

C      Stadler, Lewis John (1896-1954), Papers, 1927-1955  
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## INTRODUCTION

Correspondence, notes and manuscripts, and miscellaneous papers of a corn geneticist in the U.S. Department of Agriculture and the Department of Field Crops at the University of Missouri, who did pioneering research on the effects of X-rays upon mutation in plants.

## DONOR INFORMATION

The Stadler Papers were donated to the University of Missouri by Myron G. Neuffer of the Field Crops Department on 3 March 1967 (Accession No. 3705). Additions to the papers were made by Stadler's wife Cornelia T. Stadler on 7 November 1973 and 10 January 1974 (Accession No. 3926A).

## BIOGRAPHICAL SKETCH

Lewis John Stadler was born in St. Louis, Missouri, in 1896 and, after taking a B.S. in agriculture at the University of Florida (1917), earned the A.M. (1918), and Ph.D. (1922), at the University of Missouri. He joined the Department of Field Crops faculty in 1922, and remained at Missouri until 1954, acting as visiting professor at the California Institute of Technology (1940), and Yale University (1950). Beginning in 1930 he simultaneously held an appointment with the U.S. Department of Agriculture. Academic honors included the presidencies of the Genetics Society of America, American Society of Naturalists, and Sigma Xi.

While Stadler spent almost all his academic life at the University of Missouri he was also involved in activities with a wider scope. During the 1930s Stadler was involved in efforts to bring European scientists to the U.S. to escape Nazism. In 1948 Stadler was appointed a delegate to the Eighth International Congress of Genetics, meeting in Stockholm. The U.S. Department of Agriculture, however, rejected his passport application and conducted a loyalty investigation; Stadler at first thought it was a State Department action.

Stadler married Cornelia Field Tuckerman in 1919, and they had six children: Maury Tuckerman, Henry Lewis, David Ross, John Brandeis, Eliot Tuckerman, and Joan.

Stadler's work in genetics concentrated upon the study of mutation in corn. He did much work on the effects of X-ray treatments, and did comparative studies of mutation caused by X-rays and by ultraviolet rays. His work earned him an international reputation.

He died of leukemia in 1954.

## SCOPE AND CONTENT NOTE

The Stadler Papers consist of correspondence, notes and manuscripts, and miscellaneous papers arranged into six series: **Correspondence; National Research Council; Selective Service System; Professional; Notes, Manuscripts, and Reprints;** and **Miscellaneous.**

The **Correspondence** series consists of personal, scientific, and business correspondence with friends and colleagues and dates from 1927 to 1955. The bulk of the correspondence is arranged chronologically and is with other geneticists in universities, private research foundations, and the United States Department of Agriculture. Of note is correspondence with

the American Committee for Democracy and Intellectual Freedom and the American Committee to Save Anti-Fascist Refugees concerning asylum for refugees in concentration camps in France; correspondence concerning Stadler's attempt, with the help of the Rockefeller Foundation and the New School for Social Research, to bring Emil Heitz to the United States from Europe; and material from the American Committee for Democracy and Intellectual Freedom concerning academic freedom at Brooklyn College and City College of the City University of New York.

Following the chronologically arranged correspondence is correspondence with manufacturers of scientific equipment concerning the operation and maintenance of instruments and equipment used in genetics work. There is also material dealing with the investigation of Stadler's loyalty. Included are a copy of the interrogatory sent Stadler and his reply, as well as letters from other scientists in his support, and correspondence with friends, lawyers, and organizations to which he belonged and which later became suspect. See also correspondence with organizations in folders 9-33.

The **National Research Council** series includes reports, applications to various organizations for fellowships administered by the NRC, and minutes. The material dates from 1942 to 1954. The reports include bimonthly reports of the Division of Biology and Agriculture from 1942 to 1947. The minutes include those for the Committee on Growth of the Division of Medical Sciences, the Division of Biology and Agriculture, and various panels of the Division of Medical Sciences.

