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# GENOTYPE

## 1963

The new Genetics Building, directly across from the old building.

DEPARTMENT OF GENETICS — UNIVERSITY OF WISCONSIN

## FROM THE EDITOR'S DESK

We regret that each and every one of you was not able to return to Madison on April 26 for the Dedication Lecture by Dr. Ray D. Owen for our new building, and the Open House the following day.

Dr. Owen traced the history of genetics from the publication of the Mendelian principles in 1866 to the present many-faceted field, as well as the history of our own department here at the University of Wisconsin and its scientific contributions. He warned of the threatened fragmentation of the science into many "specialities" and held forth the hope that the new building, housing all projects together, would serve as an implement of better integration.

Visitors to the laboratories at Open House saw exhibits of the labors of the various project groups. Since that time, our researchers have been trying to meet the challenge of the improved facilities.

We were happy to receive letters from some of the alumni, which you will find published in this issue. We hope that more of you will contribute and, for your convenience, you will find enclosed once more the handy form letter.

ISSUE 46 - 1963

# M E D I C A L  G E N E T I C S

Dr. DeMars, this summer, gave a brief tissue culture course covering cells and sex chromosomes, known around the department as "cell school". Presently, his research is concentrated on the glucose-6-phosphate dehydrogenase (G6PD) marker hoping to study the inactivation and control mechanisms of gene expression on the human sex chromosome.

Jerry Gorman finished her thesis, and in September she and her husband, John (from Bacteriology), left for Paris on post-doctoral fellowships. Jim Russell, having abandoned his phage work, has turned to tissue cultures, hoping to find a way to isolate X-chromosomes. Also, he will study the five variants of G6PD.

Nancy Voynow, a transfer from Zoology, has begun a project on the time during a generation cycle when the typical Barr Body is formed and whether or not it is "pre-replicated". Fred Fitschen, from Bacteriology, is also working on the problem of "cells and sex". His project is primarily concerned with the mutation rate (non-disjunction) of cells in culture.

Dr. Smithies took part in a symposium at the XI International Congress of Genetics at the Hague this fall. Upon his return, he has continued work on the genetic control of human gamma globulin variation and the significance of chromosomal rearrangements in man. Dr. Smithies has taken up flying recently and when not in the lab, he can be found up in the air somewhere.

Dr. Nance is off to Hawaii to analyze the data from the nearly completed B razilian study. After completion of the study, he will accept the position of assistant professor of Medicine and Director of the Division of Genetics at Vanderbilt University Medical School in Nashville, Tennessee. Dr. Nance has been working on genetic variants of human red cell enzymes and genetic control of hemoglobin synthesis among other things. This past spring, he was awarded a Markle scholarship.

Lynn Flory, in her usual manner, was unaware in July that she had received her M.S. in June. She will continue work on her Ph.D. in Cambridge, England on an NIH scholarship. Robert Coifman will be doing some work on gene action at the A-C-S locus of human hemoglobin while continuing his studies for an M.D. and Ph.D. His interests will carry him to Africa, where instead of the usual chime of wedding bells, bongo drums will sound in the future for Bob.

Michael Sung, our adopted member from the radiology department, seems to be a member of every department in medical school. He is working on histones in rat tumors for his M.S. Medical school is his next goal. Dr. Edwin Azen is working in conjunction with the Department of Hematology on red blood cell stroma. He has recently discarded his trademark, an ancient, battered brief case, for a shiny new one.

Arthur Mange, of Hutterite-hunting fame, returned briefly last October for his finals and departed again for Western Reserve University as a full-fledged Ph.D.

Dr. Crow, already known as geneticist, lecturer, musician, etc., has further demonstrated his versatility as Acting Dean of the Medical School. So, when he can't be found in his Genetics quarters, he may be at his hospital office, or somewhere between the two, or perhaps, out of town. Between numerous other tasks, he has also managed to collaborate on some statistical paper with Dr. Motoo Kimura, who is now back in Japan.

Rayla Temin completed her thesis on the genetic load of detrimentals and lethals in Drosophila equilibrium populations and received her doctorate. She will continue her fly research as a project associate and undoubtedly will be adding IBM data cards to her already vast collection. Dr. Helen Meyer has been collaborating with Rayla in experiments to determine the genetic load in Drosophila due to inbreeding. In addition, she will be working with Dr. Seymour Abrahamson of Zoology. Dr. Meyer's daughter Evelyn helped in Dr. Patau's lab this summer, and often gave her mother a hand as well.

