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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

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THE LALOR FOUNDATION
PROGRAM FOR
FACULTY SUMMER RESEARCH
AWARDS FOR 1957



4400 LANCASTER PIKE
WILMINGTON 5, DELAWARE

THE LALOR FOUNDATION

PROGRAM OF FACULTY SUMMER RESEARCH AWARDS FOR 1957

As an outgrowth of earlier activities in the postdoctorate and postgraduate fellowship field, the Lalor Foundation in recent years has directed its program specifically to the granting of awards to younger members of staff or faculty of colleges and universities for summer or interim research in the basic biological sciences.

The Trustees of the Foundation believe that aid to younger members of the scientific staff of these institutions to assist them in carrying on fundamental investigations of their own choosing can be an important stimulus to independent, imaginative research.

It is often difficult for junior faculty members to set apart the time and to find adequate means to follow their own research leads. The summer months are usually the only uninterrupted periods available for such research. Work accomplished during these periods can add significantly to the younger faculty member's standing as a scientist and to his usefulness and prestige as a teacher.

For 1957 the Lalor Foundation is offering 40 summer or interim faculty awards for advanced study and research employing chemistry or physics to attack problems in any of the biological sciences. Preference will be given to men and women who present programs in less explored fields. Younger faculty members, with an upper age limit of 40 years, will be favored in determining assignment of awards. For eligibility the applicant should have experience and indicated research productivity corresponding to the Ph.D. degree and also have demonstrated an aptitude for teaching in science.

The applicant is to name the place at which the work would be done and the period thereof, subject to approval by the Foundation. The place of work may be at the applicant's own institution or at another institution, as may be for the best interest of the project.

The amount of the award is subject to circumstances but is normally not to exceed \$900 for a single person, \$1,100 for a married person working at his home institution, and \$1,250 for a married person with principal program at another institution. Arrangements and expenses for transportation, residence and other conditions are the responsibility of the award holder. A one-time renewal of an award may be a possibility.

For a number of years the Foundation maintained a special series of Lalor postdoctorate summer fellowships at the Marine Biological Laboratory, Woods Hole, Massachusetts. This undertaking has now expired. It is hoped that anyone interested in working at the M.B.L. and who is eligible for a Lalor faculty research award will apply directly to the Foundation for an award of the present type.

Inquiries and requests for applications respecting Lalor Faculty Summer Research Awards should be addressed to the Director of the Lalor Foundation, 4400 Lancaster Pike, Wilmington 5, Delaware. The final date for receipt of completed applications is January 14, 1957. Notification regarding appointment may be expected by March 15.

The holders of the 40 faculty awards made for the summer of 1956 and the titles of their research projects are listed on the following pages. Additional information respecting the Foundation and its objectives may be found in the article "The Lalor Foundation" in the April, 1956 issue of the BULLETIN of the American Institute of Biological Sciences.