Stadler was among the leaders in education, the sciences, and the social sciences who were asked to serve in an advisory capacity to the **Selective Service System**. This series contains transcripts of the discussions of the scientific advisory committees to help determine deferment policies for men in certain fields and in college, and on the utilization of manpower. The series also includes reports of the committees to Lewis B. Hershey and to the U.S. Army.

The **Professional** series includes material dealing with Stadler's work at the University of Missouri as well as off campus. There is a proposal for and correspondence concerning the establishment of a regional laboratory of plant genetics at the university to be financed in part by the Rockefeller Foundation. Abstracts of papers presented at the Seventh International Congress of Genetics are in this series. There is material dealing with the establishment of the Atomic Energy Commission and the National Science Foundation, including testimony by Stadler, and the United States's membership in the United Nations Educational, Scientific, and Cultural Organization. Conference materials are also in this series. Of note are drafts of a report on the Conference on Mutation sponsored by the Committee on Growth of the National Research Council prepared by Barbara McClintock. The series contains guest lectures given by Stadler at other institutions and over the radio, reports and petitions to various organizations on his research, abstracts of journal articles and papers, graphs and charts, and notes on conferences.

A large section of the Professional series deals with Stadler's work at the University of Missouri and includes memoranda and plans for plantings at the university, reports to the United States Department of Agriculture concerning work at the Missouri Agricultural Experiment Station, drafts and copies of budgets relating to genetic programs, notes and memoranda for courses and seminars in genetics taught by Stadler, and student records and papers of both undergraduate and graduate students in genetics and field crops.

The **Notes, Manuscripts, and Reprints** series includes material by Stadler and others and is one of the largest series in the papers. The series is divided into two sections. Stadler's notes, manuscripts, and reprints are arranged alphabetically by the title; material by others is arranged alphabetically by author. The **Miscellaneous** Series is made up of notes, manuscripts and correspondence from Stadler and others.

## FOLDER LIST

**Correspondence Series**

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| f. 168-174 | Loyalty interrogatory, 1949 |

**National Research Council Series**

- f. 175-196 Applications for fellowships in cancer research, sponsored by the American Cancer Society and administered through the Committee on Growth of the NRC. Included are copies of applications and progress reports from those who received grants. Stadler was a member of the Panel on Experimental Genetics, 1946-1952.
- f. 197-234 Applications for fellowships and minutes of meetings of Fellowship Board of the Atomic Energy Commission. Stadler was a member of the Post-Doctoral Fellowship Board in the Biological and Agricultural Sciences. The grants were administered for the commission by the NRC, 1948-1954.
- f. 232-234 Grants to the University of Missouri, 1951-1954.
- f. 235-240 Membership lists of the Division of Biology and Agriculture of the Division of Medical Sciences, 1942-1949
- f. 241 American Cancer Society. Annual report, 1946/1947.
- f. 242-265 Bimonthly Reports of the Division of Biology and Agriculture, 1942-1947.
- f. 242 August 1942. C. I. Bliss, "The Place of Bio-Statistics in the War Effort"; L. C. Dunn, "Central Organization of Biologists for War Problems"; W. P. Flint, "Biological Changes Due to Modifications in Cropping Systems"; Paul S. Galtsoff, "Biology in War Efforts"; Henry S. Graves, "War Problems of Forestry"; Carl G. Hartman, "War Problems Confronting Zoologists"; W. B. Herms, "The Biologist in a World at War"; J. J. Horsfall, "War Problems in Plant Pathology"; L. A. Maynard, "Food Production Problems in Wartime"; J. S. Nicholas, "The War Problem of Manpower in Biology and Agriculture"; E. C. Stakman, "Biological Services in Wartime."
- f. 243 October 1942."Some Contributions Which Biology and Agriculture are Making or Should Make to the War Effort."
- f. 244 December 1942
- f. 245 February 1943
- f. 246 April 1943. Annual Reports of the Committees on Applications of the Electron Microscope, the Ecology of Animal Populations, Forestry, and Human Heredity; "Resolutions Passed by the Conference on Resources of the Sea and Inland Waters"; "Report of Activities of the Committee on Animal Nutrition"; "Report of the Committee on Animal Health"; "Resolutions Adopted by the Food and Nutrition Board," "Report of the Committee on Crop Protection"; and "Opinions in Agricultural Colleges Covering the Introductory Courses in Biology."
- f. 247 June 1943. "Training of Research Workers in the Agricultural Sciences," "Report of the Activities of the Food and Nutrition Board"; and Annual Reports of the Committees on National Live Stock and Meat Board Grants and on the Preservation of Natural Conditions.
- f. 248 April 1944. "The Society of American Foresters: An Informal Description of its Functions and Activities"; and "Report of the Committee on Training of Research Workers in Agriculture."