Yong Jai Chung has been making lovely salivary chromosome preparations to locate an inversion associated with one of the mutations that he has studied in Drosophila cage populations. Takeo Maruyama is investigating lethal competition in Drosophila population cages. He's also learning to speak computer language, now that he has conquered English.

Etan Markowitz, a graduate of Cal Tech, spent the winter complaining about the cold and designing computer programs. He is back in Madison to face another winter, after vacationing at home in California for the summer. Joseph Felsenstein has divided his time this year between measuring fruit fly wings and contemplating the mathematical complexities of population genetics. Joe spent this summer in Lewontin's lab at the University of Rochester.

William Dugglelby, from Horticulture, shuttles back and forth between Medical Genetics and Dr. Gabelman's lab with his interests in plant breeding and ecology. Constance Thomas, project assistant in the fly lab, continues as nursemaid to the stock collection. She also still dabbles with SD and is now looking for ways of altering the k values.

Dr. Klaus Patau, the new chairman of Medical Genetics, signs departmental documents. It is hoped that writer's cramp won't impede him in making chromosome preparations. He and Dr. Eeva Patau, ably assisted by Gwen Rossler, are tracking down various trisomic syndromes.

Dr. Charles Cotterman, the legume-collecting serologist, has been inventing and manufacturing numerous handy devices to be used in his blood work. This must be a change after planning Brazilian expeditions and teaching statistics. He is now on a year's leave of absence.

Dr. John Opitz (a recent father) and Dr. Robert Summit, from Pediatrics are devoting their efforts to clinical genetics and have conducted a series of seminars on the subject. Missing this year in the department is Eugen Rosenkrantz who has journeyed over the way to Plant Pathology. Carter Denniston and Pierre Hart have also left us, Pierre for Slavic studies and Carter to return to Anthropology.

# IMMUNOGENETICS LABORATORY

Dr. Irwin received the Morrison Award this year for his contributions to the advancement of animal genetics. With everyone now comfortably established in the new building, he is continuing his studies of pigeon-dove antigens.

Dr. Stone spent much of the last year commuting between Madison and Oak Ridge coordinating a study on the effects of irradiation on chimeric cattle twins. This past spring, he taught Genetics 6 and has spent many hours as editor of the Immunogenetics Letter. In September he attended the XI International Conference at the Hague, where he presented a paper.

Surinder Datta, after finishing his doctorate, took a poaition at the Albert Einstein Research Center in New York to study differences in Guinea pig serum proteins. Surinder and Carol Bolan, from Medical Genetics, were married in June.

Joel Solomon received his doctorate last spring and left for Southern California for a position with the Red Cross doing research on human blood groups. Martin LaBar took his prelims this summer. He has also taken over Judy Underkofler's profect of comparing the various hybrid antigen groups in doves. Cornelia Mack is trying to demonstrate anti-chromosome antibodies using fluorescein. Presently, she is still trying to perfect the technique of making good cattle chromosome preparations for fluorescein labelling.

John Fenton has spent most of the spring isolating 7s gamma globulin of immune sera and labelling them with fluorescein. So far he has a good anti-human A reagent. Besides being a fluorescent microscopist, he has been a part time rabbit surgeon, continuing the studies of embryocidal antibodies. Ron Niece has demonstrated with starch gel electrophoresis an abnormal hemoglobin in cattle. In addition to this, he has been responsible for the purchase of a Coulter Counter which he has adapted to measuring differential lysis of cattle erythrocytes. Ron received his Master's degree this summer. The large amount of work he has accomplished may be directly related to the settling influence of his marriage to Jane Campbell of Carlinville, Illinois.

The Immunogenetics laboratory adds two new members this fall. Domenico Ianelli is Italy's contribution. Domenico will not begin research until next semester, since he has several background courses to cover this fall. Dr. Robert Edwards, a Major in the United States Air Force, is doing post-doctoral work while still connected with the service. Dr. Edwards is also taking this semester to cover background courses and will begin research next semester.

## PHYSIOLOGY OF REPRODUCTION

Dr. Casida is as busy as ever keeping projects coordinated in the laboratory and with other departments, and teaching his courses in Reproductive Physiology. He and Mrs. Casida spent two months travelling and attending meetings in Europe and the British Isles in late summer.