C. LALOR BURDICK,
Director

RESEARCH AWARDS FOR THE SUMMER OF 1956

- EDWIN F. ALDER, Instructor, University of Arkansas: "The isolation and identification of non-acidic auxin from peas", at the University of Arkansas in the department of botany and bacteriology.
- SHIRLEY H. BRYANT, Instructor, University of Cincinnati: "Neuropharmacological studies on invertebrate giant synapses", at the Marine Biological Laboratory, Woods Hole.
- CHARLES W. CARR, Assistant Professor, University of Minnesota: "An experimental study of anomalous osmosis in mosaic membrane systems", at the National Institutes of Health, Bethesda, Md.
- GORDON S. CHRISTIANSEN, Professor, Connecticut College: "Synthesis of modified plant growth substances", at Connecticut College in the department of botany.
- MELVIN J. COHEN, Instructor, Harvard University: "Central integration of sensory nerve impulses", at the Marine Biological Laboratory, Woods Hole.
- GEORGE W. DE VILLAFRANCA, Assistant Professor, Smith College: "An investigation of the biochemical properties of squid myosin", at the Marine Biological Laboratory, Woods Hole.
- FRANK C. ESK, Associate Professor, Washington College, Md.: "A biochemical analysis of suppressor systems in *Drosophila*", at Johns Hopkins University in the department of biology.
- REED A. FLICKINGER, Assistant Professor, University of California at Los Angeles: "Enzyme development in maternal and paternal hybrid echinoderm embryos", at the University of Washington in the Friday Harbor Laboratory.
- MAURICE GREEN, Instructor, University of Pennsylvania: "The metabolism of L-fucose in marine organisms", at the Marine Biological Laboratory, Woods Hole.
- WESLEY O. GRIESE, Associate Professor, Los Angeles State College: "Respirational and cytological changes during abscission of magnolia perianth segments", at the University of California at Los Angeles in the department of subtropical horticulture.
- PAUL B. GROSS, Assistant Professor, New York University: "Studies on ion-sensitive macromolecular complexes of the cytoplasm", at the Marine Biological Laboratory, Woods Hole.
- DWAIN D. HAGERMAN, Research Fellow, Harvard University: "Metabolic effects of sex hormones in marine animals", at the Marine Biological Laboratory, Woods Hole.
- EARL D. HANSON, Instructor, Yale University: "P_H and reorganization of cytoplasm and nucleus in *Paramecium aurelia*", at Yale University in the department of zoology.
- KENICHI K. HISOAKA, Instructor, Loyola University, Chicago: "A study of teratogenesis using histochemical methods", at Loyola University in the department of biology.
- WILLIAM T. JACKSON, Instructor, Yale University: "Factors controlling the differentiation of root hairs", at Yale University in the department of plant science.
- MERLE E. JACOBS, Instructor, Duke University: "Studies on melanism in *Drosophila melanogaster*", at Duke University in the department of Zoology.
- PAUL JENSEN, Instructor, Carleton College: "Environmental factors affecting the aggregation of certain woodland invertebrates", at Carleton College in the department of biology.
- J. GORDON KAPLAN, Associate Professor, Dalhousie University: "Surface chemical models of intracellular enzymes", at the University of Cambridge, England in the department of colloid science.
- PETER KARLSON, Associate, Max-Planck Institute for Biochemistry, and Doreen, University of Tübingen, Germany: "Studies on the molting hormones of arthropods", at the Marine Biological Laboratory, Woods Hole.
- ANTHONY D. LEES, Principal Scientific Officer, Agricultural Research Council, Cambridge, England: "Photoperiodic receptors in insects", at the Marine Biological Laboratory, Woods Hole.
- LAURENCE LEVINE, Instructor, Wayne University: "Contractility of the glycerol extracted myoneme", at the Marine Biological Laboratory, Woods Hole.
- GERALD LITWACK, Assistant Professor, Rutgers University: "Kinetics of liver tyrosine oxidation as affected by thyroidal hormones and related compounds", at the University of California at Berkeley in the department of biochemistry.
- WERNER K. MAAS, Assistant Professor, New York University: "Genetic control of enzyme synthesis in thermophilic mutants of *E. coli*", at the Marine Biological Laboratory, Woods Hole.
- ROBERT H. MAYBURY, Assistant Professor, University of Redlands: "Optical rotation studies with proteins and denaturation rates in ordinary and heavy water", at the University of Washington in the department of biochemistry.
- ALBERT G. MONT, Assistant Professor, Hahnemann Medical College: "Techniques for selection of artificially induced mutants of yeast", at Cornell University in the department of plant breeding.
- AARON NOYCK, Associate Professor, University of Chicago: "Induced enzyme activities as genetic characters", at the Cold Spring Harbor laboratory of the Long Island Biological Association.
- LEONARD M. PASSANO, III, Instructor, Yale University: "Sensory integration in scyphomedusae", at Lerner Marine Laboratory, B.W.I.
- LIONEL I. REBHUN, Instructor, University of Illinois: "Yolk forming mechanisms in oocytes of marine invertebrates", at the Marine Biological Laboratory, Woods Hole.
- JOHN HALL RICHARDS, Instructor, Harvard University: "The biosynthesis of metabolites of penicillin I, penicillin", at Harvard University in the department of chemistry.
- WILLIAM J. RITTER, Assistant Professor, University of Illinois: "Chemical studies of animal cells grown on tissue culture", at the University of Illinois in the department of chemistry.

- JOSEPH A. SACHER, Assistant Professor, Los Angeles State College: "Effects of linolenic acid and cofactors on plant tissues", at California Institute of Technology in the department of biological sciences.
- WILLIAM H. SAWYER, Assistant Professor, New York University: "Physiology of the ascidian neural complex", at the University of Washington in the Friday Harbor Laboratory.
- MICHAEL SHAW, Professor, University of Saskatchewan: "Studies on respiratory pathways in rust-infected wheat leaves", at the University of Saskatchewan in the department of biology.
- GUNTHER S. STENT, Lecturer in Biology, University of California at Berkeley: "Effects of decay of incorporated radioactive phosphorus on bacterial recombination", at Pasteur Institute of Paris in the department of microbial physiology.
- ALFRED S. SUSSMAN, Assistant Professor, University of Michigan: "The role of furfural in ascospore activation", at the University of Michigan in the department of botany.
- WILLIAM H. TELFER, Assistant Professor, University of Pennsylvania: "Membrane-penetration by blood proteins in a moth", at the University of Pennsylvania in the department of zoology.
- WILLIAM G. VAN DER KLOOT, Instructor, Harvard University: "Pupal diapause and the control of neurosecretion", at Harvard and Cornell Universities in the departments of zoology.
- RICHARD B. WALKER, Assistant Professor, University of Washington: "The influence of chromium on plant growth", at the University of Washington in the department of botany.
- CHARLES YANOFSKY, Assistant Professor, Western Reserve University: "Genetic control of tryptophan synthetase formation in *Neurospora*", at the Cold Spring Harbor laboratory of the Long Island Biological Association.
- ARTHUR M. ZIMMERMAN, Research Assistant, New York University: "Mechanism of action of sulfhydryl reagents on cell division", at the Marine Biological Laboratory, Woods Hole.



THE LALOR FOUNDATION

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July 17, 1957

Mr. C. Lalor Burdick

Director of the Lalor Foundation Program for Botanical Documentation

4400 Lancaster Pike

Wilmington 5, Delaware

Dear Sir,

Please send me your application blanks and a copy of your circular on the Lalor Foundation Program for Faculty Summer Research Awards for 1958. Thank you.

Sincerely yours,

Dr. Naki Kasaoglu

Assistant Professor of Botany

THE LALOR FOUNDATION. 4400 LANCASTER PIKE. WILMINGTON 5. DELAWARE

August 1, 1957

Dear Dr. Kasapligil:

In response to your note of July 17, we take pleasure in enclosing a copy of our Program for Faculty Summer Research Awards for 1957. If, after reading this program, you feel that your work falls within the scope of our awards we suggest that you write us again in October. The program and application forms for the 1958 series will be available at that time.

Yours sincerely,

To: Dr. Baki Kasapligil
Ass't. Professor of Botany
Mills College
Oakland, California

C. Lalor Burdick
C. Lalor Burdick
Director