**National Research Council Series (con'd)**

- f. 249 June 1944. "Statement of Stockpiling of Foods for Relief Purposes"; and bulletin on "Deferment Chaos."
- f. 250 October 1944
- f. 251 December 1944
- f. 252 February 1945
- f. 253 April 1945
- f. 254 June 1945
- f. 255 October 1945
- f. 256 December 1945 and February 1946
- f. 257 April 1946
- f. 258 May 1946
- f. 259 October 1946
- f. 260 December 1946 and February 1947
- f. 261 April 1947
- f. 262-265 Report to the American Cancer Society by the Committee on Growth of the Division of Medical Sciences, 1946-1947; membership lists; and instructions concerning American Cancer Society grants.
- f. 266-275 Minutes of meetings of the Committee on Growth of the Division of Medical Sciences, October 13, 1945; February 2, 1946; October 7, 1946; January 28, 1947; November 3, 1947; and January 26, 1948.
- f. 276-283 Minutes of the meetings of the Executive Committee of the Committee on Growth of the Division of Medical Sciences, September 17, November 19, December 26, 1945; January 19, February 11, February 25, April 19, and May 30, 1946.
- f. 284-285 Minutes of the meetings of the Division of Biology and Agriculture, Division of Medical Sciences, April 16, 1943; April 21, 1944; November 19, 1945; December 8 and 9, 1945; and February 15, 1947.
- f. 286-292 Minutes of meetings of panels, Division of Medical Sciences, 1945-1947.
  - f. 286 Panels on Botany and Cellular Biology; Division of Chemistry.
  - f. 287 Panels on Clinical Investigation in Endocrinology; Clinical Physiology of the Blood and Blood Forming Organs; Clinical Physiology of the Female Reproductive Tract.
  - f. 288 Panel on Cytochemistry.
  - f. 289 Panels on Enzymes; Experimental Endocrine Physiology; Experimental Genetics.
  - f. 290 Panels on Human Genetics; Isotopes; Laboratory Genetics; Milk Factor; Morphogenesis.
  - f. 291 Panel on Physics.
  - f. 292 Panels on Proteins; Radiology; Synthesis and Metabolism of Steroids.
- f. 293 Special Bulletin by the NRC and American Council on Education: "The National Stake in the Imperative Resumption of Training for the Scientific Professions," 1945.