Howard Brinkley, a postdoctoral trainee, finished his study on ovarian compensatory hypertrophy in swine and left this summer to take a position at the University of Maryland. Ted Wickersham, also a postdoctoral trainee, completed his study on corpora lutea of pregnant and non-pregnant cows with regard to their progesterone production and has joined the staff of West Virginia University. A.P. Labhsetwar completed his study of pituitary-ovarian relationships in post-partun cows, received his doctorate, returned to India briefly where he took a wife, and has now gone to Western Reserve University as a postdoctoral fellow.

Bill Collins is studying the effects of hysterectomy on pituitary potency and ovarian activity in sheep. Keith Inskeep spends most of his hours puzzling over mechanisms of corpora lutea maintenance. In October, he and Ansusan were blessed with a tax exemption. Fred Stormshak has been preparing a paper on the relationship of progesterone content of blood to that of the corpus luteum. Fred married Alice Burke, of Waukesha, this summer. Borden Howland is trying to detect pituitary hormones in sheep blood and preparing for more nutrition studies in sheep.

John Lynn, D.V.M., has almost completed a long-term study of the effects of oxytocin and glucose on progesterone secretion by corpora lutea. Jim Lauderdale is still swamped in his study of pituitary-ovarian relationships in post-partum sows. Roy Kirkpatrick has just finished a study of nutritional effects on reproduction in swine and is now busy analyzing the data. Conrad King, a DVM originally from Colorado and more recently from Illinois, joined the lab in February. So far he has been keeping up with classwork.

The summer brought other newcomers: John Peters, from West Virginia, is presently incubating swine pituitaries in an attempt to increase LH and FSH content; Bill Graves arrived from Massachusetts and is currently studying the physiological effect of cow-anti-sera to rabbit semen on the embryos of rabbits; John Reisen and his bride from Massachusetts, add support to the growing clan from the East; Robert Short has his Masters from Nebraska State, where he worked with Dwayne Zimmerman, formerly of this lab--Bob is beginning some work with swine.

## ANIMAL BREEDING LABORATORY

Dr. Chapman is finishing his last year as editor of the Journal of Animal Science. After January 1, he hopes to limit his work day to only 20 hours. His courses in animal breeding analyses still require much midnight oil for the students.

Lauren Christian received his doctorate and accepted a position as Assistant Professor of Animal Husbandry and Veterinary Science at the University of Tennessee. Ming-Pi Mi also received his doctorate and will continue his study in Hawaii, where he has accepted a postdoctoral position for the coming year. Janet and Carl Hansen are both furiously working toward completion of their degrees. Gerald Havenstein is continuing his study on the genetic effects of cumulative irradiation in the female rat. He was married in August to Joyce Withbroe, of Green Bay. Brian Bradley is working on sheep breeding projects, and Dilip Biswas continues his studies on feed utilization by swine.

Trygve Gjedrem, from Vollebekk, Norway, was here for a year on a Kellogg Fellowship. He and his family returned to Norway in early September. A new Kellogg fellow, Nils Standal, arrived in September for a year's work on analysis of data on rate of gain for pigs on Norwegian farm selection programs. Dr. Henrik Duniec, of the Institute of Animal Husbandry in Cracow, joined the group on a Rockefeller fellowship, and will work on development of a selection index based on growth and carcass data from three Polish swine progeny testing stations. Dr. Hassan Karam, Animal Production Department of Alexandria University, Egypt, who received his Ph.D. here in 1952, is spending a few months on analysis of data from rotational crossbreeding experiments and design of experiments, comparing single trait selection with index selection in sheep.

The fall semester brought three other new graduate students, Clarence Stark, University of Missouri, working on studies of identical and fraternal cattle twins; Benjamin Taylor, University of Kentucky, working on effects of cumulative irradiation in rats; and Roy Wardell, Colorado State University, working on effects of radiation on prenatal and early postnatal development in rats.

## CYTOLOGY LABORATORY

Dr. Cooper has been recently studying various aspects of polyembryony among the genus Hieracium. He is also looking for desirable seed characteristics among barley-rye crosses, as well as working on host-parasite relationships among tobacco tissue cultures.

Pao Min Tseng completed her research on the role of gamma ray irradiation of lily pollen, and left for South Africa upon receiving her Ph.D., where she later married. A.M.M. Jurair joined the lab last fall and is currently spending most of his time on course work. He will be studying the cytological aspects of male sterility in carrots.

