development of Van Hoosen Farm.

My contacts with the Dept. of Genetics are mainly two: One is with C.M. Woodworth and wife Anna Bell Woodworth. In my days at the U. Mrs. Woodworth was Dr. Cole's secretary. Furthermore she took dictation when I described pigeons twice a year. Woodworth took his Ph.D. I believe the year before I did. My second contact is P.H. Senn of the University of Florida at Gainesville. ...

Sarah Van Hoosen Jones  
1005 Romeo Road  
Rochester, Michigan  
(Letter dated December 20, 1958)



The editors wish to thank the many people who wrote reports on the activities of the various groups of the Department. Special thanks are due Shirley Coyier, Laura Mae Bellows and Joan Weidenfeller who spent considerable time in mimeographing and mailing THE GENOTYPE.