**National Research Council Series (con'd)**

- f. 294 Annual Report of the Division of Biology and Medicine to the NRC, July 1, 1945-June 30, 1946
- f. 295-312 Reports distributed by the council, 1945-1949.
- f. 295 "Cancer in the Naval Service," Lt. Cmdr. Charles S. Cameron, MC, USNR.
- f. 296 "Report of the Subcommittee on Rabies" of the Committee on Animal Health, 1945.
- f. 297 "First Report on the Intramammary Therapy of Bovine Mastitis" of the Subcommittee on Mastitis, Committee on Animal Health, 1946.
- f. 298 "Report on a Conference on Synthesis of Cell Substance in Normal and Abnormal Plant Tissue Growth and Its Control" of the Panel on Botany, 1946.
- f. 299 "The Research Attack on Cancer, 1946." Report on American Cancer Society research program.
- f. 300 "New Units for the Measurement of Radioactivity," memorandum from Bureau of Standards, 1946; "Visit to Certain Laboratories in the United Kingdom," C.N. H. Long, 1946; "Carcinogenic Action of Some Substance Which May Be a Problem in Certain Future Industries," Austin M. Brues, Hermann Lisco, and Miriam Finkel, 1946.
- f. 301 "National Requirements and Availability of Botanists," K. Starr Chester, 1946; "Announcement of C<sup>13</sup> Production," Eastman Kodak Company, 1946; "Protection Measures Against Radiation Hazards," J. J. Nickson, 1947.
- f. 302 "Rules and Procedures Concerning Radioactive Substances and Associated Hazards," Clinton Laboratories, United States Atomic Energy Commission, 1947.
- f. 303 "Expected Incidence of Certain Neoplastic Diseases in Veterans." Committee on Veterans Medical Problems, 1947.
- f. 304 "The Shortage of Professional Workers in Agriculture and Forestry," National Research Council Circular, 1947.
- f. 305 "Report of the Committee on Fellowships in Agriculture and Forestry."
- f. 306-312 "Experimental Genetics, COG, Section on Biology, Grants, 1948-1949 (Extension & New)".

### Selective Service System Series

- f. 314-322 Meeting of Scientific Committees, November 4 and 5, 1948.
- f. 323-332 Meeting of Scientific Committees, December 9 and 10, 1948.
- f. 333-340 Reports to Lewis B. Hershey, with committee recommendations.
- f. 338 "The Facts," E. Lowell Kelly.
- f. 339 "The Line of Thought." Charles E. Odegaard
- f. 340 "The Plan for Maintaining a Flow for Needed Specialists," Henry A. Barton; "The Plan for Utilization," Alex C. Monteith.
- f. 341 "Scientists in Uniform, World War II," a report to the Deputy Director for Research and Development, Logistics Division, General Staff, United States Army, concerning the utilization of scientific personnel.

**Professional Series**

- f. 342 Patent application 1924. Application of M. Jacobson for a method of treating seeds by X-Ray.
- f. 343-344 Regional Laboratory of Plant Genetics, 1935-1939. Proposal for and correspondence concerning the establishment of a laboratory.
- f. 345-346 Seventh International Congress of Genetics, 1939. Abstracts of papers presented at the congress.
- f. 347 United Nations Educational, Scientific, and Cultural Organization. Resolution providing for membership and participation by the United States, January 28, 1946
- f. 348-355 Atomic Energy Commission, 1945-1949. Material concerning the establishment by Congress of the commission.
- f. 356-365 National Science Foundation, 1945-1949. Material concerning the establishment by Congress of a National Science Foundation.
- f. 366-369 Conference on Mutation, 1946. Sponsored by the Committee on Growth of the National Research Council.
- f. 370-372 Princeton University Bicentennial Conference on Genetics, Paleontology, and Evolution, 1947.
- f. 373-375 Conference on Population Problems, 1952. Correspondence, arrangements, and papers.
- f. 376-465 University of Missouri
  - f. 376-388 Planting memoranda and plans. 62 Series through 74 Series.
  - f. 389-416 United States Department of Agriculture Reports, 1928-1952.
    - f. 389 Corn Hybrid and Variety Yield Test, 1928; Summary of corn yield tests, 1929
    - f. 390 Summary of Yields of Corn Hybrids and Varieties in Missouri, 1930; Experiment Station Report, 1930.
    - f. 391-394 Experiment Station Reports, 1931-1934
    - f. 395 "The Mechanism of Heredity in Corn," a research project conducted by Missouri Agricultural Experiment Station and U.S.D.A., 1935.
    - f. 396-397 Experiment Station Reports, 1936 and 1937.
    - f. 398 "Genetic Studies With Crop Plants," a research project conducted by Missouri Agricultural Experiment Station and U.S.D.A., 1937.
    - f. 399-400 Experiment Station Reports, 1938 and 1939-1940.
    - f. 401 Instructions for compiling annual reports, 1941.
    - f. 402-404 Experiment Station Reports, 1941-1943.
    - f. 405 Corn Letter, 1943.
    - f. 406-409 Experiment Station Reports, 1944-1947
    - f. 410 "Regional Swine Breeding Laboratory," U.S.D.A. report on conference at Columbia, Mo., 1948.
    - f. 411-416 Experiment Station Reports, 1948-1952.
  - f. 417-418 Budgets, 1939-1949.