## CLOVER LABORATORY

Dr. Smith is currently comparing disease resistance of tetraploid red clover to their corresponding diploids. In addition, he is hoping to derive low coumarin sweet clover strains from vigorous strains ordinarily having high coumarin contents.

Salma Kawas, originally from Damascus University, Syria, is currently studying the genetic control of coumarin production among sweet clover interspecific crosses. In November she successfully passed her Ph.D. Preliminary. George Liang, having previously studied in Taiwan and Wyoming, is splitting his time between the Agronomy and Genetics Departments working on red clover leaf mark. Currently he is trying to prepare leaf mark stocks by irradiation.

## FUR ANIMAL LABORATORY

Dr. Shackelford has been devoting most of his time to the study of blood group genetics in the mink. He hopes to expand his research, through a joint project arranged between the United States and Poland, to include other members of the family Mustelidae.

Jan Rapacz, Ph.D., from the University of Krakov, finished an intensive two-year study on blood groups in mink. He left for Poland in August, stopping at the Hague, Netherlands, to present a paper on his studies to the XI International Congress of Genetics. Charles Rust has been continuing his studies on the pelage cycles of mink and weasels. He passed his preliminaries last spring.

## MOLECULAR GENETICS

"Things" have been cooking in Millard Susman's laboratory, but the resultant phage individuals are not discernible to the human eye. He has been assisted by graduate students Mike Piechowski, Nancy Couse and Joy Fox (Joy, from Rutgers, is new here this year); and project assistant Lidia Wojtowicz. Dr. Susman has been writing papers, teaches the second semester course "Genetics of Microorganisms", and has served as vice-president in charge of the Genetics Library, and of THE STILL atop the building.

## NEW PROJECTS

Allen S. Fox joined the department as Professor of Genetics on August 15, coming from the Department of Biochemistry at Michigan State University. His group, which accompanied him from Michigan State, includes four research associates and postdoctoral fellows (S.B. Yoon, James Kan, Manju Kappor, and M. Horikawa), and four graduate students (M. Fuchs, S. Parzen, S.H. Kang and Barbara Wallis). His program includes studies of the genetic control of the synthesis and structure of tyrosinase in Neurospora crassa, but is principally concerned with problems of molecular differentiation in Drosophila melanogaster. The objectives are to study the induction of synthesis of two specific proteins, xanthine dehydrogenase and Y-1, at a variety of levels--at the biochemical level in cell-free systems, at the cellular level in tissue culture, and at the level of the whole, early embryo. Dr. Fox will teach the Advanced Genetics Course.

Dr. Masayasu Nomura, formerly of Osaka University, Japan, has arrived in our department and is getting under way with his research on molecular biology. His able assistant, Mrs. Marilyn Larsen Baker, is a graduate of Brigham Young University. Dr. Akio Maeda is expected to join Dr. Nomura in the near future.

After seven months as an NSF postdoctoral fellow, Jerry Kermicle joined the staff in July as Assistant Professor. Between setting up a new laboratory and teaching quiz sections for Dr. Crow, he is extending and starting numerous genetics experiments with maize. One item of current interest is why certain alleles of R are differently expressed when transmitted via egg and sperm. Dr. Kermicle's work bears a close tie with Dr. Brink's group, where he is still considered "one of the boys". Since moving to a country home west of Middleton, Jerry has sometimes been dubbed "gentleman farmer".

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# NEWS FOR THE GENOTYPE

**The editors of GENOTYPE want to make this publication interesting to all . . . this means that we need news of YOU—where you live, your work, your family, recent happenings, trips, promotions, news of any other of the departments' alumni.**

**Please fill out this form, seal, stamp and post.**

**DO IT NOW, before you forget!**

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Secretary
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University of Wisconsin
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## NEWS OF OUR ALUMNI

On these pages you will renew old friendships. We know you will be pleased with these responses, and are enclosing again a copy of our newsletter form. Let us hear from each of you!

Bennett, Jack - (U.W. 1955-58), Northern Illinois University.

Continuing some aspects of studies of evolution of insecticide resistance in Drosophila melanogaster, that I started in Dr. Crow's lab. Also making some preliminary studies of behavioral genetics in D.m. that got started from the DDT work.....Starting work with two wild species of Drosophila: tripunctate and immigrans, with view to comparative study of genetic homology and population dynamics.....Studying (in co-operation with Dr. Elwood Briles--also a U.W. Genetics man!!) genetic and immunogenetic effects of early transplantation of hematopoietic elements in chick embryo. Also, relationship between behavior and erythrocyte antigen genotype in the chicken....Studying (in co-operation with Ophthalmology Department, Washington University School of Medicine) genetics of a "Glaucoma-like" character in the rabbit....Obviously, I don't do all of the above all by myself, but I have been fortunate in having some very good students....Promoted to Associate Professor this year.....Some of my friends will not be surprised to learn that I'm also a new Republican precinct committeeman, Treasurer of the County Young Republicans, and advisor to the Campus Young Republicans Club. In addition to these leanings I am also skeptical of the mythical and magical properties attributed to DNA by many and publicly argue for the reduction of the status of DNA to just another part of the "hereditary system."

Bernstein, Aleck and Helen - (U.W. 1952-55), Marquette University School of Medicine.

We (Aleck & Helen plus 3 $F_1$s Sarah, Stephen and James) are preparing for a major move from London to Marquette University on September 1, 1963.....Peter and Sue Day, at Wisconsin 1954-56, are now at the Dept. of Botany & Plant Pathology, Ohio State. Larry Morse (Ph.D. 1955) now at the U. of Colorado, has recently been working at Univ. of Geneva, returns to U.S. this fall.

Boyarsky, Lila H. - (U.W. 1942-47), Transylvania College.

Still involved in teaching at Transylvania - a general Biology course (Science of Life), plus courses in Genetics and Evolution. Also, much committee work, plus an institutional self-study. Was acting head of the Division of Natural Sciences last year, and made Professor of Biology. Don is in the new Medical Center at the University of Kentucky, in the Department of Physiology and Biophysics. Amy is now 15, Greg 10.

Briles, Connally O. - (U.W. 1951-55), McGill University.

The research laboratory which deals in blood groups of domestic poultry at Arbor Acres Farm, Inc., Glastonbury, Connecticut, is being closed because of economic conditions. I am accepting a position as Associate Professor with the Department of Animal Science at Macdonald College of McGill University, starting January 1, 1963. They are starting a new laboratory in blood groups in chickens and later plan to expand into large farm animals.

Britten, Ed - (U.W. 1941-44), University of Hawaii.

I have just returned from a year in Australia. My principal work was with several species of Trifolium. I met several there who had been at the Genetics Department at one time or other--these include Dr. Margaret Blackwood, who is at the University of Melbourne, and Dr. Ken McWhirter. The Genetics group at Canberra is very active and has excellent facilities. The group at Brisbane, where Dr. McWhirter is located, is doing a great deal of interesting work..... We in Hawaii are looking forward to Dr. Morton joining us. I am located in the Experiment Station of the University of Hawaii where I am working with alfalfa as well as some tropical plants.

Buch, Natwarlal C. - (U.W. 1953-56), Institute of Agriculture, Anand, India.

Happy at the Institute of Agriculture, Anand, because I can contribute to its development. Working in various capacities as Professor of Veterinary Science, officer-in-charge of poultry Research Station and Training Center. Very recently promoted as senior Scientific Officer and officer-in-charge of a research project on Physiology of Reproduction of farm animals supported by the Ford Foundation. If proper supports come up from various sources this can be built up as an Indian Institute for the study of Reproduction in Farm Animals... We added one more boy to the family last year. Eldest boy, Umesh, now 20, going to Medical College; second boy, Rajesh, now 18, goes to Commerce College; and the only girl, Nirupa, now 10, goes to school. The yearling helps the father and mother by working through his fortune.....No trips because of extraordinary occupation. Dr. M. T. Clegg of the University of California, Davis, who is helping me as an advisor on the new project, contributes much to our research.

Dessureaux, Lionel - (U. W. 1944-47), Research Station, La Pocatiere, Quebec.

Doing research in alfalfa genetics and breeding.....Father of five children: two boys and three girls.....Spare time: Fishing and hunting!!

Dnyansagar, Vishnu Ramchandra - (U.W. 1957-59), Institute of Science, Bombay.

After returning from the U.S.A., I joined again the Vidarbha Meheirdyalaya, Amravati, as Assistant Professor of Botany during August, 1959, and was promoted to Professor of Botany in January 1961. I was also working as Head of the Botany Department there. Very recently, I was transferred to the Institute of Science, Bombay-1 as Professor and Head of the Botany Department in the select grade. As I have yet to get accomodations, my family is still at Amravati. Recently (October, 1962) while at Amravati, I went to Kashmir and Delhi on a Botanical Excursion along with M. Sc. students and met Dr. M. L. Magoon and Mr. Ramanujam, who are our departments alumni at New Delhi. They are at the I.A.R.I.