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- f. 419 "A Guide for Student Advisors" distributed by the College of Agriculture, September 1944.
- f. 420-434 Genetics courses, 1930-1952.
  - f. 420-426 Advanced Genetics, 1932-1934, 1937, 1939, 1940-1941, 1945.
  - f. 427 Seminar memoranda, 1941-1945.
  - f. 428 Ultraviolet Seminars, 1942, 1947.
  - f. 429-431 Genetics Seminars, 1930, 1933-1937, 1944-1945.
  - f. 432 Advanced Cytology, 1933.
  - f. 433 Seminar on Spontaneous Gene Mutation, 1944
  - f. 434 Seminar on An Unstable Allele of R, 1952.
- f. 435-439 Undergraduate students.
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  - f. 444 G. Bauda.
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  - f. 462-463 Myron Gerald Neuffer
  - f. 464 Charles Yanofsky
- f. 465 Material concerning the use of punch cards for scientific data.
- f. 466-483 Lectures
  - f. 466 Radio talk on genetics, 1933; Ames, Iowa, 1936, "Mutation."
  - f. 467-474 Pasadena, California, 1940.
  - f. 475-480 Urbana, Illinois, 1951, "Corn Genetics."
  - f. 481 Sigma Xi, 1945.
  - f. 482 Sigma Xi, University of Arkansas, 1953.
  - f. 483 Sigma Xi, Georgia Institute of Technology, 1953.
- f. 484 Report at St. Louis meeting, November 1, 1930. Report on work in progress on chromosomal effects of irradiation and gene mutation.

**Professional Series (con'd)**



- f. 485           Petition for a grant from the NRC in support of an investigation of Genetic and Cytological Effects of Irradiation on corn and other plants, L. J. Stadler and L.F. Randolph.
- f. 486-487       Reports to the NRC on "Genetic Effects of Irradiation in Plants," 1932-1934
- f. 488           Maize Genetics Cooperation, 1933-1950. Synopsis of work done in maize genetics, listing individuals and publications.
- f. 489-490       American Association of University Professors. Stadler was a member of the committee on personnel procedures, which in 1945-1946 conducted a comparison between the University of Missouri and other institutions.
- f. 491-492       Abstracts.
- f. 493-494       Graphs, charts, and pictures showing effects of X-Ray irradiation. Charts of types of seeds and their characteristics (Pearce-Liliaceae).
- f. 495-498a      Notes on conferences.
  - f. 495           C & H Symposium.
  - f. 496           Woods Hole Genetics Conference, 1940.
  - f. 497-498      Data on Malta Bend Gamete Selection Study, 1944.
  - f. 498a          "Gene Mutation." Synopsis of paper to be presented at International Genetics Congress in Stockholm, July 1948. This was the Congress Stadler was unable to attend because of his loyalty investigation.

### Notes, Manuscripts, and Reprints Series

#### Stadler's Notes, Manuscripts, and Reprints

- f. 499           "Alleles of A," notes
- f. 500           "Anthocyanin Memo," notes
- f. 501           "Anthocyanin Testing Procedures," notes
- f. 502-505       "Biomathematics," notes
- f. 506           "Calibration of X-Ray Dosage"; "Chromosomal Analysis of Wheat," notes
- f. 507           "Chromosomal Variants," notes
- f. 507a          "Chromosome Number and the Mutation Rate in Avena and Triticum," Proceedings of the National Academy of Sciences, 15 (1929), reprint
- f. 508           "The Comparison of Ultraviolet and X-Ray Effects on Mutation," Cold Spring Harbor Symposia on Quantitative Biology, 9 (1941), and "The Effect of X-Rays Upon Dominant Mutation in Maize," Proceedings of the National Academy of Sciences, 30 (1944), reprints
- f. 509           "Comparison of the Genetic Effects of X-Rays and Ultraviolet Treatment," Stadler, J.W. Cameron, K.O. DeBoer, and H. Roman, manuscript
- f. 510           "Comparison of X-Ray and Ultraviolet Effects in Mutation," notes
- f. 511-513       "The Compound Gene," notes
- f. 514           "Corn Breeding Experiments," notes

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#### Stadler's Notes, Manuscripts, and Reprints (con'd)

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- f. 516-517 "Crossing Over," notes
- f. 518-520 "Cumulative Hybridization," notes
- f. 521 "Cytology Technic," notes
- f. 522-525 "Df Shift," notes
- f. 526 "Disentangling," notes
- f. 527-528 "The Effect of Dormancy on the Rate of Induced Mutation," notes
- f. 529-531 "The Effect of Ultraviolet Radiation on the Genes and Chromosomes of Higher Organisms," Stadler and C.P. Swanson, manuscript
- f. 532 "The Effect of X-Rays Upon Dominant Mutation in Maize," notes and manuscript
- f. 533-539 "The Effect of X-Rays Upon Mutation of the Gene A in Maize," Stadler and Herschel Roman, Genetics, 33 (1948), notes, manuscript, and reprint
- f. 540-541 "Endosperm Deficiency," notes
- f. 542 "Exotics," notes
- f. 543-545 "The Experimental Alteration of Heredity," notes and manuscript
- f. 545a "The Experimental Modification of Heredity in Crop Plants, II. Induced Mutation," Scientific Agriculture, 11 (1931), reprint
- f. 546 "The Extraction of High-Yield Genotypes from Open-Pollinated Varieties of Corn," manuscript
- f. 547-548 "The Frequency of Mutation in Maize," notes and manuscript
- f. 549 "Further Experiments on Genetic Effects of X-Rays in Maize," notes
- f. 550-555 "Gamete Selection," notes and papers
- f. 556-557 "Gamete Selection in Corn Breeding," notes and manuscript
- f. 558 "The Gamete Selection Principle in Corn Breeding," outline and papers
- f. 559-561 "The Gene," notes
- f. 562-564 "Gene Action in Anthocyanin Synthesis in Maize," notes
- f. 565 "Gene Structure," notes
- f. 566-568 "Genetic Effects of Ultraviolet Radiation in Maize. IV. Comparison of Monochromatic Radiations," Stadler and Fred M. Uber, manuscript
- f. 569-571 "Genetic Effects of Ultraviolet Radiation in Maize," notes
- f. 572 "Genetics of Plants," manuscript
- f. 573-576 "Genetic Studies With Ultraviolet Radiation," notes and manuscripts
- f. 577 "Haploids," notes
- f. 578-580 "Heterosis," notes
- f. 581 "How a Gene Works," notes
- f. 582-585 "Mechanism of Gene Rearrangement Under X-Rays," notes
- f. 586 "Memoranda on Mutation in Maize"
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- f. 591 "Molecular Reproduction," notes  
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f. 594 "Mosaic Factor," notes  
f. 595 "Mutations Affecting Biosynthesis in Neurospora," notes  
f. 596-597 "Mutation After 50 Years," notes  
f. 597a "Mutations in Barley Induced by X-Rays and Radium," *Science*, 68 (1928), reprint  
f. 598 "Mutation of Fuel A's," notes  
f. 599-605 "Mutation Monograph," notes  
f. 606 "Plant Variability Experiment," notes  
f. 606a "Problems of Gene Structure. III. Relation of Unequal Crossing-Over to the Inter-Dependence of R Elements (S) and (P)," Stadler and Margaret Emmerling, manuscript  
f. 607-609 "R Alleles," notes  
f. 610 "Shadowing the Gene," notes  
f. 611 "Shift in Drosophila," notes  
f. 611a "Some Genetic Effects of X-rays in Plants," *Journal of Heredity*, 21 (1930), reprint  
f. 612-614 "Some Observations on Gene Variability and Spontaneous Mutation," notes and manuscript  
f. 615 "Special Methods for C and I," paper  
f. 616 "Spontaneous and Induced Mutations at A Locus," notes  
f. 617 "Spontaneous Mutation of Genes of the A Cluster in Maize," notes  
f. 618-619 "Spontaneous Mutation in Maize," *Cold Spring Harbor Symposia on Quantitative Biology*, (1951), manuscript and reprint,  
f. 620-623 "Spontaneous Mutation at the R Locus in Maize", AI. The Aleurone-Color and Plant-Color Effects," and "I. The  $\lambda$  and  $\beta$  Components," manuscripts  
f. 624-626 "II. Race Differences in Mutation Rate," notes and manuscripts  
f. 627-628 "III. Genetic Modification of Mutation Rate," *American Naturalist*, 83 (1949), notes, manuscript, and reprint  
f. 629-630 "IV. An R-Linked Modifier of R Mutation Rate," *Portugaliae Acta Biologica*, Series A (1949), manuscripts and reprint  
f.-631-632 "V. The Effect of Mutation for Plant Color Upon Subsequent Mutation Rate for Seed Color," notes and manuscript  
f. 633-634 "Ultraviolet Mutation of A," Stadler and Herschel Roman, notes  
f. 635 "Variability in O[pen] P[ollinated] Varieties," notes  
f. 635a "The Variability of Crossing over in Maize," *Genetics*, 11 (1926), reprint  
f. 635b "Variation in the Intensity of Linkage in Maize," *American Naturalist*, 59 (1925), reprint  
f. 636 "X-Rays and Quantitative Inheritance," notes