Gibson, Pryce B. - (U.W. 1947 - 49), Clemson College.

I am the geneticist-breeder of a three-man team working on the improvement of white clover. Our team is fortunate to include Dr. J. E. Halpin, a Wisconsin trained pathologist. The third member of our group, Dr. E. G. Beinhart, is a physiologist. In addition to working toward developing a superior variety, we as a team are studying the various factors that affect the life and production of white clover plants.....The Gibson family now includes three sons, Tom, Steve and Bill; and a daughter, Betty.

Gildow, E. M. - (U.W. 1924-25), Carnation Milk Farms.

1925 - 1928 Poultry Department and diagnostic lab. U. of N.H.
1928 - 1940 U. of Idaho - Department of Animal Husbandry, and Experimental Sta. Veterinarian.
1940 Carnation Co. Carnation Milk Farms, Veterinarian; Research Director, Albers Milling Co., Feed Division. .....Florence P. Gildow in good spirits. All children (Curtis, Genevieve, Elizabeth) married. Nine grandchildren.

Hollander, Willard F. (U.W. 1933-39), Iowa State University.

Wife: Mildred H. Willoughby, M.S. in Genetics from University of Wisconsin, 1934. Children: Adrian W., Paul J., James F., Andrew L., Epistatic Y-chromosome..... We were happy to have Wilmer J. Miller join our staff in September, 1962.

Holmes, Clayton E. - (U.W. 1928-38), Virginia Polytechnic Institute.

Was shocked to learn of the passing of Dr. Rieman. I had made a flying trip to Madison in June 1961, to attend the funeral of Professor J. G. Halpin. Had a few minutes at the Genetics Building and visited with both Dr. Brink and Dr. Rieman. Drs. Irwin, Casida, Chapman, and Cooper did not happen to be in so I regret not seeing them. Had not been on the campus since 1951 and it certainly had made a lot of changes in 10 years time. Have hopes of getting back to Wisconsin for a somewhat longer time this coming summer or fall. We really haven't had much chance to digest all the changes around the University since we left in June of 1941.

Holmes Martin J. (U.W. 1924-29), Purdue University.

Relinquished my duties as Head of the Purdue Poultry Department January 1, 1962, having served 21 1/2 consecutive years. Became Assistant Head of the Department of Animal Sciences (Poultry, Dairy, and Animal Husbandry) effective January 1, 1962 through June 30th, 1963. Accepted duties as Coordinator of Purdue-Brazil Project effective July 1, 1962 with agreement to serve through June 30, 1965. Mrs. E.E. Vanlone (Adeline Bakken*) whose husband Eldon received his Ph.D. (Animal Genetics) in 1931 is currently Librarian at the Indiana State Soldiers Home, North River Road, Lafayette, Indiana "on the banks of the Wabash." She enjoys her work very much.....*She was Dr. Cole's secretary 1925 - 1931 (approx.)

Hulet, Clarence V. - (U.W. 1952-55), U.S. Sheep Experiment Station.

The U.S. Sheep Experiment Station has been my home since June 1957. I was recently promoted to Research Physiologist (animal) G.S. 12. Donna Mae and I now have five lovely children: Ladell 9, Brian 7, Diana 6, Kelvin 4, and Sherilyn 2. We, like many others, went to the world's fair this summer. A group of us, formerly of Dr. Casida's Lab, held a Physiology of Reproduction workshop at Logan, Utah this past summer. Those in attendance included Warren Foote, James Wiltbank, Bob Loy, Bob Bellows, Darrel Foote, Clarence Hulet and others adopted into our family, including Gary Stott, formerly from the "Fly lab". I am currently investigating the effects of method of semen colletion on the prediction of fertility in sheep, the effects of light on reproduction during the breeding season, mating behavior, factors affecting flushing and some interrelations of the gonadotropins. Part of my work is in cooperation with Dr. Warren Foote of Utah State University.

Jones, Sarah Van Hoosen - (U.W. 1915-21), Rochester, Michigan.

May I reminisce in place of telling you what I am doing; I have already done that several Genotypes ago. I can only add that I have travelled extensively, have donated 350 acres of my farm to Michigan State University. Prior to this the same University conferred an honorary LL.D. and named a dormitory for my family....Now! I was one of the first students in the Department of Experimental Breeding, (Genetics was too scientific for those more practical days). The Department was located in the top of Ag. Hall. There were no weak hearts in those days, all one needed was to have his or her breath hold out till the front steps, followed by the long flights inside, had been ascended....Then one summer we found ourselves situated in the top of the Ag. Chem. building. This was affluence: the graduate students now had cubicles for offices. Here I completed my doctorate....Later I returned to find the department occupying the entire Agronomy building. AND NOW!' How I enjoyed the picture of the NEW Genetics Building!! What part or parts are to be named for Leon J. Cole? .....The picture has given me much to remember and much to think about....I am in my 71st year and look back upon those years as a graduate student with extreme pleasure.

Kerr, Ernest A. - (U.W. 1941-44), Horticultural Experiment Station.

Chief Research Scientist--in charge of plant breeding at the Horticultural Experiment Station.....Personal projects concern the breeding of market sweetcorn, processing tomatoes and greehouse tomatoes. Linkage studies of tomato leaf mold resistance, unlocated genes, and chromosome 10 take most of my spare time....My wife and four children claim they take second place to tomatoes. After dark and on week-ends, I've such extra-curricular activities as Bridge Club, Choir, Sunday School Superintendent, Science Editor Canadian Journal of Plant Science, Secretary Ont. Vegetable Research Committee, Vice Chairman of a Science Seminar for 40 gifted students from 20 high schools (grades 11 & 12) and colleges in its Niagara Peninsula.

Laidlaw, Harry H. - (U.W. 1935-39), University of California.

Live: 13 miles west of Sacramento and 70 miles east of San Francisco in Central Valley of California. Both climate and topography are excellent...Work: At rapidly growing University of California on Davis campus. Main work is on honeybees, especially genetics and breeding. Maintain largest collection of honeybee mutations in the world. Teach agriculture, and insect monphology. Also am Associate Dean, College of Agriculture on Davis Campus...Family: Wife and daughter. Wife works half time at the University, is a graduate of Wellesley, active in PEO, PTA, church and various other organizations. I am a member of church session, Rotary, and Army Retired Reserve (having served as C.O. of Local Research and Development unit for several years). Daughter is in the 7th grade and is stumping her mother and dad with Math and other problems... Trips: In August went to the world's fair and the Canadian Rockies. Spent a half a day in Madison, but got to the Genetics Department after closing time.

Larson, Charles J. - (U.W. 1950-51), Holstein-Friesian Association of America.

Working with the Holstein-Friesian Association of America as Administrative Assistant since January 1, 1962. Prior to that Assistant Superintendent Advanced Registry Department from 1955....Audrey and I have two children, Rebecca age 7, and David 6. Get around the country occassionally. Saw some in Genetics Department last January...Read an account of Jim Crow's talk in Boston recently--very glowing report of his presentation.

Lederberg, Joshua - (U.W. 1947-58), Stanford University Medical School.

Recent trips: Lecture tour in Japan, Spring 1962...CIBA Symposium Biological Future of Man, London, November 1962...Some alumni from the microbial genetics group: Morso, M.L., Assoc. Prof. Biophysics, University of Colorado, Denver (Ph.D. 1956), spending a year abroad at University of Geneva; Richter, Alan (Ph.D. 1958) at Wistar Institute, Philadelphia; Cook, Ann, M.S. (1958) completed Ph.D. 1962 at Stanford, now at Syntex Labs. Palo Alto, California; Dr. Bruce Stocher (at Wisconsin, summer 1952) from the Lister Institute, London; and, Dr. L. Cavalli-Sforza (University of Pavia, in microbial genetics lab, fall 1954, and again in the spring of 1958) were visiting Professors of Genetics at Stanford 1961 and 1960 respectively.

MacGillirray, John H. - (U.W. 1923-25), University of California.

I had a minor in genetics but most of my work since leaving Wisconsin has been in Physiology or other related subjects to vegetable crops. I was 12 years at Purdue and worked on tomato color as related to canning. I came to California in 1936 and have spent time on many things including irrigation of vegetables, methods of increasing food supply through choice of crop plants, and recently methods of increasing labor output in harvesting vegetables. The later also includes mechanization. I taught the course here as well as some others for 18 years. Also, a few graduate students. Have worked in Taiwan and Central America.