**Notes, Manuscripts, and Reprints Series (con'd)**

Notes and manuscripts on genetic subjects by scientists other than Stadler.

- f. 637 Donald W. Barton, manuscript, "Comparative Effects of X-Ray and Ultraviolet Radiation on the Differentiated Chromosomes of the Tomato."
- f. 637a George W. Beadle, reprint of Stadler Memorial Lecture, "Gene Structure and Gene Function," and L.J. Stadler, "The Gene."
- f. 638 R.A. Brink, P.B. Gibson, M.A. Stahmann, manuscript, "The Mutagenic Action of Mustard Gas on Zea Mays."
- f. 639 Sherret S. Chase, manuscript, "Monoploid Frequencies in a Commercial Double Cross Hybrid, and in its Component Single Cross Hybrids and Inbred Lines."
- f. 640 K.W. Cooper, charts.
- f. 641 Helen Crouse, partial manuscript.
- f. 642 Katherine O. DeBoer, manuscript, "Comparison of Ultraviolet and X-Ray Deficiencies"
- f. 643 Clarence Frederick Genter, manuscript, "A Study of the Inheritance of Susceptibility to Leaf Blight of Corn"
- f. 644 Richard Goldschmidt, manuscript, "Chromosomes and Genes"
- f. 645 E. A. Graner, manuscript, "The Yellow-Orange Endosperm in Maize"
- f. 646 M. M. Green and K. C. Green, manuscript, "Crossing Over Between Alleles at the Lozenge Locus in *Drosophila melanogaster*"
- f. 647 Hayashi, manuscript, "Is the Case for Equational Non-Disjunction Established?"
- f. 648 Fred H. Hull, manuscripts, "Recurrent Selection for Specific Combining Ability in Corn" and a report from the Florida Agricultural Station
- f. 649 Ladley Husted, manuscripts, "A Confirmation of the Study of the Early Embryogeny of *Crepis Capillaris*"; "The Early Embryogeny of *Crepis Capillaris*"; "Report of Fellowship Activities at the University of Missouri During the Year 1934-1935"
- f. 650 Oscar Kempthorne, manuscript, "Mathematical Models and Their Analyses. II"
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