Moore, E. Leon - (U.W. 1941-47), Tobacco Research Station, Oxford, N.C.

I am in charge of a flue-cured tobacco varietal development program with current emphasis on improvement of smoking quality in disease resistant varieties. Such diseases as the bacterial disease, Granville wilt, the fungus disease, black shank, and the nematode disease, rootknot, have made economically unprofitable the culture of "old-line" susceptible varieties upon which the industry was based...Control of diseases through the development of resistant varieties has been relatively successful. So successful, in fact, that a formerly minor fungus disease, brown spot, causes greater losses than any other disease...The most recent varietal release was NC 95 with some resistance to 5 diseases. Its resistance to root-knot results from 25 years of breeding research on this disease. In addition, this variety is resistant to black shank, bacterial wilt, Fusarium wilt and is somewhat resistant to the leaf disease, brown spot. Yields of NC 95 are competitive with those of the highest yielding varieties currently in wide-scale production. In addition, it approaches Hicks Broadleaf, the most popular "old-line" variety now grown, in content of such constituents as nicotine, total nitrogen, and sugar..... A specific area now receiving considerable emphasis is effect of genetype on differential rate of alkaloid (largely nicotine) accumulation in leaves of growing plants. Proper nicotine content is important in the chemical balance of cured leaf necessary to produce a satisfactory smoke.....I now have two children--Martha May, age 13 and in Junior-High; and Samuel Leon, age 12. My wife, Dorothea, teaches Math and Science in Henderson High School located in Henderson just 12 miles from Oxford.

Oloufa, Dr. Mohamed M. - (U.W. 1960-62), Cairo University, Egypt.

Our two boys, Amr and Ashraf, are as active as ever, keeping their parents very busy and on the watch all the time. The older boy has started kindergarten in a private English school. His tuition is about $120 a year while our universities are free. One wished that he would start his university education before kindergarten...I am as busy as usual with teaching graduate and undergraduate students. A limited time is spent on research with Prevera supplied by Upjohn through the help of Dr. Casida. We miss Wisconsin very much....Our greetings to all!

Owen, Ray (U.W. 1937-45), California Institute of Technology.

Things seem to be going well for us here at Cal Tech these days..Our older son, Dave, is a Freshman at Oberlin, and our younger, Griff, is in the eighth grade. June is busy being President of the Cal Tech Women's Club this year, but remains active in the League of Women Voters and got in a few partisan punches in the election campaign as well...My research group has become mainly concerned with aspects of the antibody response, and together we seem to be keeping up on things pretty well....Relaxation is mainly gardening..you should see our chrysanthemums, camellias, and roses!

Parker, M. C. - (U.W. 1930-33), Gallatin Valley Seed Company.

I am presently director of Research for Gallatin Valley Seed Company. Continue to breed pea and bean varieties for use by canners and freezers....My wife and I spent part of last winter in New Zealand increasing some promising new pea

and bean varieties....The new Genetics building indicates the wonderful growth of the department. I remember when we were crowded into an upper floor of the Ag. Chem. building and competed for space with the white rat cages.

Stokes, G. W. - (U.W. 1949-53), University of Kentucky.

Research - Genetic studies on tobacco.....Sabbatical - August 1960 - June 1961 at Genetics Department, University of California, Berkeley, California. Variation in chromosome number in functional gametes of haploid tobacco.... Promotion--Professor of Plant Pathology (1961)...P.S. I certainly enjoy reading the "Genotype". Thank you.

Woolley, George W. - (U.W. 1930-35), Sloan Kettering Institute.

My present assignments are in part: Professor of Biology, Sloan Kettering Division, Cornell University Medical College--sponsoring graduate student study; Chief, Division of Tumor Biology, Sloan Kettering Institute--aiding with numerous biology-cancer research projects; Head, Section on Experimental Biology, Sloan Kettering Institute--conducting research concerned especially with genetics and cancer. In these studies we have recently isolated a fraction of RNA which modifies cancer occurrence and cancer growth; and we hope that it is of the messenger or informational variety....Our son George is starting work in physics at the University of Pennsylvania. Margaret and Lawrence are at Dalton Schools here in New York City. Lawrence will have to shift to a Preparatory School next year as Dalton takes the boys only through eighth grade...Certainly delighted to have the GENOTYPE. Thank you for it! Congratulations on the new building!